APPENDIX A

BACKGROUND SOIL ANALYTICAL DATABASE
(Contained on compact disk)

ATTACHMENT A

LETTER OF EXPLANATION FROM LABORATORY REGARDING RADIUM RESULTS

March 7, 2006

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

Ranajit Sahu
Basic Remediation Corporation
875 W. Warm Springs Rd
Henderson, NV 89015

RE: Summary of BRC Ra-226 Background Samples Apparent Low Bias

Dear Mr. Sahu:

STL St. Louis conducted a study, comparing initial STL St. Louis analytical results performed in the spring / summer timeframe of 2005 to reanalysis results by both STL St. Louis using EPA 903.0 and STL Richland Laboratory using EPA 903.1.

A reanalysis batch performed by STL St. Louis was performed in the same manner as the original analysis and confirmed the initial results. In contrast, the reanalysis of the same samples by STL Richland using a Ba-133 tracer combined with method 903.1 radon emanation resulted in activities which were comparable to earlier sampling events prior to the spring 2005 event.

To determine if this bias was caused by utilizing barium carrier rather than Ba-133 radiometric tracer recovery, another set of samples was analyzed by STL St. Louis utilizing both gravimetric yield determination and radiometric determination. The results of this study demonstrated that there are differences in sample results dependant on whether or not a radiometric tracer was utilized. Our results obtained, using the Ba 133 tracer, were comparable to the results previously reported by STL Richland and site historical data.

In conclusion, it does appear that the spring results provided are low biased. It is our technical opinion, that the primary root cause of this bias is attributed to determining yield gravimetrically versus a radiometric tracer. STL St. Louis will employ Ba 133 tracer for future Ra 226 analysis for BRC effective immediately.

Sincerely,

William Deckelmann
STL St. Louis
Laboratory Director

Joel Kempema
STL St. Louis
Radiochemistry Technical Director

Elaine Wild
STL St. Louis QA Manager

cc: Melania Harris, STL St. Louis Project Manager

APPENDIX D-2

DATA VALIDATION MEMORANDUM FOR ENVIRON SOIL BACKGROUND DATA

ndep
NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
protecting the future for generations

STATE OF NEVADA
Department of Conservation & Natural Resources
DIVISION OF ENVIRONMENTAL PROTECTION

Kenny C. Guinn, Governor
Allen Biaggi, Director
Leo M. Drozdoff, P.E., Administrator

April 20, 2006

Mr. Mark Paris
Basic Remediation Company (BRC)
875 West Warm Springs
Henderson, NV 89015

Mr. Craig Wilkinson
TIMET
PO Box 2128
Henderson, NV 89009

Re.: Nevada Division of Environmental Protection Letter Regarding:
Data Validation Memorandum on the Environ Background Data Set
NDEP Facility ID# H-000688, H-000537

Dear Mr. Paris and Mr. Wilkinson:

Attached is a memorandum regarding data validation of the background data collected by Environ for the City of Henderson. BRC and TIMET are in the process of evaluating this data for inclusion into their background data set and the attached information is needed for that evaluation.

Should you have any questions or concerns, please do not hesitate to contact me at (702) 486-2850x247.

Sincerely,

Brian A. Rakvica, P.E.
Supervisor, Special Projects Branch
Bureau of Corrective Actions

BAR:s

cc: Jim Najima, NDEP, BCA, Carson City
Barry Conaty, Akin, Gump, Strauss, Hauer & Feld, L.L.P., 1333 New Hampshire Avenue, N.W., Washington, D.C. 20036
Brenda Pohlmann, City of Henderson, PO Box 95050, Henderson, NV 89009
Mitch Kaplan, U.S. Environmental Protection Agency, Region 9, mail code: WST-5, 75 Hawthorne Street, San Francisco, CA 94105-3901
Rob Mrowka, Clark County Comprehensive Planning, PO Box 551741, Las Vegas, NV, 89155-1741
Ranajit Sahu, BRC, 311 North Story Place, Alhambra, CA 91801
Rick Kellogg, BRC, 875 West Warm Springs, Henderson, NV 89015
Kirk Stowers, Broadbent & Associates, 8 West Pacific Avenue, Henderson, Nevada 89015
George Crouse, Syngenta Crop Protection, Inc., 410 Swing Road, Greensboro, NC 27409
Susan Crowley, Tronox, PO Box 55, Henderson, Nevada 89009
Keith Bailey, Tronox, Inc, PO Box 268859, Oklahoma City, Oklahoma 73126-8859
Sally Bilodeau, ENSR, 1220 Avenida Acaso, Camarillo, CA 93012-8727
Lee Erickson, Stauffer Management Company, 400 Ridge Rd, Golden, CO 80403
Chris Sylvia, Pioneer Americas LLC, PO Box 86, Henderson, Nevada 89009
Paul Sundberg, Montrose Chemical Corporation, 3846 Estate Drive, Stockton, California 95209
Joe Kelly, Montrose Chemical Corporation of CA, 600 Ericksen Avenue NE, Suite 380, Bainbridge Island, WA 98110
Jon Erskine, Northgate Environmental Management, Inc., 300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
Karleen O'Connor, Cox Castle Nicholson, 555 Montgomery Street, Suite 1500, San Francisco, CA 94111
Brian Walsh, Centex Homes, 3606 North Rancho Drive, Suite 102, Las Vegas, NV 89130
Michael Ford, Bryan Cave, One Renaissance Square, Two North Central Avenue, Suite 2200, Phoenix, AZ 85004
Vincent Aiello, Beazer Homes, 4670 South Fort Apache, Suite 200, Las Vegas, NV
David Gratson, Neptune and Company, 1505 15th Street, Suite B, Los Alamos, NM 87544

NEPTUNE AND COMPANY, INC.
1505 15th Street
Suite B
Los Alamos NM
Phone 505-662-2121
Fax 505-662-0500

MEMORANDUM

From: David Gratson

To: Brian Rakvica

Date: 17 April 2006

Subject: Background Data – ENVIRON Dataset

Data validation was performed soil samples collected at the WRF expansion site by ENVIRON International Corporation. The samples were collected in April 2002 at eight locations and two different depths. These data are being evaluated for inclusion into the background data set as part of the BMI complex investigation.

STL St. Louis analyzed the eighteen samples, 16 native sample plus a blank and duplicate, and the laboratory report was obtained from Mr. Mark Hawley, of ENVIRON. The dioxin/furan analysis was performed at the STL - West Sacramento laboratory. The file from STL was entitled F2D050166-AR-REV.pdf. STL - St. Louis reported the results in a Level II report format with no raw data. The report included a case narrative, summary results, and the results of quality control samples (blanks, LCS, matrix spikes and duplicates). The data validation reviewed the case narrative, QC samples, and individual sample information (e.g. surrogate recoveries) for quality control issues.

Specific Comments: Data validation was performed in accordance with EPA guidance including USEPA CLP National Functional Guidelines for Organic and Inorganic Data Review. The radionuclide data was reviewed based on professional judgment. This data validation was performed on the results reported from STL St. Louis, Lot # F2D050166 dated September 10, 2002 provided at a Level II data report. Instrument calibration, raw results, and internal standards were not included in the report and therefore not reviewed. The laboratory report also did not provide details on which gamma energies are used for the individual radioisotopes nor is there a description of the use of back calculation from daughter/parents. The samples that were reviewed for validity are included in Table 1. All soil samples were collected on 4/3/2002 and analyzed for the parameters shown in Table 2. All samples were analyzed by STL - St. Louis with the exception of the dioxin/furan analysis.

Table 1. Samples included in Report

Samples
BG01-SS01
BG01-SS02
BG02-SS01
BG02-SS02
BG03-SS01
BG03-SS11
BG03-SS02
BG04-SS01
BG04-SS02
BG05-SS01
BG05-SS02
BG06-SS01
BG06-SS02
BG07-SS01
BG07-SS02
BG08-SS01
BG08-SS02
040402- WBO1 (aqueous blank)

Table 2. Analyses Peformed.

Analyses
Dioxins/Furans via EPA Method 8290 Analyzed at STL West Sacramento
Perchlorate via EPA Method 314.0
Mercury via EPA Method 7471/7470
Metals via EPA Method 6010
Metals via EPA Method 6020
Hexavalent Chromium via EPA Method 7196.
Gamma Spectroscopy via method HASL 300 Mod including Ra-226
Radium 226 (total alpha radium) via EPA Method 9315 Mod.
Radium 228 via EPA Method 9320 mod.
Isotopic Thorium via method NAS NS-3004 Mod.
Isotopic Uranium via method NAS NS-3050 Mod.
Percent Moisture via EPA method 160.3

1. **Cooler Temperatures.** All three coolers were received at a temperature that exceeded the specified temperature by several degrees (9-16 °C). Due to the analyses performed this temperature deviation should not affect data quality.
2. **Holding Times. Hexavalent Chromium.** The holding time between sample collection and extraction and analysis was met for all samples and analyses with the exception of the hexavalent chromium. The samples were extracted on 7/11/2002 and the extracts analyzed on 7/15/2002. Method 7196 specifies a holding time for extracts of 24 hours and this was exceeded by approximately 72 hours. 7196 does not specify a holding time prior to extraction but the EPA they have reported that the soils samples are stable for at least 30 days. Generally, a 30 day holding time for soil samples is specified in sampling plans. Hexavalent chromium was not detected in any sample, with reporting limits of approximately 0.40 mg/kg for the soil samples. Due to the time between extraction and analysis and the potential for false negatives, it is recommended that the results for hexavalent chromium in this study be used with caution. False negatives is also an issue since the soil samples were (presumably) not extracted using an alkaline digestion such as EPA Method 3060. These data should not be used and are rejected due to the severe holding time exceedance.

3. **Matrix Spike Recoveries – Metals.** Poor spike recovery was observed in the matrix for several of the metals analyzed with both EPA Method 6010 and Method 6020. The differences between the recovery and the criteria for manganese (Method 6020), aluminum (Method 6010) and iron (Method 6010) were especially large. The Case Narrative states that the concentration in the original sample for these three analytes was greater than 4 times the spike amount making recovery ineffective. The relative concentration of the spike to the native sample could not be verified; however the LCS recovery did meet the requirements for these analytes. These results should be used with caution but are not rejected due to the assumed spike to native concentration ratio affect on recovery.
4. **Gamma Spectroscopy, Radium 224.** The QC samples for Gamma Spectroscopy met the method requirements. However, the activity of Ra-224 in the samples generally appears high and this radionuclide is not included in the QC sample spikes. It is unclear how the activity was calculated. The activity could have been calculated either directly from the photopeak for Ra-224 or back calculated from another radionuclide such as Pb-212. It is not recommended that Radium 224 be reported directly from its photopeak with Gamma spectroscopy due to interference from other radionuclides. Without additional information on how Ra-224 was calculated these data should be used with caution and potentially rejected based on evaluation with other background levels. The data is not rejected purely due to analytical considerations. The NDEP recommends that this data be recalculated or rejected.
5. **Radium 226 and 228.** The quality control information, including barium yields, generally met the method requirements. However, recent data from STL St. Louis for these analytes indicated a bias due to the barium yields. It is likely that the barium yields in this data set do not include the radioisotope barium and may be subject to the same bias. The data is not rejected purely due to analytical considerations however the data should be used with caution. The NDEP recommends that this data be reevaluated or rejected.

APPENDIX E

STATISTICAL SUMMARY FOR BRC/TIMET DATA

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All BRC/TIMET Background Soil Samples (Table E-1)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in 0-Foot Soil Samples from BRC/TIMET Background Study (Table E-2)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in 5-Foot Soil Samples from BRC/TIMET Background Study (Table E-3)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in 10-Foot Soil Samples from BRC/TIMET Background Study (Table E-4)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in 5 and 10-Foot Soil Samples from BRC/TIMET Background Study (Table E-5)

RPDs for BRC/TIMET Field Split Samples (Table E-6)

Correlation Coefficients for Alkaline and Alkaline-Earth Metals (Table E-7)

Correlation Coefficients for Radionuclides in the Thorium-232 Decay Chain (Table E-8)

Correlation Coefficients for Radionuclides in the Uranium-238 Decay Chain (Table E-9)

Table E-1. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All BRC/TIMET Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	104	100	--	--	--	--	--	--	3,740	6,530	8,050	8,720	11,200	15,300
	Antimony	104	47	0.33	0.33	0.33	0.33	0.33	0.33	0.12	0.15	0.22	0.239	0.29	0.5
	Arsenic	104	100	--	--	--	--	--	--	2.5	3.5	4.05	4.3	5.2	7.2
	Barium	104	100	--	--	--	--	--	--	73	141	177	207	219	836
	Beryllium	104	100	--	--	--	--	--	--	0.16	0.463	0.555	0.585	0.72	0.89
	Boron	104	33	3.2	3.2	3.65	3.79	4.3	5.1	5.2	5.8	6.8	7.11	8.3	11.6
	Cadmium	104	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	104	100	--	--	--	--	--	--	8,160	17,400	23,700	28,100	35,500	82,800
	Chloride	104	69	0.25	0.79	1.1	1.29	1.6	6.2	1.2	6.48	33.6	170	248	1110
	Chromium	104	100	--	--	--	--	--	--	2.6	7.03	9.05	9.11	11.2	16.7
	Chromium Hexavalent	104	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	104	100	--	--	--	--	--	--	3.7	6.85	8.8	8.62	9.98	16.3
	Copper	104	100	--	--	--	--	--	--	10.2	15.2	18.2	18.1	20.4	30.5
	Fluoride	104	13	0.051	0.051	0.051	0.325	0.55	2.1	0.16	0.335	0.5	0.711	0.865	2.5
	Iron	104	100	--	--	--	--	--	--	5,410	10,600	13,200	13,000	15,500	19,700
	Lead	104	100	--	--	--	--	--	--	3	6.23	7.3	8.55	9.55	35.1
	Lithium	104	100	--	--	--	--	--	--	7.5	10.8	12.8	13.8	16.4	26.5
	Magnesium	104	100	--	--	--	--	--	--	4,580	7,430	9,920	9,900	12,300	17,500
	Manganese	104	100	--	--	--	--	--	--	151	339	414	423	494	1090
	Mercury	104	74	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.012	0.017	0.0221	0.027	0.11
	Molybdenum	104	100	--	--	--	--	--	--	0.3	0.42	0.51	0.585	0.675	2
	Nickel	104	100	--	--	--	--	--	--	7.9	12.7	15.9	15.8	18.1	30
	Niobium	104	0	1.02	1.02	1.3	1.42	1.68	2.8	--	--	--	--	--	--
	Nitrate	104	87	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.49	0.995	8.75	5.03	102
	Nitrite	104	5	0.061	0.061	0.061	0.061	0.061	0.061	0.075	0.113	0.15	0.149	0.185	0.21
	Palladium	104	100	--	--	--	--	--	--	0.14	0.283	0.4	0.462	0.55	1.5
	Platinum	104	5	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	0.0545	0.064	0.0708	0.0905	0.099
	Phosphorus	104	100	--	--	--	--	--	--	636	1,200	1,460	1,420	1,650	2,010
	Potassium	104	100	--	--	--	--	--	--	625	1,220	1,540	1,730	2,070	3,890
	Selenium	104	38	0.158	0.158	0.158	0.158	0.158	0.158	0.23	0.273	0.315	0.335	0.37	0.6
	Silicon	104	100	--	--	--	--	--	--	335	562	720	981	1,080	4,150
	Silver	104	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	104	100	--	--	--	--	--	--	111	203	452	486	690	1,320
	Strontium	104	100	--	--	--	--	--	--	69	134	186	223	258	808
	Sulfate	104	78	0.612	1.4	2.7	2.46	3.3	4.4	2.1	12.7	49.2	230	145	4130
	Thallium	104	25	0.2	0.438	0.543	0.565	0.638	1.1	1	1.1	1.35	1.37	1.53	1.8
	Thorium	0		--	--	--	--	--	--	--	--	--	--	--	--
	Tin	104	99	0.187	--	0.187	0.187	--	0.187	0.2	0.4	0.49	0.48	0.56	0.8
	Titanium	104	100	--	--	--	--	--	--	200	433	531	534	649	1,010
	Tungsten	104	0	0.49	0.883	1.05	1.18	1.5	2.5	--	--	--	--	--	--
	Uranium	103	100	--	--	--	--	--	--	0.43	0.82	0.94	1	1.1	2.7
	Vanadium	104	100	--	--	--	--	--	--	19.2	31.8	36.7	37.7	44.8	59.1
	Zinc	104	100	--	--	--	--	--	--	15.4	28	35.9	36.8	42.8	121
	Zirconium	104	100	--	--	--	--	--	--	60.1	111	125	126	145	179

Table E-1. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All BRC/TIMET Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Actinium-228	104	100	--	--	--	--	--	--	1.17	1.56	1.78	1.84	2.05	3.4
	Bismuth-210	104	1	-0.6	0.2	0.6	0.59	0.9	2	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Bismuth 212	104	62	0.29	0.6	0.695	0.749	0.9	1.22	0.71	0.91	1.12	1.18	1.41	1.82
	Bismuth-214	104	100	--	--	--	--	--	--	0.52	0.803	0.93	0.962	1.09	1.62
	Cobalt-57	104	0	-0.045	-0.00975	0.00065	0.0000135	0.012	0.04	--	--	--	--	--	--
	Cobalt-60	104	0	-0.073	-0.0178	0.003	0.00151	0.0223	0.082	--	--	--	--	--	--
	Lead-210	104	1	-0.6	0.2	0.6	0.59	0.9	2	2.2	--	2.2	2.2	--	2.2
	Lead-211	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Lead-212	104	100	--	--	--	--	--	--	1.08	1.33	1.57	1.53	1.73	2.11
	Lead-214	104	100	--	--	--	--	--	--	0.61	0.833	0.955	0.986	1.1	1.72
	Polonium-210	104	1	-0.6	0.2	0.6	0.59	0.9	2	2.2	--	2.2	2.2	--	2.2
	Polonium-212	104	62	0.19	0.383	0.45	0.48	0.58	0.78	0.46	0.58	0.72	0.753	0.898	1.17
	Polonium-214	104	100	--	--	--	--	--	--	0.52	0.803	0.93	0.962	1.09	1.62
	Polonium-215	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Polonium-216	104	100	--	--	--	--	--	--	1.08	1.33	1.57	1.53	1.73	2.11
	Polonium-218	104	92	0.592	0.662	0.906	0.843	0.978	0.999	0.494	0.925	1.09	1.13	1.27	2.36
	Potassium-40	104	100	--	--	--	--	--	--	17.8	22.6	24.2	24.7	26.2	35
	Protactinium-234	104	0	-0.34	-0.14	-0.08	-0.0784	-0.0125	0.13	--	--	--	--	--	--
	Radium-223	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Radium-224	104	100	--	--	--	--	--	--	1.08	1.33	1.57	1.53	1.73	2.11
	Radium 226	104	92	0.592	0.662	0.906	0.843	0.978	0.999	0.494	0.925	1.09	1.13	1.27	2.36
	Radium 228	84	81	0.946	1.38	1.57	1.58	1.85	2	1.15	1.73	2.04	1.99	2.21	2.94
	Thallium-207	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Thallium-208	104	100	--	--	--	--	--	--	0.37	0.48	0.56	0.55	0.61	0.72
	Thorium-227	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Thorium-228	104	100	--	--	--	--	--	--	1.15	1.5	1.74	1.71	1.91	2.28
	Thorium-230	104	100	--	--	--	--	--	--	0.66	0.98	1.2	1.27	1.46	3.01
	Thorium-231	104	11	0	0.0405	0.058	0.0613	0.085	0.17	0.047	0.054	0.092	0.101	0.126	0.21
	Thorium-232	104	100	--	--	--	--	--	--	1.05	1.42	1.58	1.63	1.84	2.23
	Thorium-234	104	62	-0.53	0.46	0.76	0.673	0.968	1.39	1.11	1.38	1.6	1.64	1.84	2.5
	Uranium 233/234	104	43	0.47	0.79	0.9	0.903	1.02	1.17	0.7	1.16	1.25	1.5	1.87	2.84
	Uranium 235	104	43	0	0.03	0.048	0.0474	0.064	0.11	0.037	0.0565	0.087	0.0912	0.12	0.21
	Uranium-238	104	100	--	--	--	--	--	--	0.57	0.91	1.04	1.14	1.3	2.37

Notes:

mg/kg Milligram per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g Picocurie per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table E-2. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 0 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	37	100	--	--	--	--	--	--	5,530	7,060	9,620	9,610	11,900	13,900
	Antimony	37	70	0.33	0.33	0.33	0.33	0.33	0.33	0.12	0.2	0.245	0.278	0.365	0.5
	Arsenic	37	100	--	--	--	--	--	--	2.5	3.15	4.2	4.34	5.4	7.2
	Barium	37	100	--	--	--	--	--	--	90.4	144	171	200	217	604
	Beryllium	37	100	--	--	--	--	--	--	0.16	0.465	0.66	0.629	0.79	0.89
	Boron	37	43	3.2	3.2	3.2	3.6	3.9	4.9	5.2	5.73	6.1	6.96	8.1	11.6
	Cadmium	37	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	37	100	--	--	--	--	--	--	10,900	16,000	19,500	21,600	26,200	43,200
	Chloride	37	35	0.25	0.775	0.985	1.06	1.48	1.8	1.2	1.65	4.1	42.8	28.2	252
	Chromium	37	100	--	--	--	--	--	--	3.6	7.85	11.3	10.8	13.4	16.7
	Chromium Hexavalent	37	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	37	100	--	--	--	--	--	--	5.4	8.15	9.3	9.05	9.8	14.6
	Copper	37	100	--	--	--	--	--	--	13.7	17.4	18.7	19.2	20.7	25.9
	Fluoride	37	5	0.051	0.051	0.051	0.114	0.051	0.61	0.37	--	0.735	0.735	--	1.1
	Iron	37	100	--	--	--	--	--	--	9,030	12,300	14,500	14,400	16,700	19,700
	Lead	37	100	--	--	--	--	--	--	6	8.55	10.3	11.8	12.1	35.1
	Lithium	37	100	--	--	--	--	--	--	7.5	9.85	12.4	13.7	17.8	23.9
	Magnesium	37	100	--	--	--	--	--	--	5,450	8,910	10,200	10,700	12,600	17,500
	Manganese	37	100	--	--	--	--	--	--	263	406	455	478	517	1090
	Mercury	37	86	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0091	0.0143	0.021	0.024	0.0328	0.082
	Molybdenum	37	100	--	--	--	--	--	--	0.32	0.405	0.51	0.564	0.725	1.1
	Nickel	37	100	--	--	--	--	--	--	11.4	15.5	17.1	17.6	18.9	30
	Niobium	37	0	1.02	1.06	1.3	1.52	1.8	2.8	--	--	--	--	--	--
	Nitrate	37	62	0.1	0.1	0.1	0.1	0.1	0.1	0.14	0.26	0.45	3.73	1.5	53.4
	Nitrite	37	14	0.061	0.061	0.061	0.061	0.061	0.061	0.075	0.113	0.15	0.149	0.185	0.21
	Palladium	37	100	--	--	--	--	--	--	0.19	0.245	0.29	0.355	0.375	1.5
	Platinum	37	3	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.082	--	0.082	0.082	--	0.082
	Phosphorus	37	100	--	--	--	--	--	--	636	1,300	1,520	1,470	1,630	1,990
	Potassium	37	100	--	--	--	--	--	--	1,240	1,600	1,840	2,240	2,870	3,890
	Selenium	37	59	0.158	0.158	0.158	0.158	0.158	0.158	0.23	0.285	0.32	0.346	0.37	0.6
	Silicon	37	100	--	--	--	--	--	--	335	597	844	1,390	1,900	4,150
	Silver	37	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	37	100	--	--	--	--	--	--	111	146	166	248	323	693
	Strontium	37	100	--	--	--	--	--	--	86.8	119	143	168	170	808
	Sulfate	37	46	0.612	1.25	2.45	2.35	3.25	4.4	2.1	3.95	15.9	124	120	857
	Thallium	37	32	0.2	0.52	0.59	0.61	0.745	1	1	1.1	1.35	1.33	1.5	1.7
	Tin	37	100	--	--	--	--	--	--	0.28	0.505	0.55	0.551	0.62	0.8
	Titanium	37	100	--	--	--	--	--	--	244	475	558	569	666	936
	Tungsten	37	0	0.49	0.875	1	1.13	1.4	2.5	--	--	--	--	--	--
	Uranium	37	100	--	--	--	--	--	--	0.43	0.795	0.89	0.913	1	1.8
	Vanadium	37	100	--	--	--	--	--	--	23.2	33.7	36.1	38.3	43.9	57.3
	Zinc	37	100	--	--	--	--	--	--	24.8	35.5	42.2	44.3	48.8	121
	Zirconium	37	100	--	--	--	--	--	--	60.1	115	123	125	141	176

Table E-2. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 0 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Actinium-228	37	100	--	--	--	--	--	--	1.17	1.56	1.79	1.82	2.05	2.53
	Bismuth-210	37	0	-0.3	0.4	0.63	0.766	1.1	2	--	--	--	--	--	--
	Bismuth-211	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Bismuth 212	37	59	0.29	0.6	0.7	0.763	0.93	1.13	0.71	0.845	1.01	1.11	1.37	1.82
	Bismuth-214	37	100	--	--	--	--	--	--	0.6	0.795	0.9	0.906	0.955	1.26
	Cobalt-57	37	0	-0.031	-0.009	0.007	0.00249	0.0135	0.03	--	--	--	--	--	--
	Cobalt-60	37	0	-0.073	-0.025	-0.004	-0.00768	0.0115	0.044	--	--	--	--	--	--
	Lead-210	37	0	-0.3	0.4	0.63	0.766	1.1	2	--	--	--	--	--	--
	Lead-211	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Lead-212	37	100	--	--	--	--	--	--	1.08	1.35	1.61	1.55	1.76	1.98
	Lead-214	37	100	--	--	--	--	--	--	0.75	0.835	0.93	0.924	0.98	1.19
	Polonium-210	37	0	-0.3	0.4	0.63	0.766	1.1	2	--	--	--	--	--	--
	Polonium-212	37	59	0.19	0.38	0.45	0.489	0.6	0.73	0.46	0.538	0.65	0.709	0.878	1.16
	Polonium-214	37	100	--	--	--	--	--	--	0.6	0.795	0.9	0.906	0.955	1.26
	Polonium-215	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Polonium-216	37	100	--	--	--	--	--	--	1.08	1.35	1.61	1.55	1.76	1.98
	Polonium-218	37	89	0.63	0.691	0.925	0.87	0.994	0.999	0.494	0.878	1.02	1.02	1.17	1.58
	Potassium-40	37	100	--	--	--	--	--	--	20.3	22.7	24.1	24.5	25.3	31
	Protactinium-234	37	0	-0.34	-0.155	-0.11	-0.0942	-0.025	0.12	--	--	--	--	--	--
	Radium-223	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Radium-224	37	100	--	--	--	--	--	--	1.08	1.35	1.61	1.55	1.76	1.98
	Radium 226	37	89	0.63	0.691	0.925	0.87	0.994	0.999	0.494	0.878	1.02	1.02	1.17	1.58
	Radium 228	30	77	1.11	1.34	1.78	1.61	1.86	1.93	1.28	1.85	2.03	2.03	2.34	2.94
	Thallium-207	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Thallium-208	37	100	--	--	--	--	--	--	0.41	0.495	0.57	0.567	0.625	0.72
	Thorium-227	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Thorium-228	37	100	--	--	--	--	--	--	1.15	1.64	1.8	1.78	1.93	2.28
	Thorium-230	37	100	--	--	--	--	--	--	0.72	0.925	1.15	1.11	1.26	1.7
	Thorium-231	37	8	0	0.0375	0.059	0.0603	0.077	0.13	0.054	0.054	0.09	0.0803	0.097	0.097
	Thorium-232	37	100	--	--	--	--	--	--	1.26	1.52	1.77	1.73	1.9	2.23
	Thorium-234	37	57	-0.26	0.625	0.795	0.721	0.993	1.21	1.12	1.4	1.72	1.65	1.86	2.07
	Uranium 233/234	37	24	0.47	0.783	0.85	0.868	0.995	1.16	0.7	0.875	0.96	1.02	1.22	1.23
	Uranium 235	37	43	0	0.03	0.048	0.047	0.067	0.11	0.042	0.054	0.0685	0.0803	0.1	0.13
	Uranium-238	37	100	--	--	--	--	--	--	0.57	0.82	0.93	0.933	1.06	1.38

Notes:

bgs	Below Ground Surface
mg/kg	Milligram per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	Picocurie per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

Table E-3. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	34	100	--	--	--	--	--	--	4,840	6,290	7,260	8,240	10,700	15,300
	Antimony	34	32	0.33	0.33	0.33	0.33	0.33	0.33	0.13	0.14	0.17	0.194	0.23	0.35
	Arsenic	34	100	--	--	--	--	--	--	2.8	3.5	3.85	4.09	4.73	6.1
	Barium	34	100	--	--	--	--	--	--	73	140	207	204	244	436
	Beryllium	34	100	--	--	--	--	--	--	0.38	0.468	0.54	0.564	0.668	0.77
	Boron	34	29	3.2	3.2	3.5	3.72	4.1	4.8	5.4	5.88	6.8	7.08	8.5	9.1
	Cadmium	34	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	34	100	--	--	--	--	--	--	8,160	15,800	22,600	29,300	37,600	82,800
	Chloride	34	82	0.25	0.708	1.65	1.34	1.8	1.8	1.3	3.3	41.9	220	319	1,060
	Chromium	34	100	--	--	--	--	--	--	3.1	6.4	8.45	8.24	9.83	12.1
	Chromium Hexavalent	34	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	34	100	--	--	--	--	--	--	4.8	6.2	7.85	8.3	10.2	14.8
	Copper	34	100	--	--	--	--	--	--	11.9	14.3	17.3	17.6	20.5	30.5
	Fluoride	34	15	0.051	0.051	0.051	0.45	0.765	2.1	0.31	0.335	0.67	0.614	0.865	0.94
	Iron	34	100	--	--	--	--	--	--	6,350	9,450	12,100	12,500	15,700	18,800
	Lead	34	100	--	--	--	--	--	--	4.9	6.35	6.85	7.27	8.05	12.4
	Lithium	34	100	--	--	--	--	--	--	8.5	10.5	11.7	12.6	14.6	21.3
	Magnesium	34	100	--	--	--	--	--	--	4,580	5,790	8,800	8,730	11,300	13,600
	Manganese	34	100	--	--	--	--	--	--	183	299	368	399	481	863
	Mercury	34	62	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.012	0.019	0.0187	0.025	0.034
	Molybdenum	34	100	--	--	--	--	--	--	0.3	0.378	0.5	0.587	0.625	2
	Nickel	34	100	--	--	--	--	--	--	9.2	11.3	15.1	14.8	17.7	22.7
	Niobium	34	0	1.02	1.02	1.35	1.48	1.8	2.8	--	--	--	--	--	--
	Nitrate	34	100	--	--	--	--	--	--	0.13	0.645	1.3	14.8	13.7	102
	Nitrite	34	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	34	100	--	--	--	--	--	--	0.14	0.315	0.435	0.433	0.528	0.84
	Platinum	34	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	--	0.072	0.072	--	0.099
	Phosphorus	34	100	--	--	--	--	--	--	842	1,160	1,470	1,410	1,720	2,010
	Potassium	34	100	--	--	--	--	--	--	872	1,110	1,370	1,610	2,090	3,260
	Selenium	34	32	0.158	0.158	0.158	0.158	0.158	0.158	0.23	0.28	0.34	0.326	0.37	0.4
	Silicon	34	100	--	--	--	--	--	--	399	536	721	743	859	1,360
	Silver	34	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	34	100	--	--	--	--	--	--	179	389	503	574	734	1,320
	Strontium	34	100	--	--	--	--	--	--	69	152	210	206	254	441
	Sulfate	34	91	2.2	2.2	3.1	3.23	4.4	4.4	4.3	9	84.4	228	182	3240
	Thallium	34	21	0.25	0.48	0.543	0.575	0.61	1.1	1.1	1.1	1.4	1.47	1.8	1.8
	Tin	34	100	--	--	--	--	--	--	0.2	0.4	0.445	0.455	0.53	0.75
	Titanium	34	100	--	--	--	--	--	--	213	385	531	534	672	1,010
	Tungsten	34	0	0.64	0.87	1.05	1.21	1.58	2.2	--	--	--	--	--	--
	Uranium	33	100	--	--	--	--	--	--	0.67	0.805	1	0.963	1.1	1.3
	Vanadium	34	100	--	--	--	--	--	--	21.3	30.2	36.3	36.8	43.1	59.1
	Zinc	34	100	--	--	--	--	--	--	17.6	25.9	33.6	33.5	40.3	51.3
	Zirconium	34	100	--	--	--	--	--	--	78.9	115	133	132	148	179

Table E-3. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Actinium-228	34	100	--	--	--	--	--	--	1.24	1.7	1.95	1.93	2.18	2.66
	Bismuth-210	34	0	-0.5	-0.11	0.25	0.353	0.6	1.7	--	--	--	--	--	--
	Bismuth-211	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Bismuth 212	34	65	0.53	0.563	0.805	0.767	0.873	1.21	0.72	0.925	1.14	1.17	1.38	1.82
	Bismuth-214	34	100	--	--	--	--	--	--	0.64	0.8	0.945	0.956	1.08	1.48
	Cobalt-57	34	0	-0.045	-0.0158	-0.004	-0.00611	0.006	0.022	--	--	--	--	--	--
	Cobalt-60	34	0	-0.055	-0.0185	-0.0035	0.00174	0.023	0.071	--	--	--	--	--	--
	Lead-210	34	0	-0.5	-0.11	0.25	0.353	0.6	1.7	--	--	--	--	--	--
	Lead-211	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Lead-212	34	100	--	--	--	--	--	--	1.08	1.28	1.54	1.51	1.72	1.93
	Lead-214	34	100	--	--	--	--	--	--	0.64	0.8	0.89	0.953	1.06	1.72
	Polonium-210	34	0	-0.5	-0.11	0.25	0.353	0.6	1.7	--	--	--	--	--	--
	Polonium-212	34	65	0.34	0.363	0.515	0.493	0.558	0.78	0.46	0.588	0.73	0.749	0.883	1.17
	Polonium-214	34	100	--	--	--	--	--	--	0.64	0.8	0.945	0.956	1.08	1.48
	Polonium-215	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Polonium-216	34	100	--	--	--	--	--	--	1.08	1.28	1.54	1.51	1.72	1.93
	Polonium-218	34	94	0.592	--	0.674	0.674	--	0.756	0.577	0.955	1.09	1.09	1.22	1.82
	Potassium-40	34	100	--	--	--	--	--	--	17.8	22.5	24.2	25.1	27.2	35
	Protactinium-234	34	0	-0.31	-0.153	-0.085	-0.0835	-0.00275	0.06	--	--	--	--	--	--
	Radium-223	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Radium-224	34	100	--	--	--	--	--	--	1.08	1.28	1.54	1.51	1.72	1.93
	Radium 226	34	94	0.592	--	0.674	0.674	--	0.756	0.577	0.955	1.09	1.09	1.22	1.82
	Radium 228	29	83	1.35	1.41	1.5	1.58	1.8	2	1.15	1.62	2.04	1.94	2.28	2.42
	Thallium-207	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Thallium-208	34	100	--	--	--	--	--	--	0.4	0.48	0.57	0.554	0.61	0.66
	Thorium-227	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Thorium-228	34	100	--	--	--	--	--	--	1.28	1.59	1.81	1.76	1.97	2.15
	Thorium-230	34	100	--	--	--	--	--	--	0.75	1.05	1.17	1.23	1.4	2.44
	Thorium-231	34	9	0.0009	0.034	0.053	0.058	0.084	0.13	0.047	0.047	0.052	0.0513	0.055	0.055
	Thorium-232	34	100	--	--	--	--	--	--	1.22	1.4	1.56	1.61	1.81	2.06
	Thorium-234	34	53	-0.53	0.355	0.76	0.621	0.958	1.19	1.24	1.39	1.61	1.67	1.87	2.3
	Uranium 233/234	34	44	0.75	0.77	0.92	0.934	1.05	1.16	0.94	1.15	1.23	1.38	1.59	2.44
	Uranium 235	34	38	0.0009	0.027	0.045	0.0445	0.06	0.09	0.043	0.054	0.081	0.0806	0.107	0.13
	Uranium-238	34	100	--	--	--	--	--	--	0.64	0.95	1.03	1.11	1.23	1.95

Notes:

bgs	Below Ground Surface
mg/kg	Milligram per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	Picocurie per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

Table E-4. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	33	100	--	--	--	--	--	--	3,740	6,340	7,880	8,210	10,300	13,300
	Antimony	33	36	0.33	0.33	0.33	0.33	0.33	0.33	0.12	0.133	0.155	0.198	0.25	0.41
	Arsenic	33	100	--	--	--	--	--	--	3.1	3.7	4.2	4.47	5.35	6.7
	Barium	33	100	--	--	--	--	--	--	82.5	138	171	218	203	836
	Beryllium	33	100	--	--	--	--	--	--	0.29	0.45	0.53	0.555	0.635	0.89
	Boron	33	24	3.2	3.45	4	4.02	4.4	5.1	5.5	5.9	7.4	7.45	8.58	10.2
	Cadmium	33	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	33	100	--	--	--	--	--	--	17,900	22,200	32,000	34,300	45,000	70,200
	Chloride	33	94	1.6	--	3.9	3.9	--	6.2	4.1	22.9	37.7	179	263	1,110
	Chromium	33	100	--	--	--	--	--	--	2.6	6.8	8.2	8.15	9.5	14.1
	Chromium Hexavalent	33	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	33	100	--	--	--	--	--	--	3.7	5.95	8.9	8.46	10.2	16.3
	Copper	33	100	--	--	--	--	--	--	10.2	14.6	17	17.2	19.9	23.9
	Fluoride	33	18	0.051	0.051	0.23	0.463	0.79	1.6	0.16	0.273	0.48	0.783	1.2	2.5
	Iron	33	100	--	--	--	--	--	--	5,410	9,180	12,300	11,900	14,500	19,100
	Lead	33	100	--	--	--	--	--	--	3	5.45	6	6.28	7	11.7
	Lithium	33	100	--	--	--	--	--	--	9.9	11.8	13.4	15.3	17.4	26.5
	Magnesium	33	100	--	--	--	--	--	--	5,240	6,510	10,900	10,200	12,700	16,900
	Manganese	33	100	--	--	--	--	--	--	151	309	398	386	467	641
	Mercury	33	73	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0092	0.011	0.014	0.0225	0.0188	0.11
	Molybdenum	33	100	--	--	--	--	--	--	0.33	0.44	0.54	0.608	0.645	1.9
	Nickel	33	100	--	--	--	--	--	--	7.9	11.4	14.7	14.8	18	22.1
	Niobium	33	0	1.02	1.02	1.1	1.25	1.45	2	--	--	--	--	--	--
	Nitrate	33	100	--	--	--	--	--	--	0.11	0.655	1.5	5.99	4.9	42.1
	Nitrite	33	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	33	100	--	--	--	--	--	--	0.25	0.395	0.55	0.61	0.84	1.2
	Platinum	33	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.064	--	0.064	0.064	--	0.064
	Phosphorus	33	100	--	--	--	--	--	--	722	1,070	1,370	1,350	1,640	1,960
	Potassium	33	100	--	--	--	--	--	--	625	942	1,250	1,290	1,400	2,270
	Selenium	33	21	0.158	0.158	0.158	0.158	0.158	0.158	0.26	0.27	0.29	0.313	0.39	0.4
	Silicon	33	100	--	--	--	--	--	--	423	562	680	764	893	1,380
	Silver	33	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	33	100	--	--	--	--	--	--	196	512	662	661	809	1,190
	Strontium	33	100	--	--	--	--	--	--	114	188	258	302	407	684
	Sulfate	33	100	--	--	--	--	--	--	8.6	20.3	49.8	286	132	4,130
	Thallium	33	21	0.21	0.38	0.543	0.512	0.552	0.95	1.1	1.2	1.2	1.33	1.5	1.6
	Tin	33	97	0.187	--	0.187	0.187	--	0.187	0.21	0.363	0.405	0.423	0.51	0.63
	Titanium	33	100	--	--	--	--	--	--	200	394	490	493	607	858
	Tungsten	33	0	0.51	0.88	1.1	1.2	1.5	2.1	--	--	--	--	--	--
	Uranium	33	100	--	--	--	--	--	--	0.68	0.865	0.95	1.14	1.3	2.7
	Vanadium	33	100	--	--	--	--	--	--	19.2	29.7	38.8	37.9	45.9	57.5
	Zinc	33	100	--	--	--	--	--	--	15.4	23.4	34.1	31.9	39.8	51.7
	Zirconium	33	100	--	--	--	--	--	--	68.4	102	123	122	147	177

Table E-4. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Actinium-228	33	100	--	--	--	--	--	--	1.18	1.44	1.71	1.77	2	3.4
	Bismuth-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Bismuth 212	33	61	0.52	0.59	0.65	0.715	0.75	1.22	0.83	1.07	1.3	1.26	1.45	1.69
	Bismuth-214	33	100	--	--	--	--	--	--	0.52	0.825	1.02	1.03	1.19	1.62
	Cobalt-57	33	0	-0.032	-0.005	0.002	0.00354	0.0135	0.04	--	--	--	--	--	--
	Cobalt-60	33	0	-0.042	-0.013	0.011	0.0116	0.03	0.082	--	--	--	--	--	--
	Lead-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Lead-211	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Lead-212	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Lead-214	33	100	--	--	--	--	--	--	0.61	0.87	1.01	1.09	1.24	1.68
	Polonium-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Polonium-212	33	61	0.33	0.38	0.42	0.458	0.48	0.78	0.53	0.685	0.835	0.806	0.925	1.08
	Polonium-214	33	100	--	--	--	--	--	--	0.52	0.825	1.02	1.03	1.19	1.62
	Polonium-215	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Polonium-216	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Polonium-218	33	94	0.939	--	0.959	0.959	--	0.978	0.507	0.938	1.23	1.3	1.65	2.36
	Potassium-40	33	100	--	--	--	--	--	--	18.4	22.2	24.5	24.5	26.3	31.1
	Protactinium-234	33	0	-0.25	-0.105	-0.04	-0.0555	-0.01	0.13	--	--	--	--	--	--
	Radium-223	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Radium-224	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Radium 226	33	94	0.939	--	0.959	0.959	--	0.978	0.507	0.938	1.23	1.3	1.65	2.36
	Radium 228	25	84	0.946	1.1	1.62	1.52	1.85	1.91	1.34	1.75	2.04	2.02	2.18	2.92
	Thallium-207	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Thallium-208	33	100	--	--	--	--	--	--	0.37	0.425	0.53	0.526	0.605	0.72
	Thorium-227	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Thorium-228	33	100	--	--	--	--	--	--	1.16	1.38	1.5	1.57	1.83	2.13
	Thorium-230	33	100	--	--	--	--	--	--	0.66	1.01	1.5	1.47	1.68	3.01
	Thorium-231	33	15	0	0.0438	0.06	0.0662	0.087	0.17	0.092	0.0995	0.126	0.143	0.195	0.21
	Thorium-232	33	100	--	--	--	--	--	--	1.05	1.34	1.5	1.55	1.78	2.1
	Thorium-234	33	76	0.24	0.31	0.605	0.68	1	1.39	1.11	1.36	1.55	1.61	1.8	2.5
	Uranium 233/234	33	64	0.58	0.853	0.955	0.937	1.06	1.17	1.13	1.28	1.84	1.79	2.01	2.84
	Uranium 235	33	48	0	0.036	0.053	0.0514	0.068	0.102	0.037	0.087	0.1	0.111	0.138	0.21
	Uranium-238	33	100	--	--	--	--	--	--	0.58	1.03	1.36	1.39	1.67	2.37

Notes:

bgs Below Ground Surface
mg/kg Milligram per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g Picocurie per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

Table E-5. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 and 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	67	100	--	--	--	--	--	--	3,740	6,370	7,650	8,230	10,300	15,300
	Antimony	67	34	0.33	0.33	0.33	0.33	0.33	0.33	0.12	0.14	0.16	0.196	0.25	0.41
	Arsenic	67	100	--	--	--	--	--	--	2.8	3.6	4	4.28	5	6.7
	Barium	67	100	--	--	--	--	--	--	73	139	177	211	226	836
	Beryllium	67	100	--	--	--	--	--	--	0.29	0.46	0.54	0.56	0.64	0.89
	Boron	67	27	3.2	3.2	3.8	3.88	4.4	5.1	5.4	5.88	6.95	7.24	8.53	10.2
	Cadmium	67	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	67	100	--	--	--	--	--	--	8,160	18,800	28,800	31,800	42,500	82,800
	Chloride	67	88	0.25	1.05	1.65	1.98	1.8	6.2	1.3	17.7	37.7	199	278	1110
	Chromium	67	100	--	--	--	--	--	--	2.6	6.4	8.2	8.2	9.8	14.1
	Chromium Hexavalent	67	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	67	100	--	--	--	--	--	--	3.7	6.2	8.2	8.38	10.2	16.3
	Copper	67	100	--	--	--	--	--	--	10.2	14.6	17.1	17.4	20.3	30.5
	Fluoride	67	16	0.051	0.051	0.141	0.456	0.768	2.1	0.16	0.31	0.5	0.706	0.79	2.5
	Iron	67	100	--	--	--	--	--	--	5,410	9,430	12,300	12,200	14,700	19,100
	Lead	67	100	--	--	--	--	--	--	3	5.7	6.6	6.79	7.3	12.4
	Lithium	67	100	--	--	--	--	--	--	8.5	11.2	12.8	13.9	15.8	26.5
	Magnesium	67	100	--	--	--	--	--	--	4,580	6,320	9,440	9,460	11,800	16,900
	Manganese	67	100	--	--	--	--	--	--	151	302	382	393	471	863
	Mercury	67	67	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.011	0.015	0.0207	0.0225	0.11
	Molybdenum	67	100	--	--	--	--	--	--	0.3	0.42	0.51	0.597	0.63	2
	Nickel	67	100	--	--	--	--	--	--	7.9	11.3	14.8	14.8	17.9	22.7
	Niobium	67	0	1.02	1.02	1.3	1.37	1.6	2.8	--	--	--	--	--	--
	Nitrate	67	100	--	--	--	--	--	--	0.11	0.65	1.5	10.5	6.6	102
	Nitrite	67	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	67	100	--	--	--	--	--	--	0.14	0.34	0.49	0.52	0.7	1.2
	Platinum	67	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	0.0498	0.064	0.068	0.0903	0.099
	Phosphorus	67	100	--	--	--	--	--	--	3,740	6,370	7,650	8,230	10,300	15,300
	Potassium	67	100	--	--	--	--	--	--	625	1,080	1,310	1,450	1,780	3,260
	Selenium	67	27	0.158	0.158	0.158	0.158	0.158	0.158	0.23	0.27	0.31	0.321	0.375	0.4
	Silicon	67	100	--	--	--	--	--	--	399	543	690	753	883	1,380
	Silver	67	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	67	100	--	--	--	--	--	--	179	432	615	617	784	1,320
	Strontium	67	100	--	--	--	--	--	--	69	160	219	253	342	684
	Sulfate	67	96	2.2	2.2	3.1	3.23	4.4	4.4	4.3	17.8	62.5	258	157	4,130
	Thallium	67	21	0.21	0.4	0.543	0.544	0.59	1.1	1.1	1.18	1.35	1.4	1.65	1.8
	Tin	67	99	0.187	--	0.187	0.187	--	0.187	0.2	0.388	0.435	0.44	0.52	0.75
	Titanium	67	100	--	--	--	--	--	--	200	388	504	514	621	1,010
	Tungsten	67	0	0.51	0.88	1.1	1.21	1.5	2.2	--	--	--	--	--	--
	Uranium	66	100	--	--	--	--	--	--	0.67	0.84	0.995	1.05	1.2	2.7
	Vanadium	67	100	--	--	--	--	--	--	19.2	30.5	36.9	37.3	45.1	59.1
	Zinc	67	100	--	--	--	--	--	--	15.4	25.4	34.1	32.7	40	51.7
	Zirconium	67	100	--	--	--	--	--	--	68.4	107	126	127	148	179

Table E-5. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 and 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Actinium-228	67	100	--	--	--	--	--	--	1.18	1.56	1.77	1.85	2.05	3.4
	Bismuth-210	67	1	-0.6	0.16	0.5	0.491	0.8	1.7	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Bismuth 212	67	63	0.52	0.59	0.69	0.74	0.845	1.22	0.72	0.99	1.2	1.21	1.41	1.82
	Bismuth-214	67	100	--	--	--	--	--	--	0.52	0.82	0.97	0.992	1.14	1.62
	Cobalt-57	67	0	-0.045	-0.01	-0.0009	-0.00136	0.011	0.04	--	--	--	--	--	--
	Cobalt-60	67	0	-0.055	-0.017	0.007	0.00658	0.026	0.082	--	--	--	--	--	--
	Lead-210	67	1	-0.6	0.16	0.5	0.491	0.8	1.7	2.2	--	2.2	2.2	--	2.2
	Lead-211	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Lead-212	67	100	--	--	--	--	--	--	1.08	1.29	1.54	1.52	1.72	2.11
	Lead-214	67	100	--	--	--	--	--	--	0.61	0.83	0.98	1.02	1.14	1.72
	Polonium-210	67	1	-0.6	0.16	0.5	0.491	0.8	1.7	2.2	--	2.2	2.2	--	2.2
	Polonium-212	67	63	0.33	0.38	0.45	0.474	0.545	0.78	0.46	0.63	0.765	0.776	0.903	1.17
	Polonium-214	67	100	--	--	--	--	--	--	0.52	0.82	0.97	0.992	1.14	1.62
	Polonium-215	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Polonium-216	67	100	--	--	--	--	--	--	1.08	1.29	1.54	1.52	1.72	2.11
	Polonium-218	67	94	0.592	0.633	0.848	0.816	0.968	0.978	0.507	0.952	1.13	1.19	1.37	2.36
	Potassium-40	67	100	--	--	--	--	--	--	17.8	22.4	24.3	24.8	26.6	35
	Protactinium-234	67	0	-0.31	-0.12	-0.07	-0.0697	-0.01	0.13	--	--	--	--	--	--
	Radium-223	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Radium-224	67	100	--	--	--	--	--	--	1.08	1.29	1.54	1.52	1.72	2.11
	Radium 226	67	94	0.592	0.633	0.848	0.816	0.968	0.978	0.507	0.952	1.13	1.19	1.37	2.36
	Radium 228	54	83	0.946	1.41	1.55	1.56	1.8	2	1.15	1.71	2.04	1.98	2.21	2.92
	Thallium-207	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	--	--	--	--	--	--	--
	Thallium-208	67	100	--	--	--	--	--	--	0.37	0.46	0.55	0.54	0.61	0.72
	Thorium-227	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Thorium-228	67	100	--	--	--	--	--	--	1.16	1.41	1.66	1.67	1.91	2.15
	Thorium-230	67	100	--	--	--	--	--	--	0.66	1.04	1.22	1.35	1.61	3.01
	Thorium-231	67	12	0	0.041	0.058	0.0619	0.087	0.17	0.047	0.0528	0.0995	0.109	0.167	0.21
	Thorium-232	67	100	--	--	--	--	--	--	1.05	1.36	1.52	1.58	1.78	2.1
	Thorium-234	67	64	-0.53	0.348	0.75	0.64	0.958	1.39	1.11	1.37	1.58	1.63	1.8	2.5
	Uranium 233/234	67	54	0.58	0.83	0.94	0.935	1.05	1.17	0.94	1.22	1.47	1.62	1.94	2.84
	Uranium 235	67	43	0	0.0293	0.0475	0.0476	0.0605	0.102	0.037	0.067	0.089	0.0973	0.123	0.21
	Uranium-238	67	100	--	--	--	--	--	--	0.58	0.97	1.16	1.25	1.46	2.37

Notes:

bgs	Below Ground Surface
mg/kg	Milligram per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	Picocurie per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

Table E-6 RPDS for BRC/TIMET Field Split Samples

Analyte	Location BKG-03A-3-7					Location BKG-06C-8-12					Location BKG-09C-0-0.5				
	Sample Resuts/Detect?		Split Results/Detect?		RPD	Sample Resuts/Detect?		Split Results/Detect?		RPD	Sample Resuts/Detect?		Split Results/Detect?		RPD
Anions (mg/kg)															
Chloride	199	Y	181.00	Y	9.5%	17.70	Y	20.70	Y	15.6%	1.60	N	1.30	N	NC
Fluoride	0.63	N	0.05	N	NC	0.16	Y	0.35	Y	**74.5%**	0.05	N	0.05	N	NC
Nitrate	26.1	Y	26.30	Y	0.8%	0.13	Y	0.20	Y	42.4%	0.10	N	0.10	N	NC
Nitrite	0.063	N	0.06	N	NC	0.06	N	0.06	N	NC	0.06	N	0.06	N	NC
Sulfate	143	Y	227.00	Y	45.4%	14.80	Y	15.70	Y	5.9%	5.10	Y	4.80	N	NC
Metals (mg/kg)															
Aluminum	8990	Y	6,580.00	Y	31.0%	11,600.00	Y	12,600.00	Y	8.3%	10,400.00	Y	10,200.00	Y	1.9%
Antimony	0.35	Y	0.33	N	NC	0.33	N	0.13	Y	NC	0.33	N	0.33	N	NC
Arsenic	3.5	Y	3.80	Y	8.2%	4.40	Y	4.50	Y	2.2%	3.70	Y	3.50	Y	5.6%
Barium	221	Y	218.00	Y	1.4%	169.00	Y	191.00	Y	12.2%	190.00	Y	283.00	Y	39.3%
Beryllium	0.44	Y	0.42	Y	4.7%	0.62	Y	0.63	Y	1.6%	0.45	Y	0.44	Y	2.2%
Boron	6.8	Y	4.40	N	NC	4.00	N	3.80	N	NC	4.90	N	4.90	N	NC
Cadmium	0.1291	N	0.13	N	NC	0.13	N	0.13	N	NC	0.13	N	0.13	N	NC
Calcium	23900	Y	24,600.00	Y	2.9%	47,000.00	Y	43,200.00	Y	8.4%	22,700.00	Y	23,000.00	Y	1.3%
Chromium	6.4	Y	5.50	Y	15.1%	8.60	Y	9.50	Y	9.9%	11.30	Y	10.30	Y	9.3%
Cobalt	6.6	Y	11.60	Y	**54.9%**	10.20	Y	12.00	Y	16.2%	9.90	Y	13.20	Y	28.6%
Copper	24.2	Y	14.40	Y	**50.8%**	19.10	Y	21.30	Y	10.9%	19.60	Y	19.70	Y	0.5%
Chromium, Hexavalent VI	0.26	N	0.26	N	NC	0.26	N	0.26	N	NC	0.25	N	0.25	N	NC
Iron	8890	Y	8,480.00	Y	4.7%	15,600.00	Y	16,800.00	Y	7.4%	17,400.00	Y	17,200.00	Y	1.2%
Lead	5.7	Y	7.40	Y	26.0%	5.60	Y	6.00	Y	6.9%	11.10	Y	13.70	Y	21.0%
Lithium	11.5	Y	11.70	Y	1.7%	19.50	Y	19.20	Y	1.6%	13.20	Y	11.30	Y	15.5%
Magnesium	7590	Y	5,720.00	Y	28.1%	13,000.00	Y	14,400.00	Y	10.2%	10,300.00	Y	10,800.00	Y	4.7%
Manganese	304	Y	468.00	Y	42.5%	432.00	Y	503.00	Y	15.2%	445.00	Y	766.00	Y	**53.0%**
Mercury	0.0072	N	0.01	N	NC	0.01	Y	0.01	Y	25.6%	0.03	Y	0.03	Y	30.5%
Molybdenum	0.76	Y	0.65	Y	15.6%	0.38	Y	0.45	Y	16.9%	0.51	Y	0.45	Y	12.5%
Nickel	13.2	Y	10.40	Y	23.7%	17.90	Y	19.30	Y	7.5%	18.90	Y	19.60	Y	3.6%
Niobium	1.7	N	1.60	N	NC	1.02	N	1.02	N	NC	2.50	N	1.70	N	NC
Palladium	0.58	Y	0.44	Y	27.5%	0.88	Y	1.00	Y	12.8%	0.45	Y	0.47	Y	4.3%
Phosphorus	1160	Y	1,150.00	Y	0.9%	1,640.00	Y	1,500.00	Y	8.9%	1,540.00	Y	1,580.00	Y	2.6%
Platinum	0.0435	N	0.04	N	NC	0.04	N	0.04	N	NC	0.04	N	0.04	N	NC
Potassium	3260	Y	2,260.00	Y	36.2%	792.00	Y	956.00	Y	18.8%	1,800.00	Y	1,680.00	Y	6.9%
Selenium	0.23	Y	0.38	Y	49.2%	0.16	N	0.16	N	NC	0.16	N	0.16	N	NC
Silicon	1230	Y	1,150.00	Y	6.7%	712.00	Y	656.00	Y	8.2%	620.00	Y	555.00	Y	11.1%
Silver	0.2609	N	0.26	N	NC	0.26	N	0.26	N	NC	0.26	N	0.26	N	NC
Sodium	716	Y	588.00	Y	19.6%	852.00	Y	831.00	Y	2.5%	357.00	Y	399.00	Y	11.1%
Strontium	294	Y	234.00	Y	22.7%	394.00	Y	488.00	Y	21.3%	203.00	Y	217.00	Y	6.7%
Thallium	0.28	N	0.39	N	NC	0.54	N	0.22	N	NC	1.70	Y	1.60	Y	6.1%
Tin	0.52	Y	0.42	Y	21.3%	0.38	Y	0.51	Y	29.2%	0.69	Y	0.76	Y	9.7%
Titanium	673	Y	528.00	Y	24.1%	503.00	Y	650.00	Y	25.5%	864.00	Y	767.00	Y	11.9%
Tungsten	2.2	N	1.60	N	NC	0.67	N	1.90	N	NC	1.50	N	1.50	N	NC
Uranium	0.99	Y	0.85	Y	15.2%	1.30	Y	1.50	Y	14.3%	0.97	Y	0.98	Y	1.0%
Vanadium	36.2	Y	29.00	Y	22.1%	46.20	Y	59.50	Y	25.2%	46.10	Y	48.80	Y	5.7%
Zinc	25.5	Y	25.50	Y	0.0%	40.00	Y	42.60	Y	6.3%	63.60	Y	70.60	Y	10.4%
Zirconium	112	Y	116.00	Y	3.5%	124.00	Y	124.00	Y	0.0%	145.00	Y	137.00	Y	5.7%
Radionuclides (pCi/g)															
Actinium 227-X	-0.38	N	0.09	N	NC	-0.37	N	0.26	N	NC	-0.06	N	0.18	N	NC
Actinium 228	1.67	Y	1.85	Y	10.2%	1.18	Y	1.36	Y	14.2%	1.71	Y	1.70	Y	0.6%
Bismuth 210-X	0.5	N	-0.02	N	NC	0.60	N	1.09	N	NC	0.50	N	0.40	N	NC
Bismuth 211-X	-0.38	N	0.09	N	NC	-0.37	N	0.26	N	NC	-0.06	N	0.18	N	NC
Bismuth 212	1.82	Y	1.11	Y	48.5%	1.10	Y	1.03	Y	6.6%	0.90	Y	0.83	N	NC
Bismuth 214	1.06	Y	0.92	Y	14.1%	1.19	Y	0.92	Y	25.6%	0.73	Y	0.75	Y	2.7%
Cobalt 57	-0.01	N	-0.01	N	NC	-0.01	N	0.01	N	NC	-0.02	N	-0.01	N	NC
Cobalt 60	-0.023	N	0.00	N	NC	-0.01	N	-0.01	N	NC	-0.03	N	-0.01	N	NC

Table E-6 RPDS for BRC/TIMET Field Split Samples

Analyte	Location BKG-03A-3-7					Location BKG-06C-8-12					Location BKG-09C-0-0.5				
	Sample Resuts/Detect?		Split Results/Detect?		RPD	Sample Resuts/Detect?		Split Results/Detect?		RPD	Sample Resuts/Detect?		Split Results/Detect?		RPD
Lead 210	0.5	N	-0.02	N	NC	0.60	N	1.09	N	NC	0.50	N	0.40	N	NC
Lead 211-X	-0.38	N	0.09	N	NC	-0.37	N	0.26	N	NC	-0.06	N	0.18	N	NC
Lead 212	1.6	Y	1.64	Y	2.5%	1.20	Y	1.26	Y	4.9%	1.30	Y	1.42	Y	8.8%
Lead 214	1.03	Y	0.85	Y	19.1%	0.82	Y	1.00	Y	19.8%	0.85	Y	0.71	Y	17.9%
Polonium 210-X	0.5	N	-0.02	N	NC	0.60	N	1.09	N	NC	0.50	N	0.40	N	NC
Polonium 212-X	1.17	Y	0.71	Y	48.9%	0.70	Y	0.66	Y	5.9%	0.58	Y	0.53	N	NC
Polonium 214-X	1.06	Y	0.92	Y	14.1%	1.19	Y	0.92	Y	25.6%	0.73	Y	0.75	Y	2.7%
Polonium 215-X	-0.38	N	0.09	N	NC	-0.37	N	0.26	N	NC	-0.06	N	0.18	N	NC
Polonium 216-X	1.6	Y	1.64	Y	2.5%	1.20	Y	1.26	Y	4.9%	1.30	Y	1.42	Y	8.8%
Polonium 218-X	0.952	Y	1.10	Y	14.4%	1.34	Y	1.08	Y	21.5%	1.14	Y	1.18	Y	3.4%
Potassium 40	30.4	Y	26.70	Y	13.0%	23.40	Y	20.60	Y	12.7%	23.70	Y	23.20	Y	2.1%
Protactinium 234	-0.02	N	-0.02	N	NC	-0.08	N	0.17	N	NC	0.01	N	-0.05	N	NC
Radium 223-X	-0.38	N	0.09	N	NC	-0.37	N	0.26	N	NC	-0.06	N	0.18	N	NC
Radium 224-X	1.6	Y	1.64	Y	2.5%	1.20	Y	1.26	Y	4.9%	1.30	Y	1.42	Y	8.8%
Radium 226	0.952	Y	1.10	Y	14.4%	1.34	Y	1.08	Y	21.5%	1.14	Y	1.18	Y	3.4%
Radium 228	2.29	Y	1.96	Y	15.5%	2.02	Y	1.68	Y	18.4%	1.97	Y	2.49	Y	23.3%
Thallium 207-X	-0.38	N	0.09	N	NC	-0.37	N	0.26	N	NC	-0.06	N	0.18	N	NC
Thallium 208	0.6	Y	0.56	Y	6.9%	0.48	Y	0.44	Y	8.7%	0.47	Y	0.51	Y	8.2%
Thorium 227	-0.38	N	0.09	N	NC	-0.37	N	0.26	N	NC	-0.06	N	0.18	N	NC
Thorium 228	1.85	Y	1.78	Y	3.9%	1.50	Y	1.24	Y	19.0%	1.90	Y	1.80	Y	5.4%
Thorium 230	1.67	Y	1.21	Y	31.9%	1.61	Y	1.51	Y	6.4%	1.20	Y	1.02	Y	16.2%
Thorium 231	0.045	N	0.03	N	NC	0.11	Y	0.02	N	NC	0.05	N	0.03	N	NC
Thorium 232	1.5	Y	2.13	Y	34.7%	1.28	Y	1.19	Y	7.3%	1.54	Y	1.72	Y	11.0%
Thorium 234	1.64	Y	0.22	N	NC	1.52	Y	1.39	Y	8.9%	0.73	N	0.43	N	NC
Uranium 233/234	1.16	N	0.95	N	NC	1.21	Y	1.20	Y	0.8%	0.79	N	0.95	N	NC
Uranium 235	0.045	N	0.03	N	NC	0.11	Y	0.02	N	NC	0.05	Y	0.03	N	NC
Uranium 238	1.23	Y	0.98	Y	22.6%	1.59	Y	1.28	Y	21.6%	0.69	Y	0.78	Y	12.2%
Geotechnical															
CEC (meq/100g)	8.6	Y	9.60	Y	11.0%	16.40	Y	12.90	Y	23.9%	14.90	Y	16.50	Y	10.2%
Moisture (%)	2.2	Y	2.60	Y	16.7%	3.50	Y	3.80	Y	8.2%	1.30	Y	1.40	Y	7.4%
pH (pH unit)	8.5	Y	8.50	Y	0.0%	9.30	Y	9.20	Y	1.1%	8.90	Y	9.00	Y	1.1%

Notes:

mg/kg = Milligram per kilogram
NC = Not calculated because one or both split sample results are non-detect
RPD = Relative percent difference
Y/N = Yes or no; answers whether the analyte was detected or not
X = Indicates that the radionuclide was back-quantitated from a longer-lived radionuclide in the same decay chain

meq/100g = Milliequivalent per 100 grams
pCi/g = PicoCurie per gram
CEC = Cation exchange capacity

TABLE E-7

CORRELATION COEFFICIENTS FOR ALKALINE AND ALKALINE-EARTH METALS

Metal	Ba	Ca	K	Li	Mg	Na	Sr	Ra-226
Ba		-0.04	-0.04	-0.01	**-0.22**	0.02	0.06	**-0.34**
Ca	-0.04		**-0.21**	**0.58**	**0.42**	**0.59**	**0.52**	**0.41**
K	-0.04	**-0.21**		0.18	0.01	**-0.29**	-0.19	-0.11
Li	-0.01	**0.58**	0.18		**0.56**	**0.36**	**0.34**	**0.38**
Mg	**-0.22**	**0.42**	0.01	**0.56**		**0.20**	**0.42**	0.04
Na	0.02	**0.59**	**-0.29**	**0.36**	**0.20**		**0.59**	**0.24**
Sr	0.06	**0.52**	-0.19	**0.34**	**0.42**	**0.59**		**0.24**
Ra-226	**-0.34**	**0.41**	-0.11	**0.38**	0.04	**0.24**	**0.24**	

Notes:

Ba Barium
Ca Calcium
K Potassium
Li Lithium
Mg Magnesium
Na Sodium
Sr Strontium
Ra Radium

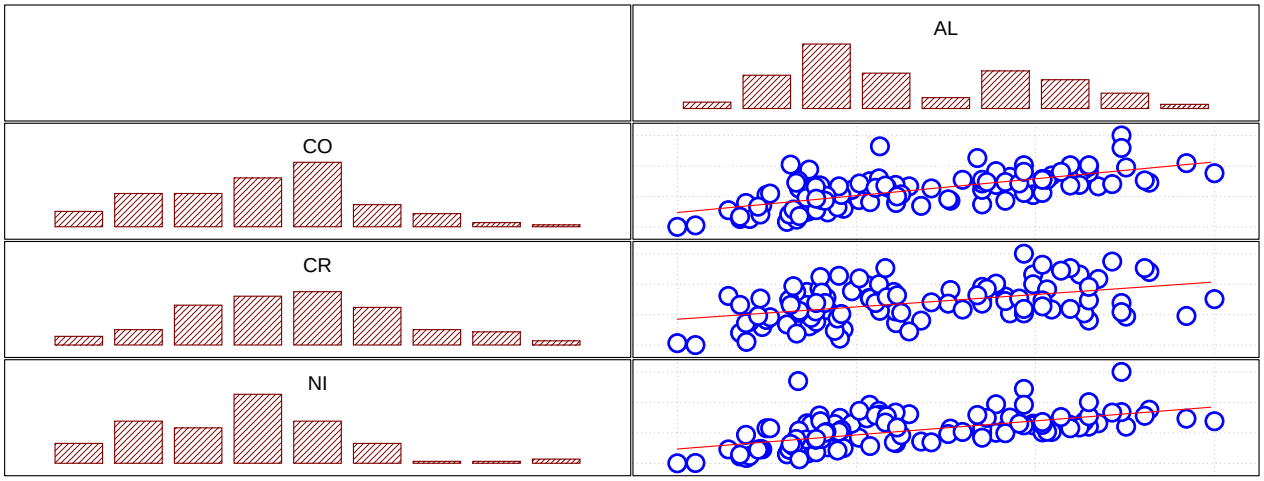
Correlation coefficients in bold-face font are statistically significant at $p \leq 0.05$
Shaded values show an inverse correlation

Associated Figures

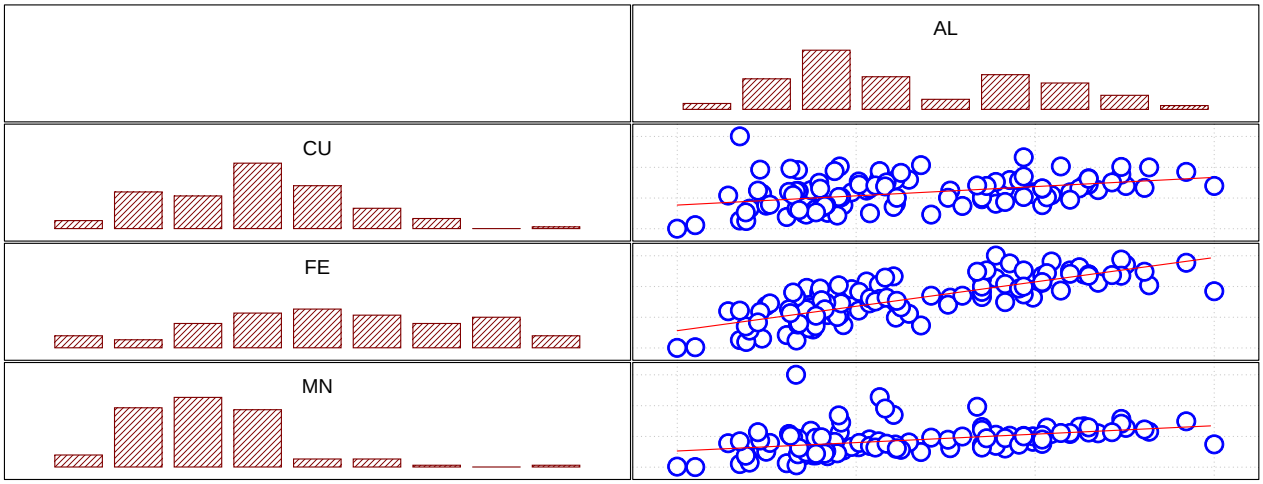
Correlations of Aluminum and Trace Metals
Correlations of Barium with Alkaline Metals and Sulfate
Correlation of Silicon with Selected Metals
Scatter Plots with Inter-element Correlations for Silicon (2 pages)

Correlations of Aluminum and Trace Metals

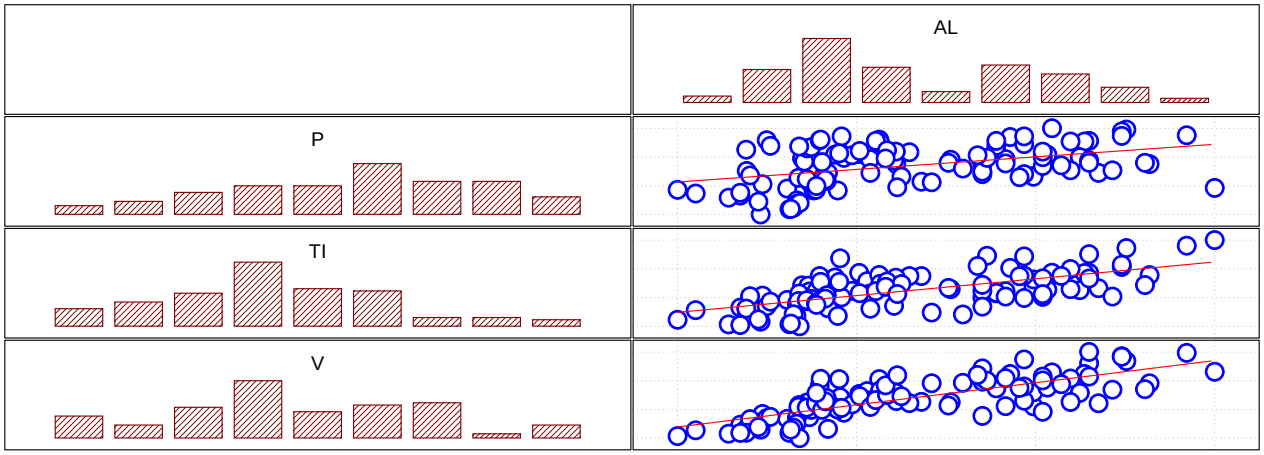
Correlations of Aluminum and Cobalt, Chromium, and Nickel



Correlations of Aluminum with Copper, Iron, and Manganese

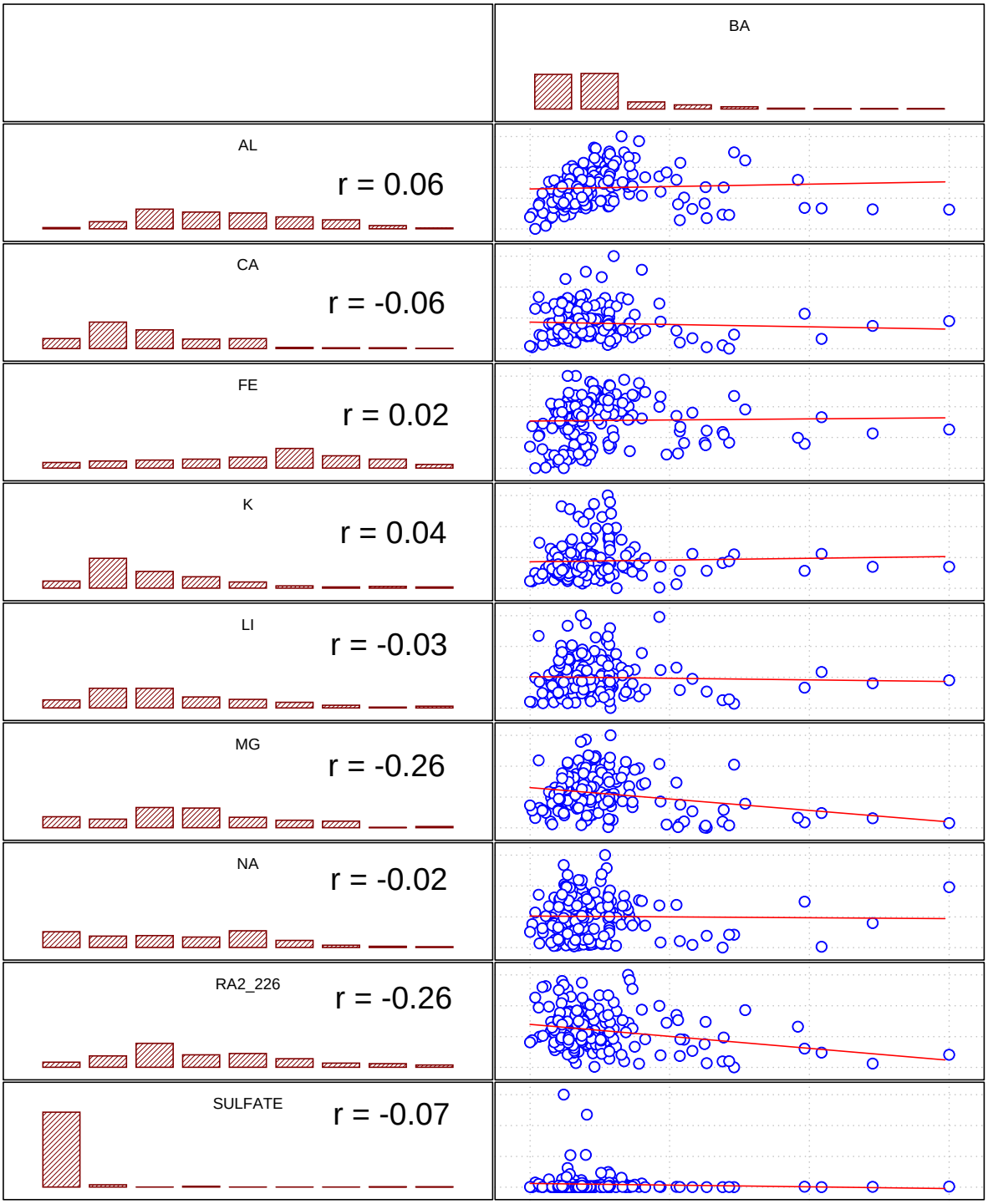


Correlations of Aluminum with Phosphorus, Titanium, and Vanadium

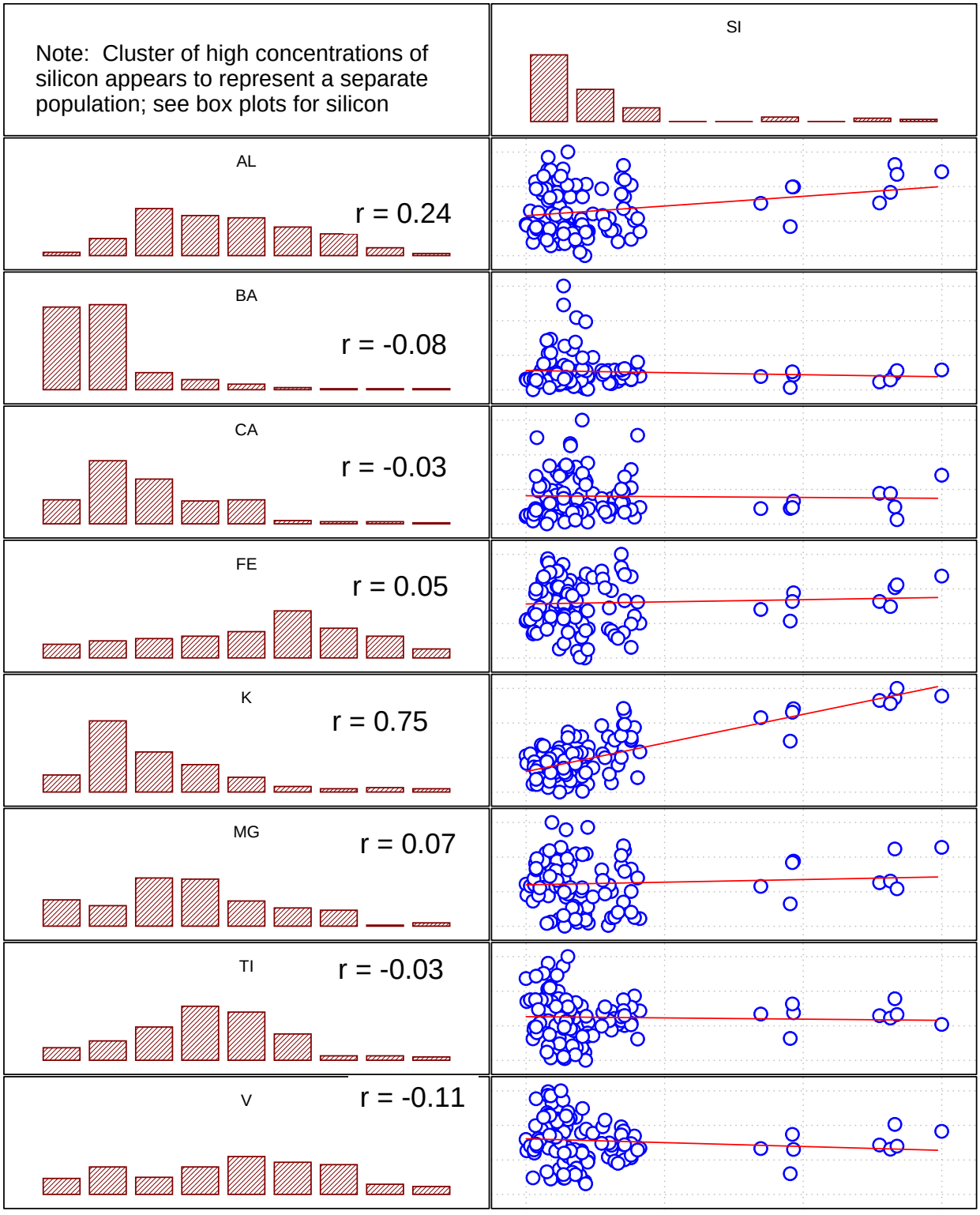


Correlations of Barium with Alkaline Metals and Sulfate

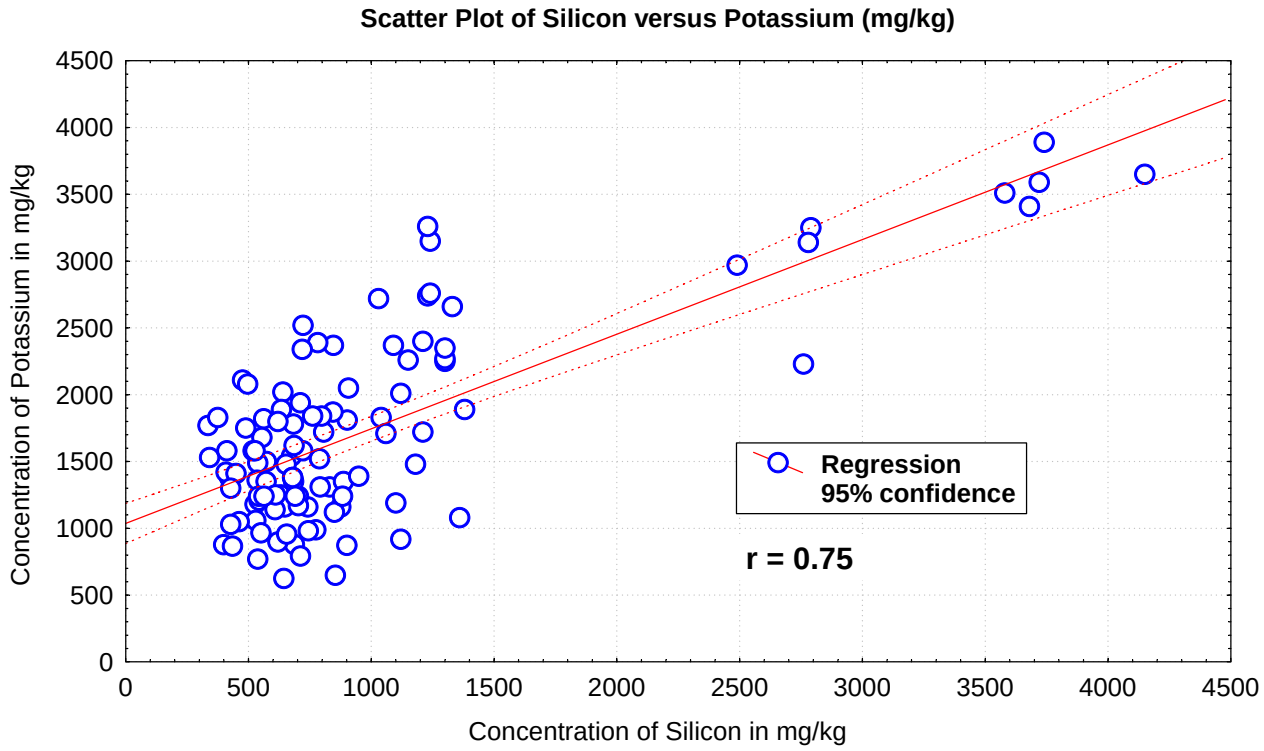
Correlations of Barium vs. Aluminum, Sulfate, Alkaline Earth and Alkali Metals

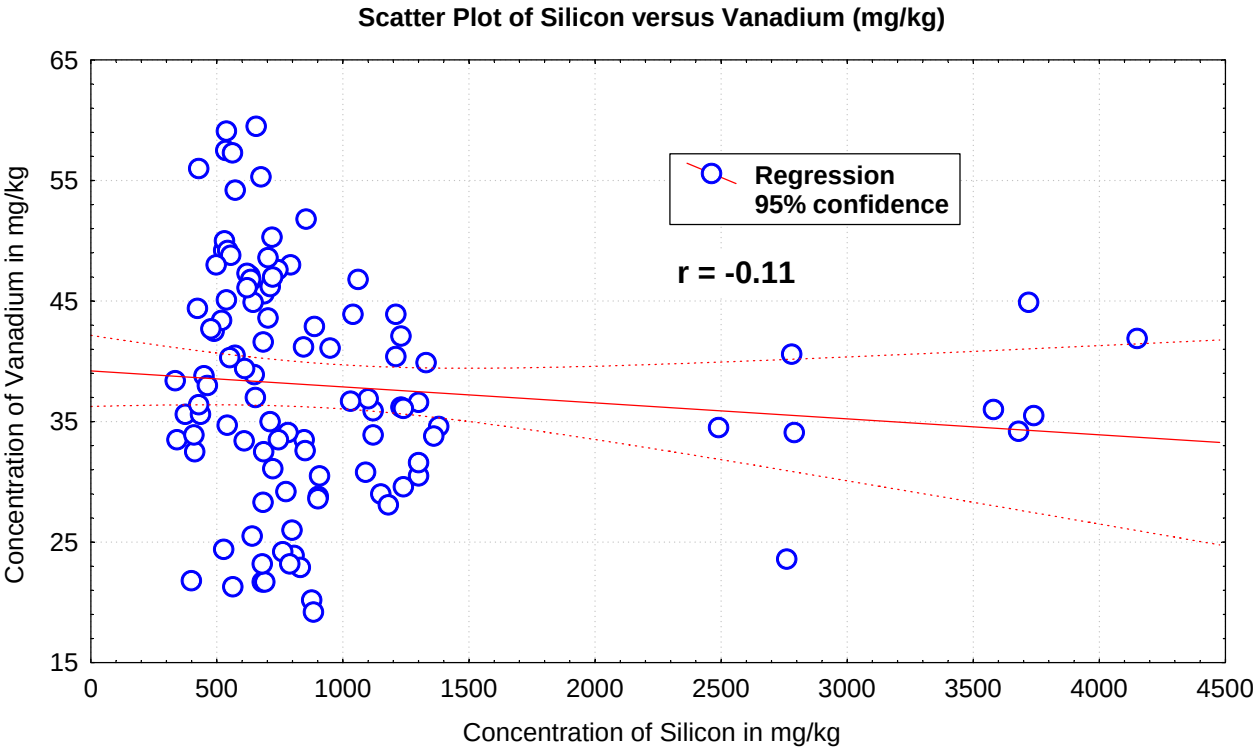


Correlations of Silicon with Selected Metals

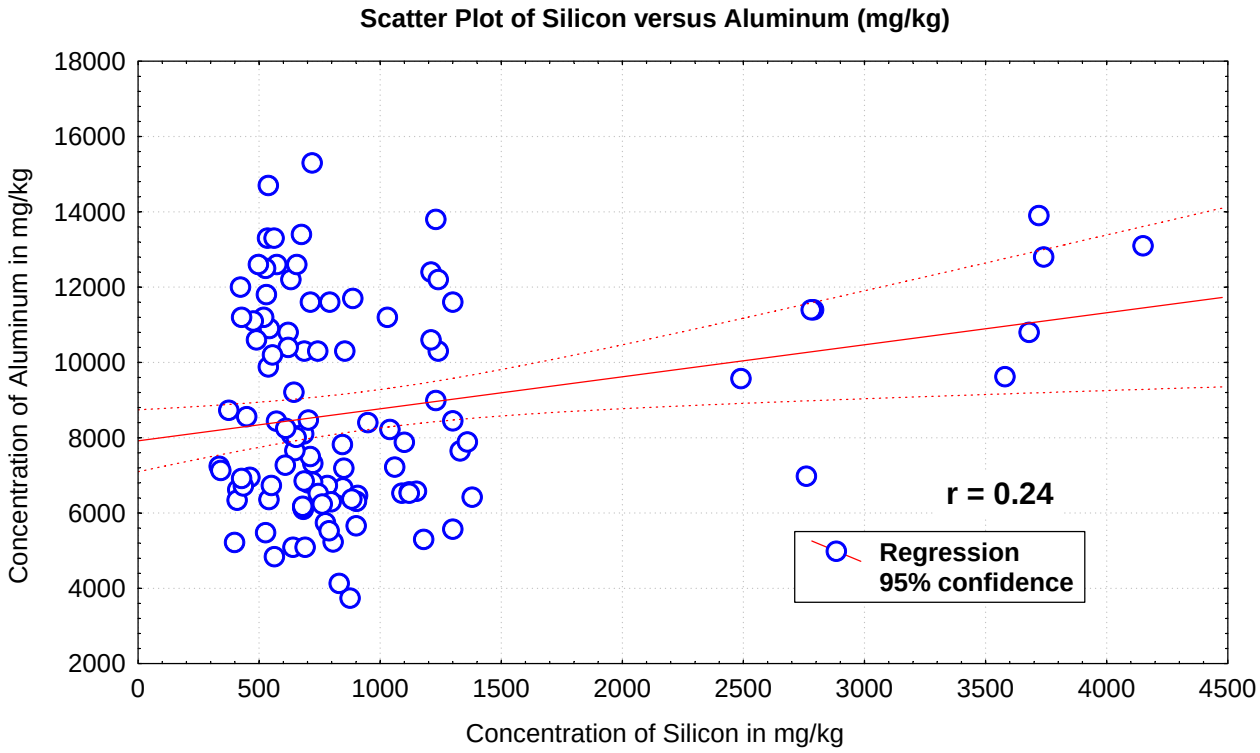


Scatter Plots with Inter-element Correlations for Silicon





Scatter Plots with Inter-element Correlations for Silicon



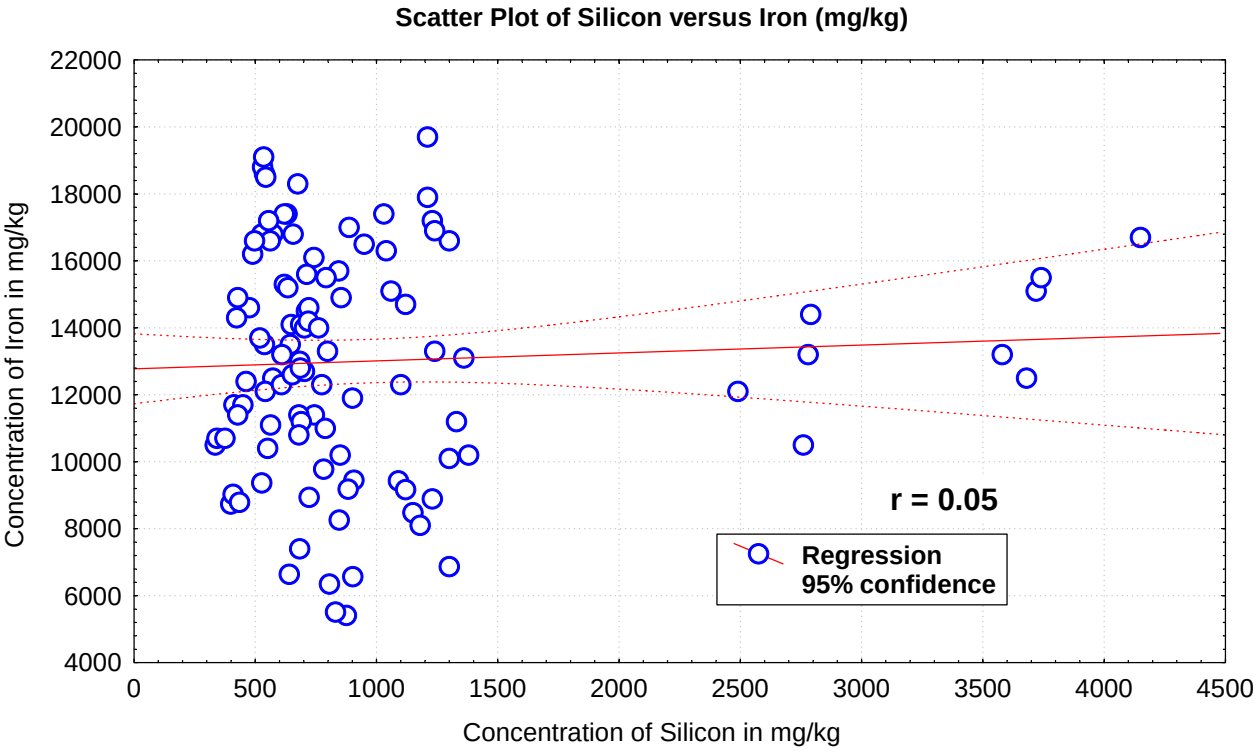


TABLE E-8
CORRELATION COEFFICIENTS FOR RADIONUCLIDES
IN THE THORIUM-232 DECAY CHAIN

Isotope	Ac-228	Bi-212	Pb-212	Ra-224X	Ra-228	Th-228	Th-232	Tl-208
Ac-228		**0.33**	**0.58**	**0.58**	**0.28**	**0.53**	**0.51**	**0.55**
Bi-212	**0.33**		**0.46**	**0.46**	**0.26**	**0.30**	**0.34**	**0.30**
Pb-212	**0.58**	**0.46**			**0.30**	**0.58**	**0.59**	**0,75**
Ra-224X	**0.58**	**0.46**	**1.00**	**1.00**	**0.30**	**0.58**	**0.59**	**0.75**
Ra-228	**0.28**	**0.26**	**0.30**	**0.30**		**0.31**	**0.32**	**0.32**
Th-228	**0.53**	**0.30**	**0.58**	**0.58**	**0.31**		**0.76**	**0.53**
Th-232	**0.51**	**0.34**	**0.59**	**0.59**	**0.32**	**0.76**		**0.56**
Tl-208	**0.55**	**0.30**	**0.75**	**0.75**	**0.32**	**0.53**	**0.56**	

Notes:

Ac Actinium
Bi Bismuth
Pb Lead
Ra Radium
Th Thorium
Tl Thallium
X Calculated from the nearest decay product (Pb-212) with measurable gamma emissions; as opposed to direct measurement.

Statistically significant r-values shown in bold-face font, where significance taken at $p \leq 0.05$

Associated Figures

Correlations for Thorium-232 Decay Chain

Correlations for Thorium-232 Decay Chain

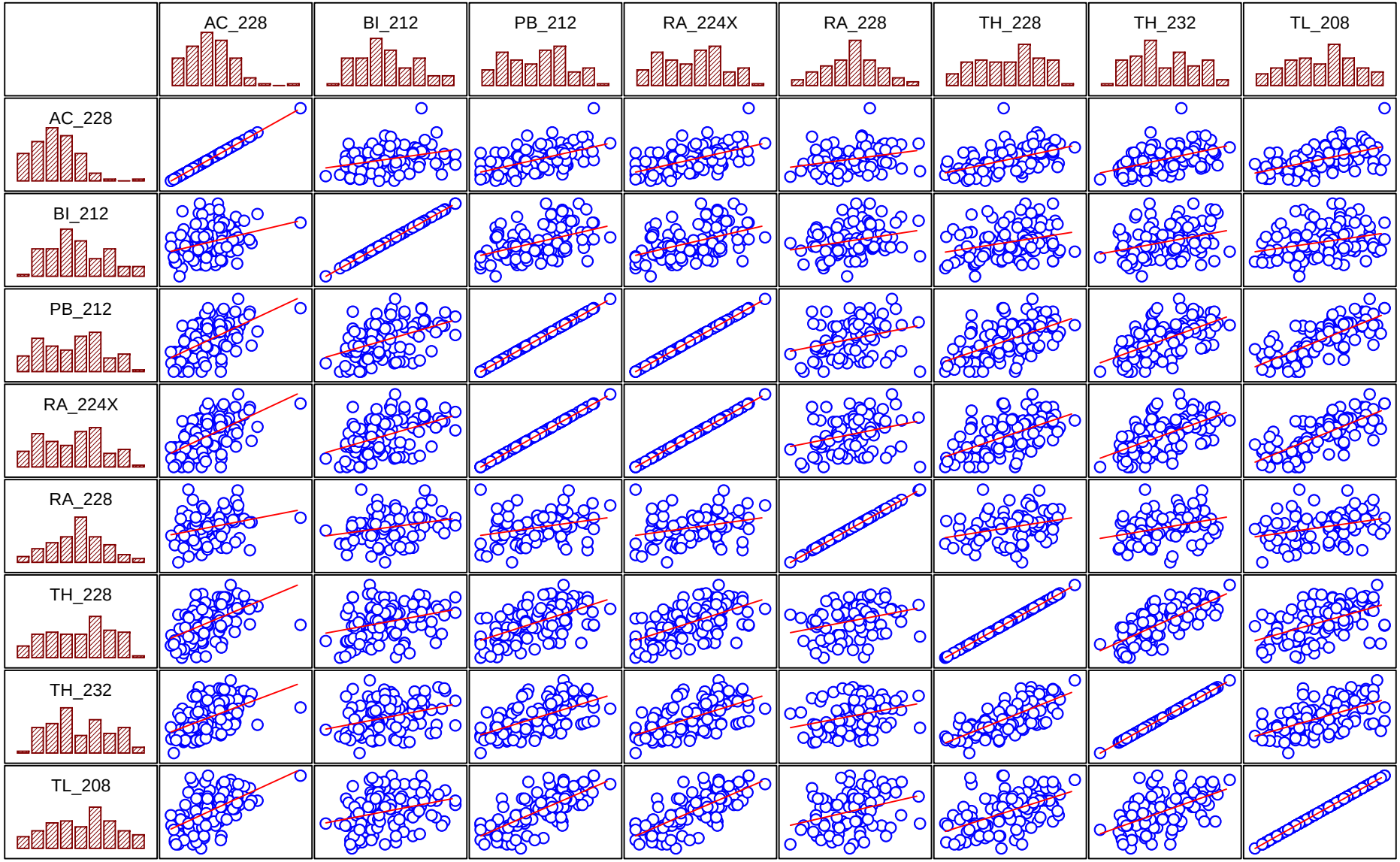


TABLE E-9

CORRELATION COEFFICIENTS FOR RADIONUCLIDES IN THE URANIUM-238 DECAY CHAIN

Isotope	Bi-214	Pa-234	Pb-210	Pb-214	Ra-226	Th-230	Th-234	U-234	U-238
Bi-214		0.03	**0.27**	**0.80**	**0.69**	**0.71**	**0.32**	**0.70**	**0.67**
Pa-234	0.03		0.06	0.12	**0.21**	0.19	**0.23**	0.09	0.11
Pb-210	**0.27**	0.06		**0.24**	**0.23**	**0.22**	0.10	0.19	0.14
Pb-214	**0.80**	0.12	**0.24**		**0.75**	**0.73**	**0.32**	**0.73**	**0.68**
Ra-226	**0.69**	**0.21**	**0.23**	**0.75**		**0.66**	**0.36**	**0.69**	**0.70**
Th-230	**0.71**	0.19	**0.22**	**0.73**	**0.66**		**0.24**	**0.78**	**0.78**
Th-234	**0.32**	**0.23**	0.10	**0.32**	**0.36**	**0.24**		**0.31**	**0.31**
U-234	**0.70**	0.09	0.19	**0.73**	**0.69**	**0.78**	**0.31**		**0.88**
U-238	**0.67**	0.11	0.14	**0.68**	**0.70**	**0.78**	**0.31**	**0.88**	

Notes:

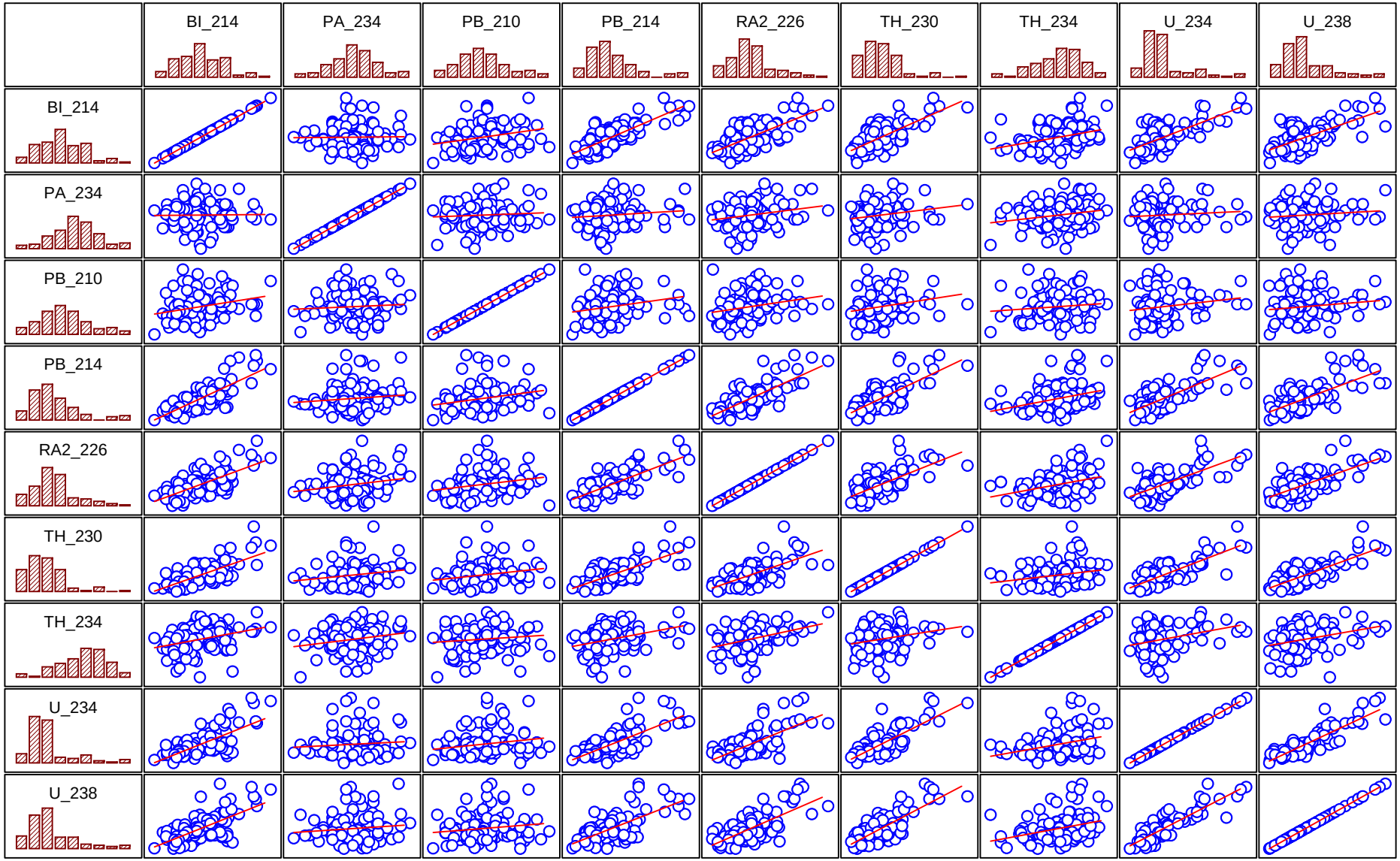
Bi Bismuth
Pa Protactinium
Pb Lead
Ra Radium
Th Thorium
U Uranium

Statistically significant r-values shown in bold-face font, where significance taken at $p < 0.05$

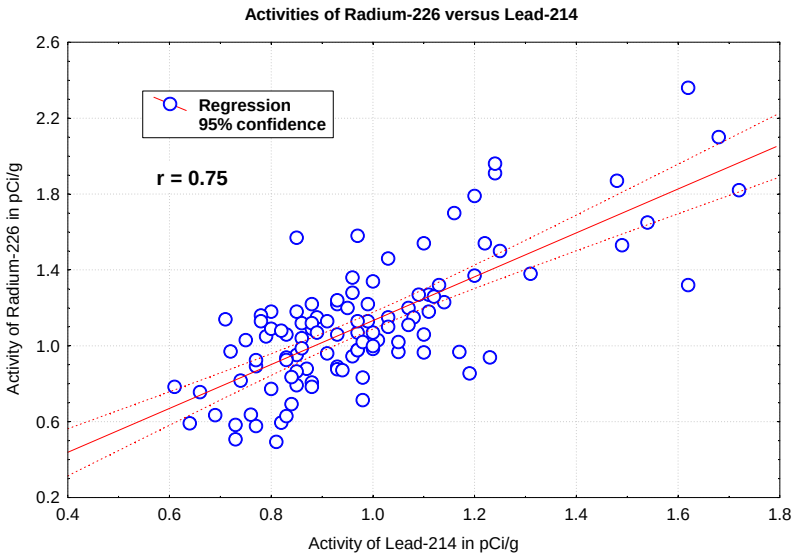
Associated Figures

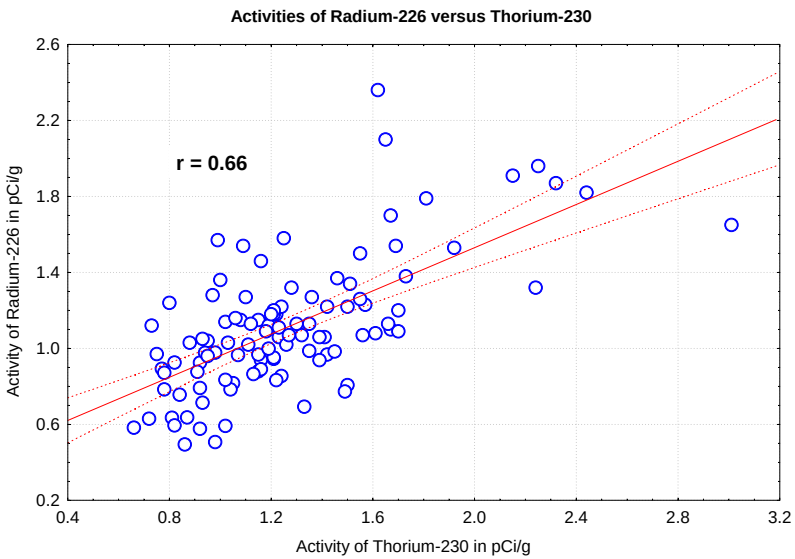
Correlations for Uranium-238 Decay Chain
Correlation of Radium-226 with Members of U-238 Decay Chain
Calculated Mass versus Measured Mass for Uranium
Activity of Uranium-234 versus Uranium-238

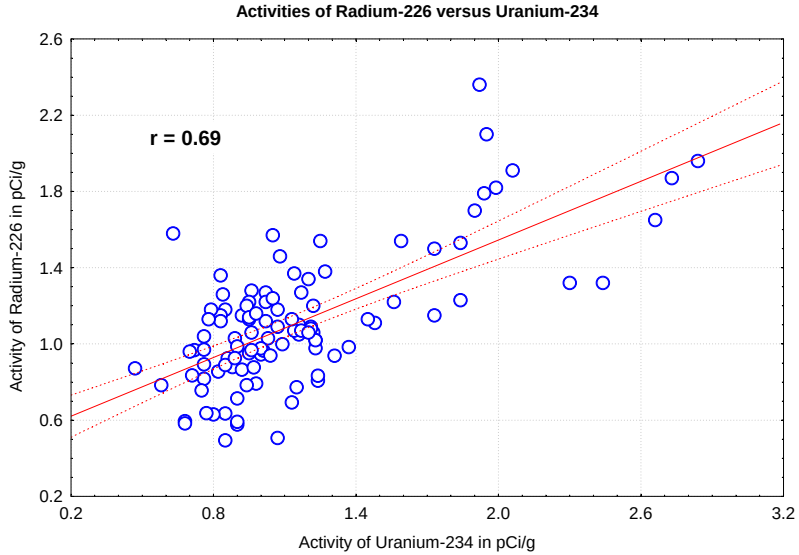
Correlations for Uranium-238 Decay Chain

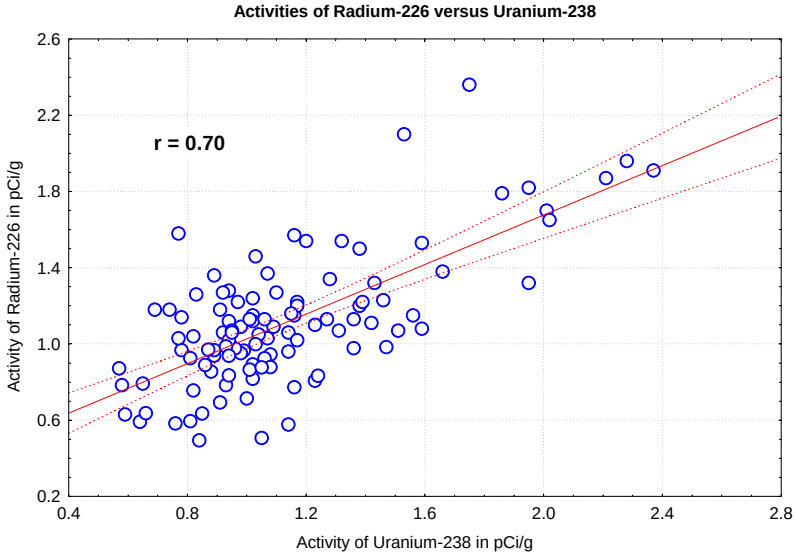


Correlation of Radium-226 with Members of U-238 Decay Chain for BRC/TIMET Data



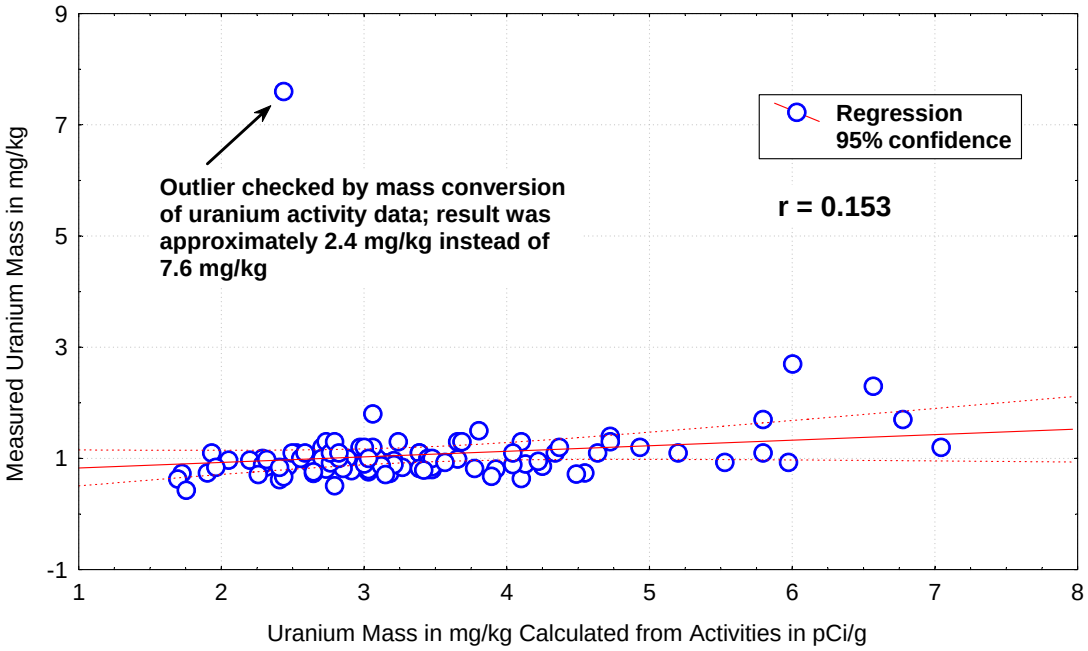






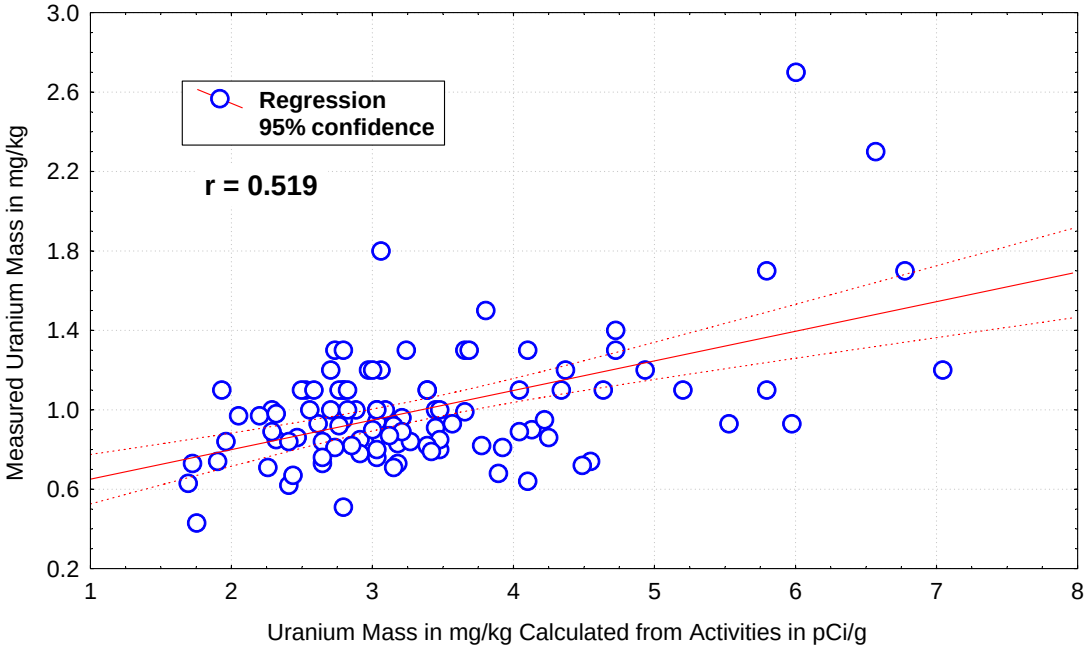
Calculated Mass versus Measured Mass for Uranium in BRCTIM Background Soil
Includes Outlier of 7.6 mg/kg for Measured Uranium Mass

U = .73044 + .09964 * CALC_U



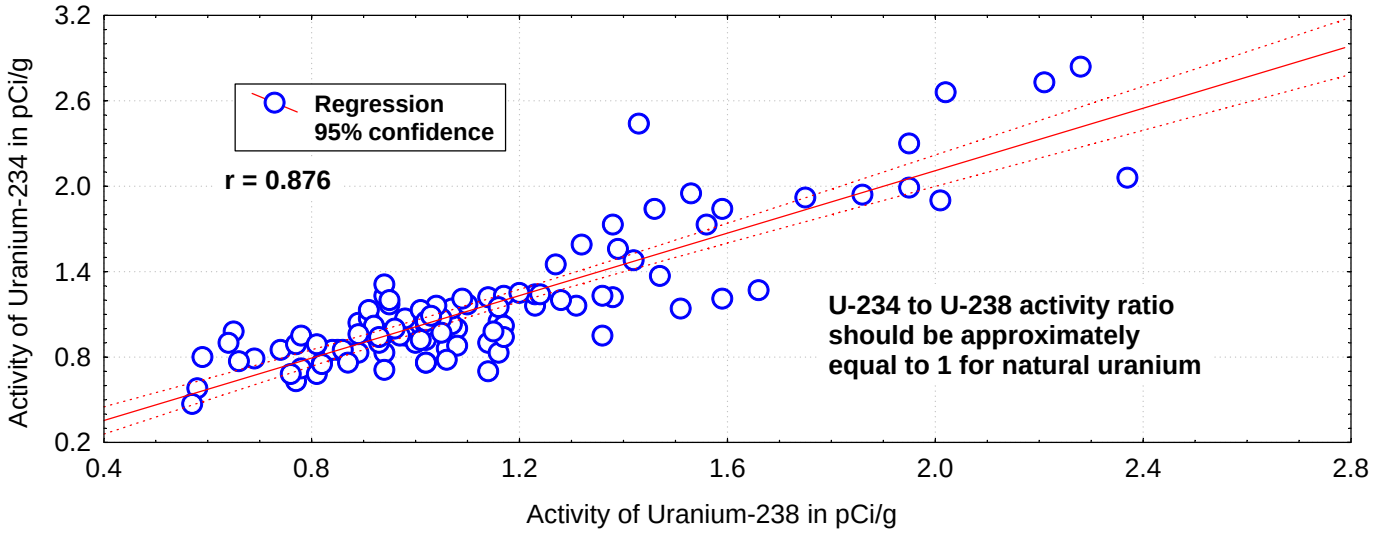
Calculated Mass versus Measured Mass for Uranium in BRCTIM Background Soil
Excluding Outlier of 7.6 mg/kg for Measured Uranium Mass

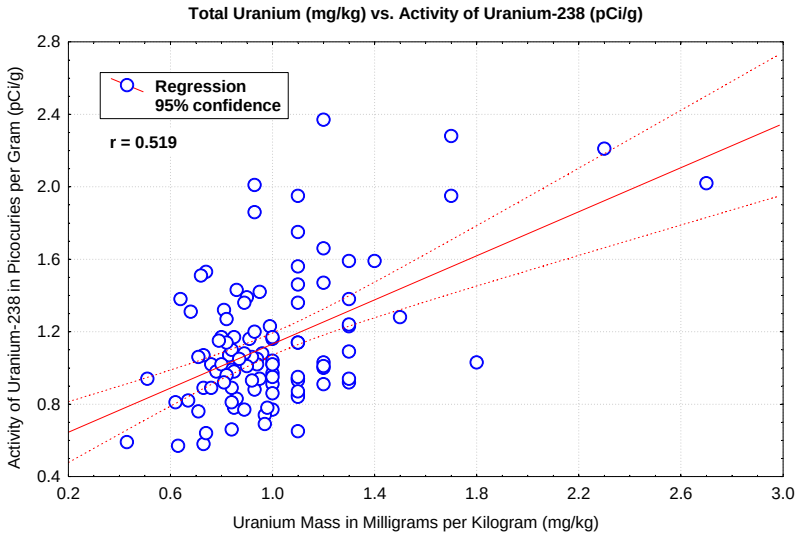
U = .50145 + .14900 * CALC_U

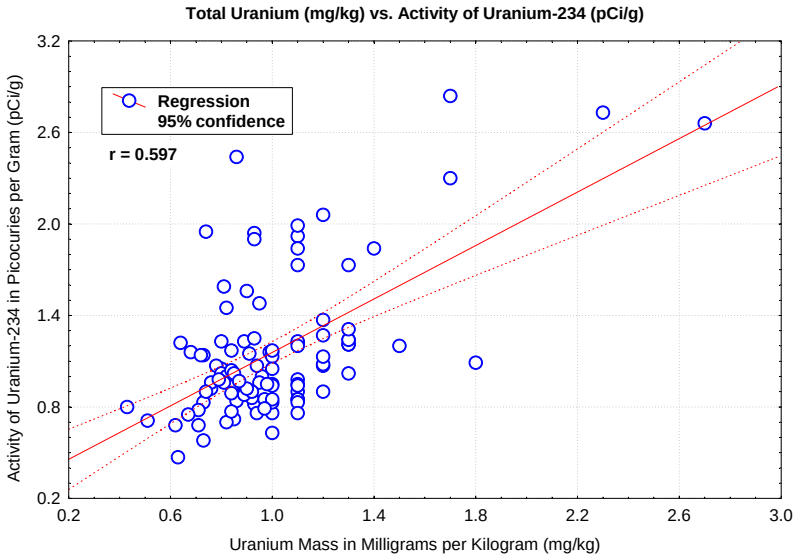


Activity of Uranium-234 versus Uranium-238 in BRC/TIMET Background Soil

U_234 = -.0840 + 1.0966 * U_238







APPENDIX F

STATISTICAL SUMMARY FOR ENVIRON DATA AND BRC/TIMET ENVIRON COMPARISONS

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All Environ Background Soil Samples (Table F-1)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in Environ Surface Soil Samples (Table F-2)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in Environ 5-Foot Background Soil Samples (Table F-3)

Comparison of Metal and Anion Concentrations in BRC/TIMET and Environ Background Soil (Figure F-1)

Comparison of Radionuclide Activities in BRC/TIMET and Environ Background Soil (Figure F-2)

Table F-1. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All Environ Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	16	100	--	--	--	--	--	--	6,820	8,940	10,300	10,100	11,700	12,700
	Antimony	16	0	0.0394	0.0394	0.0394	0.0394	0.0394	0.0394	--	--	--	--	--	--
	Arsenic	16	100	--	--	--	--	--	--	2.1	2.6	3.05	3.03	3.38	4.3
	Barium	16	100	--	--	--	--	--	--	198	225	333	323	393	561
	Beryllium	16	100	--	--	--	--	--	--	0.25	0.295	0.39	0.374	0.425	0.5
	Cadmium	16	100	--	--	--	--	--	--	0.052	0.0928	0.105	0.106	0.128	0.16
	Chromium	16	100	--	--	--	--	--	--	4.3	6.7	7.9	7.81	8.9	12.4
	Cobalt	16	100	--	--	--	--	--	--	3.9	4.13	5.95	5.67	6.95	7.8
	Copper	16	100	--	--	--	--	--	--	7.8	8.5	10.6	10.6	12.3	16.3
	Iron	16	100	--	--	--	--	--	--	7,520	9,310	12,400	11,700	14,300	15,000
	Lead	16	100	--	--	--	--	--	--	7	9.5	15	15.3	20.3	23.5
	Magnesium	16	100	--	--	--	--	--	--	4,630	5,140	7,280	6,920	8,560	9,090
	Manganese	16	100	--	--	--	--	--	--	223	377	439	437	517	546
	Mercury	16	100	--	--	--	--	--	--	0.013	0.0173	0.019	0.0198	0.0235	0.027
	Molybdenum	16	100	--	--	--	--	--	--	0.17	0.22	0.275	0.295	0.35	0.44
	Nickel	16	100	--	--	--	--	--	--	7.8	9.43	10.8	10.7	11.5	15.4
	Selenium	16	75	0.0467	0.0467	0.0467	0.0467	0.0467	0.0467	0.1	0.11	0.17	0.158	0.188	0.26
	Silver	16	100	--	--	--	--	--	--	0.019	0.0363	0.0445	0.0495	0.0683	0.083
	Thallium	16	100	--	--	--	--	--	--	0.1	0.13	0.155	0.183	0.203	0.4
	Thorium	16	100	--	--	--	--	--	--	4.6	5.08	5.65	5.88	6.68	7.7
	Titanium	16	100	--	--	--	--	--	--	235	296	363	359	423	473
	Vanadium	16	100	--	--	--	--	--	--	14.6	16.1	21.2	20.7	24.8	25.5
	Zinc	16	100	--	--	--	--	--	--	23	29.3	42.9	39.8	49.4	52.4
Radionuclides (pCi/g)	Actinium-228	16	100	--	--	--	--	--	--	1.11	1.36	1.54	1.59	1.86	2.05
	Bismuth 212	16	25	0.31	0.75	0.885	0.89	1.01	1.3	1.27	1.29	1.4	1.45	1.65	1.72
	Bismuth-214	16	100	--	--	--	--	--	--	0.57	0.728	0.865	0.871	1.01	1.22
	Lead-210	16	6	0.7	1.1	1.5	1.47	1.8	2.2	1.9	--	1.9	1.9	--	1.9
	Lead-212	16	100	--	--	--	--	--	--	0.94	1.09	1.27	1.25	1.42	1.47
	Lead-214	16	100	--	--	--	--	--	--	0.62	0.73	0.85	0.844	0.933	1.23
	Potassium-40	16	100	--	--	--	--	--	--	23.6	26.3	28.5	28.4	29.9	34.4
	Thallium-208	16	100	--	--	--	--	--	--	0.33	0.43	0.495	0.481	0.538	0.59
	Thorium-228	16	100	--	--	--	--	--	--	1.07	1.29	1.51	1.55	1.77	2.14
	Thorium-230	16	100	--	--	--	--	--	--	0.88	0.985	1.1	1.12	1.23	1.38
	Thorium-232	16	100	--	--	--	--	--	--	1.1	1.33	1.51	1.5	1.66	1.93
	Thorium-234	16	6	-0.15	0.04	0.51	0.44	0.71	1.23	1.49	--	1.49	1.49	--	1.49
	Uranium 233/234	16	100	--	--	--	--	--	--	0.53	0.655	0.775	0.773	0.89	1.11
	Uranium 235	16	56	0.016	0.023	0.036	0.036	0.049	0.051	0.055	0.0625	0.091	0.0842	0.103	0.116
	Uranium-238	16	100	--	--	--	--	--	--	0.45	0.633	0.78	0.755	0.868	1.07

Notes:

bgs	Below Ground Surface	pCi/g	Picocurie per gram
mg/kg	Milligram per kilogram	Q1	1st quartile (25th percentile)
Max	Maximum concentration	Q3	3rd quartile (75th percentile)
Min	Minimum concentration		

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.
Boron, calcium, chloride, chromium hexavalent, fluoride, lithium, niobium, nitrate, nitrite, palladium, platinum, potassium, silicon, sodium, strontium, sulfate, tin, tungsten, uranium, zirconium, actinium-227, bismith-210, bismith-211, cobalt-57, cobalt-60, lead-211, polonium-210, polonium-212, polonium-214, polonium-215, polonium-216, polonium-218, proactinium-234, radium-223, radium-224, radium-226, radium-228, thallium-207, thorium-227, and thorium-231 were not analyzed for on the Environ background soil samples

Table F-2. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in Environ 0 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	8	100	--	--	--	--	--	--	7,650	8,940	10,300	10,300	11,900	12,700
	Antimony	8	0	0.0394	0.0394	0.0394	0.0394	0.0394	0.0394	--	--	--	--	--	--
	Arsenic	8	100	--	--	--	--	--	--	2.1	2.73	3.25	3.15	3.45	4.3
	Barium	8	100	--	--	--	--	--	--	200	233	304	307	383	426
	Beryllium	8	100	--	--	--	--	--	--	0.28	0.303	0.39	0.378	0.425	0.49
	Cadmium	8	100	--	--	--	--	--	--	0.092	0.102	0.11	0.119	0.138	0.16
	Chromium	8	100	--	--	--	--	--	--	7.2	7.85	8.45	8.98	10.1	12.4
	Cobalt	8	100	--	--	--	--	--	--	4.1	4.3	6	5.75	6.95	7.3
	Copper	8	100	--	--	--	--	--	--	8.1	9.08	11.6	11.4	12.4	16.3
	Iron	8	100	--	--	--	--	--	--	8,960	9,630	12,700	12,300	14,500	15,000
	Lead	8	100	--	--	--	--	--	--	14.6	15.5	18.4	18.7	22.7	23.5
	Magnesium	8	100	--	--	--	--	--	--	4,880	5,870	7,480	7,230	8,540	8,880
	Manganese	8	100	--	--	--	--	--	--	373	395	439	446	493	545
	Mercury	8	100	--	--	--	--	--	--	0.019	0.0195	0.0215	0.0223	0.0248	0.027
	Molybdenum	8	100	--	--	--	--	--	--	0.27	0.278	0.335	0.338	0.403	0.42
	Nickel	8	100	--	--	--	--	--	--	8.4	10.2	10.9	11.2	12	15.4
	Selenium	8	75	0.0467	--	0.0467	0.0467	--	0.0467	0.11	0.125	0.17	0.158	0.183	0.19
	Silver	8	100	--	--	--	--	--	--	0.036	0.0363	0.05	0.0526	0.0683	0.083
	Thallium	8	100	--	--	--	--	--	--	0.13	0.13	0.16	0.189	0.27	0.32
	Thorium	8	100	--	--	--	--	--	--	5	5.08	6.1	5.95	6.68	7
	Titanium	8	100	--	--	--	--	--	--	285	296	407	379	440	473
	Vanadium	8	100	--	--	--	--	--	--	15.7	16.3	21.2	20.7	24.6	24.8
	Zinc	8	100	--	--	--	--	--	--	29.1	32.9	44.2	42.5	50.9	52.4
Radionuclides (pCi/g)	Actinium-228	8	100	--	--	--	--	--	--	1.36	1.36	1.65	1.64	1.86	2.05
	Bismuth 212	8	38	0.75	0.785	0.82	0.922	1.11	1.24	1.27	1.27	1.34	1.35	1.45	1.45
	Bismuth-214	8	100	--	--	--	--	--	--	0.64	0.69	0.84	0.829	0.953	1.02
	Lead-210	8	0	0.9	1.13	1.55	1.5	1.78	2.2	--	--	--	--	--	--
	Lead-212	8	100	--	--	--	--	--	--	0.94	1.13	1.28	1.26	1.41	1.47
	Lead-214	8	100	--	--	--	--	--	--	0.68	0.79	0.825	0.839	0.92	1
	Potassium-40	8	100	--	--	--	--	--	--	24.9	26.6	29.2	29.1	30.8	34.4
	Thallium-208	8	100	--	--	--	--	--	--	0.43	0.443	0.495	0.495	0.528	0.58
	Thorium-228	8	100	--	--	--	--	--	--	1.27	1.29	1.47	1.55	1.84	2.14
	Thorium-230	8	100	--	--	--	--	--	--	0.88	0.96	1.14	1.12	1.23	1.35
	Thorium-232	8	100	--	--	--	--	--	--	1.13	1.28	1.48	1.47	1.64	1.79
	Thorium-234	8	13	-0.11	0.23	0.51	0.406	0.56	0.71	1.49	--	1.49	1.49	--	1.49
	Uranium 233/234	8	100	--	--	--	--	--	--	0.53	0.598	0.74	0.789	1.01	1.11
	Uranium 235	8	50	0.028	0.03	0.0425	0.0405	0.049	0.049	0.064	0.0723	0.0995	0.0915	0.103	0.103
	Uranium-238	8	100	--	--	--	--	--	--	0.45	0.668	0.83	0.775	0.89	0.92

Notes:

bgs	Below Ground Surface	pCi/g	Picocurie per gram
mg/kg	Milligram per kilogram	Q1	1st quartile (25th percentile)
Max	Maximum concentration	Q3	3rd quartile (75th percentile)
Min	Minimum concentration		

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.
Boron, calcium, chloride, chromium hexavalent, fluoride, lithium, niobium, nitrate, nitrite, palladium, platinum, potassium, silicon, sodium, strontium, sulfate, tin, tungsten, uranium, zirconium, actinium-227, bismith-210, bismith-211, cobalt-57, cobalt-60, lead-211, polonium-210, polonium-212, polonium-214, polonium-215, polonium-216, polonium-218, proactinium-234, radium-223, radium-224, radium-226, radium-228, thallium-207, thorium-227, and thorium-231 were not analyzed for on the Environ 0 foot background soil samples

Table F-3. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in Environ 5 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	8	100	--	--	--	--	--	--	6,820	7,590	10,300	9,860	11,500	12,300
	Antimony	8	0	0.0394	0.0394	0.0394	0.0394	0.0394	0.0394	--	--	--	--	--	--
	Arsenic	8	100	--	--	--	--	--	--	2.3	2.45	2.75	2.91	3.38	3.8
	Barium	8	100	--	--	--	--	--	--	198	215	333	340	447	561
	Beryllium	8	100	--	--	--	--	--	--	0.25	0.295	0.385	0.371	0.438	0.5
	Cadmium	8	100	--	--	--	--	--	--	0.052	0.0678	0.096	0.0931	0.115	0.14
	Chromium	8	100	--	--	--	--	--	--	4.3	5.1	6.8	6.64	7.8	9.6
	Cobalt	8	100	--	--	--	--	--	--	3.9	3.95	5.5	5.59	7.15	7.8
	Copper	8	100	--	--	--	--	--	--	7.8	8.18	9.5	9.9	11.8	12.4
	Iron	8	100	--	--	--	--	--	--	7,520	8,100	11,500	11,200	13,800	14,500
	Lead	8	100	--	--	--	--	--	--	7	8.78	9.6	11.8	13.6	23.3
	Magnesium	8	100	--	--	--	--	--	--	4,630	4,780	6,330	6,600	8,560	9,090
	Manganese	8	100	--	--	--	--	--	--	223	350	450	428	526	546
	Mercury	8	100	--	--	--	--	--	--	0.013	0.0143	0.0175	0.0174	0.019	0.024
	Molybdenum	8	100	--	--	--	--	--	--	0.17	0.213	0.22	0.253	0.275	0.44
	Nickel	8	100	--	--	--	--	--	--	7.8	8.83	10.6	10.2	11.5	11.9
	Selenium	8	75	0.0467	--	0.0467	0.0467	--	0.0467	0.1	0.1	0.145	0.157	0.208	0.26
	Silver	8	100	--	--	--	--	--	--	0.019	0.0278	0.044	0.0464	0.069	0.077
	Thallium	8	100	--	--	--	--	--	--	0.1	0.123	0.15	0.178	0.198	0.4
	Thorium	8	100	--	--	--	--	--	--	4.6	5	5.45	5.81	6.93	7.7
	Titanium	8	100	--	--	--	--	--	--	235	265	330	339	413	446
	Vanadium	8	100	--	--	--	--	--	--	14.6	15.5	21.1	20.6	25.4	25.5
	Zinc	8	100	--	--	--	--	--	--	23	26.1	37.5	37	47.1	52.4
Radionuclides (pCi/g)	Actinium-228	8	100	--	--	--	--	--	--	1.11	1.24	1.54	1.55	1.87	1.99
	Bismuth 212	8	13	0.31	0.75	0.95	0.867	1.02	1.3	1.72	--	1.72	1.72	--	1.72
	Bismuth-214	8	100	--	--	--	--	--	--	0.57	0.758	0.905	0.914	1.12	1.22
	Lead-210	8	13	0.7	0.72	1.42	1.43	1.9	2.2	1.9	--	1.9	1.9	--	1.9
	Lead-212	8	100	--	--	--	--	--	--	1	1.06	1.25	1.24	1.43	1.44
	Lead-214	8	100	--	--	--	--	--	--	0.62	0.673	0.86	0.849	0.933	1.23
	Potassium-40	8	100	--	--	--	--	--	--	23.6	26.2	27.6	27.8	29.9	31.3
	Thallium-208	8	100	--	--	--	--	--	--	0.33	0.345	0.495	0.466	0.57	0.59
	Thorium-228	8	100	--	--	--	--	--	--	1.07	1.3	1.6	1.55	1.77	1.9
	Thorium-230	8	100	--	--	--	--	--	--	0.9	0.985	1.09	1.13	1.32	1.38
	Thorium-232	8	100	--	--	--	--	--	--	1.1	1.34	1.54	1.54	1.76	1.93
	Thorium-234	8	0	-0.15	0.0085	0.505	0.47	0.868	1.23	--	--	--	--	--	--
	Uranium 233/234	8	100	--	--	--	--	--	--	0.53	0.68	0.795	0.756	0.825	0.91
	Uranium 235	8	63	0.016	0.016	0.023	0.03	0.051	0.051	0.055	0.058	0.069	0.0784	0.104	0.116
	Uranium-238	8	100	--	--	--	--	--	--	0.45	0.603	0.74	0.735	0.848	1.07

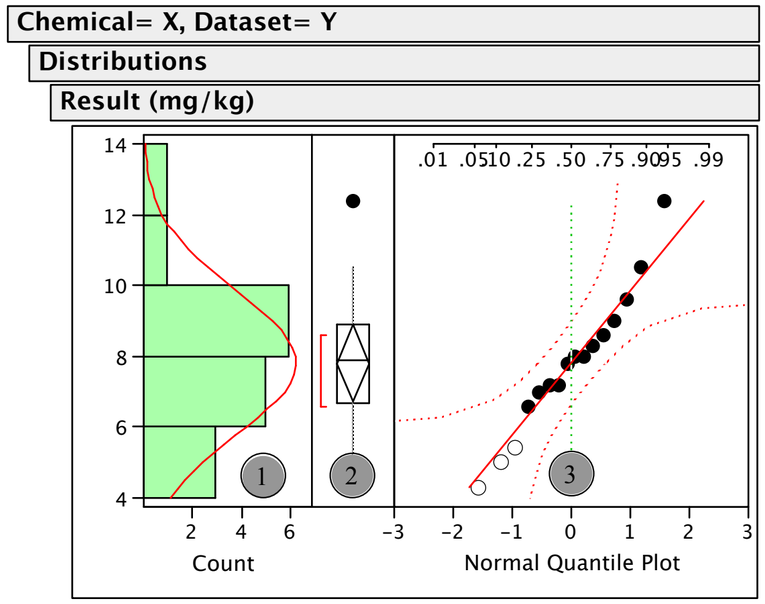
Notes:

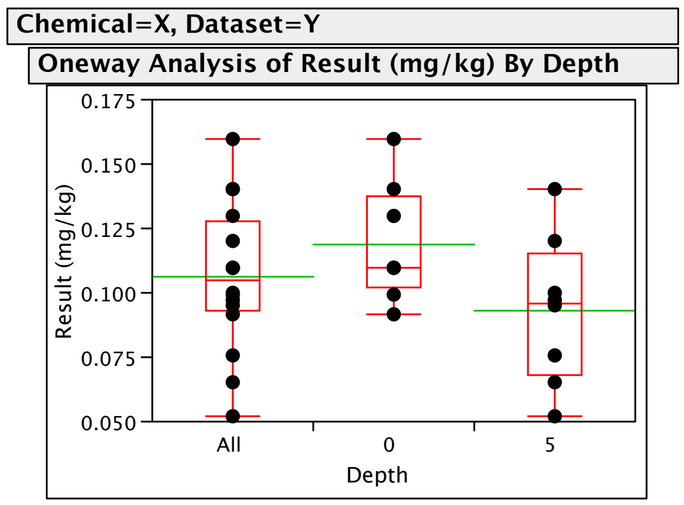
bgs	Below Ground Surface	pCi/g	Picocurie per gram
mg/kg	Milligram per kilogram	Q1	1st quartile (25th percentile)
Max	Maximum concentration	Q3	3rd quartile (75th percentile)
Min	Minimum concentration		

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.
Boron, calcium, chloride, chromium hexavalent, fluoride, lithium, niobium, nitrate, nitrite, palladium, platinum, potassium, silicon, sodium, strontium, sulfate, tin, tungsten, uranium, zirconium, actinium-227, bismith-210, bismith-211, cobalt-57, cobalt-60, lead-211, polonium-210, polonium-212, polonium-214, polonium-215, polonium-216, polonium-218, proactinium-234, radium-223, radium-224, radium-226, radium-228, thallium-207, thorium-227, and thorium-231 were not analyzed for on the Environ 5 foot background soil samples

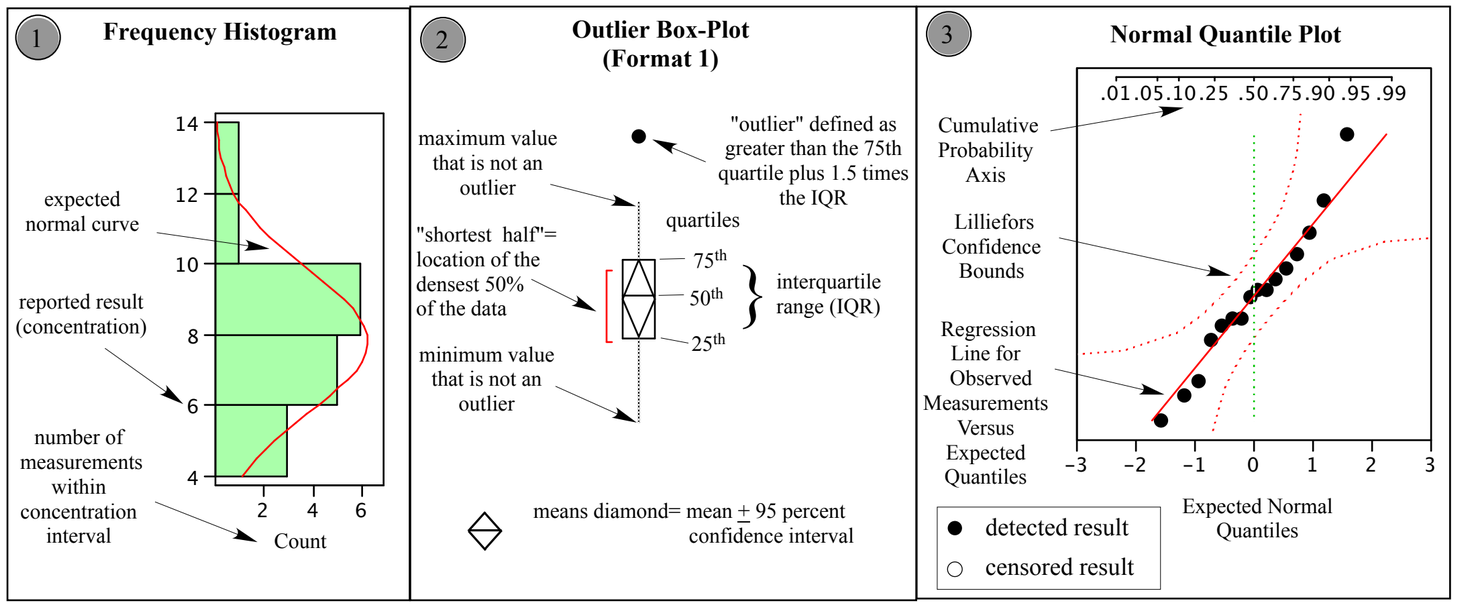
KEYS FOR INTERPRETING FIGURES

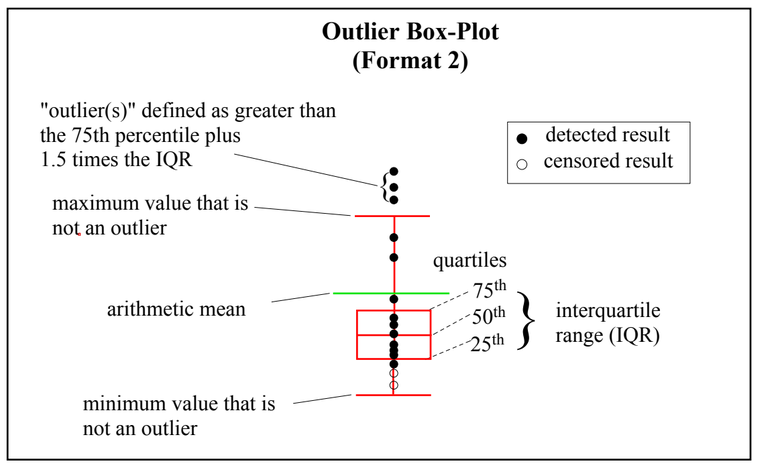
Example Figures From Appendix

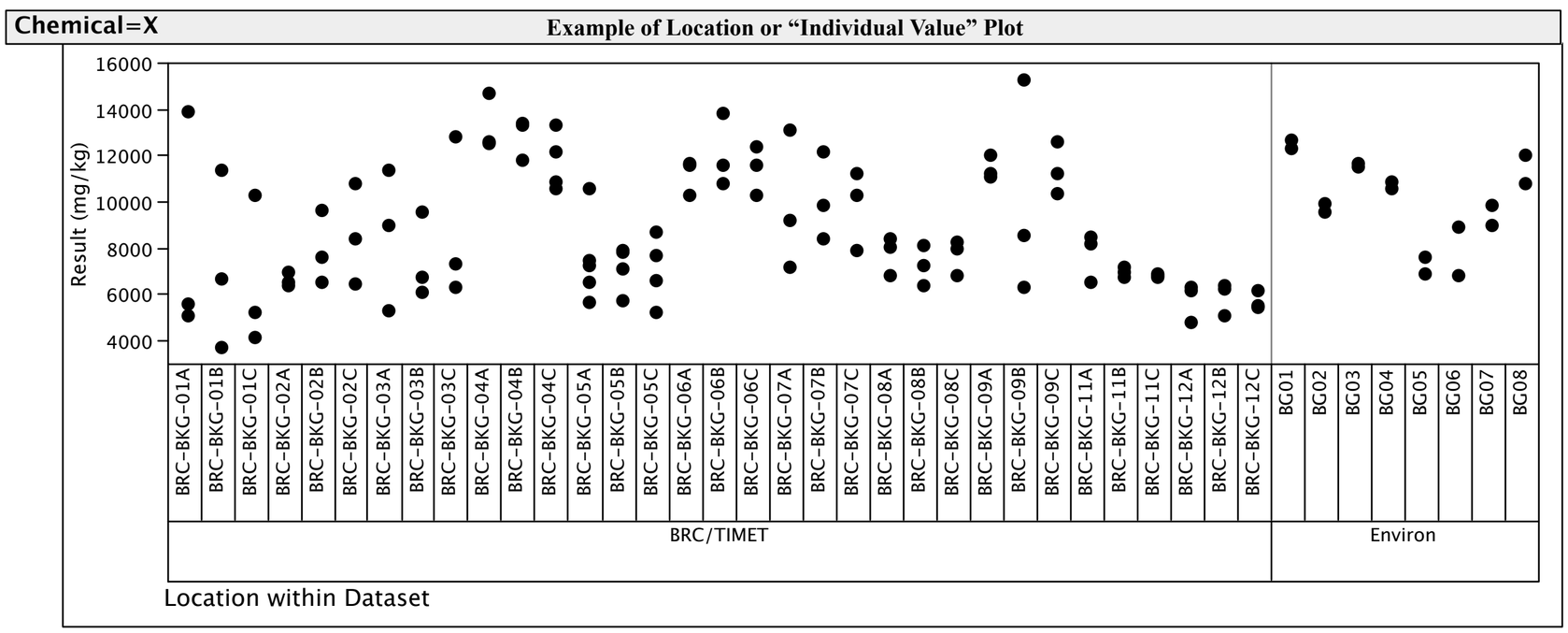




Keys to Individual Figure Panels







Results are Plottted for Individual Locations and Grouped by Dataset

TABLE 1
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BCG-03A 3-7 [a]	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BCG-06C 8-12 [a]	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BCG-09C 0-0.5 [a]	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01A 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01B 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01B 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01B 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01C 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01C 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-01C 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02A 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02B 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02B 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02B 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02C 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02C 4-6	06/16/05	F5F180132	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-02C 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03A 3-7	06/16/05	F5F180132	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03B 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03B 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BKG-03B 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03C 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03C 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-03C 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04A 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04A 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04A 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04B 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04B 4-6	06/14/05	F5F160308	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04B 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C1 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-04C 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05A 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05A 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05AR 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05AR 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05AR 9-11	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05B 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05BR 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05BR 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05BR 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05C 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05CR 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05CR 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-05CR 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06A 0-0.5	06/15/05	F5F170373	Soil	Full	X	X	X	X	X	X	X	X	X	--

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BKG-06A 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06A 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06B 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06B 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06B 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06C 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06C 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-06C 8-12	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07A 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07A 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07A 9-11	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07B 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07B 4-6	06/15/05	F5F170373	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07B 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07C 0-0.5	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07C 4-6	06/16/05	F5F180132	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-07C 9-11	06/16/05	F5F180132	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08A-0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08A 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08A 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08B 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08B 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08B 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08C 0-0.5	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08C 4-6	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-08C 9-11	06/15/05	F5F170373	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09A 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-A 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Sample ID	Date Sampled	SDG ID	Matrix	Validation	Analysis Conducted									
					Isotopic U & Th	Gamma Spec	Ra 226 and 228	Total Metals	Cr VI	Anion	pH	Percent Moisture	CEC	Gross α & β
BRC-BKG-09-A 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-B 0-0.5	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-B 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-B 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-C 0-0.5	06/14/05	F5F160308	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-C 4-6	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-09-C 9-11	06/14/05	F5F160308	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11A 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11A 4-6	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11A 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11B 0-0.5	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11B 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11B 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11C 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11C 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-11C 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12A 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12A 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12A 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12B 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12B 4-6	06/17/05	F5F210233	Soil	Full	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12B 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12C 0-0.5	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12C 4-6	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
BRC-BKG-12C 9-11	06/17/05	F5F210233	Soil	Partial	X	X	X	X	X	X	X	X	X	--
RINSATE BLANK	06/16/05	F5F170373	Water	Partial	X	X	X	X	X	--	--	--	--	X
RINSATE BLANK	06/16/05	F5F180132	Water	Partial	X	X	X	X	X	--	--	--	--	--
RINSATE BLANK-RB	06/17/05	F5F210233	Water	Partial	X	X	X	X	X	--	--	--	--	X

TABLE 1 (CONTINUED)
SUMMARY OF BACKGROUND SOIL SAMPLE ANALYSIS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

α & β	Alpha and beta
CEC	Cation exchange capacity
Cr VI	Hexavalent chromium
Ra	Radium
SDG	Sample delivery group
Spec	Spectroscopy
Th	Thorium
U	Uranium

[a] Three sample represent the field split samples used for quality control purposes.

TABLE 2
DATA VALIDATION CRITERIA
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Inorganics Validation Criteria [1]	**Full**	**Partial**
Holding times	X	X
Calibration (initial and continuing)	X	--
Blanks (laboratory and field)	X	X
ICP interference check sample	X	--
Laboratory control sample	X	X
Duplicate sample analysis	X	X
Matrix spike analysis	X	X
ICP serial dilution	X	X
Tracer yield (radionuclide analysis only)	X	X
Sample results verification	X	--
Field duplicate	X	X
Overall assessment of data set	X	X

Notes:

-- Not included
ICP Inductively coupled plasma

1 Inorganics include metals, anions, and radionuclides.

TABLE 3
DATA VALIDATION QUALIFIERS AND COMMENT CODES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Validation Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
UJ	The analyte was analyzed for, but was not detected. The reported sample quantitation limit is approximate and may be inaccurate or imprecise.
J	The result is an estimated quantity. The associated numerical value is an approximate concentration of the analyte in the sample.
R	The sample result is rejected and unusable due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.
X	Result is not used for reporting because a more accurate and precise results is reported in its place.
+	Estimated results are possibly biased high based on associated quality control
–	Estimated results are possibly biased low based on associated quality control
Comment Code	**Definition**
a	Surrogate recovery exceeded
b	Laboratory method blank and common blank contamination
c	Calibration criteria exceeded
d	Duplicate precision criteria exceeded
e	Matrix spike or laboratory control sample recovery exceeded
f	Field blank contamination
g	Quantification below practical quantitation limit for stable chemistries
h	Holding time exceeded
i	Internal standard criteria exceeded
j	Other stable chemistry qualification (for example, serial dilution exceedances)
k	Radiochemistry quantitation issue (for example, result less than the required reporting limit)
l	Duplicate result from a less sensitive analytical method (for example, alpha spectroscopy versus gamma spectroscopy)
m	Duplicate result from a less sensitive analytical run (for example worse surrogate recoveries or dilution analysis)
n	Radiochemistry tracer yield criteria exceeded
o	Other radiochemistry qualification (for example, biases due to interference from other radioisotopes)

TABLE 4
HOLDING TIMES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Parameter	Aqueous Matrix	Soil/Sediment Matrix
Total metals (except mercury)	180 days	180 days
Total mercury	28 days	28 days
Hexavalent chromium	24 hours	30 days
Bicarbonate alkalinity	14 days	14 days
Anions (fluoride, chloride, nitrate, nitrite, and sulfate)	28 days; 48 hours for nitrate and nitrite only	28 days for all; 72 hours for nitrate and nitrite [1]
pH	48 hours	72 hours [2]
Radionuclides	180 days	180 days
Cation exchange capacity (calculated)	Not applicable	Not applicable

Notes:

[1] No definite holding time has been established for anions in soil. The laboratory established a 30-day holding time for nitrate and nitrite analyses in soil samples. However, a more conservative holding time of 72 hours was used for validation of nitrate and nitrite soil data based on the professional judgment of the reviewer.

[2] No definite holding time has been established for pH in soil. The laboratory established a 14-day holding time for pH analysis in soil samples. However, a more conservative holding time of 72 hours was used for validation of pH soil data based on the professional judgment of the reviewer.

TABLE 5
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Nitrate	0.1	0.35		J	h	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	pH (solid)		9.1		J	h	none
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Nitrate	0.11	0.62		J	h	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	pH (solid)		8.6		J	h	none
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Nitrate	0.1	0.22		J	h	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Nitrate	0.11	0.71		J	h	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Nitrate	0.1	1		J	h	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	pH (solid)		8.1		J	h	none
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	pH (solid)		8.7		R	h	none
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Nitrate	0.11	3.4		J	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Nitrate	0.1	3.3		J	h	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Nitrate	0.11	0.93		J	h	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Nitrite	0.066	ND	U	UJ	h	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	pH (solid)		8.7		J	h	none
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Nitrate	0.1	1.3		J	h	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Nitrate	0.1	2.6		J	h	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nitrate	0.1	9.3		J	h	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	pH (solid)		8.2		J	h	none
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Nitrate	1	58.6		J	h	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	pH (solid)		8.4		J	h	none
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Nitrate	1	20.8		J	h	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	pH (solid)		8.5		J	h	none
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Nitrate	1	54.9		J	h	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	pH (solid)		8.2		J	h	none
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Nitrate	0.1	10.4		J	h	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	pH (solid)		8.6		J	h	none
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	pH (solid)		8.9		J	h	none
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	pH (solid)		9		J	h	none
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Nitrate	0.11	1.8		J	h	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	pH (solid)		8.8		J	h	none
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Nitrate	0.1	3.2		J	h	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	pH (solid)		8.9		J	h	none
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Nitrate	0.1	0.41		J	h	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Nitrite	0.062	0.16	B	J	h, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Nitrate	0.1	6.7		J	h	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	pH (solid)		8.9		J	h	none
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Nitrate	0.1	3.8		J	h	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	pH (solid)		8.3		J	h	none
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Nitrate	0.1	2.8		J	h	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Nitrate	1	53.4		J	h	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	pH (solid)		8.1		J	h	none

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Nitrate	5.2	34		J	h	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Nitrate	0.1	6.2		J	h	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	pH (solid)		8.8		J	h	none
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Nitrate	0.1	0.47		J	h	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	pH (solid)		9		J	h	none
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Nitrate	0.1	4.7		J	h	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	pH (solid)		8		J	h	none
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Nitrate	0.1	1.5		J	h	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Nitrate	0.1	0.31		J	h	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Nitrate	5.1	102		J	h	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	pH (solid)		8.2		J	h	none
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Nitrate	1	42.1		J	h	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	pH (solid)		8.4		J	h	none
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Nitrate	0.1	0.19	B	J	h, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Nitrate	1	75.8		J	h	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	pH (solid)		8.2		J	h	none
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Nitrate	1	34.5		J	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	pH (solid)		8.3		J	h	none
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Nitrate	0.1	0.37		J	h	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Nitrate	1	14.6		J	h	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Nitrate	0.1	2.1		J	h	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	pH (solid)		8.3		J	h	none
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nitrate	0.1	0.25		J	h	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Nitrate	1	26.1		J	h	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Nitrate	1	26.3		J	h	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	pH (solid)		8.5		J	h	none
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Nitrate	5.1	14.9		J	h	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	pH (solid)		8.6		J	h	none
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Nitrite	0.061	0.21		J	h	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Nitrate	0.11	0.66		J	h	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Nitrate	0.1	2.9		J	h	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	pH (solid)		8		J	h	none
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Nitrate	5.2	86.2		J	h	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	pH (solid)		8.1		J	h	none
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Nitrate	5.2	28.1		J	h	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	pH (solid)		8		J	h	none
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nitrate	0.1	0.13	B	J	h, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	pH (solid)		9		J	h	none
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nitrate	0.1	0.11	B	J	h, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	pH (solid)		8.2		J	h	none
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nitrate	0.1	0.18	B	J	h, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Nitrate	0.11	1.6		J	h	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Nitrate	0.11	0.67		J	h	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	pH (solid)		8.2		J	h	none
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Nitrate	0.1	0.58		J	h	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	pH (solid)		8		J	h	none

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Nitrate	0.1	0.63		J	h	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Nitrate	0.1	0.87		J	h	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	pH (solid)		8		J	h	none
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Nitrate	0.1	0.51		J	h	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Nitrate	0.1	1		J	h	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	pH (solid)		8.8		J	h	none
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nitrate	0.1	0.2	B	J	h, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	pH (solid)		8.5		J	h	none
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Nitrate	0.1	0.59		J	h	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	pH (solid)		9		J	h	none
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Nitrate	0.1	0.61		J	h	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Nitrite	0.063		U	UJ	h	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	pH (solid)		8.3		J	h	none
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Nitrate	0.1	ND	U	UJ	h	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	pH (solid)		8.7		J	h	none
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Nitrate	0.13	0.87		J	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Nitrite	0.077	ND	U	UJ	h	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	pH (solid)		8.9		J	h	none
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Nitrate	0.11	0.9		J	h	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Nitrate	0.1	0.51		J	h	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Nitrate	0.11	0.65		J	h	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	pH (solid)		8.9		J	h	none
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Nitrate	0.1	1.5		J	h	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Nitrate	0.1	0.25		J	h	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Nitrate	0.11	0.96		J	h	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	pH (solid)		8.7		J	h	none
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Nitrate	0.1	1		J	h	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	pH (solid)		8.4		J	h	none
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Nitrate	0.1	0.57		J	h	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Nitrite	0.061	ND	U	UJ	h	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	pH (solid)		8.8		J	h	none
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Nitrate	0.11	2.4		J	h	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Nitrite	0.065	ND	U	UJ	h	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	pH (solid)		8.3		J	h	none
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Nitrate	0.1	0.64		J	h	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Nitrite	0.063	ND	U	UJ	h	mg/kg

TABLE 5 (CONTINUED)
QUALIFICATIONS BASED ON HOLDING TIME EXCEEDANCES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	pH (solid)		8.2		J	h	none
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Nitrate	0.1	0.45		J	h	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Nitrite	0.062	ND	U	UJ	h	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	pH (solid)		8.9		J	h	none
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Nitrate	0.11	0.69		J	h	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	pH (solid)		8.6		J	h	none
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Nitrate	0.1	0.49		J	h	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Nitrite	0.064	ND	U	UJ	h	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	pH (solid)		8.2		J	h	none

Notes:

B Analyte was detected at a concentration less than the PQL
mg/kg Milligram per kilogram
g Comment code for concentrations greater than the SQL, but less than the PQL
h Comment code for holding time exceedance
J Estimated value
ND Not detected
PQL Practical quantitation limit
R Sample result was rejected due to quality control issues
RL Reporting limit
SDG Sample delivery group
SQL Sample quantitation limit
U Undetected
UJ Undetected at an estimated quantitation limit

1 The RL in this table refers to the PQL for anions and pH.
2 "ND" indicates that the analyte was not detected above the associated SQL.

TABLE 6
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Boron	3.2	4.5	B	U	b	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Fluoride	0.053	0.89	B J	U	b	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Radium 228	0.69	1.35	J	U	k, b	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium 233/234	0.08	0.76	J	U	b	pci/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Boron	3.2	5	B	U	b	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Fluoride	0.054	1.5	J	U	b	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 228	0.687	1.91	J	U	k, b	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Thorium 231	0.081	0.087	J	U	b	pci/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Uranium 233/234	0.1	0.85	J	U	b	pci/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Chloride	0.25	0.38	B	U	b	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Radium 228	0.588	1.46	J	U	k, b	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Sulfate	0.62	1.6	B J	U	b	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Thorium 231	0.04	0.059	J	U	b	pci/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Tungsten	0.0175	2.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium 233/234	0.07	0.89	J	U	b	pci/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Fluoride	0.053	0.76	B J	U	b	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 228	0.648	1.59	J	U	k, b	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Thorium 231	0.038	0.043	J	U	b	pci/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Uranium 233/234	0.08	0.9	J	U	b	pci/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Sulfate	0.62	1.6	B J	U	b	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Thorium 231	0.041	0.061	J	U	b	pci/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Uranium 233/234	0.06	0.85	J	U	b	pci/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Chloride	0.26	1.8	B	U	b	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Fluoride	0.054	1	B J	U	b	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 228	0.597	1.47	J	U	k, b	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Uranium 233/234	0.11	0.76	J	U	b	pci/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Chloride	0.26	1.6	B	U	b	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Fluoride	0.053	1.6	J	U	b	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Radium 228	0.446	0.946	J	U	k, b	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Thorium 231	0.096	0.101	J	U	b	pci/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Uranium 233/234	0.1	0.86	J	U	b	pci/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Boron	3.2	4.8	B	U	b	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Radium 228	0.487	1.11	J	U	k, b	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thallium	0.5428	0.75	B	U	b	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thorium 231	0.063	0.101	J	U	b	pci/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Uranium 233/234	0.08	0.97	J	U	b	pci/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Boron	3.2	5.6		J+	b	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Chloride	0.25	0.74	B	U	b	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Radium 228	0.495	1.82	J	U	k, b	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Thallium	0.5428	0.5	B	U	b	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Uranium 233/234	0.12	0.68	J	U	b	pci/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Fluoride	0.054	2.5	J	J+	b	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Niobium	1.015		N U	UJ-	b, e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Uranium 233/234	0.09	1.07		U	b	pci/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Chloride	0.25	1.1	B	U	b	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 228	0.463	1.78	J	U	k, b	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Sulfate	0.62	3.3	B	U	b	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Uranium 233/234	0.16	0.76	J	U	b	pci/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Chloride	0.25	1.1	B	U	b	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Sulfate	0.62	3	B	U	b	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Thallium	0.5428	1	B	U	b	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Tungsten	0.0175	0.86	BE	UJ	b, j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Uranium 233/234	0.1	0.9	J	U	b	pci/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Boron	3.2	3.6	B	U	b	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Chloride	0.27	1.8	B	U	b	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Fluoride	0.055	2.1		U	b	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Radium 228	0.537	1.5	J	U	k, b	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Thorium 231	0.045	0.083	J	U	b	pci/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Uranium 233/234	0.08	0.83	J	U	b	pci/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Chloride	0.25	0.51	B	U	b	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Radium 228	0.443	1.86	J	U	k, b	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Sulfate	0.62	2.8	B	U	b	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Thorium 231	0.042	0.124	J	U	b	pci/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Uranium 233/234	0.08	0.88	J	U	b	pci/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Chloride	0.25	1.8	B	U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Sulfate	0.62	4.4	B	U	b	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Thorium 231	0.048	0.054	J	U	b	pci/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Uranium 233/234	0.07	1.16		U	b	pci/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Boron	3.2	8.8		J+	b	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Uranium 233/234	0.15	0.98	J	U	b	pci/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Boron	3.2	5.8		J+	b	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Fluoride	0.053	0.58	B	U	b	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Thallium	0.5428	0.98	B	U	b	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Thorium 231	0.1	0.12	J	U	b	pci/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Uranium 233/234	0.11	0.92	J	U	b	pci/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Boron	3.2	5.5		J+	b	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Fluoride	0.053	0.93	B	U	b	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Thorium 231	0.077	0.087	J	U	b	pci/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Uranium 233/234	0.1	0.95	J	U	b	pci/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Boron	3.2	9.1		J+	b	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Fluoride	0.053	1.4		U	b	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Thallium	0.5428	0.71	B	U	b	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Tungsten	0.0175	0.84	BE	UJ	b, j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Uranium 233/234	0.11	0.94	J	U	b	pci/g
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Boron	3.2	3.9	B	U	b	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Fluoride	0.052	1		U	b	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Uranium 233/234	0.08	1.25		J+	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Chloride	0.25	1.6	B	U	b	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Thorium 231	0.036	0.054	J	U	b	pci/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium 233/234	0.06	0.79	J	U	b	pci/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Chloride	0.25	1.3	B	U	b	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Sulfate	0.62	4.8	B	U	b	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Uranium 233/234	0.05	0.95	J	U	b	pci/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Boron	3.2	6.8		J+	b	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Fluoride	0.054	1.2		U	b	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Thallium	0.5428	1.1	B	U	b	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Uranium 233/234	0.11	0.76	J	U	b	pci/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Boron	3.2	5.1	B	U	b	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Fluoride	0.053	1.6		U	b	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Boron	3.2	7.5		J+	b	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Thallium	0.5428	0.57	B	U	b	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Boron	3.2	9.1		J+	b	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Boron	3.2	6.2		J+	b	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Boron	3.2	8.3		J+	b	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Thallium	0.5428	0.6	B	U	b	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Boron	3.2	6.3		J+	b	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Boron	3.2	4.3	B	U	b	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Thallium	0.5428	0.36	B	U	b	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Boron	3.2	6.1		J+	b	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Boron	3.2	5.4		J+	b	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Tungsten	0.0175	0.88	BE	UJ	b, j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Boron	3.2	4	B	U	b	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Tungsten	0.0175	0.67	BE	UJ	b, j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Thallium	0.5428	0.22	B	U	b	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Thallium	0.5428	0.54	B	U	b	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Tungsten	0.0175	0.62	BE	UJ	b, j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Thallium	0.5428	0.47	B	U	b	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Boron	3.2	4.5	B	U	b	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Thallium	0.5428	0.43	B	U	b	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Thallium	0.5428	0.6	B	U	b	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Tungsten	0.0175	0.78	BE	UJ	b, j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Thallium	0.5428	0.51	B	U	b	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Boron	3.2	3.9	B	U	b	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Thallium	0.5428	0.4	B	U	b	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Thallium	0.5428	0.87	B	U	b	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Tungsten	0.0175	0.71	BE	UJ	b, j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Thallium	0.5428	0.48	B	U	b	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Tungsten	0.0175	0.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Thallium	0.5428	0.66	B	U	b	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Tungsten	0.0175	0.74	BE	UJ	b, j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Boron	3.2	5.8		J+	b	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Tungsten	0.0175	0.49	BE	UJ	b, j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Boron	3.2	4.6	B	U	b	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Thallium	0.5428	0.74	B	U	b	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Thallium	0.5428	0.76	B	U	b	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Boron	3.2	7.5		J+	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Chloride	0.25	1.6	B J	U	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Sulfate	0.62	3	B	U	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Thallium	0.5428	0.59	B	U	b	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Uranium 233/234	0.12	0.63	J	U	b	pci/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Fluoride	0.053	1.2		U	b	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Thallium	0.5428	0.32	B	U	b	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Thorium 231	0.05	0.12	J	U	b	pci/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Boron	3.2	7.1		J+	b	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Fluoride	0.052	0.72	B	U	b	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Thallium	0.5428	0.44	B	U	b	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Thorium 231	0.039	0.043	J	U	b	pci/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Boron	3.2	6		J+	b	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Fluoride	0.051	0.36	B	U	b	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Thallium	0.5428	0.6	B	U	b	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Thorium 231	0.037	0.042	J	U	b	pci/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium 233/234	0.05	0.72	J	U	b	pci/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Boron	3.2	5.9		J+	b	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Fluoride	0.052	0.6	B	U	b	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Thallium	0.5428	0.29	B	U	b	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Boron	3.2	11.6		J+	b	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Fluoride	0.052	0.61	B	U	b	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Thallium	0.5428	0.2	B	U	b	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Uranium 233/234	0.11	1.02		U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Boron	3.2	4.6	B	U	b	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Fluoride	0.053	0.55	B	U	b	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Thorium 231	0.068	0.093	J	U	b	pci/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Boron	3.2	3.7	B	U	b	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Fluoride	0.053	0.79	B	U	b	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Thallium	0.5428	0.39	B	U	b	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Thorium 231	0.038	0.126	J	J+	b	pci/g
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Boron	3.2	7.8		J+	b	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Fluoride	0.052	0.52	B	U	b	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Thallium	0.5428	0.74	B	U	b	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Uranium 233/234	0.03	1.02		U	b	pci/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Boron	3.2	4.8	B	U	b	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Fluoride	0.053	0.77	B	U	b	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Thorium 231	0.066	0.089	J	U	b	pci/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Boron	3.2	3.9	B	U	b	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Fluoride	0.053	0.75	B	U	b	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Thorium 231	0.03	0.21	J	J+	b	pci/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Boron	3.2	4.2	B	U	b	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Fluoride	0.052	0.36	B	U	b	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Thallium	0.5428	0.68	B	U	b	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Thorium 231	0.051	0.076	J	U	b	pci/g
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Tungsten	0.0175	0.77	BE	UJ	b, j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Uranium 233/234	0.09	1.22		J+	b	pci/g
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Thallium	0.5428	0.79	B	U	b	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Uranium 233/234	0.08	0.92	J	U	b	pci/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Boron	3.2	3.4	B	U	b	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Fluoride	0.052	0.32	B	U	b	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Thallium	0.5428	0.47	B	U	b	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Uranium 233/234	0.07	1.16		U	b	pci/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Boron	3.2	5.9		J+	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Chloride	0.25	1.5	B	U	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Fluoride	0.052	0.34	B	U	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Thallium	0.5428	0.2	B	U	b	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Uranium 233/234	0.12	1	J	U	b	pci/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Boron	3.2	4.1	B	U	b	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Thallium	0.5428	0.61	B	U	b	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Uranium 233/234	0.1	1.01		U	b	pci/g
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Boron	3.2	3.7	B	U	b	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Fluoride	0.052	0.76	B	U	b	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Uranium 233/234	0.09	1.03		U	b	pci/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Boron	3.2	5.7		J+	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Chloride	0.25	1.6	B	U	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Fluoride	0.052	0.32	B	U	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Thallium	0.5428	0.52	B	U	b	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Uranium 233/234	0.15	1.22		J+	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Boron	3.2	3.8	B	U	b	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Thallium	0.5428	0.56	B	U	b	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Uranium 233/234	0.15	1.14		U	b	pci/g
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Fluoride	0.052	0.4	B	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Niobium	1.015	2	BN	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Thallium	0.5428	0.38	B	U	b	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Uranium 233/234	0.13	1.17		U	b	pci/g
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Boron	3.2	6.1		J+	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Chloride	0.25	0.77	B	U	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Sulfate	0.62	2.2	B	U	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Thallium	0.5428	0.96	B	U	b	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Uranium 233/234	0.07	0.85	J	U	b	pci/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Boron	3.2	6.8		J+	b	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Fluoride	0.052	0.63	B	U	b	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Thallium	0.5428	0.28	B	U	b	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Tungsten	0.0175	2.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Uranium 233/234	0.1	1.16		U	b	pci/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Thallium	0.5428	0.39	B	U	b	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Uranium 233/234	0.07	0.95	J	U	b	pci/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Fluoride	0.052	1		U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Thallium	0.5428	0.24	B	U	b	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Thorium 231	0.042	0.077	J	U	b	pci/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Boron	3.2	5.2		J+	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Chloride	0.25	1.4	B J	U	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Sulfate	0.62	3.5	B	U	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Thallium	0.5428	0.43	B	U	b	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Uranium 233/234	0.06	1.05		U	b	pci/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Boron	3.2	8.3		J+	b	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Fluoride	0.054	0.32	B	U	b	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Thallium	0.5428	0.59	B	U	b	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Thorium 231	0.1	0.13	J	U	b	pci/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Uranium 233/234	0.12	1.23		J+	b	pci/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Boron	3.2	7.7		J+	b	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Fluoride	0.053	0.23	B	U	b	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Thallium	0.5428	0.21	B	U	b	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Thorium 231	0.094	0.099	J	U	b	pci/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Boron	3.2	5.3		J+	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Chloride	0.25	1.7	B J	U	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Sulfate	0.62	4.4	B	U	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Thallium	0.5428	0.63	B	U	b	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Thorium 231	0.072	0.098	J	U	b	pci/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Tungsten	0.0175	0.95	BE	UJ	b, j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium 233/234	0.09	0.84	J	U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Boron	3.2	4.8	B	U	b	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Fluoride	0.053	0.29	B	U	b	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Thallium	0.5428	0.59	B	U	b	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Uranium 233/234	0.12	1.07		U	b	pci/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Boron	3.2	8.6		J+	b	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Thorium 231	0.1	0.13	J	U	b	pci/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Boron	3.2	4	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Chloride	0.25	0.96	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Niobium	1.015	2.4	BN	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.119	0.63	J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 226	0.119	0.63	J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Sulfate	0.61	3.1	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thallium	0.5428	0.87	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thorium 231	0.049	0.054	J	U	b	pci/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Tungsten	0.0175	1.1	B	U	b	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium 233/234	0.1	0.8	J	U	b	pci/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Chloride	0.26	0.86	B	U	b	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Niobium	1.015	1.6	BN	U	b	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Tungsten	0.0175	0.99	B	U	b	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Uranium 233/234	0.06	0.77	J	U	b	pci/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Boron	3.2	4.2	B	U	b	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Thallium	0.5428	0.9	B	U	b	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Tungsten	0.0175	0.81	B	U	b	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Uranium 233/234	0.13	0.68	J	U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Boron	3.2	4.9	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Chloride	0.25	0.72	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Sulfate	0.62	1.2	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Thallium	0.5428	1	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Thorium 231	0.1	0.13	J	U	b	pci/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Tungsten	0.0175	0.9	B	U	b	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Uranium 233/234	0.11	0.98	J	U	b	pci/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Boron	3.2	4.1	B	U	b	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Tungsten	0.0175	0.65	B	U	b	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Uranium 233/234	0.08	1.05		U	b	pci/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Boron	3.2	10.2		J+	b	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Chloride	2.6	6.2	B	U	b	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Thallium	0.5428	0.38	B	U	b	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Tungsten	0.0175	0.94	B	U	b	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Thallium	0.5428	0.21	B	U	b	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Tungsten	0.0175	0.67	B	U	b	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Boron	3.2	4.1	B	U	b	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Thallium	0.5428	0.25	B	U	b	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Tungsten	0.0175	0.66	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Boron	3.2	8.2		J+	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Chloride	0.25	1.2	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Sulfate	0.62	1.7	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Thallium	0.5428	0.52	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Tungsten	0.0175	1.6	B	U	b	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Uranium 233/234	0.14	0.82	J	U	b	pci/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Boron	3.2	4.3	B	U	b	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Thallium	0.5428	0.29	B	U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Thorium 231	0.04	0.17	J	U	b	pci/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Tungsten	0.0175	1.2	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Boron	3.2	3.4	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Chloride	0.25	0.93	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Sulfate	0.62	3.4	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Thorium 231	0.07	0.13	J	U	b	pci/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Tungsten	0.0175	0.9	B	U	b	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium 233/234	0.14	0.71	J	U	b	pci/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.197	0.756	J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Radium 226	0.197	0.756	J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Tungsten	0.0175	0.78	B	U	b	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Uranium 233/234	0.08	0.75	J	U	b	pci/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Boron	3.2	4.4	B	U	b	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Thallium	0.5428	0.93	B	U	b	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Tungsten	0.0175	0.96	B	U	b	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Uranium 233/234	0.11	0.58	J	U	b	pci/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Chloride	0.25	1	B	U	b	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.226	0.872	J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Radium 226	0.226	0.872	J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Sulfate	0.61	2.7	B	U	b	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Tungsten	0.0175	0.68	B	U	b	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Uranium 233/234	0.13	0.47	J	U	b	pci/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Chloride	0.26	1.7	B	U	b	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.239	0.592	J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Radium 226	0.239	0.592	J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Thorium 231	0.068	0.076	J	U	b	pci/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Tungsten	0.0175	0.71	B	U	b	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium 233/234	0.05	0.9	J	U	b	pci/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Boron	3.2	4	B	U	b	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Thallium	0.5428	0.95	B	U	b	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Tungsten	0.0175	1.5	B	U	b	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Uranium 233/234	0.07	0.89	J	U	b	pci/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Chloride	0.25	0.97	B	U	b	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Sulfate	0.62	1	B	U	b	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Tungsten	0.0175	1	B	U	b	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Uranium 233/234	0.04	0.83	J	U	b	pci/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Sulfate	0.77	2.2	B	U	b	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Thallium	0.5428	1	B	U	b	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Thorium 231	0.036	0.053	J	U	b	pci/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Tungsten	0.0175	1	B	U	b	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Uranium 233/234	0.03	1.02		U	b	pci/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Thorium 231	0.033	0.037	J	U	b	pci/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Tungsten	0.0175	0.84	B	U	b	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium 233/234	0.03	0.96	J	U	b	pci/g
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Chloride	0.25	0.79	B J	U	b	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Sulfate	0.62	0.86	B	U	b	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Tungsten	0.0175	0.73	B	U	b	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Uranium 233/234	0.11	0.83	J	U	b	pci/g

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Boron	3.2	3.5	B	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Chloride	0.26	1.6	B J	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Sulfate	0.64	3.1	B	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Thallium	0.5428	0.4	B	U	b	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Tungsten	0.0175	0.64	BE	UJ	b, j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Uranium 233/234	0.09	0.95	J	U	b	pci/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Boron	3.2	3.4	B	U	b	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.176	0.978	J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Radium 226	0.176	0.978	J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thallium	0.5428	0.58	B	U	b	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 231	0.01	0.102	J	U	b	pci/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Tungsten	0.0175	0.51	BE	UJ	b, j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Uranium 233/234	0.14	1.23		J+	b	pci/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Chloride	0.25	0.84	B J	U	b	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.104	0.977	J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 226	0.104	0.977	J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 228	0.452	1.93	J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Uranium 233/234	0.08	1	J	U	b	pci/g
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Thallium	0.5428	0.5	B	U	b	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Uranium 233/234	0.12	1.14		U	b	pci/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	0.939	J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Radium 226	0.128	0.939	J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Thorium 231	0.081	0.087	J	U	b	pci/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium 233/234	0.1	1.04		U	b	pci/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Chloride	0.25	1.3	B J	U	b	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.143	0.999	J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 226	0.143	0.999	J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 228	0.44	1.34	J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Sulfate	0.62	1.4	B	U	b	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Thallium	0.5428	0.25	B	U	b	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Thorium 231	0.041	0.06	J	U	b	pci/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Uranium 233/234	0.07	1.09		U	b	pci/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Boron	3.2	7.3		J+	b	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Thorium 231	0.039	0.058	J	U	b	pci/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Uranium 233/234	0.06	1.2		J+	b	pci/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Boron	3.2	8.5		J+	b	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Fluoride	0.053	0.24	B	U	b	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Radium 228	0.69	1.68	J	U	k, e, b	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Thorium 231	0.1	0.18	J	J+	b	pci/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg

TABLE 6 (CONTINUED)
QUALIFICATIONS BASED ON LABORATORY BLANK CONTAMINATION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Boron	3.2	3.7	B	U	b	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Chloride	0.25	0.79	B J	U	b	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Sulfate	0.62	1.2	B	U	b	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Uranium 233/234	0.12	0.78	J	U	b	pci/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Radium 228	0.766	2	J	U	k, e, b	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Sulfate	0.64	4.4	B	U	b	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Boron	3.2	5.8		J+	b	mg/kg
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Radium 228	0.752	1.55	J	U	k, e, b	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
< >	Less than; greater than
b	Qualified due to blank contamination
B	Reported value is greater than the SQL, but less than the PQL
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
j	Qualified due to other stable chemistry issues
k	Qualified because result is >MDC and < required reporting limit
J	Result is estimated
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
pCi/g	PicoCurie per gram
PQL	Practical quantitation limit
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 7
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Barium	0.152	183	N	J	e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Barium	0.152	245	N	J	e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Barium	0.152	220	N	J	e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Barium	0.152	272	N	J	e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Barium	0.152	445	N	J	e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 228	0.764	1.6	J	R	k, e	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Barium	0.152	188	N	J	e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Barium	0.152	197	N	J	e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Barium	0.152	154	N	J	e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Strontium	0.0735	165	N	J-	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Barium	0.152	191	N	J	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	b, e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Barium	0.152	218	N	J	e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Barium	0.152	152	N	J	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Barium	0.152	143	N	J	e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Barium	0.152	145	N	J	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Niobium	1.015	2.3	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Barium	0.152	154	N	J	e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Barium	0.152	142	N	J	e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Barium	0.152	218	N	J	e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Barium	0.152	171	N	J	e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Barium	0.152	240	N	J	e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Barium	0.152	146	N	J	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Cadmium	0.1291	ND	N U	UJ-	e	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Zinc	0.2207	51.6	N	J+	e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Zinc	0.2207	48.6	N	J+	e	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Zinc	0.2207	39.6	N	J+	e	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Zinc	0.2207	51.2	N	J+	e	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Zinc	0.2207	41.6	N	J+	e	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Zinc	0.2207	41.9	N	J+	e	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Zinc	0.2207	52	N	J+	e	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Zinc	0.2207	39.7	N	J+	e	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Zinc	0.2207	40	N	J+	e	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Zinc	0.2207	42.6	N	J+	e	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Antimony	0.3298	0.18	BN	J-	e, g	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Zinc	0.2207	41.6	N	J+	e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Zinc	0.2207	36	N	J+	e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Zinc	0.2207	34.3	N	J+	e	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Zinc	0.2207	32.5	N	J+	e	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Zinc	0.2207	35.6	N	J+	e	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Zinc	0.2207	34.1	N	J+	e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Zinc	0.2207	35.7	N	J+	e	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Zinc	0.2207	35.8	N	J+	e	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Zinc	0.2207	36.9	N	J+	e	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Antimony	0.3298	0.27	BN	J-	e, g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Zinc	0.2207	52.1	N	J+	e	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Zirconium	0.0874	132	NE	J-	j, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Zirconium	0.0874	103	NE	J-	j, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Antimony	0.3298	0.5	BN	J-	e, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Zirconium	0.0874	121	NE	J-	j, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Zirconium	0.0874	105	NE	J-	j, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Zirconium	0.0874	106	NE	J-	j, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Antimony	0.3298	0.46	BN	J-	e, g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Zirconium	0.0874	112	NE	J-	j, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Zirconium	0.0874	117	NE	J-	j, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Antimony	0.3298	0.29	BN	J-	e, g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Zirconium	0.0874	118	NE	J-	j, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Zirconium	0.0874	108	NE	J-	j, e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Zirconium	0.0874	94.9	NE	J-	j, e	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Antimony	0.3298	0.36	BN	J-	e, g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Zirconium	0.0874	120	NE	J-	j, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Zirconium	0.0874	113	NE	J-	j, e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Zirconium	0.0874	107	NE	J-	j, e	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Zirconium	0.0874	99.3	NE	J-	j, e	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Antimony	0.3298	0.24	BN	J-	e, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Zirconium	0.0874	130	NE	J-	j, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Niobium	1.015	2.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Zirconium	0.0874	138	NE	J-	j, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Antimony	0.3298	0.16	BN	J-	e, g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Niobium	1.015	2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Zirconium	0.0874	126	NE	J-	j, e	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Antimony	0.3298	0.21	BN	J-	e, g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Zirconium	0.0874	134	NE	J-	j, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Strontium	0.0735	184	N	J-	e	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Strontium	0.0735	239	N	J-	e	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Strontium	0.0735	145	N	J-	e	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Antimony	0.3298	0.35	BN	J-	e, g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Strontium	0.0735	294	N	J-	e	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Strontium	0.0735	234	N	J-	e	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Strontium	0.0735	240	N	J-	e	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Strontium	0.0735	144	N	J-	e	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Strontium	0.0735	219	N	J-	e	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Radium 228	0.737	4.15		R	e	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Strontium	0.0735	567	N	J-	e	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Niobium	1.015	1.2	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Radium 228	0.656	4.67		R	e	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Strontium	0.0735	127	N	J-	e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Radium 228	0.999	6.42		R	e	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Strontium	0.0735	230	N	J-	e	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Radium 228	0.654	3.1		R	e	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Strontium	0.0735	684	N	J-	e	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Antimony	0.3298	0.44	BN	J-	e, g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 228	0.8	3.76		R	e	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Radium 228	0.731	2.37		R	e	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Radium 228	0.825	3.13		R	e	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Antimony	0.3298	0.4	BN	J-	e, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Barium	0.152	185	NE	J+	j, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Radium 228	0.821	3.2		R	e	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Barium	0.152	138	NE	J+	j, e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Radium 228	0.86	2.12		R	e	pCi/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Antimony	0.3298	0.41	BN	J-	e, g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Barium	0.152	166	NE	J+	j, e	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Radium 228	0.644	2.21		R	e	pCi/g
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Barium	0.152	82.5	NE	J+	j, e	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Radium 228	0.511	2.19		R	e	pCi/g
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Barium	0.152	114	NE	J+	j, e	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Radium 228	0.702	2.19		R	e	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Antimony	0.3298	0.38	BN	J-	e, g	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Barium	0.152	162	NE	J+	j, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 228	0.574	1.86	J	R	k, e	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Barium	0.152	102	NE	J+	j, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Radium 228	0.78	1.94	J	R	k, e	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Barium	0.152	604	NE	J+	j, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Niobium	1.015	1.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 228	0.6	1.8	J	R	k, e	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Barium	0.152	346	NE	J+	j, e	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Barium	0.152	836	NE	J+	j, e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 228	0.666	1.71	J	R	k, e	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Antimony	0.3298	0.22	BN	J-	e, g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Barium	0.152	369	NE	J+	j, e	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Barium	0.152	395	NE	J+	j, e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Barium	0.152	573	NE	J+	j, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 228	0.67	1.52	J	R	k, e	pCi/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Antimony	0.3298	0.39	BN	J-	e, g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Barium	0.152	122	NE	J+	j, e	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Niobium	1.015	1.6	BN	UJ-	b, e	mg/kg

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]		Qualifier	Comment	Unit
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Antimony	0.3298	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Barium	0.152	77.2	NE	J+	j, e	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Barium	0.152	118	NE	J+	j, e	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Barium	0.152	141	NE	J+	j, e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Niobium	1.015	2.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Niobium	1.015	1.7	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Niobium	1.015	2.1	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Niobium	1.015	1.5	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Niobium	1.015	1.4	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Radium 228	0.911	2.37		R	e	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Niobium	1.015	ND	N U	UJ-	e	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Radium 228	0.69	1.68	J	U	k, e, b	pCi/g
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Radium 228	0.75	2.51		R	e	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Niobium	1.015	1.8	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Radium 228	0.766	2	J	U	k, e, b	pCi/g
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Niobium	1.015	1.3	BN	UJ-	b, e	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Radium 228	0.752	1.55	J	U	k, e, b	pCi/g

TABLE 7 (CONTINUED)
QUALIFICATIONS BASED ON SPIKE SAMPLE RECOVERIES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
b	Qualified due to blank contamination
B	Reported value is greater than the SQL, but less than the PQL
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
j	Qualified because result is greater than the SQL, but less than the PQL
J	Result is estimated
k	Result is greater than MDC but less than the required reporting limit
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
ND	Not detected
pCi/g	PicoCurie per gram
PQL	Practical quantitation limit
R	Result is rejected
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1	The RL represents the SQL for metals and the MDC for radionuclides.
2	"ND" indicates that the analyte was not detected above the associated SQL.

TABLE 8
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.199	1.04		J	n	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Radium 226	0.199	1.04		J	n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.165	0.635	J	J	k, n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 226	0.165	0.635	J	J	k, n	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0222	1.03		J	n	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Radium 226	0.0222	1.03		J	n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.215	0.577	J	J	k, n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 226	0.215	0.577	J	J	k, n	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.134	0.817	J	J	k, n	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 226	0.134	0.817	J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.185	0.507	J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Radium 226	0.185	0.507	J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.138	0.893	J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 226	0.138	0.893	J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0936	0.714	J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Radium 226	0.0936	0.714	J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.172	0.865	J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Radium 226	0.172	0.865	J	J	k, n	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.119	1.14		J	n	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Radium 226	0.119	1.14		J	n	pCi/g

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0905	1.18	J	n	pCi/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Radium 226	0.0905	1.18	J	n	pCi/g
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0925	1.06	J	n	pCi/g
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Radium 226	0.0925	1.06	J	n	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0577	1.18	J	n	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Radium 226	0.0577	1.18	J	n	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	1.53	J	n	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Radium 226	0.128	1.53	J	n	pCi/g
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.147	1.09	J	n	pCi/g
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Radium 226	0.147	1.09	J	n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0558	0.807 J	J	k, n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Radium 226	0.0558	0.807 J	J	k, n	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.177	1.58	J	n	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Radium 226	0.177	1.58	J	n	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.154	1.15	J	n	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Radium 226	0.154	1.15	J	n	pCi/g
F5F180132	F5F180132006	BRC-BKG-01B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.227	2.1	J	n	pCi/g
F5F180132	F5F180132006	BRC-BKG-01B-9-11	Soil	Radium 226	0.227	2.1	J	n	pCi/g
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.156	1.22	J	n	pCi/g
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Radium 226	0.156	1.22	J	n	pCi/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.145	1.82	J	n	pCi/g

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Radium 226	0.145	1.82		J	n	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0924	1.91		J	n	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Radium 226	0.0924	1.91		J	n	pCi/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.112	1.07		J	n	pCi/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Radium 226	0.112	1.07		J	n	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.186	0.945	J	J	k, n	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Radium 226	0.186	0.945	J	J	k, n	pCi/g
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.166	1.03		J	n	pCi/g
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Radium 226	0.166	1.03		J	n	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.149	1.06		J	n	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Radium 226	0.149	1.06		J	n	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.152	0.952	J	J	k, n	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Radium 226	0.152	0.952	J	J	k, n	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0877	1.1		J	n	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Radium 226	0.0877	1.1		J	n	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.185	1.22		J	n	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Radium 226	0.185	1.22		J	n	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.211	1.16		J	n	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Radium 226	0.211	1.16		J	n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.174	0.784	J	J	k, n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 226	0.174	0.784	J	J	k, n	pCi/g

TABLE 8 (CONTINUED)
TRACER YIELD EXCEEDANCE QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.173	0.926 J	J	k, n	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 226	0.173	0.926 J	J	k, n	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.101	1.96	J	n	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Radium 226	0.101	1.96	J	n	pCi/g

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
J	Result is estimated
k	Qualified because result is >MDC but < required reporting limit
MDC	Minimum detectable concentration
n	Qualified due to poor tracer yield
pCi/g	PicoCurie per gram
R	Result is rejected and unusable
RL	Reporting limit
SDG	Sample delivery group

1 The RL represents the MDC for radionuclides.

TABLE 9
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Strontium	0.0735	219	N*E	J	j, d	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Strontium	0.0735	406	N*E	J	j, d	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Strontium	0.0735	249	N*E	J	j, d	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Strontium	0.0735	441	N*E	J	j, d	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Strontium	0.0735	808	N*E	J	j, d	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Strontium	0.0735	182	N*E	J	j, d	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Strontium	0.0735	258	N*E	J	j, d	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Strontium	0.0735	143	N*E	J	j, d	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Strontium	0.0735	267	N*E	J	j, d	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Strontium	0.0735	402	N*E	J	j, d	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Strontium	0.0735	142	N*E	J	j, d	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Strontium	0.0735	140	N*E	J	j, d	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Strontium	0.0735	131	N*E	J	j, d	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Strontium	0.0735	166	N*E	J	j, d	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Strontium	0.0735	192	N*E	J	j, d	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Strontium	0.0735	260	N*E	J	j, d	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Strontium	0.0735	153	N*E	J	j, d	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Strontium	0.0735	364	N*E	J	j, d	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Strontium	0.0735	149	N*E	J	j, d	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Strontium	0.0735	203	N*E	J	j, d	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Strontium	0.0735	217	N*E	J	j, d	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Strontium	0.0735	229	N*E	J	j, d	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Strontium	0.0735	206	N*E	J	j, d	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Lead	0.0506	8.9	N*	J	d	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Lead	0.0506	8.9	N*	J	d	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Lead	0.0506	9.9	N*	J	d	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Lead	0.0506	19.1	N*	J	d	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Lead	0.0506	5.7	N*	J	d	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Lead	0.0506	6.3	N*	J	d	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Lead	0.0506	3	N*	J	d	mg/kg

TABLE 9 (CONTINUED)
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Lead	0.0506	5	N*	J	d	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Lead	0.0506	12.2	N*	J	d	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Lead	0.0506	3.6	N*	J	d	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Lead	0.0506	21	N*	J	d	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Lead	0.0506	9.1	N*	J	d	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Lead	0.0506	11.7	N*	J	d	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Lead	0.0506	17.5	N*	J	d	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Lead	0.0506	12.4	N*	J	d	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Lead	0.0506	9.4	N*	J	d	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Lead	0.0506	9.1	N*	J	d	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Lead	0.0506	6.7	N*	J	d	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Lead	0.0506	7.8	N*	J	d	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Lead	0.0506	7.9	N*	J	d	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Manganese	0.0131	397	N*	J	d	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Manganese	0.0131	433	N*	J	d	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Manganese	0.0131	522	N*	J	d	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Manganese	0.0131	268	N*	J	d	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Manganese	0.0131	398	N*	J	d	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Manganese	0.0131	455	N*	J	d	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Manganese	0.0131	288	N*	J	d	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Manganese	0.0131	287	N*	J	d	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Manganese	0.0131	678	N*	J	d	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Manganese	0.0131	312	N*	J	d	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Manganese	0.0131	449	N*	J	d	mg/kg

TABLE 9 (CONTINUED)
QUALIFICATIONS BASED ON DUPLICATE PRECISION
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes:

*	Laboratory qualification due to poor duplicate precision
b	Qualified due to blank contamination
d	Qualified due to poor duplicate precision
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
j	Qualified because result is greater than the SQL, but less than the PQL
J	Result is estimated
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Laboratory qualification due to poor matrix spike recovery
PQL	Practical quantitation limit
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 10
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Beryllium	0.038	0.45	B	J	g	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	CEC	50	19.4	J	J	g	meq/100g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Molybdenum	0.241	0.3	B	J	g	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Tin	0.187	0.57	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	CEC	50	13.2	J	J	g	meq/100g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Mercury	0.0072	0.028	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Molybdenum	0.241	0.6	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Selenium	0.1579	0.26	B	J	g	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	CEC	50	18.4	J	J	g	meq/100g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Mercury	0.0072	0.023	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Molybdenum	0.241	0.32	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Tin	0.187	0.58	B	J	g	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium	0.038	0.89	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	CEC	50	14.9	J	J	g	meq/100g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Mercury	0.0072	0.028	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Tin	0.187	0.68	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Beryllium	0.038	0.41	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	CEC	50	16.3	J	J	g	meq/100g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Mercury	0.0072	0.029	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Tin	0.187	0.65	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Beryllium	0.038	0.46	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	CEC	50	14.7	J	J	g	meq/100g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Mercury	0.0072	0.03	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Molybdenum	0.241	0.33	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Beryllium	0.038	0.47	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	CEC	50	10	J	J	g	meq/100g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Mercury	0.0072	0.028	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Molybdenum	0.241	0.41	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Uranium	0.038	0.92	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Beryllium	0.038	0.16	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	CEC	50	13.3	J	J	g	meq/100g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Molybdenum	0.241	0.34	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Platinum	0.0435	0.082	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Tin	0.187	0.8	B	J	g	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Uranium	0.038	0.87	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	CEC	50	15.3	J	J	g	meq/100g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Selenium	0.1579	0.39	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Tin	0.187	0.5	B	J	g	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Uranium	0.038	0.62	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Beryllium	0.038	0.43	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	CEC	50	15.6	J	J	g	meq/100g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Molybdenum	0.241	0.46	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Tin	0.187	0.5	B	J	g	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Uranium	0.038	0.94	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Beryllium	0.038	0.45	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	CEC	50	17.4	J	J	g	meq/100g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Mercury	0.0072	0.032	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Molybdenum	0.241	0.32	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Uranium	0.038	0.94	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Beryllium	0.038	0.35	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	CEC	50	15.9	J	J	g	meq/100g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Mercury	0.0072	0.033	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Molybdenum	0.241	0.39	B	J	g	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Tin	0.187	0.59	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Beryllium	0.038	0.54	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	CEC	50	18.4	J	J	g	meq/100g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Mercury	0.0072	0.034	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Beryllium	0.038	0.33	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	CEC	50	15.5	J	J	g	meq/100g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Mercury	0.0072	0.025	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Uranium	0.038	0.89	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Beryllium	0.038	0.37	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	CEC	50	19.2	J	J	g	meq/100g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Molybdenum	0.241	0.36	B	J	g	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Beryllium	0.038	0.32	B	J	g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	CEC	50	15.1	J	J	g	meq/100g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Tin	0.187	0.59	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	CEC	50	14.6	J	J	g	meq/100g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Mercury	0.0072	0.027	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Uranium	0.038	0.9	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	CEC	50	7.9	J	J	g	meq/100g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Mercury	0.0072	0.013	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Beryllium	0.038	0.47	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Mercury	0.0072	0.019	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Molybdenum	0.241	0.35	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Platinum	0.0435	0.099	B	J	g	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Tin	0.187	0.75	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Beryllium	0.038	0.29	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Tin	0.187	0.46	B	J	g	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Beryllium	0.038	0.45	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Tin	0.187	0.69	B	J	g	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium	0.038	0.97	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Mercury	0.0072	0.025	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Tin	0.187	0.76	B	J	g	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Uranium	0.038	0.98	B	J	g	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Beryllium	0.038	0.49	B	J	g	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Mercury	0.0072	0.027	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Molybdenum	0.241	0.55	B	J	g	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Molybdenum	0.241	0.66	B	J	g	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Tin	0.187	0.59	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Antimony	0.3298	0.28	BN	J-	e, g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Mercury	0.0072	0.019	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Selenium	0.1579	0.37	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Uranium	0.038	0.81	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Mercury	0.0072	0.02	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Molybdenum	0.241	0.73	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Platinum	0.0435	0.045	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Mercury	0.0072	0.018	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Molybdenum	0.241	0.63	B	J	g	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Mercury	0.0072	0.0093	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Molybdenum	0.241	0.64	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Selenium	0.1579	0.23	B	J	g	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Mercury	0.0072	0.023	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Molybdenum	0.241	0.49	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Selenium	0.1579	0.35	B	J	g	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Tin	0.187	0.46	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Molybdenum	0.241	0.57	B	J	g	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Molybdenum	0.241	0.52	B	J	g	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Tin	0.187	0.38	B	J	g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Mercury	0.0072	0.0085	B	J	g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Antimony	0.3298	0.18	BN	J-	e, g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Mercury	0.0072	0.022	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Molybdenum	0.241	0.48	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Selenium	0.1579	0.32	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Molybdenum	0.241	0.58	B	J	g	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Molybdenum	0.241	0.56	B	J	g	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Tin	0.187	0.58	B	J	g	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Molybdenum	0.241	0.38	B	J	g	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Tin	0.187	0.41	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Uranium	0.038	0.82	B	J	g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Molybdenum	0.241	1	B	J	g	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Mercury	0.0072	0.019	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Molybdenum	0.241	0.54	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Tin	0.187	0.45	B	J	g	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Uranium	0.038	0.95	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Mercury	0.0072	0.0098	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Uranium	0.038	0.92	B	J	g	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Molybdenum	0.241	0.48	B	J	g	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Tin	0.187	0.49	B	J	g	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Molybdenum	0.241	0.52	B	J	g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Tin	0.187	0.55	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Antimony	0.3298	0.27	BN	J-	e, g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Mercury	0.0072	0.02	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Molybdenum	0.241	0.53	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Tin	0.187	0.54	B	J	g	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Uranium	0.038	0.76	B	J	g	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Tin	0.187	0.42	B	J	g	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Uranium	0.038	0.91	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Molybdenum	0.241	0.39	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Platinum	0.0435	0.064	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Tin	0.187	0.36	B	J	g	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Antimony	0.3298	0.5	BN	J-	e, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Mercury	0.0072	0.023	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Molybdenum	0.241	0.9	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Nitrite	0.062	0.16	B	J	h, g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Tin	0.187	0.78	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Beryllium	0.038	0.38	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Molybdenum	0.241	0.4	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Tin	0.187	0.32	B	J	g	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Uranium	0.038	0.86	B	J	g	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Beryllium	0.038	0.37	B	J	g	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Mercury	0.0072	0.0092	B	J	g	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Tin	0.187	0.41	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Antimony	0.3298	0.46	BN	J-	e, g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Mercury	0.0072	0.033	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Molybdenum	0.241	0.75	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Tin	0.187	0.66	B	J	g	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium	0.038	0.85	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Molybdenum	0.241	0.64	B	J	g	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Tin	0.187	0.45	B	J	g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Antimony	0.3298	0.29	BN	J-	e, g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Mercury	0.0072	0.0091	B	J	g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Molybdenum	0.241	0.84	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Selenium	0.1579	0.34	B	J	g	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Tin	0.187	0.63	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Mercury	0.0072	0.022	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Molybdenum	0.241	0.37	B	J	g	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Tin	0.187	0.48	B	J	g	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Molybdenum	0.241	0.68	B	J	g	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Tin	0.187	0.33	B	J	g	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Antimony	0.3298	0.36	BN	J-	e, g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Molybdenum	0.241	0.79	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Selenium	0.1579	0.31	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Tin	0.187	0.54	B	J	g	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Uranium	0.038	0.85	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Mercury	0.0072	0.013	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Selenium	0.1579	0.31	B	J	g	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Tin	0.187	0.43	B	J	g	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Molybdenum	0.241	0.47	B	J	g	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Mercury	0.0072	0.027	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Molybdenum	0.241	0.47	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Selenium	0.1579	0.36	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Tin	0.187	0.38	B	J	g	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Uranium	0.038	0.64	B	J	g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Molybdenum	0.241	0.53	B	J	g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Tin	0.187	0.43	B	J	g	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Uranium	0.038	0.76	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Mercury	0.0072	0.0098	B	J	g	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Uranium	0.038	0.68	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Antimony	0.3298	0.24	BN	J-	e, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Molybdenum	0.241	0.61	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Nitrate	0.1	0.19	B	J	h, g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Selenium	0.1579	0.3	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Tin	0.187	0.53	B	J	g	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Uranium	0.038	0.96	B	J	g	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Selenium	0.1579	0.36	B	J	g	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Tin	0.187	0.62	B	J	g	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Antimony	0.3298	0.16	BN	J-	e, g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Molybdenum	0.241	0.6	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Tin	0.187	0.43	B	J	g	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Uranium	0.038	0.83	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Antimony	0.3298	0.21	BN	J-	e, g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Molybdenum	0.241	0.59	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Tin	0.187	0.56	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Antimony	0.3298	0.17	BN	J-	e, g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Beryllium	0.038	0.47	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Mercury	0.0072	0.0086	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Selenium	0.1579	0.34	B	J	g	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Uranium	0.038	0.73	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Antimony	0.3298	0.14	BN	J-	e, g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Molybdenum	0.241	0.61	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Selenium	0.1579	0.31	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Antimony	0.3298	0.23	BN	J-	e, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Molybdenum	0.241	0.77	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nitrite	0.061	0.15	B	J	h, g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Selenium	0.1579	0.3	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Tin	0.187	0.67	B	J	g	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Uranium	0.038	0.97	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Antimony	0.3298	0.35	BN	J-	e, g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Molybdenum	0.241	0.76	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Selenium	0.1579	0.23	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Uranium	0.038	0.99	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Beryllium	0.038	0.42	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Molybdenum	0.241	0.65	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Selenium	0.1579	0.38	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Tin	0.187	0.42	B	J	g	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Uranium	0.038	0.85	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Molybdenum	0.241	0.55	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Uranium	0.038	0.9	B	J	g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Antimony	0.3298	0.32	BN	J-	e, g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Molybdenum	0.241	0.72	B	J	g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Selenium	0.1579	0.33	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Tin	0.187	0.54	B	J	g	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Uranium	0.038	0.8	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Beryllium	0.038	0.44	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Molybdenum	0.241	0.62	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Selenium	0.1579	0.39	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Uranium	0.038	0.8	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Antimony	0.3298	0.15	BN	J-	e, g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Beryllium	0.038	0.41	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Molybdenum	0.241	0.78	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Selenium	0.1579	0.27	B	J	g	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Molybdenum	0.241	0.7	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Selenium	0.1579	0.34	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Tin	0.187	0.66	B	J	g	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium	0.038	0.86	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Molybdenum	0.241	0.58	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Uranium	0.038	0.78	B	J	g	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Beryllium	0.038	0.41	B	J	g	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Molybdenum	0.241	0.51	B	J	g	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Tin	0.187	0.37	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Antimony	0.3298	0.44	BN	J-	e, g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Beryllium	0.038	0.48	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Mercury	0.0072	0.0097	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Molybdenum	0.241	0.73	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Selenium	0.1579	0.26	B	J	g	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Tin	0.187	0.28	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium	0.038	0.43	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Beryllium	0.038	0.43	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Molybdenum	0.241	0.94	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nitrate	0.1	0.13	B	J	h, g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Selenium	0.1579	0.28	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Tin	0.187	0.21	B	J	g	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nitrate	0.1	0.11	B	J	h, g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Selenium	0.1579	0.4	B	J	g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Tin	0.187	0.25	B	J	g	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Uranium	0.038	0.71	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Antimony	0.3298	0.4	BN	J-	e, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Molybdenum	0.241	0.77	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nitrate	0.1	0.18	B	J	h, g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Selenium	0.1579	0.26	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Tin	0.187	0.61	B	J	g	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Uranium	0.038	0.79	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Molybdenum	0.241	0.41	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Tin	0.187	0.39	B	J	g	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Antimony	0.3298	0.41	BN	J-	e, g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Molybdenum	0.241	0.54	B	J	g	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Beryllium	0.038	0.46	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Molybdenum	0.241	0.33	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Tin	0.187	0.29	B	J	g	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Uranium	0.038	0.74	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Antimony	0.3298	0.13	BN	J-	e, g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Molybdenum	0.241	0.35	B	J	g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Tin	0.187	0.25	B	J	g	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Uranium	0.038	0.81	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Antimony	0.3298	0.38	BN	J-	e, g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Molybdenum	0.241	0.72	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Selenium	0.1579	0.32	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Tin	0.187	0.56	B	J	g	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Uranium	0.038	0.93	B	J	g	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Beryllium	0.038	0.5	B	J	g	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Tin	0.187	0.24	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Selenium	0.1579	0.23	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Tin	0.187	0.33	B	J	g	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium	0.038	0.51	B	J	g	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Beryllium	0.038	0.46	B	J	g	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Tin	0.187	0.2	B	J	g	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Uranium	0.038	0.67	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Antimony	0.3298	0.25	BN	J-	e, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Molybdenum	0.241	0.9	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nitrate	0.1	0.2	B	J	h, g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Selenium	0.1579	0.39	B	J	g	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Uranium	0.038	0.73	B	J	g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Antimony	0.3298	0.22	BN	J-	e, g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Molybdenum	0.241	0.83	B	J	g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Tin	0.187	0.34	B	J	g	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Uranium	0.038	0.63	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Beryllium	0.038	0.52	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Molybdenum	0.241	0.97	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Selenium	0.1579	0.4	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Tin	0.187	0.22	B	J	g	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium	0.038	0.74	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Mercury	0.0072	0.015	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Molybdenum	0.241	0.89	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Tin	0.187	0.21	B	J	g	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Antimony	0.3298	0.39	BN	J-	e, g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Mercury	0.0072	0.021	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Selenium	0.1579	0.37	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Tin	0.187	0.47	B	J	g	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Uranium	0.038	0.73	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Molybdenum	0.241	0.35	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Selenium	0.1579	0.37	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Tin	0.187	0.37	B	J	g	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Uranium	0.038	0.8	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Antimony	0.3298	0.12	BN	J-	e, g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Platinum	0.0435	0.064	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Tin	0.187	0.46	B	J	g	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium	0.038	0.95	B	J	g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Antimony	0.3298	0.2	BN	J-	e, g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Mercury	0.0072	0.016	B	J	g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Molybdenum	0.241	0.42	B	J	g	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Antimony	0.3298	0.23	BN	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Mercury	0.0072	0.0084	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Molybdenum	0.241	0.37	B	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Tin	0.187	0.48	B	J	g	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Uranium	0.038	1	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Antimony	0.3298	0.21	BN	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Molybdenum	0.241	0.47	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Selenium	0.1579	0.29	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Uranium	0.038	0.89	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Antimony	0.3298	0.2	BN	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Mercury	0.0072	0.016	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Molybdenum	0.241	0.43	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Tin	0.187	0.44	B	J	g	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Uranium	0.038	0.82	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Mercury	0.0072	0.01	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Molybdenum	0.241	0.32	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Uranium	0.038	0.72	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Antimony	0.3298	0.29	BN	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Molybdenum	0.241	0.58	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Tin	0.187	0.52	B	J	g	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium	0.038	0.84	B	J	g	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Antimony	0.3298	0.15	BN	J	g	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Molybdenum	0.241	0.46	B	J	g	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Tin	0.187	0.41	B	J	g	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Mercury	0.0072	0.012	B	J	g	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Molybdenum	0.241	0.44	B	J	g	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Tin	0.187	0.4	B	J	g	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Mercury	0.0072	0.011	B	J	g	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Molybdenum	0.241	0.45	B	J	g	mg/kg

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Tin	0.187	0.34	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Antimony	0.3298	0.22	BN	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Molybdenum	0.241	0.62	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Tin	0.187	0.51	B	J	g	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Uranium	0.038	0.71	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Antimony	0.3298	0.15	BN	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Mercury	0.0072	0.017	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Molybdenum	0.241	0.49	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Tin	0.187	0.42	B	J	g	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Uranium	0.038	0.82	B	J	g	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Mercury	0.0072	0.014	B	J	g	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Molybdenum	0.241	0.74	B	J	g	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Tin	0.187	0.32	B	J	g	mg/kg

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
B	Reported value is greater than the SQL, but less than the PQL
CEC	Cation exchange capacity
e	Qualified due to matrix spike or laboratory control sample issues
E	Estimated due to possible matrix interference
g	Qualified because result is greater than the SQL, but less than the PQL
h	Qualified due to holding time exceedance
J	Result is estimated
meq/100g	Milliequivalents per 100 grams
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
PQL	Practical quantitation limit

TABLE 10 (CONTINUED)
QUALIFICATIONS WHEN RESULTS ARE BELOW PQL
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 11
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Aluminum	2	11800	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Cobalt	0.064	10.8	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Copper	0.2205	17.6	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Magnesium	1.176	11100	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Manganese	0.0131	488	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Nickel	0.1295	15.5	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Potassium	2.079	1060	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Silicon	0.5289	530	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Strontium	0.0735	219	N*E	J	j, d	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Titanium	0.1175	704	NE	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium	0.038	7.6		R	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Vanadium	0.5535	50	E	J	j	mg/kg
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Zirconium	0.0874	167	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Aluminum	2	13300	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Cobalt	0.064	16.3	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Copper	0.2205	22.1	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Magnesium	1.176	12500	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Manganese	0.0131	641	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Nickel	0.1295	20.3	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Potassium	2.079	1360	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Silicon	0.5289	535	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Strontium	0.0735	406	N*E	J	j, d	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Titanium	0.1175	758	NE	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Vanadium	0.5535	57.5	E	J	j	mg/kg
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Zirconium	0.0874	177	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Aluminum	2	12600	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Cobalt	0.064	11.2	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Copper	0.2205	19.9	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Magnesium	1.176	17500	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Manganese	0.0131	544	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Nickel	0.1295	16.8	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Potassium	2.079	1500	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Silicon	0.5289	573	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Strontium	0.0735	249	N*E	J	j, d	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Titanium	0.1175	702	NE	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Tungsten	0.0175	2.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Vanadium	0.5535	54.2	E	J	j	mg/kg
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Zirconium	0.0874	146	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Aluminum	2	14700	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Cobalt	0.064	12.5	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Copper	0.2205	22.7	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Magnesium	1.176	12900	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Manganese	0.0131	618	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Nickel	0.1295	18.7	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Potassium	2.079	1490	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Silicon	0.5289	538	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Strontium	0.0735	441	N*E	J	j, d	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Titanium	0.1175	958	NE	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Vanadium	0.5535	59.1	E	J	j	mg/kg
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Zirconium	0.0874	175	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Aluminum	2	13300	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Cobalt	0.064	14.6	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Copper	0.2205	23.8	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Magnesium	1.176	13400	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Manganese	0.0131	593	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Nickel	0.1295	30	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Potassium	2.079	1820	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Silicon	0.5289	562	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Strontium	0.0735	808	N*E	J	j, d	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Titanium	0.1175	779	NE	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Vanadium	0.5535	57.3	E	J	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Zirconium	0.0874	176	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Aluminum	2	10900	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Cobalt	0.064	10.6	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Copper	0.2205	20.9	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Magnesium	1.176	11700	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Manganese	0.0131	471	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Nickel	0.1295	19	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Potassium	2.079	1210	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Silicon	0.5289	543	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Strontium	0.0735	182	N*E	J	j, d	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Titanium	0.1175	749	NE	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Vanadium	0.5535	49.2	E	J	j	mg/kg
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Zirconium	0.0874	178	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Aluminum	2	12200	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Cobalt	0.064	12.2	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Copper	0.2205	18.2	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Magnesium	1.176	11100	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Manganese	0.0131	489	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Nickel	0.1295	17.2	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Potassium	2.079	1250	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Silicon	0.5289	631	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Strontium	0.0735	258	N*E	J	j, d	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Titanium	0.1175	739	NE	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Vanadium	0.5535	47.1	E	J	j	mg/kg
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Zirconium	0.0874	165	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Aluminum	2	6340	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Cobalt	0.064	10.1	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Copper	0.2205	23.1	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Magnesium	1.176	10500	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Manganese	0.0131	282	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Nickel	0.1295	27.8	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Potassium	2.079	1420	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Silicon	0.5289	409	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Strontium	0.0735	143	N*E	J	j, d	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Titanium	0.1175	438	NE	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Vanadium	0.5535	33.9	E	J	j	mg/kg
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Zirconium	0.0874	117	NE	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Manganese	0.0131	481	NE	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Nickel	0.1295	15.3	E	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Vanadium	0.5535	43.9	E	J	j	mg/kg
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Zirconium	0.0874	119	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Aluminum	2	12500	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Cobalt	0.064	11.6	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Copper	0.2205	19.8	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Magnesium	1.176	12700	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Manganese	0.0131	566	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Nickel	0.1295	18	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Potassium	2.079	1180	E	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Silicon	0.5289	527	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Strontium	0.0735	267	N*E	J	j, d	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Titanium	0.1175	701	NE	J	j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Vanadium	0.5535	49.2	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Zirconium	0.0874	164	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Aluminum	2	13400	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Cobalt	0.064	11.9	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Copper	0.2205	19.6	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Magnesium	1.176	12200	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Manganese	0.0131	550	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Nickel	0.1295	16.8	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Potassium	2.079	1540	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Silicon	0.5289	675	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Strontium	0.0735	402	N*E	J	j, d	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Titanium	0.1175	936	NE	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Vanadium	0.5535	55.3	E	J	j	mg/kg
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Zirconium	0.0874	168	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Aluminum	2	7240	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Cobalt	0.064	8.8	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Copper	0.2205	23.9	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Magnesium	1.176	9830	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Manganese	0.0131	503	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Nickel	0.1295	18.9	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Potassium	2.079	1770	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Silicon	0.5289	335	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Strontium	0.0735	142	N*E	J	j, d	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Titanium	0.1175	839	NE	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Tungsten	0.0175	0.86	BE	UJ	b, j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Vanadium	0.5535	38.4	E	J	j	mg/kg
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Zirconium	0.0874	167	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Aluminum	2	10600	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Cobalt	0.064	11.4	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Copper	0.2205	20.5	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Magnesium	1.176	11200	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Manganese	0.0131	369	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Nickel	0.1295	22.2	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Potassium	2.079	1750	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Silicon	0.5289	489	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Strontium	0.0735	140	N*E	J	j, d	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Titanium	0.1175	515	NE	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Vanadium	0.5535	42.5	E	J	j	mg/kg
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Zirconium	0.0874	179	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Aluminum	2	7130	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Cobalt	0.064	8.7	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Copper	0.2205	22.9	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Magnesium	1.176	8470	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Manganese	0.0131	407	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Nickel	0.1295	17.4	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Potassium	2.079	1530	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Silicon	0.5289	342	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Strontium	0.0735	131	N*E	J	j, d	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Titanium	0.1175	659	NE	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Vanadium	0.5535	33.5	E	J	j	mg/kg
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Zirconium	0.0874	154	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Aluminum	2	8730	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Cobalt	0.064	9.3	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Copper	0.2205	21	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Magnesium	1.176	9600	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Manganese	0.0131	402	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Nickel	0.1295	19.8	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Potassium	2.079	1830	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Silicon	0.5289	375	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Strontium	0.0735	166	N*E	J	j, d	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Titanium	0.1175	673	NE	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Vanadium	0.5535	35.6	E	J	j	mg/kg
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Zirconium	0.0874	158	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Aluminum	2	11200	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Cobalt	0.064	12.2	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Copper	0.2205	25.9	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Magnesium	1.176	13700	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Manganese	0.0131	460	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Nickel	0.1295	25.9	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Potassium	2.079	1580	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Silicon	0.5289	519	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Strontium	0.0735	192	N*E	J	j, d	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Titanium	0.1175	677	NE	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Vanadium	0.5535	43.4	E	J	j	mg/kg
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Zirconium	0.0874	166	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Aluminum	2	11100	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Cobalt	0.064	9.7	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Copper	0.2205	20.8	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Magnesium	1.176	11000	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Manganese	0.0131	380	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Nickel	0.1295	17.5	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Potassium	2.079	2110	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Silicon	0.5289	476	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Strontium	0.0735	260	N*E	J	j, d	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Titanium	0.1175	671	NE	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Vanadium	0.5535	42.7	E	J	j	mg/kg
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Zirconium	0.0874	138	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Aluminum	2	12000	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Cobalt	0.064	11.3	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Copper	0.2205	23.9	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Magnesium	1.176	12400	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Manganese	0.0131	499	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Nickel	0.1295	19.1	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Potassium	2.079	1380	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Silicon	0.5289	423	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Strontium	0.0735	153	N*E	J	j, d	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Titanium	0.1175	674	NE	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Vanadium	0.5535	44.4	E	J	j	mg/kg
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Zirconium	0.0874	149	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Aluminum	2	15300	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Cobalt	0.064	11.1	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Copper	0.2205	19.6	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Magnesium	1.176	11600	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Manganese	0.0131	383	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Nickel	0.1295	18.1	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Potassium	2.079	2340	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Silicon	0.5289	719	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Strontium	0.0735	364	N*E	J	j, d	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Titanium	0.1175	1010	NE	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Tungsten	0.0175	0.84	BE	UJ	b, j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Vanadium	0.5535	50.3	E	J	j	mg/kg
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Zirconium	0.0874	146	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Aluminum	2	8560	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Cobalt	0.064	8.2	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Copper	0.2205	22.5	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Magnesium	1.176	8450	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Manganese	0.0131	327	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Nickel	0.1295	14.7	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Potassium	2.079	1410	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Silicon	0.5289	449	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Strontium	0.0735	149	N*E	J	j, d	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Titanium	0.1175	597	NE	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Vanadium	0.5535	38.8	E	J	j	mg/kg
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Zirconium	0.0874	134	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Aluminum	2	10400	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Barium	0.152	190	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Calcium	1.028	22700	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Cobalt	0.064	9.9	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Copper	0.2205	19.6	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Iron	1.173	17400	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Magnesium	1.176	10300	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Manganese	0.0131	445	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Nickel	0.1295	18.9	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Phosphorus	1.913	1540	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Potassium	2.079	1800	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Silicon	0.5289	620	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Sodium	7.567	357	E	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Strontium	0.0735	203	N*E	J	j, d	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Titanium	0.1175	864	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Vanadium	0.5535	46.1	NE	J	j	mg/kg
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Zirconium	0.0874	145	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Aluminum	2	10200	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Barium	0.152	283	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Calcium	1.028	23000	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Cobalt	0.064	13.2	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Copper	0.2205	19.7	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Iron	1.173	17200	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Magnesium	1.176	10800	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Manganese	0.0131	766	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Nickel	0.1295	19.6	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Phosphorus	1.913	1580	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Potassium	2.079	1680	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Silicon	0.5289	555	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Sodium	7.567	399	E	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Strontium	0.0735	217	N*E	J	j, d	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Titanium	0.1175	767	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Vanadium	0.5535	48.8	NE	J	j	mg/kg
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Zirconium	0.0874	137	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Aluminum	2	12600	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Barium	0.152	264	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Calcium	1.028	35600	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Cobalt	0.064	12.2	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Copper	0.2205	21.2	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Iron	1.173	16600	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Magnesium	1.176	12700	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Manganese	0.0131	556	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Nickel	0.1295	22.7	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Phosphorus	1.913	1460	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Potassium	2.079	2080	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Silicon	0.5289	497	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Sodium	7.567	451	E	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Strontium	0.0735	229	N*E	J	j, d	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Titanium	0.1175	879	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Vanadium	0.5535	48	NE	J	j	mg/kg
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Zirconium	0.0874	151	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Aluminum	2	11200	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Barium	0.152	154	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Calcium	1.028	17900	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Cobalt	0.064	11.3	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Copper	0.2205	21.7	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Iron	1.173	14900	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Magnesium	1.176	11600	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Manganese	0.0131	465	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Nickel	0.1295	22.1	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Phosphorus	1.913	1880	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Potassium	2.079	1300	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Silicon	0.5289	428	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Sodium	7.567	329	E	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Strontium	0.0735	206	N*E	J	j, d	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Titanium	0.1175	858	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Vanadium	0.5535	56	NE	J	j	mg/kg
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Zirconium	0.0874	171	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Aluminum	2	11600	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Barium	0.152	150	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Calcium	1.028	34200	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Cobalt	0.064	8.4	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Copper	0.2205	15.4	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Magnesium	1.176	11700	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Manganese	0.0131	387	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Nickel	0.1295	15.4	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Potassium	2.079	2350	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Strontium	0.0735	159	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Titanium	0.1175	478	NE	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Vanadium	0.5535	31.6	E	J	j	mg/kg
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Zirconium	0.0874	117	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Aluminum	2	11700	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Barium	0.152	213	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Calcium	1.028	38500	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Cobalt	0.064	10.2	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Copper	0.2205	17.1	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Magnesium	1.176	13600	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Manganese	0.0131	553	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Nickel	0.1295	15.6	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Potassium	2.079	1350	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Strontium	0.0735	321	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Titanium	0.1175	545	NE	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Vanadium	0.5535	42.9	E	J	j	mg/kg
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Zirconium	0.0874	139	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Barium	0.152	142	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Calcium	1.028	49100	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Cobalt	0.064	8.8	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Copper	0.2205	17.2	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Magnesium	1.176	13500	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Manganese	0.0131	351	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Nickel	0.1295	15.2	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Potassium	2.079	879	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Strontium	0.0735	379	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Titanium	0.1175	533	NE	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Vanadium	0.5535	45.6	E	J	j	mg/kg
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Zirconium	0.0874	119	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Aluminum	2	13800	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Barium	0.152	193	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Calcium	1.028	31400	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Cobalt	0.064	10.1	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Copper	0.2205	19.2	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Magnesium	1.176	14600	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Manganese	0.0131	534	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Nickel	0.1295	19.4	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Potassium	2.079	2740	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Strontium	0.0735	163	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Titanium	0.1175	589	NE	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Vanadium	0.5535	42.1	E	J	j	mg/kg
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Zirconium	0.0874	120	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Aluminum	2	11600	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Barium	0.152	210	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Calcium	1.028	49100	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Cobalt	0.064	10.3	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Copper	0.2205	19	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Magnesium	1.176	13600	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Manganese	0.0131	478	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Nickel	0.1295	17.2	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Potassium	2.079	1310	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Strontium	0.0735	347	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Titanium	0.1175	651	NE	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Vanadium	0.5535	48	E	J	j	mg/kg
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Zirconium	0.0874	135	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Aluminum	2	10800	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Barium	0.152	202	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Calcium	1.028	45100	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Cobalt	0.064	9.9	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Copper	0.2205	16.1	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Magnesium	1.176	12700	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Manganese	0.0131	446	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Nickel	0.1295	15.2	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Potassium	2.079	898	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Strontium	0.0735	411	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Titanium	0.1175	481	NE	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Vanadium	0.5535	47.3	E	J	j	mg/kg
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Zirconium	0.0874	123	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Aluminum	2	12400	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Barium	0.152	218	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Calcium	1.028	33300	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Copper	0.2205	19.1	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Magnesium	1.176	13400	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Manganese	0.0131	562	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Nickel	0.1295	16.6	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Potassium	2.079	2400	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Strontium	0.0735	200	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Titanium	0.1175	540	NE	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Vanadium	0.5535	40.4	E	J	j	mg/kg
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Zirconium	0.0874	123	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Barium	0.152	204	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Calcium	5.14	65900	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Cobalt	0.064	9.7	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Copper	0.2205	18.8	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Magnesium	1.176	12300	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Manganese	0.0131	559	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Nickel	0.1295	16.3	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Potassium	2.079	1160	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Strontium	0.0735	320	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Titanium	0.1175	590	NE	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Tungsten	0.0175	0.88	BE	UJ	b, j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Vanadium	0.5535	47.6	E	J	j	mg/kg
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Zirconium	0.0874	134	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Aluminum	2	11600	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Barium	0.152	169	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Calcium	1.028	47000	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Cobalt	0.064	10.2	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Copper	0.2205	19.1	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Magnesium	1.176	13000	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Manganese	0.0131	432	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Nickel	0.1295	17.9	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Potassium	2.079	792	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Strontium	0.0735	394	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Titanium	0.1175	503	NE	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Tungsten	0.0175	0.67	BE	UJ	b, j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Vanadium	0.5535	46.2	E	J	j	mg/kg
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Zirconium	0.0874	124	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Aluminum	2	12600	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Barium	0.152	191	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Calcium	1.028	43200	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Cobalt	0.064	12	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Copper	0.2205	21.3	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Magnesium	1.176	14400	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Manganese	0.0131	503	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Nickel	0.1295	19.3	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Potassium	2.079	956	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Strontium	0.0735	488	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Titanium	0.1175	650	NE	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Vanadium	0.5535	59.5	E	J	j	mg/kg
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Zirconium	0.0874	124	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Aluminum	2	8080	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Barium	0.152	119	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Calcium	1.028	15800	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Cobalt	0.064	10.4	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Copper	0.2205	21	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Magnesium	1.176	10200	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Manganese	0.0131	414	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Nickel	0.1295	20.6	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Potassium	2.079	1890	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Strontium	0.0735	126	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Titanium	0.1175	683	NE	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Tungsten	0.0175	0.62	BE	UJ	b, j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Vanadium	0.5535	46.8	E	J	j	mg/kg
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Zirconium	0.0874	141	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Aluminum	2	6800	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Barium	0.152	140	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Calcium	1.028	17100	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Copper	0.2205	20.3	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Magnesium	1.176	8200	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Manganese	0.0131	430	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Nickel	0.1295	19.5	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Strontium	0.0735	135	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Titanium	0.1175	673	NE	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Vanadium	0.5535	43.6	E	J	j	mg/kg
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Zirconium	0.0874	148	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Aluminum	2	8440	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Barium	0.152	154	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Calcium	1.028	32300	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Copper	0.2205	20.9	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Magnesium	1.176	11600	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Manganese	0.0131	382	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Nickel	0.1295	20.2	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Potassium	2.079	1350	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Strontium	0.0735	211	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Titanium	0.1175	657	NE	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Vanadium	0.5535	40.5	E	J	j	mg/kg
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Zirconium	0.0874	145	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Aluminum	2	6360	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Barium	0.152	117	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Calcium	1.028	14600	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Cobalt	0.064	9	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Copper	0.2205	18.5	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Magnesium	1.176	8370	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Manganese	0.0131	438	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Nickel	0.1295	15.8	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Strontium	0.0735	97.7	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Titanium	0.1175	509	NE	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Tungsten	0.0175	0.78	BE	UJ	b, j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Vanadium	0.5535	34.7	E	J	j	mg/kg
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Zirconium	0.0874	132	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Aluminum	2	8100	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Barium	0.152	254	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Calcium	1.028	28700	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Cobalt	0.064	14.8	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Copper	0.2205	22.9	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Magnesium	1.176	10400	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Manganese	0.0131	863	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Nickel	0.1295	19.7	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Potassium	2.079	1350	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Strontium	0.0735	158	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Titanium	0.1175	600	NE	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Vanadium	0.5535	41.6	E	J	j	mg/kg
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Zirconium	0.0874	157	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Aluminum	2	7270	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Barium	0.152	203	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Calcium	1.028	21500	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Cobalt	0.064	8.1	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Copper	0.2205	17.1	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Magnesium	1.176	9540	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Manganese	0.0131	605	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Nickel	0.1295	16	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Potassium	2.079	1140	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Strontium	0.0735	160	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Titanium	0.1175	473	NE	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Vanadium	0.5535	33.4	E	J	j	mg/kg
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Zirconium	0.0874	158	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Aluminum	2	6820	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Barium	0.152	127	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Calcium	1.028	17600	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Copper	0.2205	19	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Magnesium	1.176	8590	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Manganese	0.0131	434	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Nickel	0.1295	18.1	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Potassium	2.079	1580	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Strontium	0.0735	119	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Titanium	0.1175	618	NE	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Tungsten	0.0175	0.71	BE	UJ	b, j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Vanadium	0.5535	47	E	J	j	mg/kg
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Zirconium	0.0874	132	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Aluminum	2	8010	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Barium	0.152	118	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Calcium	1.028	19900	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Cobalt	0.064	9.1	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Copper	0.2205	19.7	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Magnesium	1.176	9440	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Manganese	0.0131	350	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Nickel	0.1295	19.5	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Potassium	2.079	1480	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Strontium	0.0735	159	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Titanium	0.1175	531	NE	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Tungsten	0.0175	0.7	BE	UJ	b, j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Vanadium	0.5535	37	E	J	j	mg/kg
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Zirconium	0.0874	149	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Aluminum	2	8250	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Barium	0.152	139	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Calcium	1.028	28800	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Cobalt	0.064	9.2	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Copper	0.2205	20.4	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Magnesium	1.176	11500	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Manganese	0.0131	390	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Nickel	0.1295	19.3	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Potassium	2.079	1250	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Strontium	0.0735	177	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Titanium	0.1175	621	NE	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Tungsten	0.0175	0.74	BE	UJ	b, j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Vanadium	0.5535	39.4	E	J	j	mg/kg
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Zirconium	0.0874	142	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Aluminum	2	12200	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Barium	0.152	230	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Calcium	1.028	16600	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Copper	0.2205	16.6	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Magnesium	1.176	11400	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Manganese	0.0131	498	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Nickel	0.1295	16.4	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Potassium	2.079	2760	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Strontium	0.0735	105	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Titanium	0.1175	550	NE	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Tungsten	0.0175	0.49	BE	UJ	b, j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Vanadium	0.5535	36.1	E	J	j	mg/kg
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Zirconium	0.0874	112	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Aluminum	2	8400	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Arsenic	0.1278	6.1	E	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Calcium	1.028	30000	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Lead	0.0506	10.9	E	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Magnesium	1.176	8240	E	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Vanadium	0.5535	41.1	NE	J	j	mg/kg
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Zirconium	0.0874	132	NE	J-	j, e	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Aluminum	2	9880	NE	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Arsenic	0.1278	3.3	E	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Calcium	1.028	22800	NE	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Lead	0.0506	6.8	E	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Magnesium	1.176	10900	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Vanadium	0.5535	45.1	NE	J	j	mg/kg
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Zirconium	0.0874	103	NE	J-	j, e	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Aluminum	2	13900	NE	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Arsenic	0.1278	5.4	E	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Calcium	1.028	20400	NE	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Lead	0.0506	11.5	E	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Magnesium	1.176	14200	E	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Vanadium	0.5535	44.9	NE	J	j	mg/kg
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Zirconium	0.0874	121	NE	J-	j, e	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Aluminum	2	5090	NE	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Arsenic	0.1278	3.4	E	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Calcium	1.028	27200	NE	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Lead	0.0506	4.9	E	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Magnesium	1.176	5470	E	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Vanadium	0.5535	25.5	NE	J	j	mg/kg
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Zirconium	0.0874	105	NE	J-	j, e	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Aluminum	2	5570	NE	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Arsenic	0.1278	5.1	E	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Calcium	1.028	47300	NE	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Lead	0.0506	4.5	E	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Magnesium	1.176	8910	E	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Vanadium	0.5535	30.5	NE	J	j	mg/kg
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Zirconium	0.0874	106	NE	J-	j, e	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Aluminum	2	11400	NE	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Arsenic	0.1278	5.3	E	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Calcium	1.028	24600	NE	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Lead	0.0506	11.8	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Magnesium	1.176	12700	E	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Vanadium	0.5535	34.1	NE	J	j	mg/kg
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Zirconium	0.0874	112	NE	J-	j, e	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Aluminum	2	6670	NE	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Arsenic	0.1278	4.4	E	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Calcium	1.028	29600	NE	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Lead	0.0506	6.2	E	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Magnesium	1.176	6370	E	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Vanadium	0.5535	33.5	NE	J	j	mg/kg
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Zirconium	0.0874	117	NE	J-	j, e	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Aluminum	2	13100	NE	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Arsenic	0.1278	7.2	E	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Calcium	1.028	43200	NE	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Lead	0.0506	10.1	E	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Magnesium	1.176	14400	E	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Tungsten	0.0175	1.9	BE	UJ	b, j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Vanadium	0.5535	41.9	NE	J	j	mg/kg
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Zirconium	0.0874	118	NE	J-	j, e	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Aluminum	2	7190	NE	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Arsenic	0.1278	5.2	E	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Calcium	5.14	82800	NE	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Lead	0.0506	5.9	E	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Magnesium	1.176	9370	E	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Vanadium	0.5535	32.6	NE	J	j	mg/kg
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Zirconium	0.0874	108	NE	J-	j, e	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Aluminum	2	9210	NE	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Arsenic	0.1278	4.1	E	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Calcium	1.028	42500	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Lead	0.0506	6	E	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Magnesium	1.176	11000	E	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Vanadium	0.5535	44.9	NE	J	j	mg/kg
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Zirconium	0.0874	94.9	NE	J-	j, e	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Aluminum	2	11200	NE	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Arsenic	0.1278	6.4	E	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Calcium	1.028	26500	NE	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Lead	0.0506	12.2	E	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Magnesium	1.176	11600	E	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Vanadium	0.5535	36.7	NE	J	j	mg/kg
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Zirconium	0.0874	120	NE	J-	j, e	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Aluminum	2	7890	NE	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Arsenic	0.1278	5.6	E	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Calcium	5.14	71900	NE	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Lead	0.0506	7.3	E	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Magnesium	1.176	10600	E	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Vanadium	0.5535	33.8	NE	J	j	mg/kg
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Zirconium	0.0874	113	NE	J-	j, e	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Arsenic	0.1278	5.4	E	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Calcium	1.028	44600	NE	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Lead	0.0506	6.3	E	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Magnesium	1.176	13500	E	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Vanadium	0.5535	51.8	NE	J	j	mg/kg
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Zirconium	0.0874	107	NE	J-	j, e	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Aluminum	2	6980	NE	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Arsenic	0.1278	4.2	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Calcium	1.028	19300	NE	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Lead	0.0506	7.5	E	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Magnesium	1.176	7380	E	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Tungsten	0.0175	0.77	BE	UJ	b, j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Vanadium	0.5535	23.6	NE	J	j	mg/kg
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Zirconium	0.0874	99.3	NE	J-	j, e	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Aluminum	2	6530	NE	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Arsenic	0.1278	3	E	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Calcium	1.028	13500	NE	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Lead	0.0506	6.6	E	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Magnesium	1.176	4690	E	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Vanadium	0.5535	30.8	NE	J	j	mg/kg
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Aluminum	2	6420	NE	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Arsenic	0.1278	3.4	E	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Calcium	1.028	20000	NE	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Lead	0.0506	6	E	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Magnesium	1.176	5530	E	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Vanadium	0.5535	34.6	NE	J	j	mg/kg
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Zirconium	0.0874	125	NE	J-	j, e	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Aluminum	2	9620	NE	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Arsenic	0.1278	6.3	E	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Calcium	1.028	30200	NE	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Lead	0.0506	9.2	E	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Magnesium	1.176	10000	E	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Vanadium	0.5535	36	NE	J	j	mg/kg
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Zirconium	0.0874	130	NE	J-	j, e	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Aluminum	2	7650	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Arsenic	0.1278	3.6	E	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Calcium	1.028	13000	NE	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Lead	0.0506	6.8	E	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Magnesium	1.176	5670	E	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Vanadium	0.5535	39.9	NE	J	j	mg/kg
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Zirconium	0.0874	138	NE	J-	j, e	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Aluminum	2	6560	NE	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Arsenic	0.1278	3.9	E	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Calcium	1.028	26500	NE	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Lead	0.0506	5.7	E	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Magnesium	1.176	5640	E	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Vanadium	0.5535	33.9	NE	J	j	mg/kg
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Zirconium	0.0874	126	NE	J-	j, e	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Aluminum	2	10800	NE	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Arsenic	0.1278	5.9	E	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Calcium	1.028	30100	NE	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Lead	0.0506	9	E	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Magnesium	1.176	10200	E	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Tungsten	0.0175	1.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Vanadium	0.5535	34.2	NE	J	j	mg/kg
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Zirconium	0.0874	134	NE	J-	j, e	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Cobalt	0.064	5.7	E	J	j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Manganese	0.0131	270	NE	J	j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Nickel	0.1295	10	E	J	j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Tungsten	0.0175	1.5	BE	UJ	b, j	mg/kg
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Vanadium	0.5535	30.5	E	J	j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Cobalt	0.064	7	E	J	j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Manganese	0.0131	339	NE	J	j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Nickel	0.1295	12.8	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Tungsten	0.0175	2.1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Vanadium	0.5535	36.6	E	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Cobalt	0.064	8.1	E	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Manganese	0.0131	464	NE	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Nickel	0.1295	17.1	E	J	j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Tungsten	0.0175	1.7	BE	UJ	b, j	mg/kg
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Vanadium	0.5535	40.6	E	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Cobalt	0.064	6.6	E	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Manganese	0.0131	304	NE	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Nickel	0.1295	13.2	E	J	j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Tungsten	0.0175	2.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Vanadium	0.5535	36.2	E	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Cobalt	0.064	11.6	E	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Manganese	0.0131	468	NE	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Nickel	0.1295	10.4	E	J	j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Vanadium	0.5535	29	E	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Cobalt	0.064	4.8	E	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Manganese	0.0131	198	NE	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Nickel	0.1295	9.7	E	J	j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Vanadium	0.5535	28.1	E	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Cobalt	0.064	7.5	E	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Manganese	0.0131	430	NE	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Nickel	0.1295	15	E	J	j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Tungsten	0.0175	1.2	BE	UJ	b, j	mg/kg
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Vanadium	0.5535	34.5	E	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Cobalt	0.064	6	E	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Manganese	0.0131	270	NE	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Nickel	0.1295	10.6	E	J	j	mg/kg
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Vanadium	0.5535	34.1	E	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Cobalt	0.064	4.4	E	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Manganese	0.0131	191	NE	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Nickel	0.1295	10.1	E	J	j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Tungsten	0.0175	1	BE	UJ	b, j	mg/kg
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Vanadium	0.5535	28.3	E	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Cobalt	0.064	9.3	E	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Manganese	0.0131	495	NE	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Nickel	0.1295	17.6	E	J	j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Tungsten	0.0175	0.95	BE	UJ	b, j	mg/kg
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Vanadium	0.5535	35.5	E	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Cobalt	0.064	6.2	E	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Manganese	0.0131	321	NE	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Nickel	0.1295	11.6	E	J	j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Tungsten	0.0175	1.8	BE	UJ	b, j	mg/kg
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Vanadium	0.5535	31.1	E	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Cobalt	0.064	4.7	E	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Manganese	0.0131	169	NE	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Nickel	0.1295	11.5	E	J	j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Tungsten	0.0175	1.6	BE	UJ	b, j	mg/kg
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Vanadium	0.5535	28.8	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Aluminum	2	5530	NE	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Barium	0.152	424	NE	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Cobalt	0.064	5.4	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Magnesium	1.176	5450	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Nickel	0.1295	11.4	E	J	j	mg/kg
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Potassium	2.079	1520	E	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Aluminum	2	5480	NE	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Barium	0.152	436	NE	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Cobalt	0.064	6.5	E	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Magnesium	1.176	4930	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Nickel	0.1295	11.2	E	J	j	mg/kg
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Potassium	2.079	1580	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Aluminum	2	6180	NE	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Barium	0.152	697	NE	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Cobalt	0.064	12.3	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Magnesium	1.176	5920	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Nickel	0.1295	12.6	E	J	j	mg/kg
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Potassium	2.079	1380	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Aluminum	2	8220	NE	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Barium	0.152	185	NE	J+	j, e	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Cobalt	0.064	9.4	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Magnesium	1.176	10300	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Nickel	0.1295	17.8	E	J	j	mg/kg
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Potassium	2.079	1830	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Aluminum	2	6520	NE	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Barium	0.152	138	NE	J+	j, e	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Cobalt	0.064	7.7	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Magnesium	1.176	9410	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Nickel	0.1295	13.7	E	J	j	mg/kg
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Potassium	2.079	982	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Aluminum	2	8470	NE	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Barium	0.152	166	NE	J+	j, e	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Cobalt	0.064	7.9	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Magnesium	1.176	16600	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Nickel	0.1295	16.6	E	J	j	mg/kg
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Potassium	2.079	1170	E	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Aluminum	2	3740	NE	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Barium	0.152	82.5	NE	J+	j, e	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Cobalt	0.064	3.7	E	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Magnesium	1.176	5960	E	J	j	mg/kg
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Nickel	0.1295	7.9	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Potassium	2.079	1160	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Aluminum	2	5230	NE	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Barium	0.152	114	NE	J+	j, e	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Cobalt	0.064	5.4	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Magnesium	1.176	5070	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Nickel	0.1295	9.2	E	J	j	mg/kg
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Potassium	2.079	1720	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Aluminum	2	10300	NE	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Barium	0.152	162	NE	J+	j, e	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Cobalt	0.064	6.8	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Magnesium	1.176	14000	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Nickel	0.1295	15	E	J	j	mg/kg
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Potassium	2.079	3150	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Aluminum	2	4130	NE	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Barium	0.152	102	NE	J+	j, e	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Cobalt	0.064	3.9	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Magnesium	1.176	6680	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Nickel	0.1295	8	E	J	j	mg/kg
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Potassium	2.079	1310	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Aluminum	2	6300	NE	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Barium	0.152	604	NE	J+	j, e	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Cobalt	0.064	9.8	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Magnesium	1.176	6650	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Nickel	0.1295	13.8	E	J	j	mg/kg
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Potassium	2.079	1840	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Aluminum	2	4840	NE	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Barium	0.152	346	NE	J+	j, e	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Cobalt	0.064	6	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Magnesium	1.176	5100	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Nickel	0.1295	11.3	E	J	j	mg/kg
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Potassium	2.079	1240	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Aluminum	2	6150	NE	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Barium	0.152	836	NE	J+	j, e	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Cobalt	0.064	5.4	E	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Magnesium	1.176	5240	E	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Nickel	0.1295	11.2	E	J	j	mg/kg
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Potassium	2.079	1380	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Aluminum	2	6240	NE	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Barium	0.152	369	NE	J+	j, e	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Cobalt	0.064	6.1	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Magnesium	1.176	6880	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Nickel	0.1295	12.1	E	J	j	mg/kg
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Potassium	2.079	1840	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Aluminum	2	5090	NE	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Barium	0.152	395	NE	J+	j, e	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Cobalt	0.064	5.1	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Magnesium	1.176	4580	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Nickel	0.1295	10	E	J	j	mg/kg
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Aluminum	2	6370	NE	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Barium	0.152	573	NE	J+	j, e	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Cobalt	0.064	5.2	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Magnesium	1.176	5340	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Nickel	0.1295	8.9	E	J	j	mg/kg
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Potassium	2.079	1240	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Aluminum	2	7500	NE	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Barium	0.152	122	NE	J+	j, e	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Cobalt	0.064	8.8	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Magnesium	1.176	9190	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Nickel	0.1295	17.5	E	J	j	mg/kg
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Potassium	2.079	1940	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Aluminum	2	5660	NE	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Barium	0.152	77.2	NE	J+	j, e	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Cobalt	0.064	8.1	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Magnesium	1.176	7000	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Nickel	0.1295	16.4	E	J	j	mg/kg
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Potassium	2.079	872	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Aluminum	2	6530	NE	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Barium	0.152	118	NE	J+	j, e	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Cobalt	0.064	8.9	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Magnesium	1.176	8910	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Nickel	0.1295	17.6	E	J	j	mg/kg
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Potassium	2.079	918	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Aluminum	2	7820	NE	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Barium	0.152	141	NE	J+	j, e	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Cobalt	0.064	9.5	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Magnesium	1.176	8970	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Nickel	0.1295	18.8	E	J	j	mg/kg
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Potassium	2.079	1870	E	J	j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Tungsten	0.0175	0.64	BE	UJ	b, j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Vanadium	0.5535	29.2	E	J	j	mg/kg
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Zirconium	0.0874	135	E	J	j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Tungsten	0.0175	0.51	BE	UJ	b, j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Vanadium	0.5535	36.9	E	J	j	mg/kg
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Zirconium	0.0874	129	E	J	j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Tungsten	0.0175	1.4	BE	UJ	b, j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Vanadium	0.5535	32.5	E	J	j	mg/kg
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Zirconium	0.0874	140	E	J	j	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Tungsten	0.0175	0.99	BE	UJ	b, j	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Vanadium	0.5535	21.8	E	J	j	mg/kg
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Zirconium	0.0874	152	E	J	j	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Tungsten	0.0175	0.89	BE	UJ	b, j	mg/kg
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Vanadium	0.5535	38.9	E	J	j	mg/kg

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Zirconium	0.0874	152	E	J	j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Tungsten	0.0175	0.93	BE	UJ	b, j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Vanadium	0.5535	32.5	E	J	j	mg/kg
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Zirconium	0.0874	109	E	J	j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Tungsten	0.0175	0.75	BE	UJ	b, j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Vanadium	0.5535	36.4	E	J	j	mg/kg
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Zirconium	0.0874	117	E	J	j	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Tungsten	0.0175	0.87	BE	UJ	b, j	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Vanadium	0.5535	40.3	E	J	j	mg/kg
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Zirconium	0.0874	103	E	J	j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Tungsten	0.0175	0.97	BE	UJ	b, j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Vanadium	0.5535	46.8	E	J	j	mg/kg
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Zirconium	0.0874	118	E	J	j	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Tungsten	0.0175	2	BE	UJ	b, j	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Vanadium	0.5535	38	E	J	j	mg/kg
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Zirconium	0.0874	116	E	J	j	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Tungsten	0.0175	1.3	BE	UJ	b, j	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Vanadium	0.5535	35.6	E	J	j	mg/kg
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Zirconium	0.0874	86.1	E	J	j	mg/kg

Notes:

+ Result is possibly biased high
- Result is possibly biased low
* Laboratory qualification due to poor duplicate precision
b Qualified due to blank contamination
B Reported value is greater than the SQL, but less than the PQL
d Qualified due to poor duplicate precision
e Qualified due to matrix spike or laboratory control sample issues
E Estimated due to possible matrix interference
j Qualified because result is greater than the SQL, but less than the PQL

TABLE 11 (CONTINUED)
OTHER STABLE CHEMISTRY QUALIFICATIONS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

J	Result is estimated
mg/kg	Milligram per kilogram
MDC	Minimum detectable concentration
N	Analyte identification is tentative
pCi/g	PicoCurie per gram
PQL	Practical quantitation limit
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit
U	Undetected
UJ	Undetected with estimated quantitation limit

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 12
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Radium 228	0.69	1.35 J	U	k, b	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Thorium 230	0.05	0.95 J	J	k	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium 238	0.07	0.82 J	J	k	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.165	0.635 J	J	k, n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 226	0.165	0.635 J	J	k, n	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Radium 228	0.687	1.91 J	U	k, b	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Thorium 230	0.1	0.81 J	J	k	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Uranium 235	0.081	0.087 J	J	k	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Uranium 238	0.06	0.85 J	J	k	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Radium 228	0.588	1.46 J	U	k, b	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Thorium 230	0.07	0.88 J	J	k	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium 235	0.04	0.059 J	J	k	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Uranium 238	0.05	0.77 J	J	k	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.215	0.577 J	J	k, n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 226	0.215	0.577 J	J	k, n	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Radium 228	0.648	1.59 J	U	k, b	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Thorium 230	0.1	0.92 J	J	k	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Uranium 235	0.038	0.043 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.196	0.494 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 226	0.196	0.494 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 228	0.764	1.6 J	R	k, e	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Thorium 230	0.06	0.86 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Uranium 235	0.041	0.061 J	J	k	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Uranium 238	0.06	0.84 J	J	k	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.134	0.817 J	J	k, n	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 226	0.134	0.817 J	J	k, n	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Radium 228	0.597	1.47 J	U	k, b	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.143	0.925 J	J	k	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Radium 226	0.143	0.925 J	J	k	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Radium 228	0.446	0.946 J	U	k, b	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Thorium 230	0.1	0.92 J	J	k	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Uranium 235	0.096	0.101 J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.124	0.877 J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Radium 226	0.124	0.877 J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Radium 228	0.487	1.11 J	U	k, b	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thorium 230	0.07	0.91 J	J	k	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Uranium 235	0.063	0.101 J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.214	0.595 J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Radium 226	0.214	0.595 J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Radium 228	0.495	1.82 J	U	k, b	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Thorium 230	0.08	0.82 J	J	k	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Uranium 238	0.09	0.81 J	J	k	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.185	0.507 J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Radium 226	0.185	0.507 J	J	k, n	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Thorium 230	0.05	0.98 J	J	k	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.138	0.893 J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 226	0.138	0.893 J	J	k, n	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Radium 228	0.463	1.78 J	U	k, b	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Thorium 230	0.1	0.77 J	J	k	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0936	0.714 J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Radium 226	0.0936	0.714 J	J	k, n	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Thorium 230	0.1	0.93 J	J	k	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Radium 228	0.537	1.5 J	U	k, b	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Uranium 235	0.045	0.083 J	J	k	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.136	0.879 J	J	k	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Radium 226	0.136	0.879 J	J	k	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Radium 228	0.443	1.86 J	U	k, b	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Uranium 235	0.042	0.124 J	J	k	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Radium 228	0.846	1.92 J	J	k	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Thorium 230	0.08	0.93 J	J	k	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Uranium 235	0.048	0.054 J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0975	0.792 J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Radium 226	0.0975	0.792 J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Radium 228	0.847	1.7 J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Thorium 230	0.08	0.92 J	J	k	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Uranium 238	0.1	0.65 J	J	k	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.172	0.865 J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Radium 226	0.172	0.865 J	J	k, n	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Radium 228	0.85	1.44 J	J	k	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Uranium 235	0.1	0.12 J	J	k	pCi/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Radium 228	0.76	1.73 J	J	k	pCi/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Uranium 235	0.077	0.087 J	J	k	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.188	0.784 J	J	k	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Radium 226	0.188	0.784 J	J	k	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Radium 228	0.705	1.66 J	J	k	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Uranium 238	0.08	0.93 J	J	k	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Radium 228	0.649	1.97 J	J	k	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium 235	0.036	0.054 J	J	k	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Uranium 238	0.05	0.69 J	J	k	pCi/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Uranium 238	0.05	0.78 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0996	0.97 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Radium 226	0.0996	0.97 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Radium 228	0.621	1.37 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Thorium 230	0.09	0.75 J	J	k	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Uranium 238	0.07	0.87 J	J	k	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.139	0.938 J	J	k	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Radium 226	0.139	0.938 J	J	k	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Uranium 238	0.09	0.94 J	J	k	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Radium 228	0.821	1.69 J	J	k	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Radium 228	0.72	1.74 J	J	k	pCi/g
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Radium 228	0.66	1.85 J	J	k	pCi/g
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0952	0.984 J	J	k	pCi/g
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Radium 226	0.0952	0.984 J	J	k	pCi/g
F5F170373	F5F170373006	BRC-BKG-06B-9-11	Soil	Radium 228	0.577	1.86 J	J	k	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.127	0.693 J	J	k	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Radium 226	0.127	0.693 J	J	k	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Radium 228	0.556	1.97 J	J	k	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0558	0.807 J	J	k, n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Radium 226	0.0558	0.807 J	J	k, n	pCi/g
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Radium 228	0.552	1.15 J	J	k	pCi/g
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Radium 228	0.515	1.68 J	J	k	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.0838	0.89 J	J	k	pCi/g
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Radium 226	0.0838	0.89 J	J	k	pCi/g
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.125	0.833 J	J	k	pCi/g
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Radium 226	0.125	0.833 J	J	k	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.153	0.96 J	J	k	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Radium 226	0.153	0.96 J	J	k	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Radium 228	0.705	1.95 J	J	k	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.141	0.987 J	J	k	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Radium 226	0.141	0.987 J	J	k	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Radium 228	0.627	1.3 J	J	k	pCi/g
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Radium 228	0.706	1.93 J	J	k	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.186	0.968 J	J	k	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Radium 226	0.186	0.968 J	J	k	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Radium 228	0.415	1.67 J	J	k	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	0.773 J	J	k	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Radium 226	0.128	0.773 J	J	k	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Radium 228	0.492	1.49 J	J	k	pCi/g
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Radium 228	0.492	1.42 J	J	k	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Uranium 238	0.08	0.77 J	J	k	pCi/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Uranium 235	0.05	0.12 J	J	k	pCi/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Radium 228	0.533	1.67 J	J	k	pCi/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Uranium 235	0.039	0.043 J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.11	0.968 J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Radium 226	0.11	0.968 J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Radium 228	0.548	1.28 J	J	k	pCi/g

TABLE 12 (CONTINUED)
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium 235	0.037	0.042 J	J	k	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Uranium 238	0.05	0.78 J	J	k	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Radium 228	0.583	1.83 J	J	k	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Radium 228	0.557	1.41 J	J	k	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Uranium 238	0.1	0.92 J	J	k	pCi/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Radium 228	0.624	1.3 J	J	k	pCi/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Uranium 235	0.068	0.093 J	J	k	pCi/g
F5F180132	F5F180132008	BRC-BKG-07A-9-11	Soil	Uranium 235	0.038	0.126 J	J	k	pCi/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Uranium 235	0.066	0.089 J	J	k	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Radium 228	0.62	1.34 J	J	k	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Uranium 235	0.03	0.21 J	J	k	pCi/g
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Uranium 235	0.051	0.076 J	J	k	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.186	0.945 J	J	k, n	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Radium 226	0.186	0.945 J	J	k, n	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.156	0.965 J	J	k	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Radium 226	0.156	0.965 J	J	k	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Uranium 238	0.09	0.99 J	J	k	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Radium 228	0.572	1.91 J	J	k	pCi/g
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Radium 228	0.636	1.61 J	J	k	pCi/g
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Uranium 238	0.07	0.74 J	J	k	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.152	0.952 J	J	k, n	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Radium 226	0.152	0.952 J	J	k, n	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Radium 228	0.49	1.96 J	J	k	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Uranium 238	0.05	0.98 J	J	k	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Radium 228	0.489	1.75 J	J	k	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Uranium 235	0.042	0.077 J	J	k	pCi/g
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Thorium 230	0.09	0.99 J	J	k	pCi/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Radium 228	0.443	1.85 J	J	k	pCi/g

TABLE 12 (CONTINUED)
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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Uranium 235	0.1	0.13 J	J	k	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Uranium 235	0.094	0.099 J	J	k	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium 235	0.072	0.098 J	J	k	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Uranium 238	0.04	0.83 J	J	k	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Uranium 238	0.08	0.98 J	J	k	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Uranium 235	0.1	0.13 J	J	k	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.119	0.63 J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 226	0.119	0.63 J	U	k, b	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thorium 230	0.1	0.72 J	J	k	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium 235	0.049	0.054 J	J	k	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Uranium 238	0.08	0.59 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.108	0.637 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Radium 226	0.108	0.637 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Thorium 230	0.07	0.87 J	J	k	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Uranium 238	0.06	0.66 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.161	0.583 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Radium 226	0.161	0.583 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Thorium 230	0.1	0.66 J	J	k	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Uranium 238	0.09	0.76 J	J	k	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Uranium 235	0.1	0.13 J	J	k	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Thorium 230	0.06	0.8 J	J	k	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.279	0.855 J	J	k	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 226	0.279	0.855 J	J	k	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 228	0.574	1.86 J	R	k, e	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Uranium 238	0.09	0.88 J	J	k	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Radium 228	0.78	1.94 J	R	k, e	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Uranium 235	0.04	0.17 J	J	k	pCi/g

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SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.188	0.835 J	J	k	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 226	0.188	0.835 J	J	k	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 228	0.6	1.8 J	R	k, e	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium 235	0.07	0.13 J	J	k	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Uranium 238	0.12	0.94 J	J	k	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.197	0.756 J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Radium 226	0.197	0.756 J	U	k, b	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Thorium 230	0.06	0.84 J	J	k	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Uranium 238	0.08	0.82 J	J	k	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.174	0.784 J	J	k, n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 226	0.174	0.784 J	J	k, n	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 228	0.666	1.71 J	R	k, e	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Thorium 230	0.07	0.78 J	J	k	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Uranium 238	0.08	0.58 J	J	k	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.226	0.872 J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Radium 226	0.226	0.872 J	U	k, b	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Thorium 230	0.09	0.78 J	J	k	pCi/g
F5F210233	F5F210233014	BRC-BKG-12B-0-0.5	Soil	Uranium 238	0.12	0.57 J	J	k	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.239	0.592 J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Radium 226	0.239	0.592 J	U	k, b	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium 235	0.068	0.076 J	J	k	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Uranium 238	0.03	0.64 J	J	k	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.173	0.926 J	J	k, n	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 226	0.173	0.926 J	J	k, n	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 228	0.67	1.52 J	R	k, e	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Thorium 230	0.05	0.82 J	J	k	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Uranium 238	0.08	0.81 J	J	k	pCi/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Uranium 238	0.03	0.89 J	J	k	pCi/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Uranium 235	0.036	0.053 J	J	k	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Thorium 230	0.08	0.97 J	J	k	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium 235	0.033	0.037 J	J	k	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Uranium 238	0.03	0.94 J	J	k	pCi/g
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Thorium 230	0.03	0.73 J	J	k	pCi/g
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Uranium 238	0.09	0.94 J	J	k	pCi/g
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Uranium 238	0.04	0.97 J	J	k	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.176	0.978 J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Radium 226	0.176	0.978 J	U	k, b	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 230	0.06	0.98 J	J	k	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.104	0.977 J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 226	0.104	0.977 J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Radium 228	0.452	1.93 J	U	k, b	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Thorium 230	0.05	0.94 J	J	k	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Uranium 238	0.07	0.96 J	J	k	pCi/g

TABLE 12 (CONTINUED)
RADIOCHEMISTRY QUANTIFICATION ISSUES
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.128	0.939 J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Radium 226	0.128	0.939 J	U	k, b	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium 235	0.081	0.087 J	J	k	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Uranium 238	0.06	0.89 J	J	k	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Polonium 218 (assumes equilibrium w/ Ra-226)	0.143	0.999 J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 226	0.143	0.999 J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Radium 228	0.44	1.34 J	U	k, b	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Uranium 235	0.041	0.06 J	J	k	pCi/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Uranium 235	0.039	0.058 J	J	k	pCi/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Uranium 238	0.06	0.95 J	J	k	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Radium 228	0.69	1.68 J	U	k, e, b	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Uranium 235	0.1	0.18 J	J	k	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Radium 228	0.766	2 J	U	k, e, b	pCi/g
F5F210233	F5F210233035	BRC-BKG-11B-9-11	Soil	Radium 228	0.752	1.55 J	U	k, e, b	pCi/g

Notes:

+	Result is possibly biased high
-	Result is possibly biased low
b	Qualified due to blank contamination
e	Qualified due to poor MS or LCS
J	Result is estimated
k	Qualified because result is greater than the MDC but less than the required reporting limit
LCS	Laboratory control sample
MDC	Minimum detectable concentration
MS	Matrix spike
n	Qualified due to poor tracer yield
pCi/g	PicoCurie per gram
RL	Reporting limit
SDG	Sample delivery group

1 The RL represents the MDC for radionuclides.

TABLE 13
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Thorium 232	0.86	1.24	X	1	pCi/g
F5F160308	F5F160308002	BRC-BKG-04B-9-11	Soil	Thorium 232	0.84	1.85	X	1	pCi/g
F5F160308	F5F160308004	BRC-BKG-04A-0-0.5	Soil	Thorium 232	0.86	1.69	X	1	pCi/g
F5F160308	F5F160308005	BRC-BKG-04A-4-6	Soil	Thorium 232	0.73	1.61	X	1	pCi/g
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Thorium 232	0.96	1.85	X	1	pCi/g
F5F160308	F5F160308007	BRC-BKG-04C-4-6	Soil	Thorium 232	0.86	1.32	X	1	pCi/g
F5F160308	F5F160308008	BRC-BKG-04C-9-11	Soil	Thorium 232	0.83	1.86	X	1	pCi/g
F5F160308	F5F160308009	BRC-BKG-09B-0-0.5	Soil	Thorium 232	0.73	1.29	X	1	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	Thorium 232	0.86	1.99	X	1	pCi/g
F5F160308	F5F160308011	BRC-BKG-04A-9-11	Soil	Thorium 232	0.82	1.43	X	1	pCi/g
F5F160308	F5F160308012	BRC-BKG-04B-0-0.5	Soil	Thorium 232	1	1.22	X	1	pCi/g
F5F160308	F5F160308013	BRC-BKG-05A-0-0.5	Soil	Thorium 232	0.73	1.29	X	1	pCi/g
F5F160308	F5F160308014	BRC-BKG-05A-4-6	Soil	Thorium 232	1.2	1.98	X	1	pCi/g
F5F160308	F5F160308015	BRC-BKG-05B-0-0.5	Soil	Thorium 232	0.59	2.36	X	1	pCi/g
F5F160308	F5F160308016	BRC-BKG-05C-0-0.5	Soil	Thorium 232	0.92	1.97	X	1	pCi/g
F5F160308	F5F160308017	BRC-BKG-09A-0-0.5	Soil	Thorium 232	0.83	1.16	X	1	pCi/g
F5F160308	F5F160308018	BRC-BKG-09A-4-6	Soil	Thorium 232	0.77	1.91	X	1	pCi/g
F5F160308	F5F160308019	BRC-BKG-09A-9-11	Soil	Thorium 232	0.71	1.93	X	1	pCi/g
F5F160308	F5F160308020	BRC-BKG-09B-4-6	Soil	Thorium 232	1	1.17	X	1	pCi/g
F5F160308	F5F160308021	BRC-BKG-09B-9-11	Soil	Thorium 232	0.52	2.34	X	1	pCi/g
F5F160308	F5F160308022	BRC-BKG-09C-0-0.5	Soil	Thorium 232	0.72	2.42	X	1	pCi/g
F5F160308	F5F160308023	BRC-BCG-09C-0-0.5	Soil	Thorium 232	0.73	1.43	X	1	pCi/g
F5F160308	F5F160308024	BRC-BKG-09C-4-6	Soil	Thorium 232	0.89	1.2	X	1	pCi/g
F5F160308	F5F160308025	BRC-BKG-09C-9-11	Soil	Thorium 232	1	1.65	X	1	pCi/g
F5F170373	F5F170373001	BRC-BKG-06A-0-0.5	Soil	Thorium 232	1.2	2.16	X	1	pCi/g
F5F170373	F5F170373002	BRC-BKG-06A-4-6	Soil	Thorium 232	0.87	1.66	X	1	pCi/g
F5F170373	F5F170373003	BRC-BKG-06A-9-11	Soil	Thorium 232	0.97	1.53	X	1	pCi/g
F5F170373	F5F170373004	BRC-BKG-06B-0-0.5	Soil	Thorium 232	0.81	1.84	X	1	pCi/g
F5F170373	F5F170373005	BRC-BKG-06B-4-6	Soil	Thorium 232	0.73	1.47	X	1	pCi/g
F5F170373	F5F170373007	BRC-BKG-06C-0-0.5	Soil	Thorium 232	0.91	1.77	X	1	pCi/g

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F170373	F5F170373008	BRC-BKG-06C-4-6	Soil	Thorium 232	0.97	1.04	X	l	pCi/g
F5F170373	F5F170373009	BRC-BKG-06C-8-12	Soil	Thorium 232	0.93	1.27	X	l	pCi/g
F5F170373	F5F170373010	BRC-BCG-06C-8-12	Soil	Thorium 232	0.77	1.53	X	l	pCi/g
F5F170373	F5F170373011	BRC-BKG-08A-0-0.5	Soil	Thorium 232	1.2	2.09	X	l	pCi/g
F5F170373	F5F170373012	BRC-BKG-08A-4-6	Soil	Thorium 232	0.58	1.93	X	l	pCi/g
F5F170373	F5F170373013	BRC-BKG-08A-9-11	Soil	Thorium 232	0.73	2.3	X	l	pCi/g
F5F170373	F5F170373014	BRC-BKG-08B-0-0.5	Soil	Thorium 232	0.79	2.1	X	l	pCi/g
F5F170373	F5F170373015	BRC-BKG-08B-4-6	Soil	Thorium 232	0.92	1.14	X	l	pCi/g
F5F170373	F5F170373016	BRC-BKG-08B-9-11	Soil	Thorium 232	0.69	1.45	X	l	pCi/g
F5F170373	F5F170373017	BRC-BKG-08C-0-0.5	Soil	Thorium 232	0.93	1.65	X	l	pCi/g
F5F170373	F5F170373018	BRC-BKG-08C-4-6	Soil	Thorium 232	1	2.32	X	l	pCi/g
F5F170373	F5F170373019	BRC-BKG-08C-9-11	Soil	Thorium 232	0.69	1.86	X	l	pCi/g
F5F170373	F5F170373020	BRC-BKG-07B-0-0.5	Soil	Thorium 232	0.85	1.25	X	l	pCi/g
F5F170373	F5F170373021	BRC-BKG-07B-4-6	Soil	Thorium 232	0.93	2.08	X	l	pCi/g
F5F170373	F5F170373022	BRC-BKG-07B-9-11	Soil	Thorium 232	0.77	1.38	X	l	pCi/g
F5F180132	F5F180132001	BRC-BKG-01A-0-0.5	Soil	Thorium 232	0.73	1.74	X	l	pCi/g
F5F180132	F5F180132002	BRC-BKG-01A-4-6	Soil	Thorium 232	0.66	1.17	X	l	pCi/g
F5F180132	F5F180132003	BRC-BKG-01A-9-11	Soil	Thorium 232	0.77	1.65	X	l	pCi/g
F5F180132	F5F180132004	BRC-BKG-01B-0-0.5	Soil	Thorium 232	0.79	1.41	X	l	pCi/g
F5F180132	F5F180132005	BRC-BKG-01B-4-6	Soil	Thorium 232	1.1	1.93	X	l	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Thorium 232	0.94	1.64	X	l	pCi/g
F5F180132	F5F180132006	BRC-BKG-07A-0-0.5	Soil	Uranium 238	1.2	1.3	X	l	pCi/g
F5F180132	F5F180132007	BRC-BKG-07A-4-6	Soil	Thorium 232	0.91	1.37	X	l	pCi/g
F5F180132	F5F180132009	BRC-BKG-07C-0-0.5	Soil	Thorium 232	0.96	1.69	X	l	pCi/g
F5F180132	F5F180132010	BRC-BKG-07C-4-6	Soil	Thorium 232	0.93	1.12	X	l	pCi/g
F5F180132	F5F180132011	BRC-BKG-07C-9-11	Soil	Uranium 238	1.2	1.8	X	l	pCi/g
F5F180132	F5F180132012	BRC-BKG-02A-0-0.5	Soil	Thorium 232	0.86	1.8	X	l	pCi/g
F5F180132	F5F180132013	BRC-BKG-02A-4-6	Soil	Thorium 232	1.1	1.45	X	l	pCi/g
F5F180132	F5F180132014	BRC-BKG-02A-9-11	Soil	Thorium 232	0.57	1.31	X	l	pCi/g
F5F180132	F5F180132015	BRC-BKG-02B-0-0.5	Soil	Thorium 232	0.86	1.87	X	l	pCi/g
F5F180132	F5F180132016	BRC-BKG-02B-4-6	Soil	Thorium 232	0.69	2.38	X	l	pCi/g

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result	Qualifier	Comment	Unit
F5F180132	F5F180132017	BRC-BKG-02B-9-11	Soil	Thorium 232	0.96	1.92	X	l	pCi/g
F5F180132	F5F180132018	BRC-BKG-02C-0-0.5	Soil	Thorium 232	0.6	1.52	X	l	pCi/g
F5F180132	F5F180132019	BRC-BKG-02C-4-6	Soil	Thorium 232	0.87	1.4	X	l	pCi/g
F5F180132	F5F180132020	BRC-BKG-02C-9-11	Soil	Thorium 232	0.67	2.48	X	l	pCi/g
F5F180132	F5F180132021	BRC-BKG-03A-0-0.5	Soil	Thorium 232	1.2	2.26	X	l	pCi/g
F5F180132	F5F180132022	BRC-BKG-03A-3-7	Soil	Thorium 232	0.99	2.2	X	l	pCi/g
F5F180132	F5F180132023	BRC-BCG-03A-3-7	Soil	Thorium 232	0.94	2.1	X	l	pCi/g
F5F180132	F5F180132024	BRC-BKG-03A-9-11	Soil	Thorium 232	0.97	2.07	X	l	pCi/g
F5F180132	F5F180132025	BRC-BKG-03B-0-0.5	Soil	Thorium 232	0.85	1.69	X	l	pCi/g
F5F180132	F5F180132026	BRC-BKG-03B-4-6	Soil	Thorium 232	1.2	2.38	X	l	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Thorium 232	1	1.84	X	l	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Thorium 232	0.53	2.15	X	l	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Thorium 232	0.75	1.84	X	l	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Thorium 232	1.1	1.6	X	l	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Thorium 232	0.83	1.18	X	l	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Thorium 232	0.82	1.47	X	l	pCi/g
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Thorium 232	0.96	2.08	X	l	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Thorium 232	0.73	1.28	X	l	pCi/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Thorium 232	0.73	1.43	X	l	pCi/g
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Thorium 232	1	1.68	X	l	pCi/g
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Thorium 232	1.1	1.74	X	l	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Thorium 232	0.9	1.23	X	l	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Thorium 232	1.1	1.65	X	l	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Thorium 232	0.74	1.09	X	l	pCi/g
F5F210233	F5F210233012	BRC-BKG-12A-4-6	Soil	Thorium 232	0.83	1.69	X	l	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Thorium 232	0.71	1.56	X	l	pCi/g
F5F210233	F5F210233013	BRC-BKG-12B-0-0.5	Soil	Thorium 232	0.87	0.9	X	l	pCi/g
F5F210233	F5F210233015	BRC-BKG-12B-4-6	Soil	Thorium 232	0.72	1.57	X	l	pCi/g
F5F210233	F5F210233017	BRC-BKG-05AR-0-0.5	Soil	Thorium 232	0.77	1.5	X	l	pCi/g
F5F210233	F5F210233019	BRC-BKG-05AR-4-6	Soil	Thorium 232	1.1	1.46	X	l	pCi/g
F5F210233	F5F210233020	BRC-BKG-05AR-9-11	Soil	Thorium 232	0.59	2.43	X	l	pCi/g

TABLE 13 (CONTINUED)
QUALIFICATIONS BASED ON ALTERNATE METHODS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result		Qualifier	Comment	Unit
F5F210233	F5F210233021	BRC-BKG-05BR-0-0.5	Soil	Thorium 232	0.91	1.83		X	1	pCi/g
F5F210233	F5F210233022	BRC-BKG-05BR-4-6	Soil	Thorium 232	0.7	1.98		X	1	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 228	140	-10	U	X	1	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 230	71	0	U	X	1	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 232	70	30	U	X	1	pCi/g
F5F210233	F5F210233023	BRC-BKG-05BR-9-11	Soil	Thorium 232	1.2	2.61		X	1	pCi/g
F5F210233	F5F210233024	BRC-BKG-05CR-0-0.5	Soil	Thorium 232	0.86	1.51		X	1	pCi/g
F5F210233	F5F210233025	BRC-BKG-05CR-4-6	Soil	Thorium 232	0.67	1.82		X	1	pCi/g
F5F210233	F5F210233026	BRC-BKG-05CR-9-11	Soil	Thorium 232	1.1	2.42		X	1	pCi/g
F5F210233	F5F210233028	BRC-BKG-11C-0-0.5	Soil	Thorium 232	1	2.16		X	1	pCi/g
F5F210233	F5F210233030	BRC-BKG-11C-9-11	Soil	Thorium 232	0.98	1.26		X	1	pCi/g
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Thorium 232	0.6	2.11		X	1	pCi/g
F5F210233	F5F210233032	BRC-BKG-11B-4-6	Soil	Thorium 232	0.83	1.66		X	1	pCi/g
F5F210233	F5F210233033	BRC-BKG-11B-9-11	Soil	Thorium 232	0.62	1.73		X	1	pCi/g

Notes:

mg/kg Milligram per kilogram
MDC Minimum detectable concentration
pCi/g PicoCurie per gram
RL Reporting limit
SDG Sample delivery group
SQL Sample quantitation limit
U Undetected

1 The RL represents the SQL for metals and the MDC for radionuclides.

TABLE 14
REJECTED RESULTS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

SDG	Lab ID	Sample ID	Matrix	Analyte	RL [1]	Result [2]	Qualifier	Comment	Unit
F5F210233	F5F210233007	BRC-BKG-01B-9-11	Soil	Radium 228	0.511	2.19 ±0.25	R	e	pCi/g
F5F210233	F5F210233009	BRC-BKG-01C-0-0.5	Soil	Radium 228	0.574	1.86 ±0.24 J	R	k, e	pCi/g
F5F210233	F5F210233008	BRC-BKG-01C-4-6	Soil	Radium 228	0.702	2.19 ±0.28	R	e	pCi/g
F5F210233	F5F210233010	BRC-BKG-01C-9-11	Soil	Radium 228	0.78	1.94 ±0.28 J	R	k, e	pCi/g
F5F180132	F5F180132027	BRC-BKG-03B-9-11	Soil	Radium 228	0.737	4.15 ±0.38	R	e	pCi/g
F5F180132	F5F180132028	BRC-BKG-03C-0-0.5	Soil	Radium 228	0.656	4.67 ±0.39	R	e	pCi/g
F5F180132	F5F180132029	BRC-BKG-03C-4-6	Soil	Radium 228	0.999	6.42 ±0.55	R	e	pCi/g
F5F180132	F5F180132030	BRC-BKG-03C-9-11	Soil	Radium 228	0.654	3.1 ±0.3	R	e	pCi/g
F5F160308	F5F160308001	BRC-BKG-04B-4-6	Soil	Uranium	0.038	7.6	R	j	mg/kg
F5F160308	F5F160308006	BRC-BKG-04C-0-0.5	Soil	Radium 228	0.764	1.6 ±0.24 J	R	k, e	pCi/g
F5F160308	F5F160308010	BRC-BKG-04C1-0-0.5	Soil	pH (solid)		8.7	R	h	none
F5F210233	F5F210233004	BRC-BKG-11A-0-0.5	Soil	Radium 228	0.821	3.2 ±0.35	R	e	pCi/g
F5F210233	F5F210233005	BRC-BKG-11A-4-6	Soil	Radium 228	0.86	2.12 ±0.29	R	e	pCi/g
F5F210233	F5F210233006	BRC-BKG-11A-9-11	Soil	Radium 228	0.644	2.21 ±0.28	R	e	pCi/g
F5F210233	F5F210233031	BRC-BKG-11B-0-0.5	Soil	Radium 228	0.75	2.51 ±0.29	R	e	pCi/g
F5F210233	F5F210233029	BRC-BKG-11C-4-6	Soil	Radium 228	0.911	2.37 ±0.31	R	e	pCi/g
F5F210233	F5F210233011	BRC-BKG-12A-0-0.5	Soil	Radium 228	0.6	1.8 ±0.24 J	R	k, e	pCi/g
F5F210233	F5F210233013	BRC-BKG-12A-9-11	Soil	Radium 228	0.666	1.71 ±0.25 J	R	k, e	pCi/g
F5F210233	F5F210233016	BRC-BKG-12B-9-11	Soil	Radium 228	0.67	1.52 ±0.24 J	R	k, e	pCi/g
F5F210233	F5F210233001	BRC-BKG-12C-0-0.5	Soil	Radium 228	0.8	3.76 ±0.36	R	e	pCi/g
F5F210233	F5F210233002	BRC-BKG-12C-4-6	Soil	Radium 228	0.731	2.37 ±0.28	R	e	pCi/g
F5F210233	F5F210233003	BRC-BKG-12C-9-11	Soil	Radium 228	0.825	3.13 ±0.34	R	e	pCi/g

Notes:

+ Result is possibly biased high
- Result is possibly biased low
e Qualified due to matrix spike or laboratory control sample issues
h Qualified because holding time was exceeded
k Qualified because result is >MDC, but less than the required reporting limit

TABLE 14 (CONTINUED)
REJECTED RESULTS
DATA VALIDATION SUMMARY REPORT FOR BACKGROUND DATA
BMI COMPLEX AND TIMET FACILITY, HENDERSON, NEVADA

Notes (continued):

j	Qualified due to other stable chemistry issues
J	Result is estimated
MDC	Minimum detectable concentration
mg/kg	Milligram per kilogram
pCi/g	PicoCurie per gram
R	Result is rejected and unusable
RL	Reporting limit
SDG	Sample delivery group
SQL	Sample quantitation limit

1	The RL represents the MDC for radionuclides and SQL for stable chemistries.
2	The radionuclide result includes the 2-sigma error.

APPENDIX A

BACKGROUND SOIL ANALYTICAL DATABASE
(Contained on compact disk)

ATTACHMENT A

LETTER OF EXPLANATION FROM LABORATORY REGARDING RADIUM RESULTS

March 7, 2006

SEVERN TRENT STL

STL St. Louis
13715 Rider Trail North
Earth City, MO 63045

Tel: 314 298 8566 Fax: 314 298 8757
www.stl-inc.com

Ranajit Sahu
Basic Remediation Corporation
875 W. Warm Springs Rd
Henderson, NV 89015

RE: Summary of BRC Ra-226 Background Samples Apparent Low Bias

Dear Mr. Sahu:

STL St. Louis conducted a study, comparing initial STL St. Louis analytical results performed in the spring / summer timeframe of 2005 to reanalysis results by both STL St. Louis using EPA 903.0 and STL Richland Laboratory using EPA 903.1.

A reanalysis batch performed by STL St. Louis was performed in the same manner as the original analysis and confirmed the initial results. In contrast, the reanalysis of the same samples by STL Richland using a Ba-133 tracer combined with method 903.1 radon emanation resulted in activities which were comparable to earlier sampling events prior to the spring 2005 event.

To determine if this bias was caused by utilizing barium carrier rather than Ba-133 radiometric tracer recovery, another set of samples was analyzed by STL St. Louis utilizing both gravimetric yield determination and radiometric determination. The results of this study demonstrated that there are differences in sample results dependant on whether or not a radiometric tracer was utilized. Our results obtained, using the Ba 133 tracer, were comparable to the results previously reported by STL Richland and site historical data.

In conclusion, it does appear that the spring results provided are low biased. It is our technical opinion, that the primary root cause of this bias is attributed to determining yield gravimetrically versus a radiometric tracer. STL St. Louis will employ Ba 133 tracer for future Ra 226 analysis for BRC effective immediately.

Sincerely,

William Deckelmann
STL St. Louis
Laboratory Director

Joel Kempema
STL St. Louis
Radiochemistry Technical Director

Elaine Wild
STL St. Louis QA Manager

cc: Melania Harris, STL St. Louis Project Manager

APPENDIX D-2

DATA VALIDATION MEMORANDUM FOR ENVIRON SOIL BACKGROUND DATA

ndep
NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
protecting the future for generations

STATE OF NEVADA
Department of Conservation & Natural Resources
DIVISION OF ENVIRONMENTAL PROTECTION

Kenny C. Guinn, Governor
Allen Biaggi, Director
Leo M. Drozdoff, P.E., Administrator

April 20, 2006

Mr. Mark Paris
Basic Remediation Company (BRC)
875 West Warm Springs
Henderson, NV 89015

Mr. Craig Wilkinson
TIMET
PO Box 2128
Henderson, NV 89009

Re.: Nevada Division of Environmental Protection Letter Regarding:
Data Validation Memorandum on the Environ Background Data Set
NDEP Facility ID# H-000688, H-000537

Dear Mr. Paris and Mr. Wilkinson:

Attached is a memorandum regarding data validation of the background data collected by Environ for the City of Henderson. BRC and TIMET are in the process of evaluating this data for inclusion into their background data set and the attached information is needed for that evaluation.

Should you have any questions or concerns, please do not hesitate to contact me at (702) 486-2850x247.

Sincerely,

Brian A. Rakvica, P.E.
Supervisor, Special Projects Branch
Bureau of Corrective Actions

BAR:s

cc: Jim Najima, NDEP, BCA, Carson City
Barry Conaty, Akin, Gump, Strauss, Hauer & Feld, L.L.P., 1333 New Hampshire Avenue, N.W., Washington, D.C. 20036
Brenda Pohlmann, City of Henderson, PO Box 95050, Henderson, NV 89009
Mitch Kaplan, U.S. Environmental Protection Agency, Region 9, mail code: WST-5, 75 Hawthorne Street, San Francisco, CA 94105-3901
Rob Mrowka, Clark County Comprehensive Planning, PO Box 551741, Las Vegas, NV, 89155-1741
Ranajit Sahu, BRC, 311 North Story Place, Alhambra, CA 91801
Rick Kellogg, BRC, 875 West Warm Springs, Henderson, NV 89015
Kirk Stowers, Broadbent & Associates, 8 West Pacific Avenue, Henderson, Nevada 89015
George Crouse, Syngenta Crop Protection, Inc., 410 Swing Road, Greensboro, NC 27409
Susan Crowley, Tronox, PO Box 55, Henderson, Nevada 89009
Keith Bailey, Tronox, Inc, PO Box 268859, Oklahoma City, Oklahoma 73126-8859
Sally Bilodeau, ENSR, 1220 Avenida Acaso, Camarillo, CA 93012-8727
Lee Erickson, Stauffer Management Company, 400 Ridge Rd, Golden, CO 80403
Chris Sylvia, Pioneer Americas LLC, PO Box 86, Henderson, Nevada 89009
Paul Sundberg, Montrose Chemical Corporation, 3846 Estate Drive, Stockton, California 95209
Joe Kelly, Montrose Chemical Corporation of CA, 600 Ericksen Avenue NE, Suite 380, Bainbridge Island, WA 98110
Jon Erskine, Northgate Environmental Management, Inc., 300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612
Karleen O'Connor, Cox Castle Nicholson, 555 Montgomery Street, Suite 1500, San Francisco, CA 94111
Brian Walsh, Centex Homes, 3606 North Rancho Drive, Suite 102, Las Vegas, NV 89130
Michael Ford, Bryan Cave, One Renaissance Square, Two North Central Avenue, Suite 2200, Phoenix, AZ 85004
Vincent Aiello, Beazer Homes, 4670 South Fort Apache, Suite 200, Las Vegas, NV
David Gratson, Neptune and Company, 1505 15th Street, Suite B, Los Alamos, NM 87544

NEPTUNE AND COMPANY, INC.
1505 15th Street
Suite B
Los Alamos NM
Phone 505-662-2121
Fax 505-662-0500

MEMORANDUM

From: David Gratson

To: Brian Rakvica

Date: 17 April 2006

Subject: Background Data – ENVIRON Dataset

Data validation was performed soil samples collected at the WRF expansion site by ENVIRON International Corporation. The samples were collected in April 2002 at eight locations and two different depths. These data are being evaluated for inclusion into the background data set as part of the BMI complex investigation.

STL St. Louis analyzed the eighteen samples, 16 native sample plus a blank and duplicate, and the laboratory report was obtained from Mr. Mark Hawley, of ENVIRON. The dioxin/furan analysis was performed at the STL - West Sacramento laboratory. The file from STL was entitled F2D050166-AR-REV.pdf. STL - St. Louis reported the results in a Level II report format with no raw data. The report included a case narrative, summary results, and the results of quality control samples (blanks, LCS, matrix spikes and duplicates). The data validation reviewed the case narrative, QC samples, and individual sample information (e.g. surrogate recoveries) for quality control issues.

Specific Comments: Data validation was performed in accordance with EPA guidance including USEPA CLP National Functional Guidelines for Organic and Inorganic Data Review. The radionuclide data was reviewed based on professional judgment. This data validation was performed on the results reported from STL St. Louis, Lot # F2D050166 dated September 10, 2002 provided at a Level II data report. Instrument calibration, raw results, and internal standards were not included in the report and therefore not reviewed. The laboratory report also did not provide details on which gamma energies are used for the individual radioisotopes nor is there a description of the use of back calculation from daughter/parents. The samples that were reviewed for validity are included in Table 1. All soil samples were collected on 4/3/2002 and analyzed for the parameters shown in Table 2. All samples were analyzed by STL - St. Louis with the exception of the dioxin/furan analysis.

Table 1. Samples included in Report

Samples
BG01-SS01
BG01-SS02
BG02-SS01
BG02-SS02
BG03-SS01
BG03-SS11
BG03-SS02
BG04-SS01
BG04-SS02
BG05-SS01
BG05-SS02
BG06-SS01
BG06-SS02
BG07-SS01
BG07-SS02
BG08-SS01
BG08-SS02
040402- WBO1 (aqueous blank)

Table 2. Analyses Peformed.

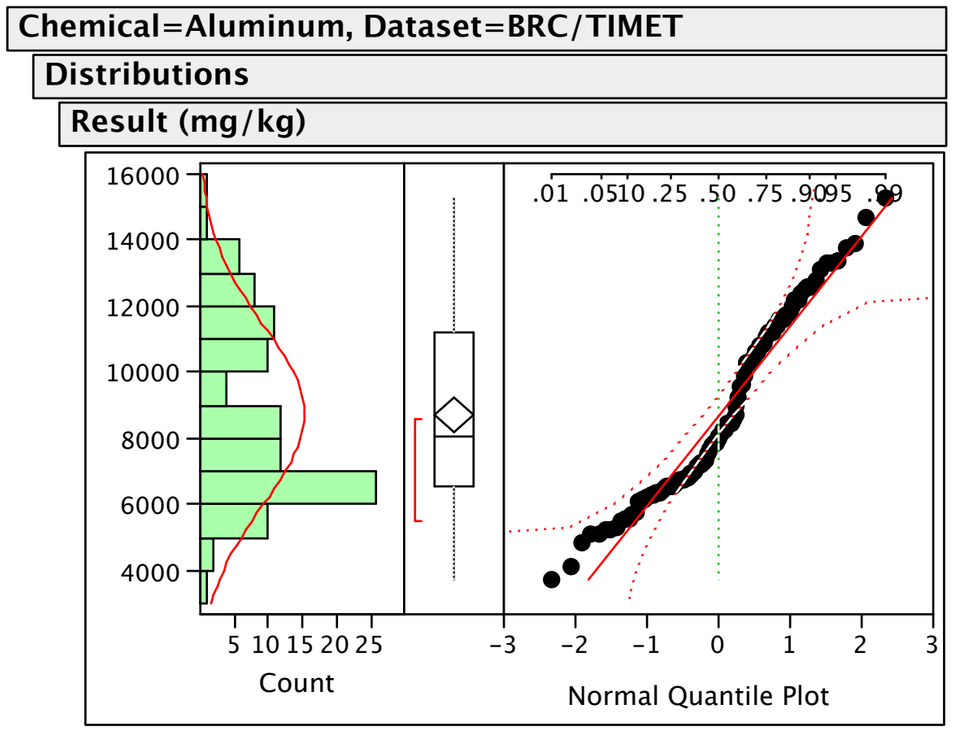
Analyses
Dioxins/Furans via EPA Method 8290 Analyzed at STL West Sacramento
Perchlorate via EPA Method 314.0
Mercury via EPA Method 7471/7470
Metals via EPA Method 6010
Metals via EPA Method 6020
Hexavalent Chromium via EPA Method 7196.
Gamma Spectroscopy via method HASL 300 Mod including Ra-226
Radium 226 (total alpha radium) via EPA Method 9315 Mod.
Radium 228 via EPA Method 9320 mod.
Isotopic Thorium via method NAS NS-3004 Mod.
Isotopic Uranium via method NAS NS-3050 Mod.
Percent Moisture via EPA method 160.3

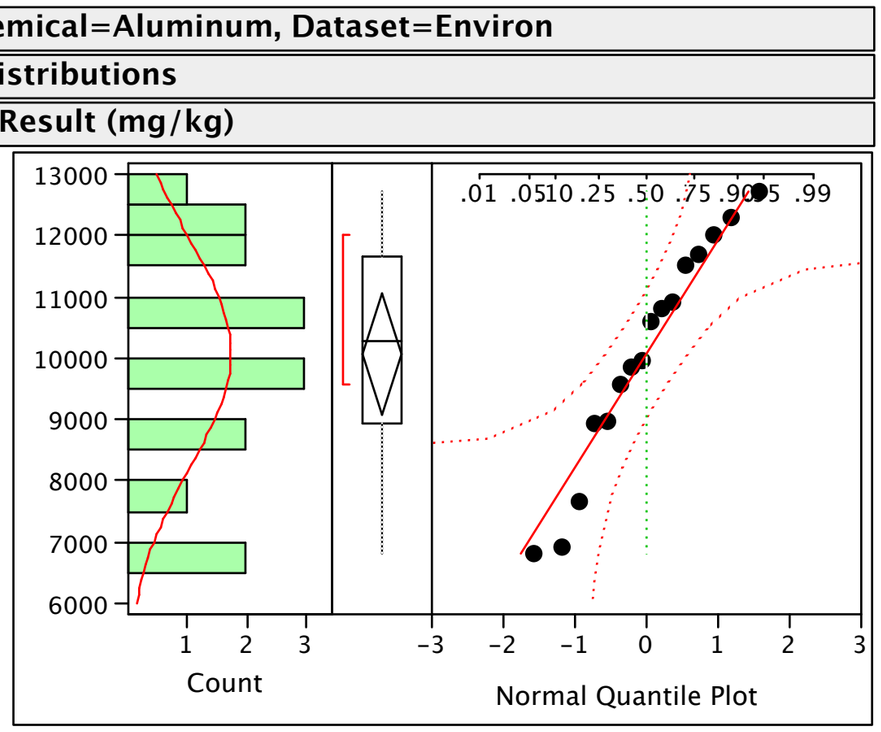
1. **Cooler Temperatures.** All three coolers were received at a temperature that exceeded the specified temperature by several degrees (9-16 °C). Due to the analyses performed this temperature deviation should not affect data quality.
2. **Holding Times. Hexavalent Chromium.** The holding time between sample collection and extraction and analysis was met for all samples and analyses with the exception of the hexavalent chromium. The samples were extracted on 7/11/2002 and the extracts analyzed on 7/15/2002. Method 7196 specifies a holding time for extracts of 24 hours and this was exceeded by approximately 72 hours. 7196 does not specify a holding time prior to extraction but the EPA they have reported that the soils samples are stable for at least 30 days. Generally, a 30 day holding time for soil samples is specified in sampling plans. Hexavalent chromium was not detected in any sample, with reporting limits of approximately 0.40 mg/kg for the soil samples. Due to the time between extraction and analysis and the potential for false negatives, it is recommended that the results for hexavalent chromium in this study be used with caution. False negatives is also an issue since the soil samples were (presumably) not extracted using an alkaline digestion such as EPA Method 3060. These data should not be used and are rejected due to the severe holding time exceedance.

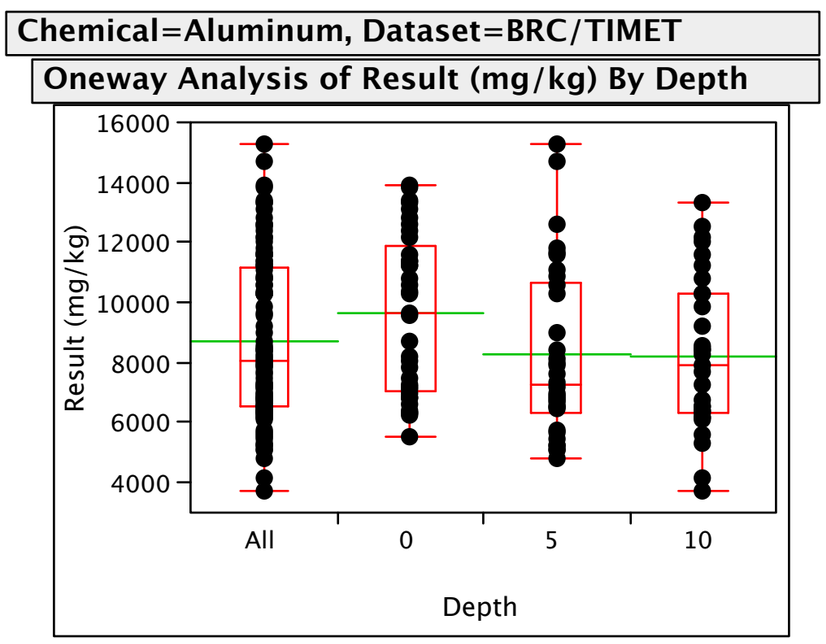
3. **Matrix Spike Recoveries – Metals.** Poor spike recovery was observed in the matrix for several of the metals analyzed with both EPA Method 6010 and Method 6020. The differences between the recovery and the criteria for manganese (Method 6020), aluminum (Method 6010) and iron (Method 6010) were especially large. The Case Narrative states that the concentration in the original sample for these three analytes was greater than 4 times the spike amount making recovery ineffective. The relative concentration of the spike to the native sample could not be verified; however the LCS recovery did meet the requirements for these analytes. These results should be used with caution but are not rejected due to the assumed spike to native concentration ratio affect on recovery.
4. **Gamma Spectroscopy, Radium 224.** The QC samples for Gamma Spectroscopy met the method requirements. However, the activity of Ra-224 in the samples generally appears high and this radionuclide is not included in the QC sample spikes. It is unclear how the activity was calculated. The activity could have been calculated either directly from the photopeak for Ra-224 or back calculated from another radionuclide such as Pb-212. It is not recommended that Radium 224 be reported directly from its photopeak with Gamma spectroscopy due to interference from other radionuclides. Without additional information on how Ra-224 was calculated these data should be used with caution and potentially rejected based on evaluation with other background levels. The data is not rejected purely due to analytical considerations. The NDEP recommends that this data be recalculated or rejected.
5. **Radium 226 and 228.** The quality control information, including barium yields, generally met the method requirements. However, recent data from STL St. Louis for these analytes indicated a bias due to the barium yields. It is likely that the barium yields in this data set do not include the radioisotope barium and may be subject to the same bias. The data is not rejected purely due to analytical considerations however the data should be used with caution. The NDEP recommends that this data be reevaluated or rejected.

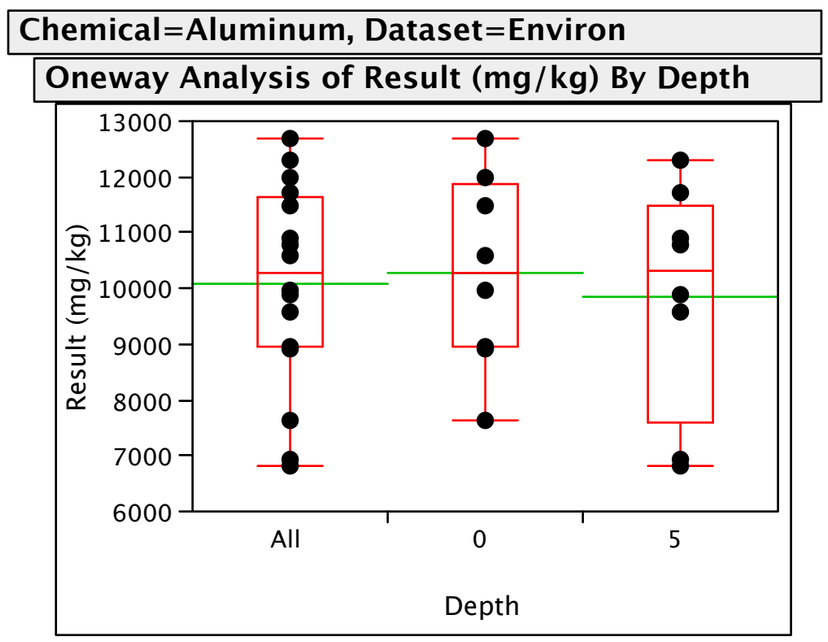
FIGURE F-1

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









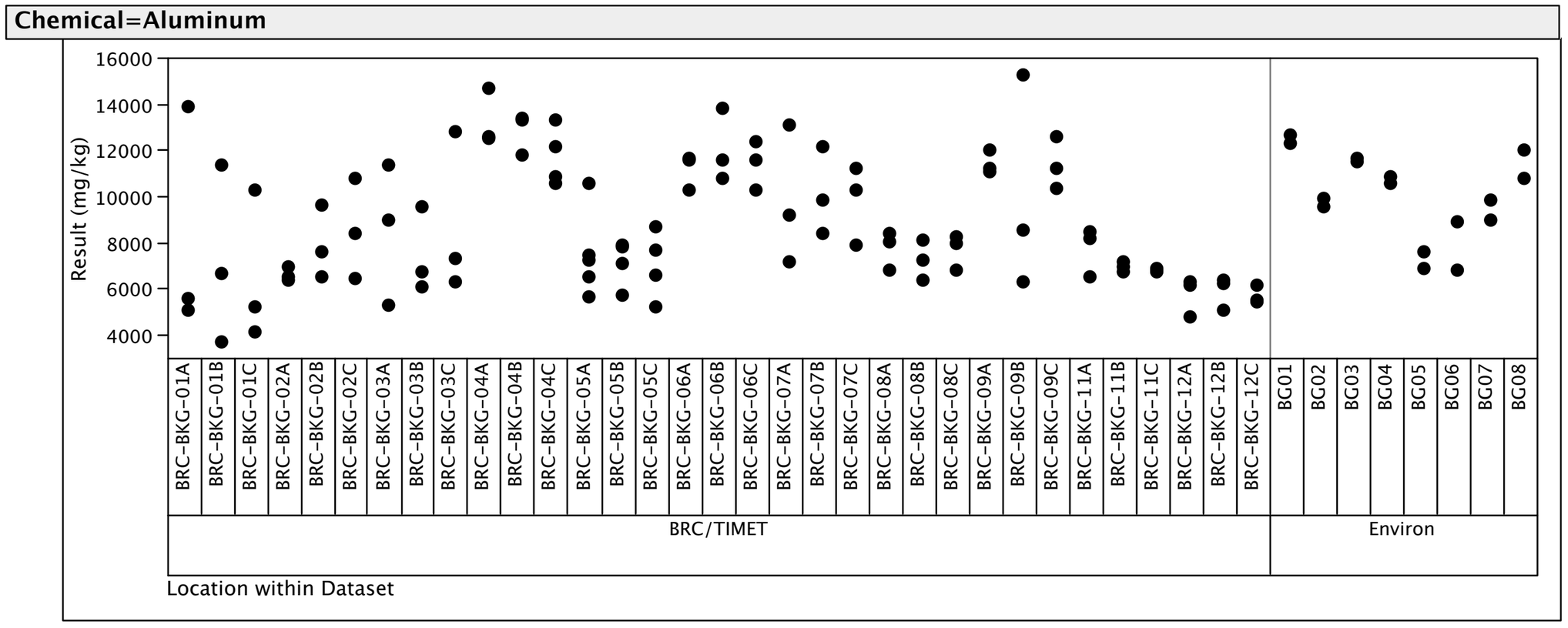
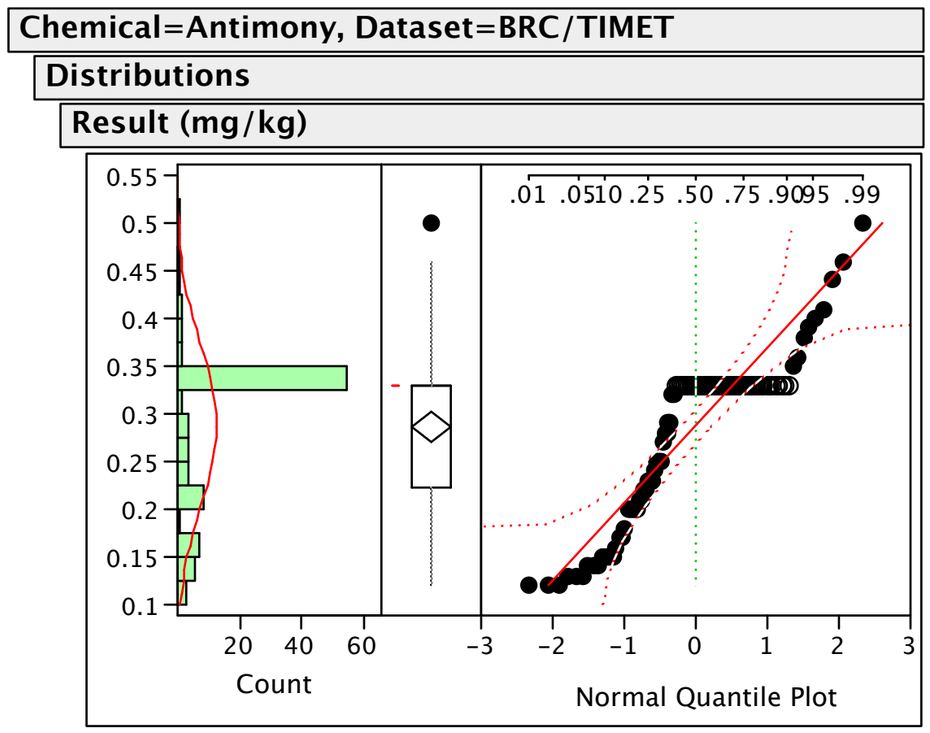
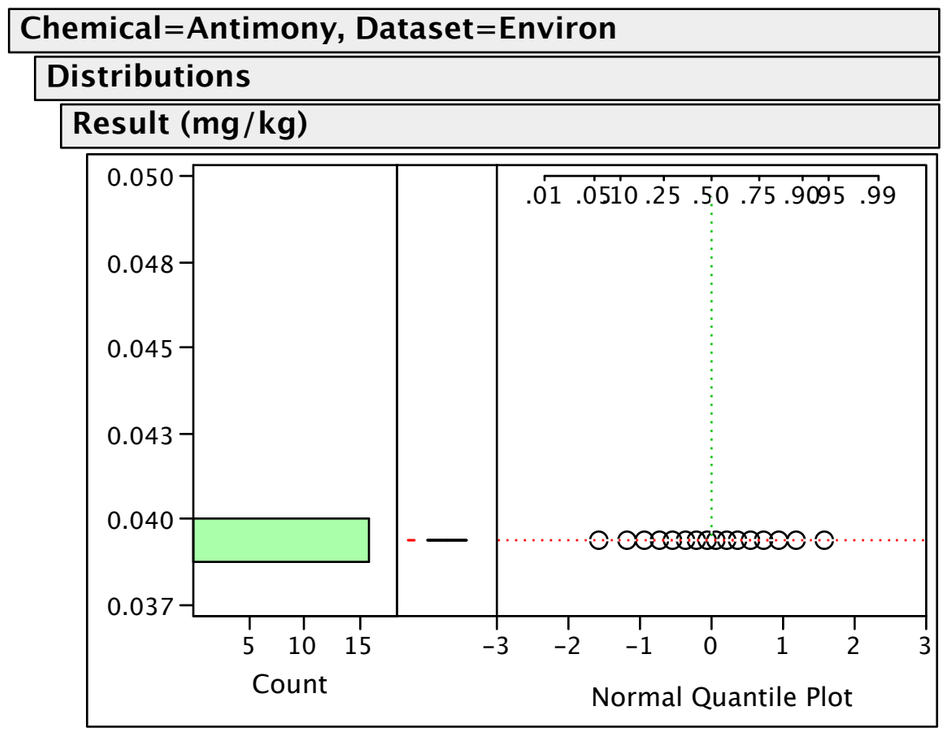
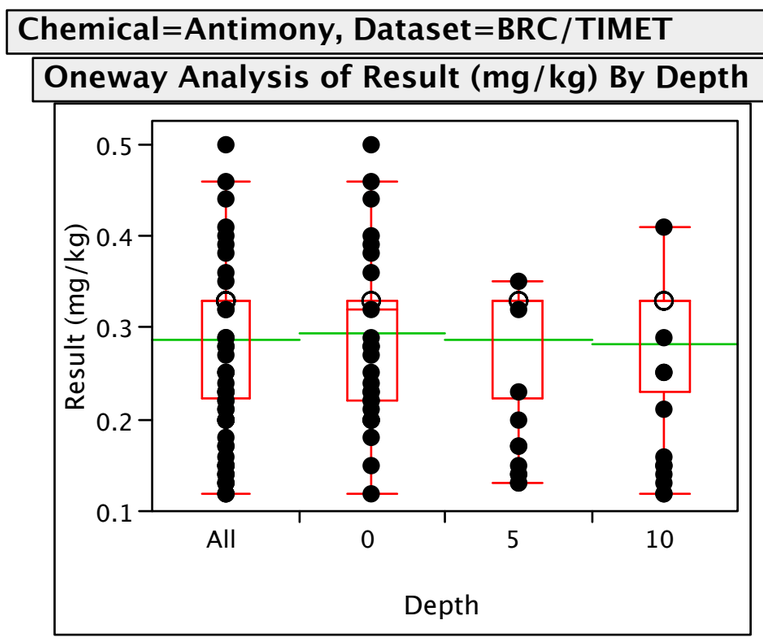


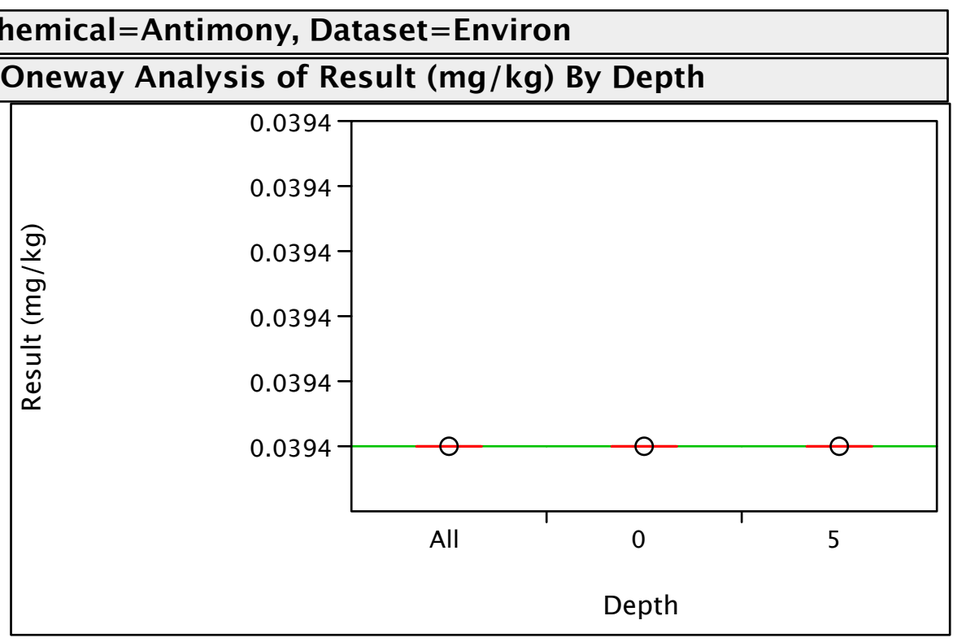
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









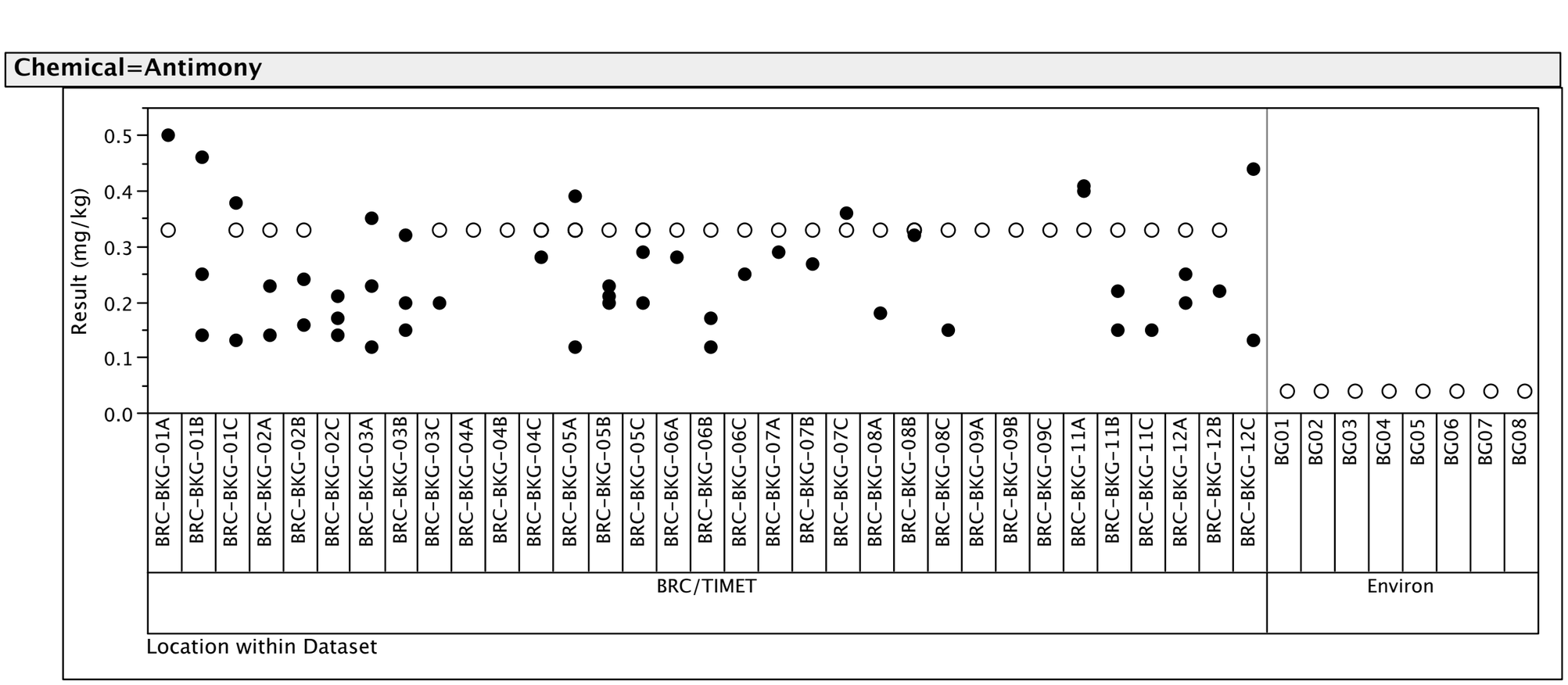
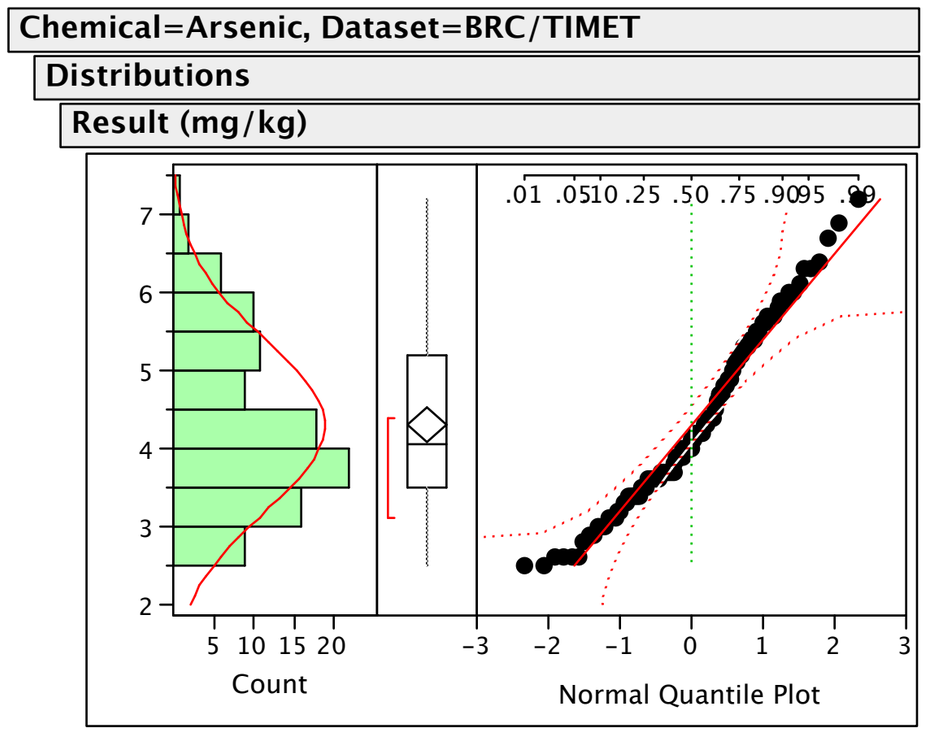
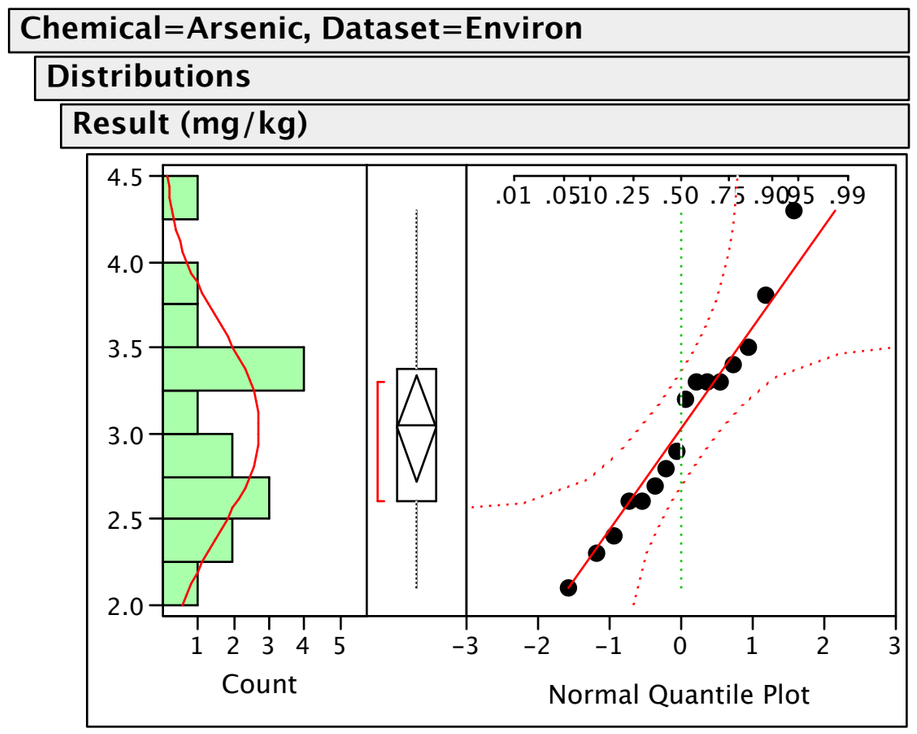
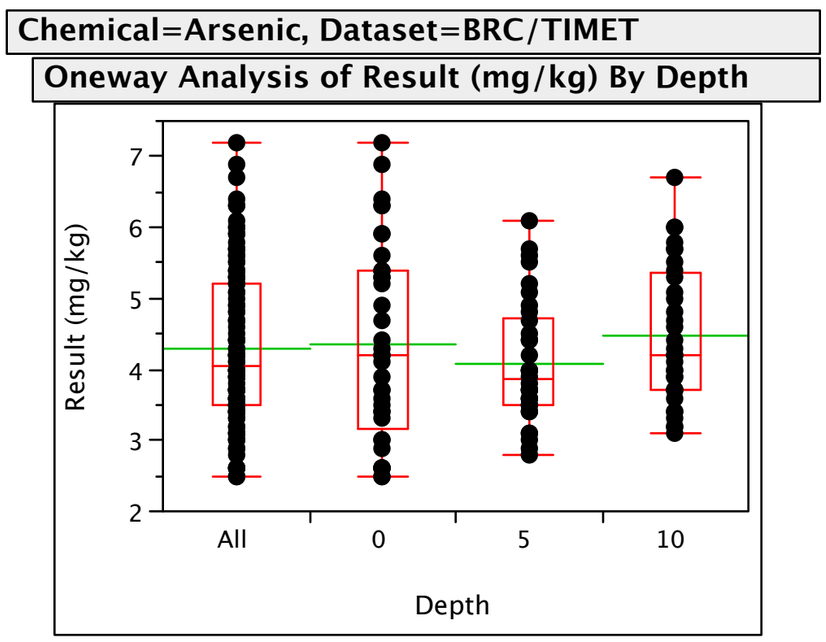


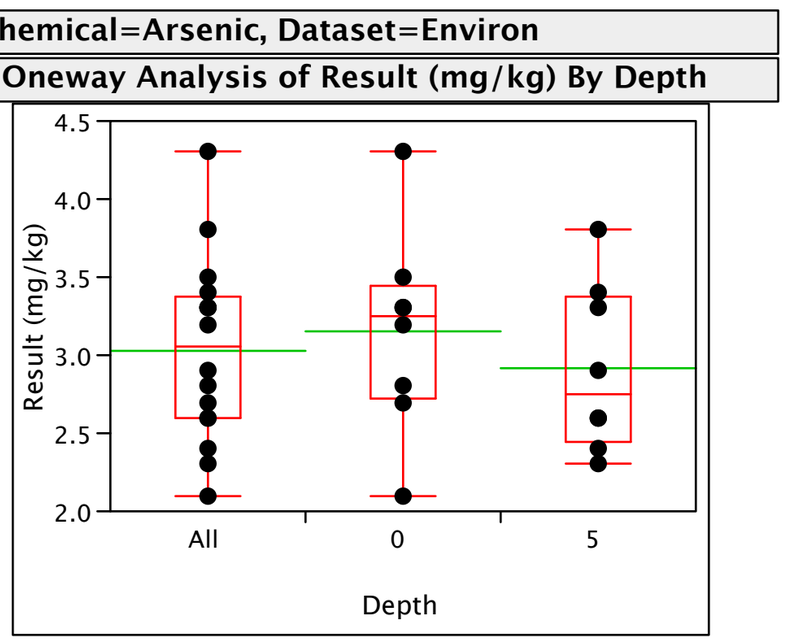
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









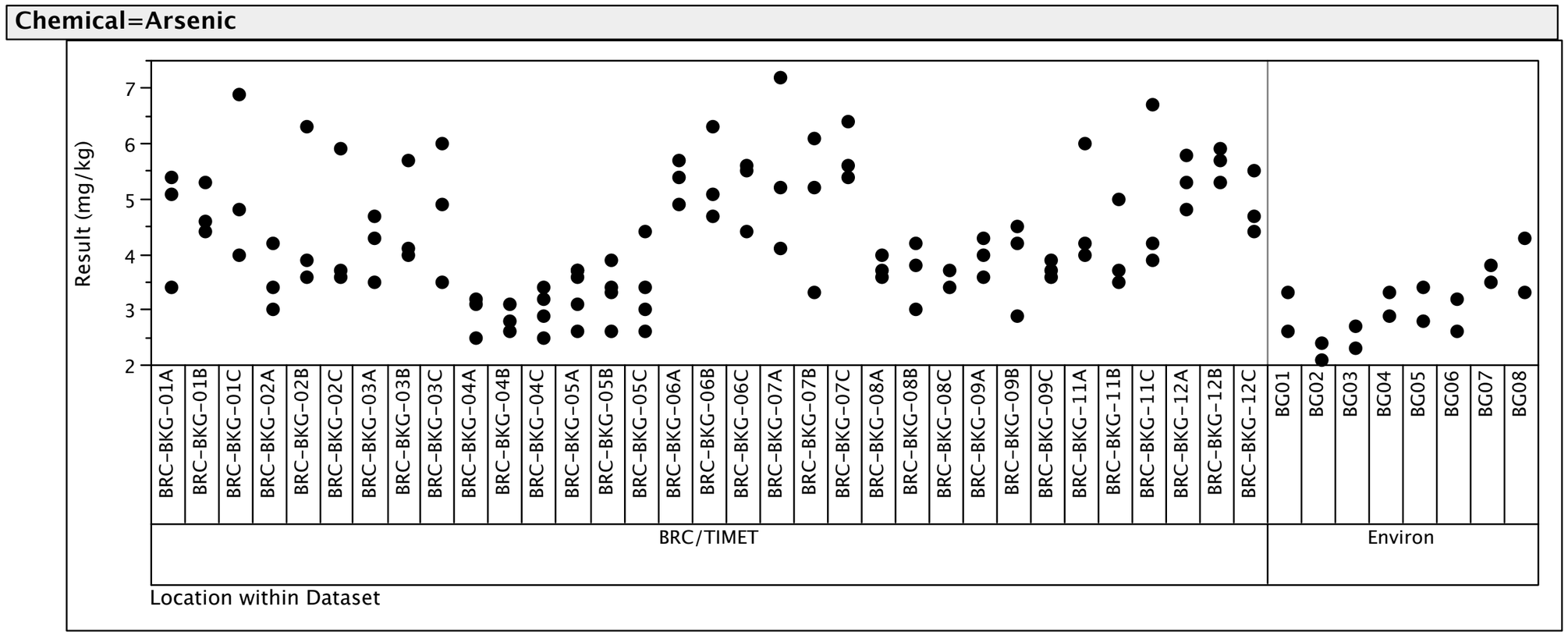
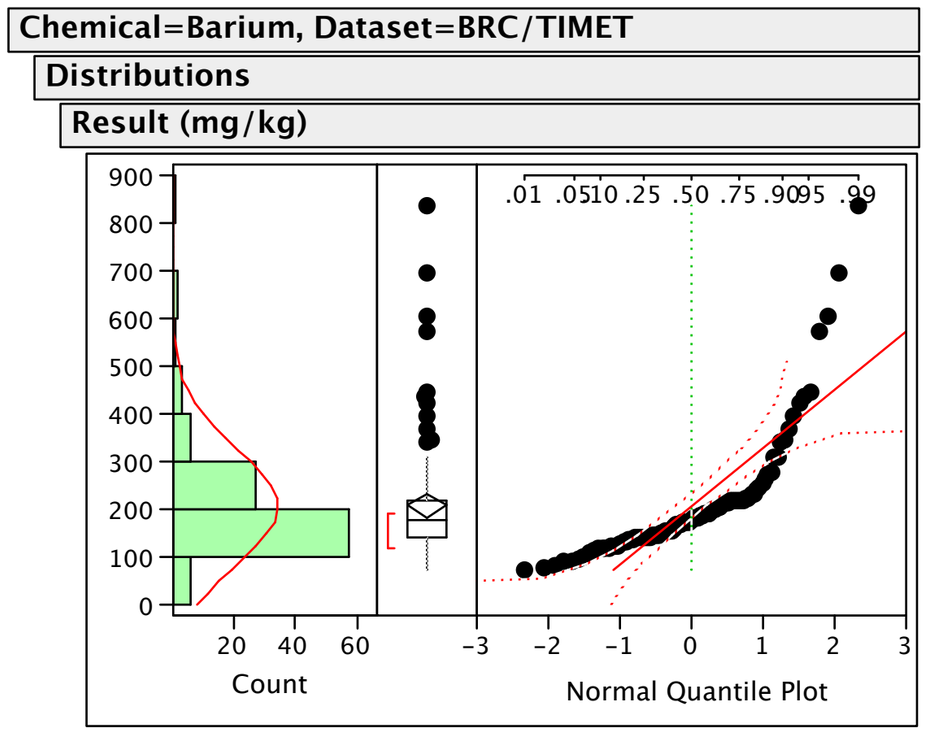
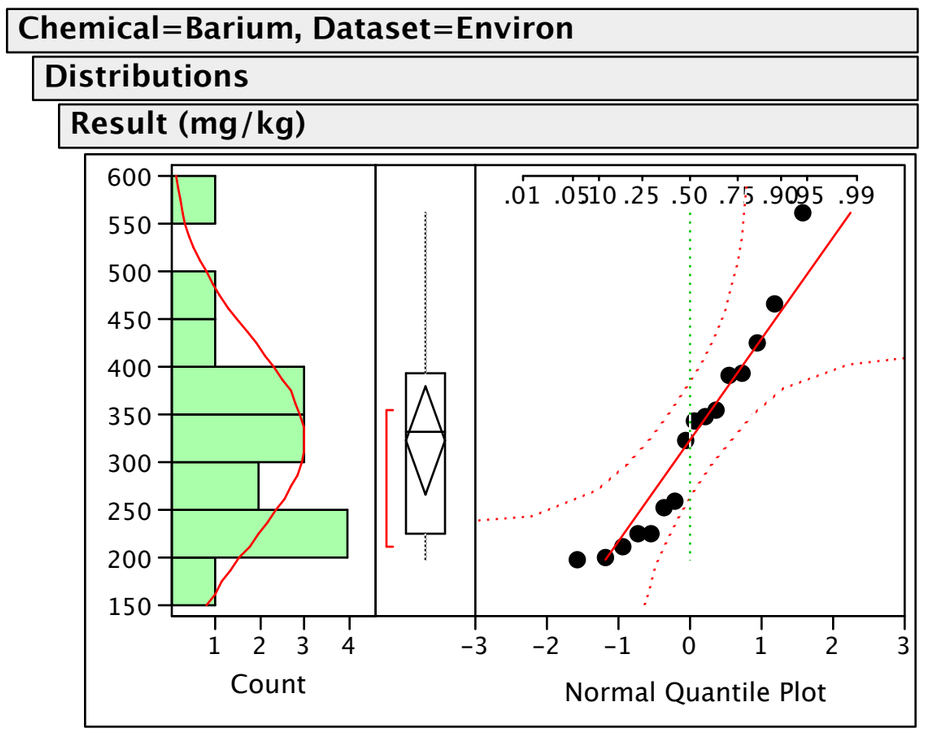
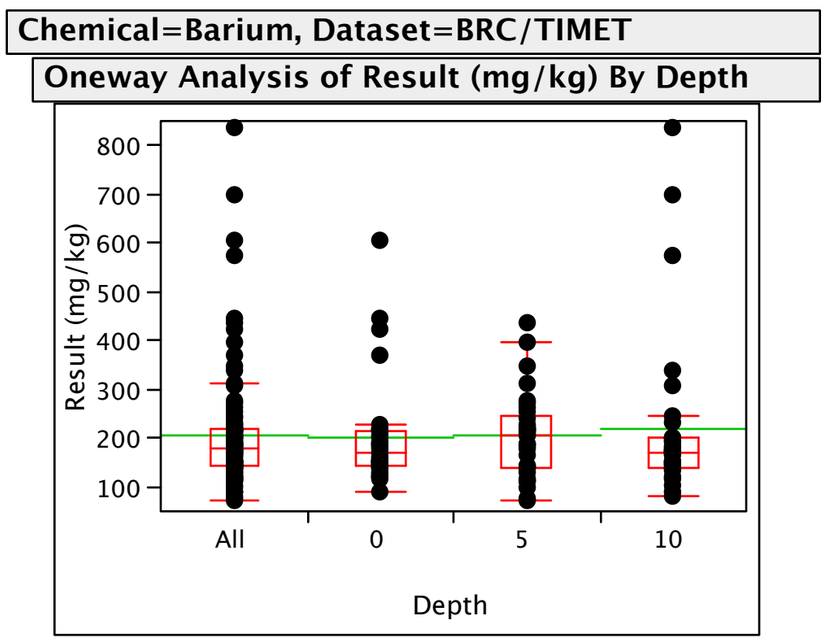


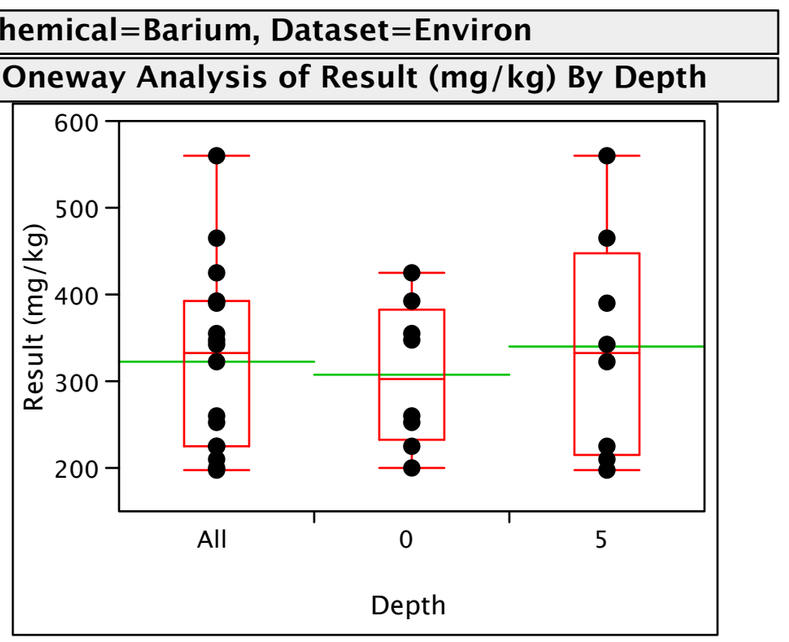
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









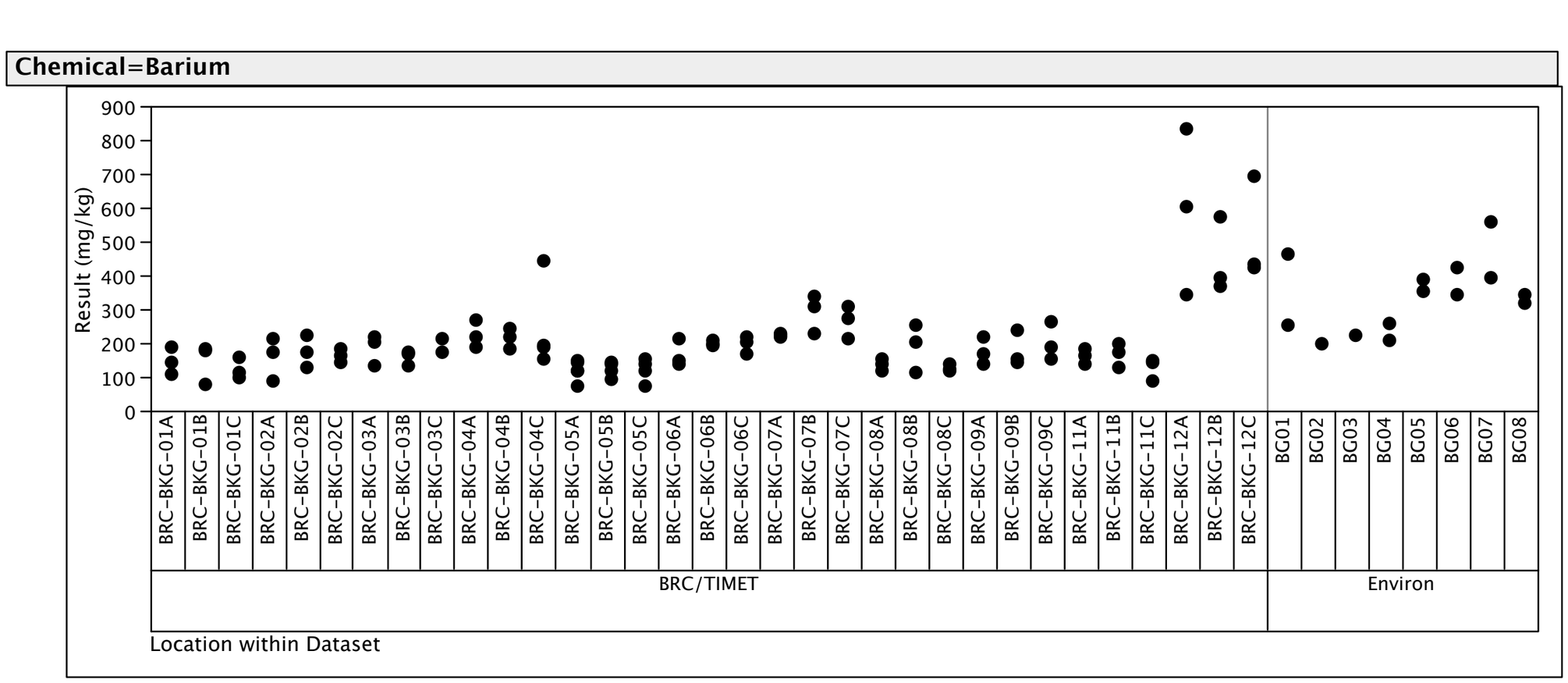
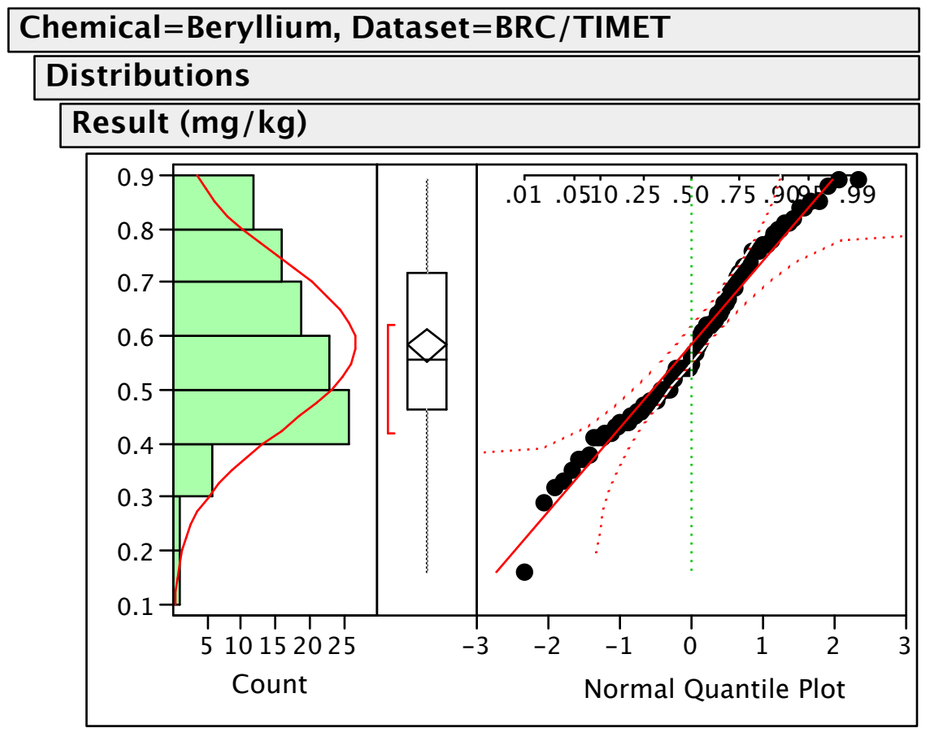
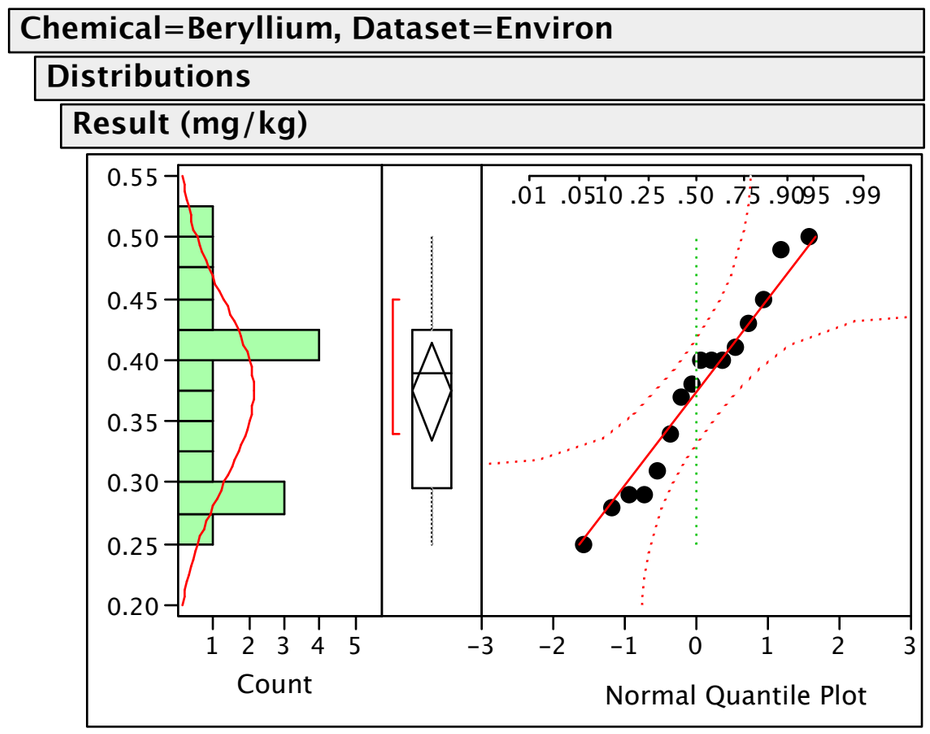
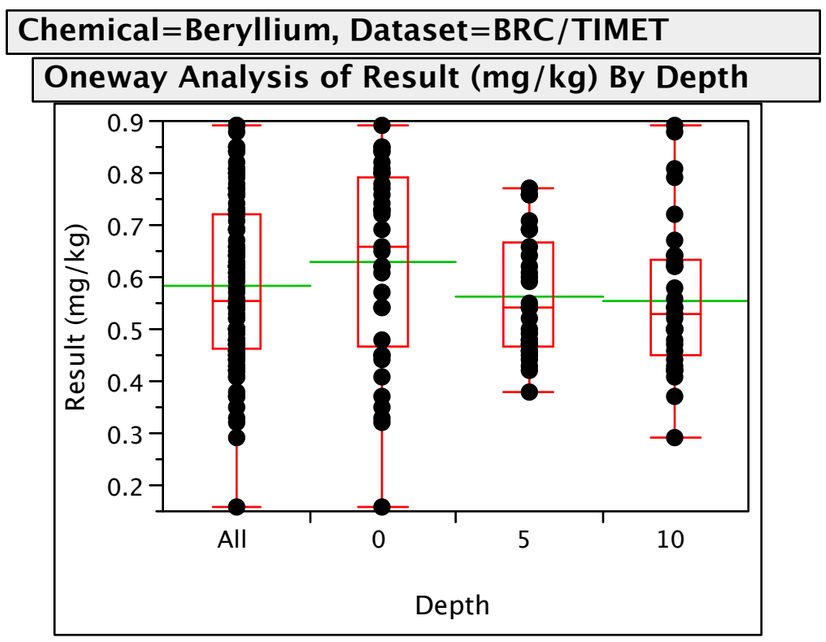


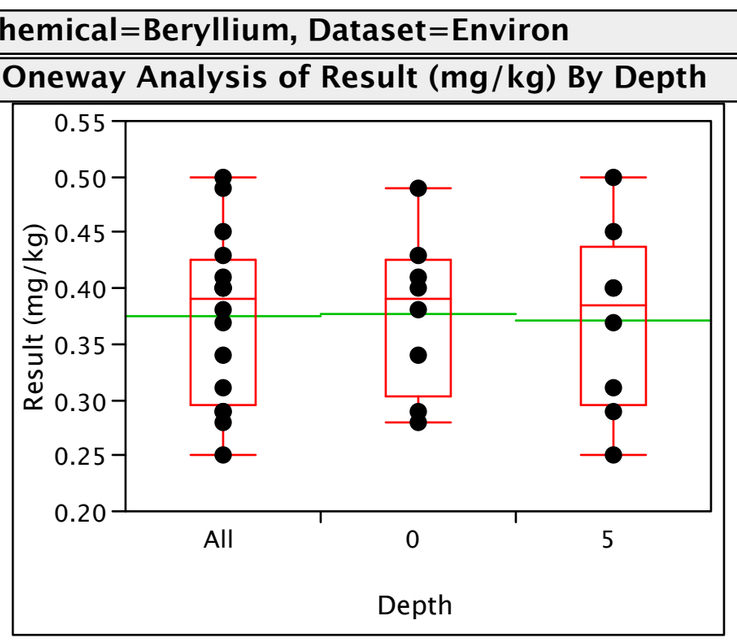
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









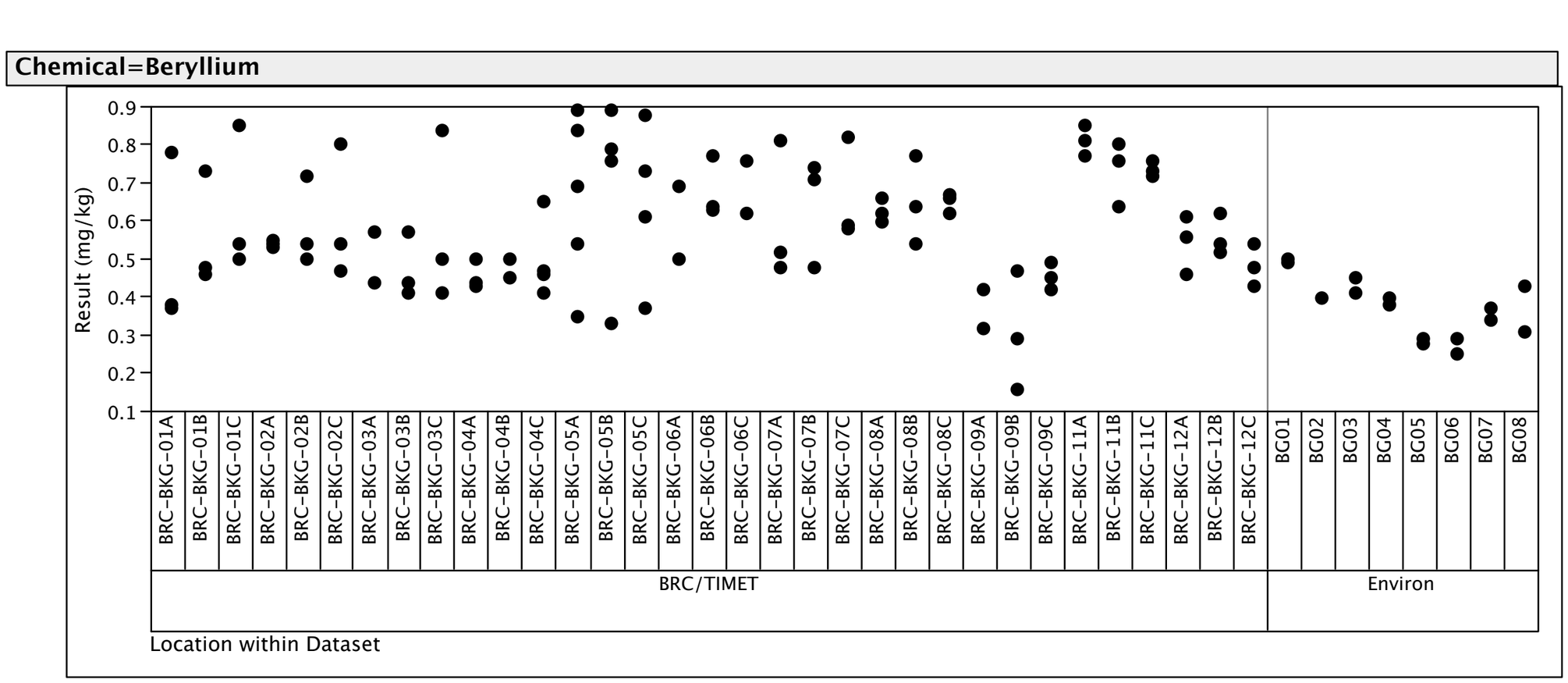
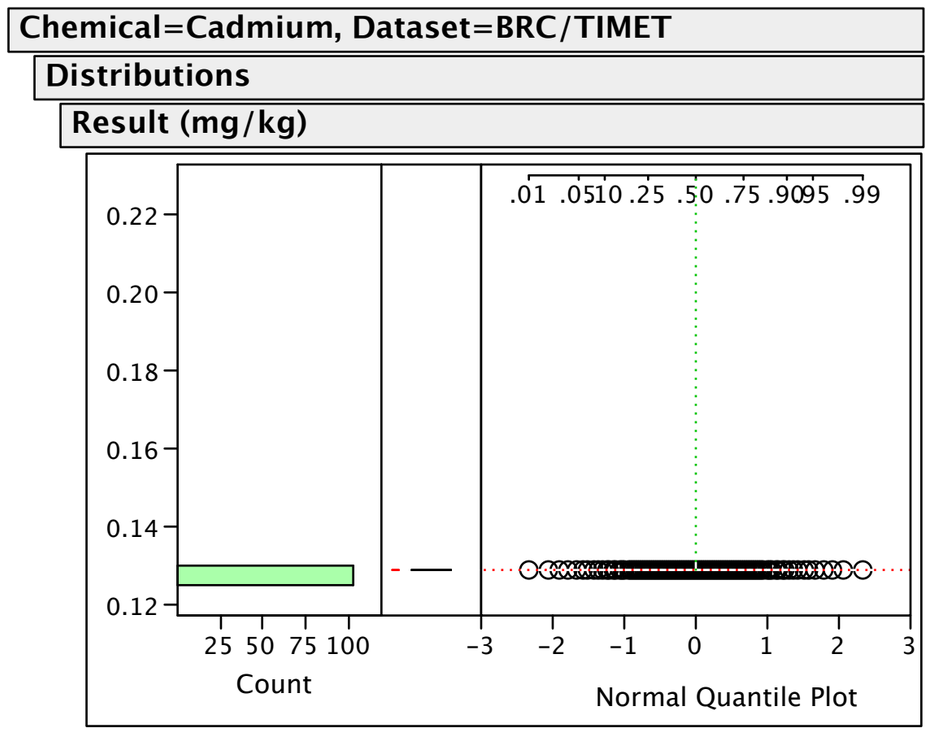
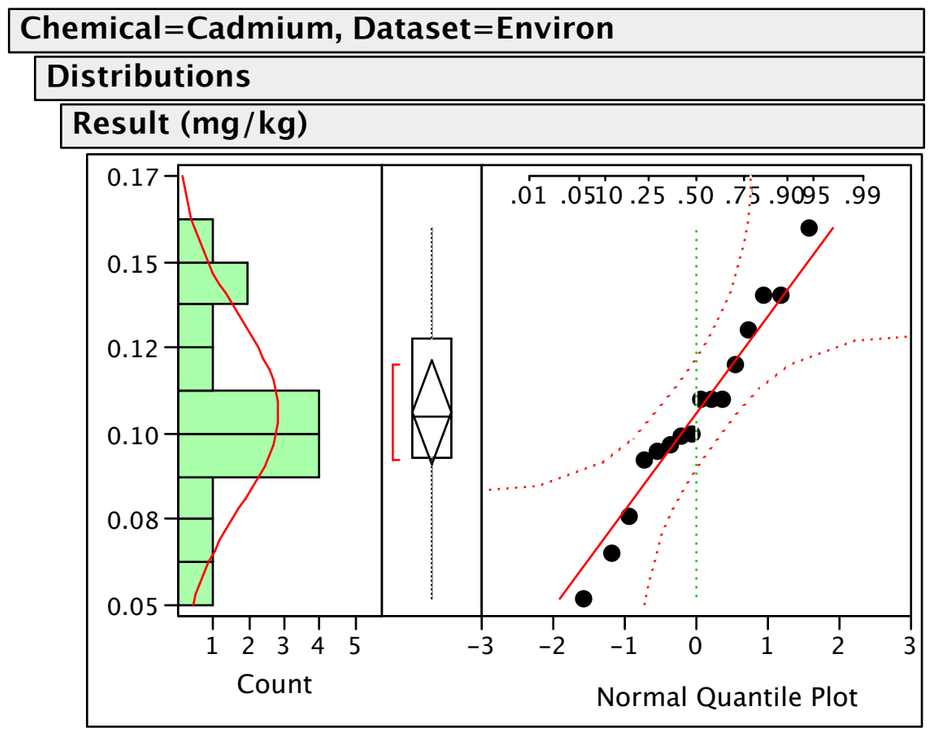
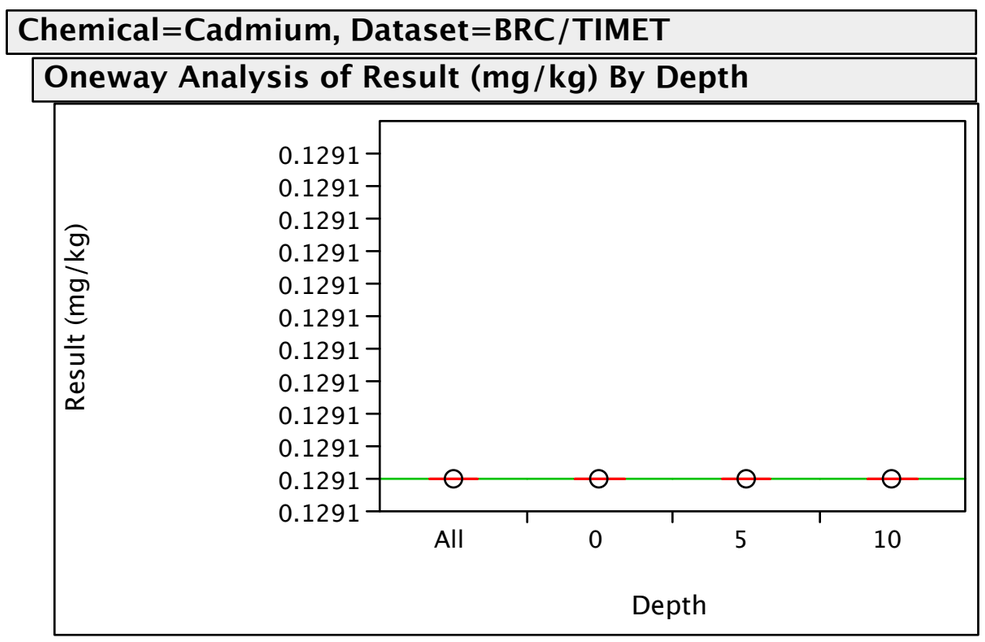


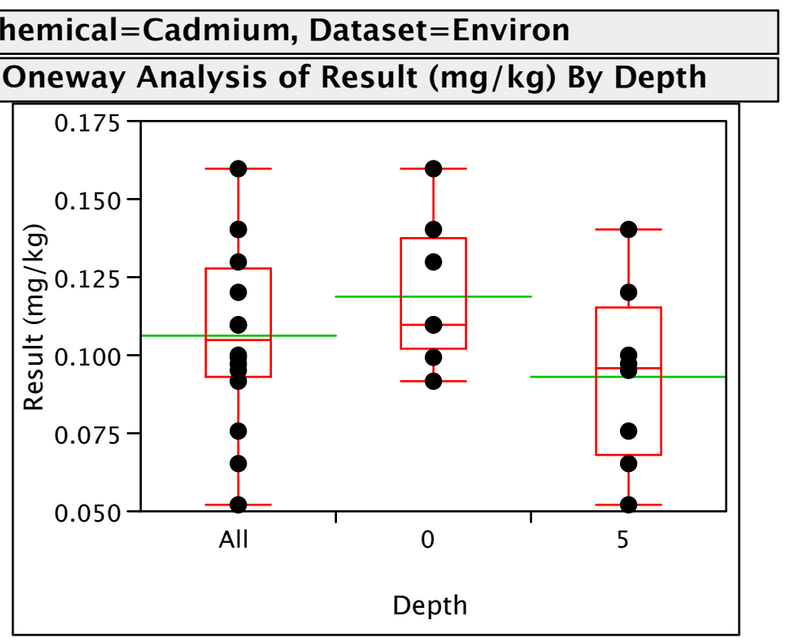
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









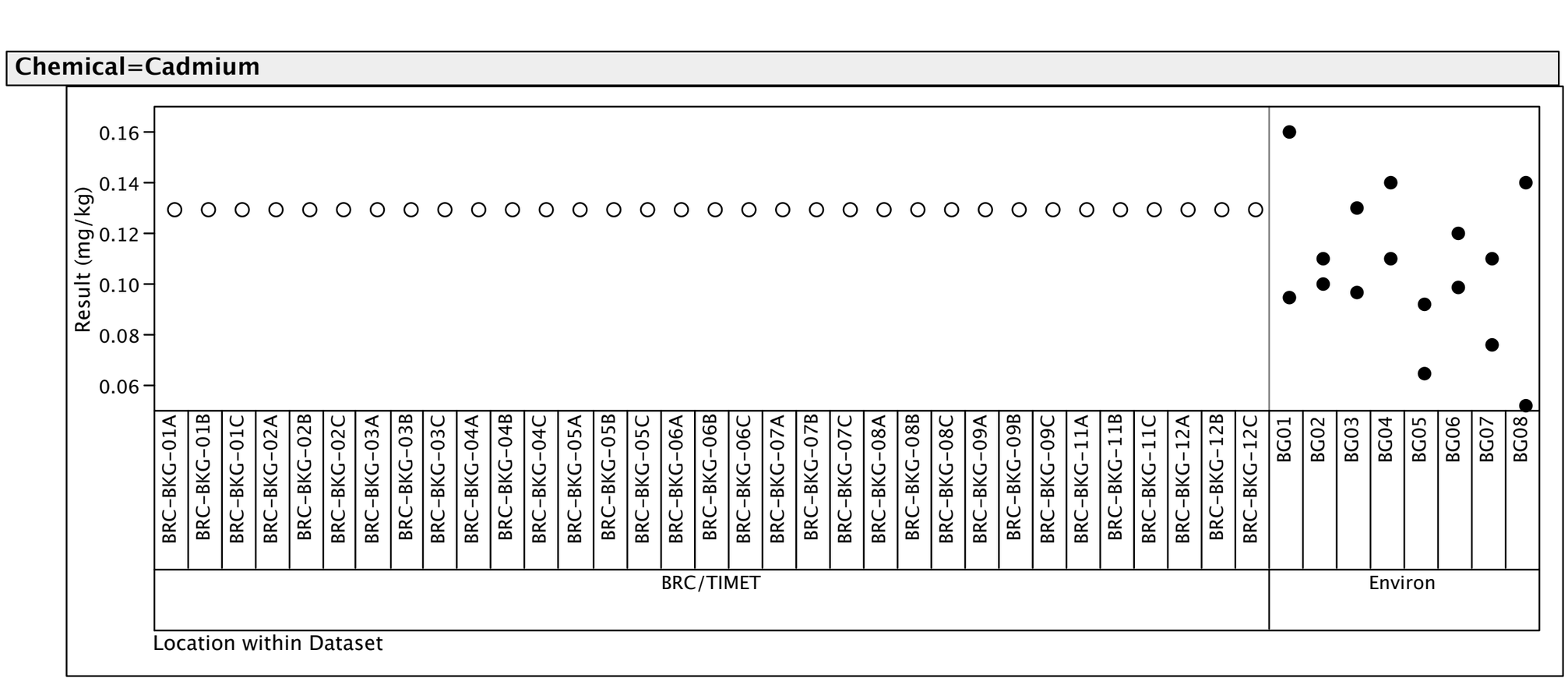
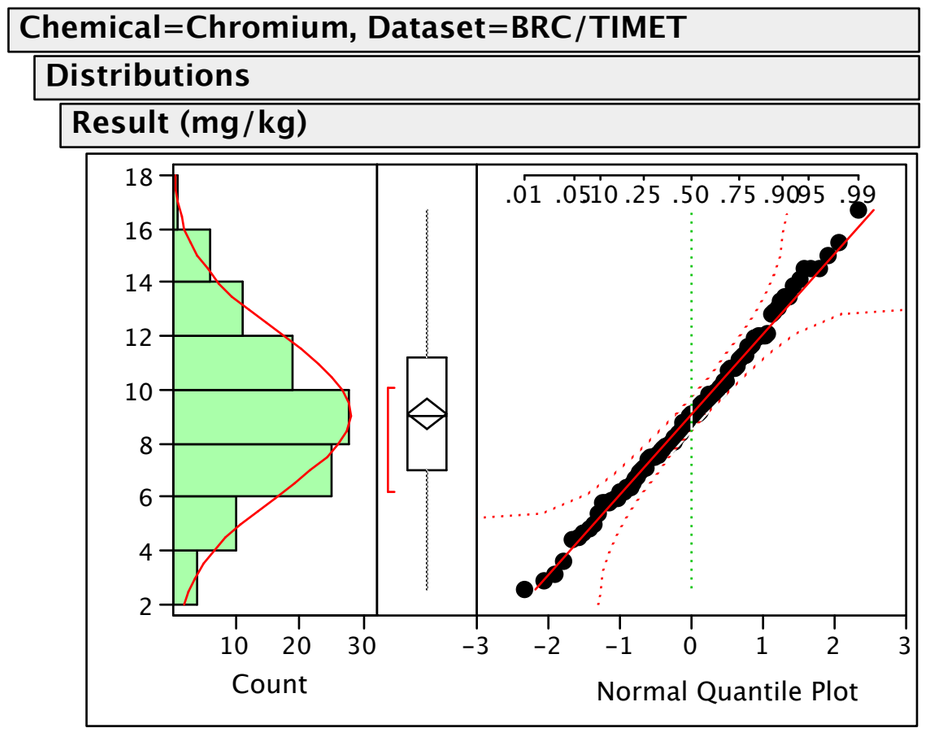
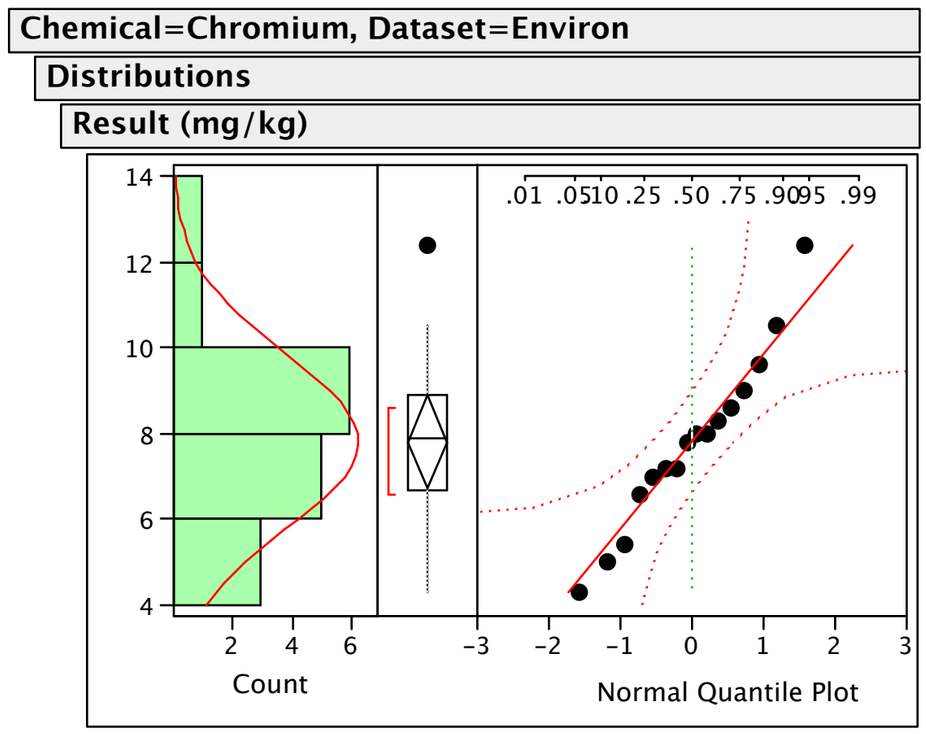
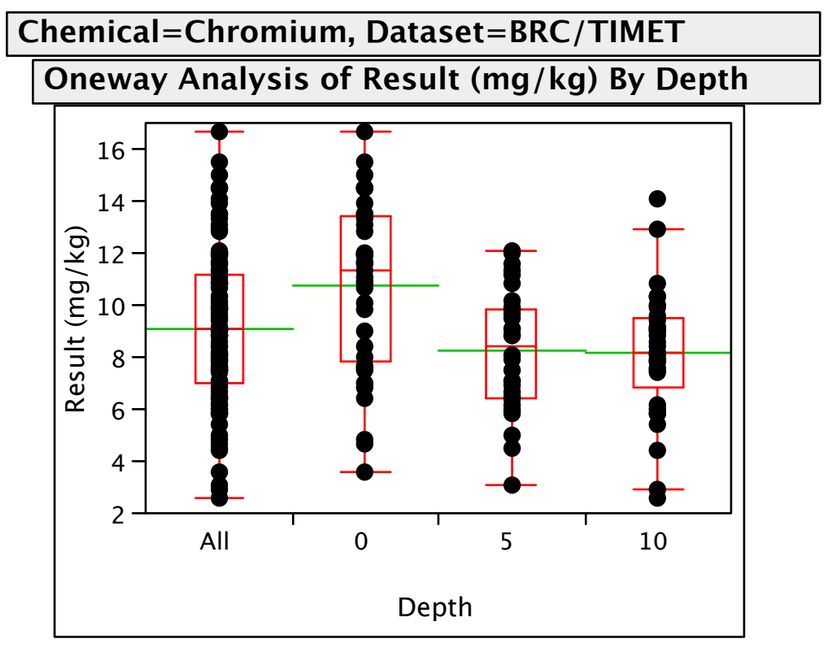


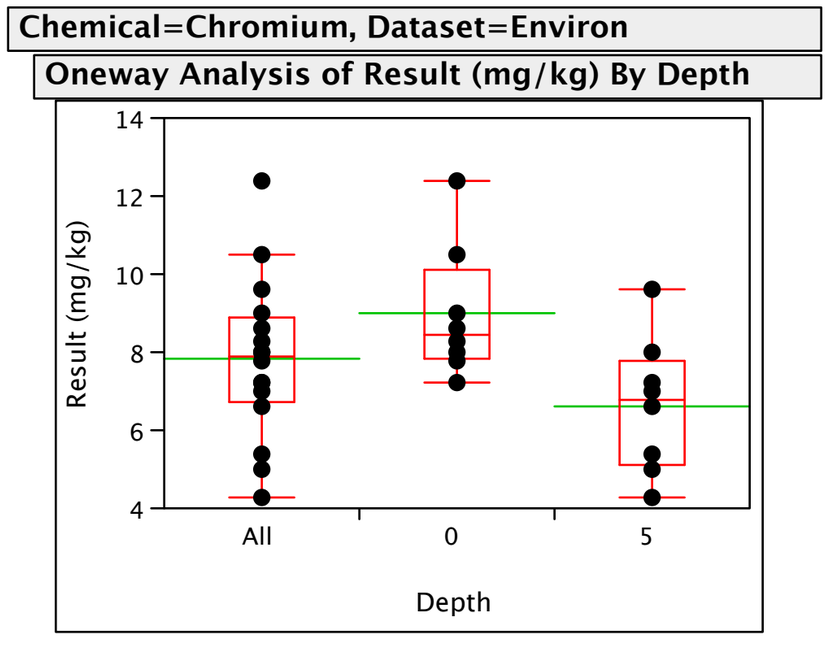
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









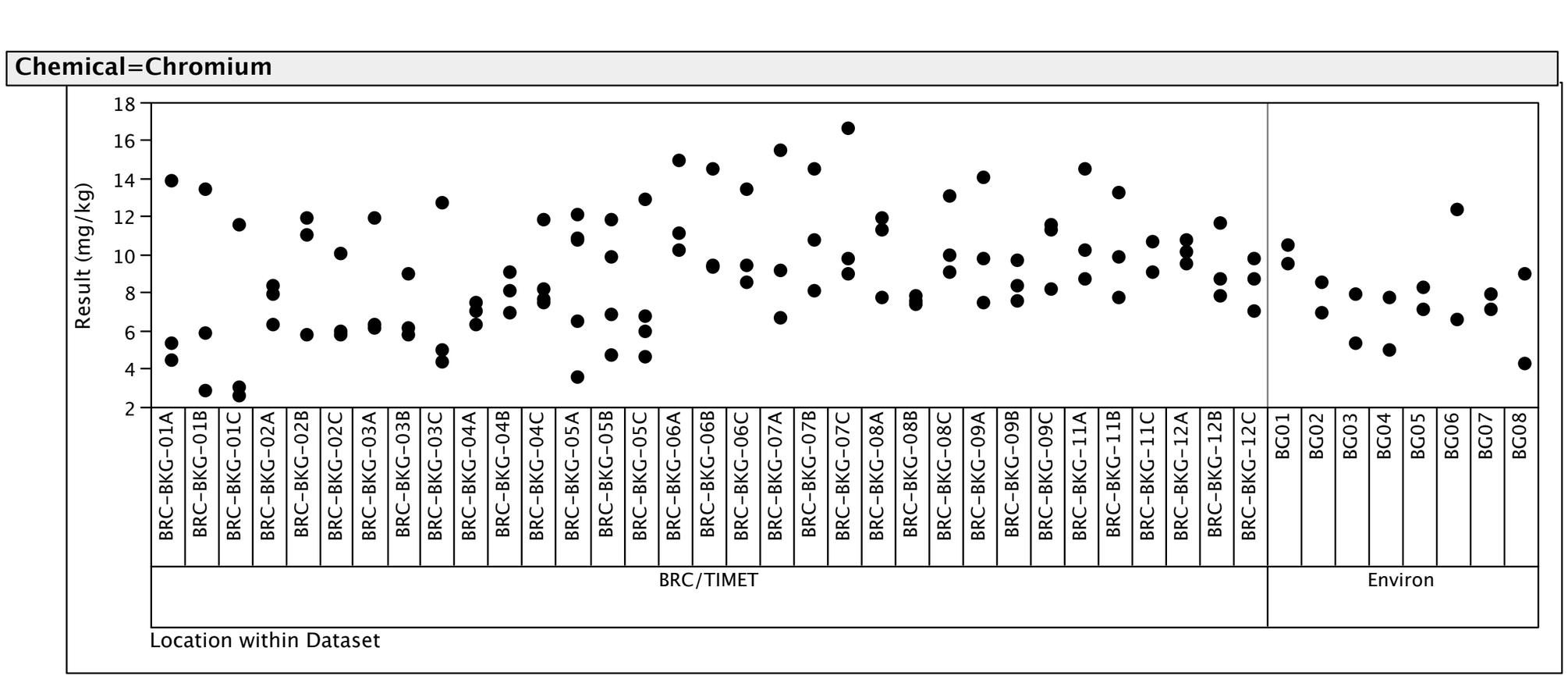
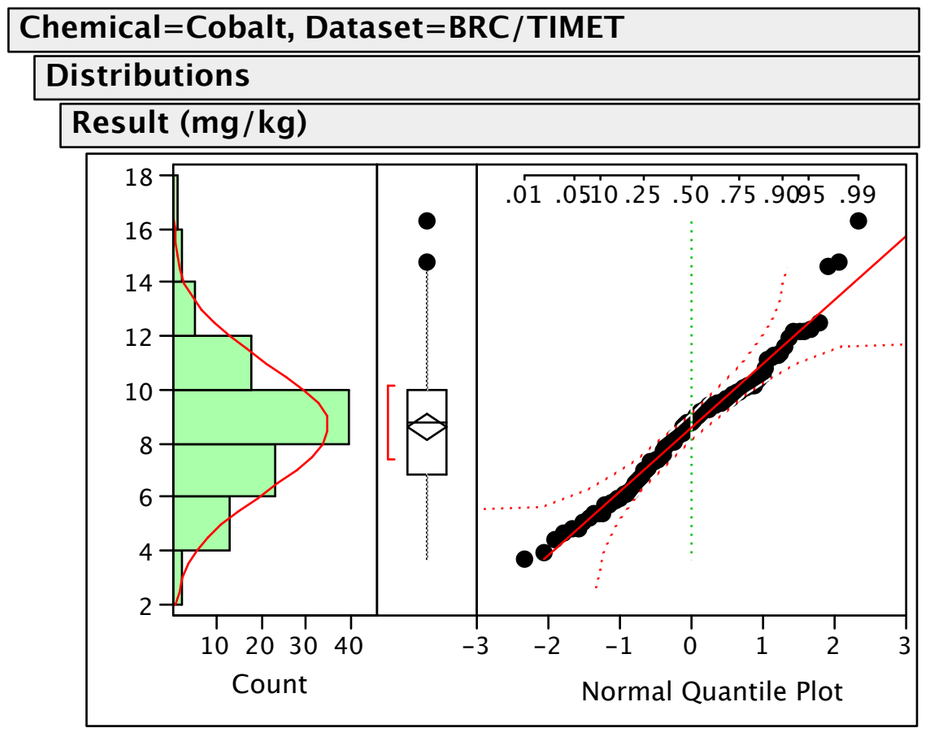
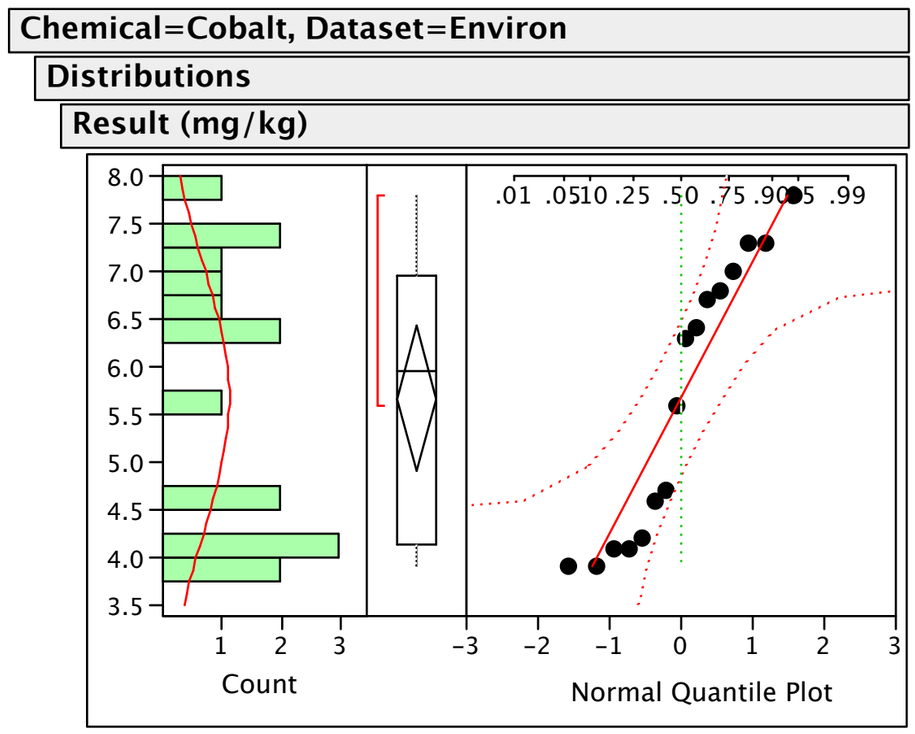
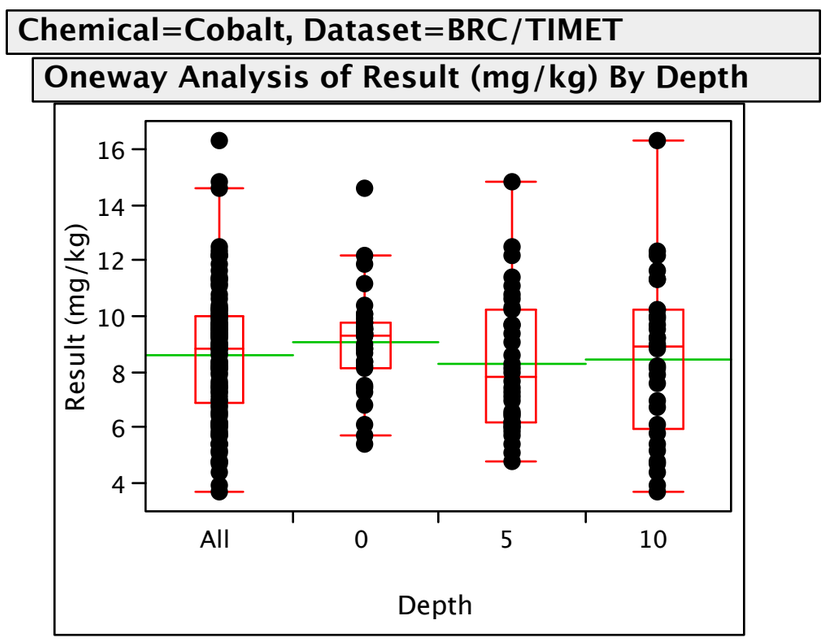


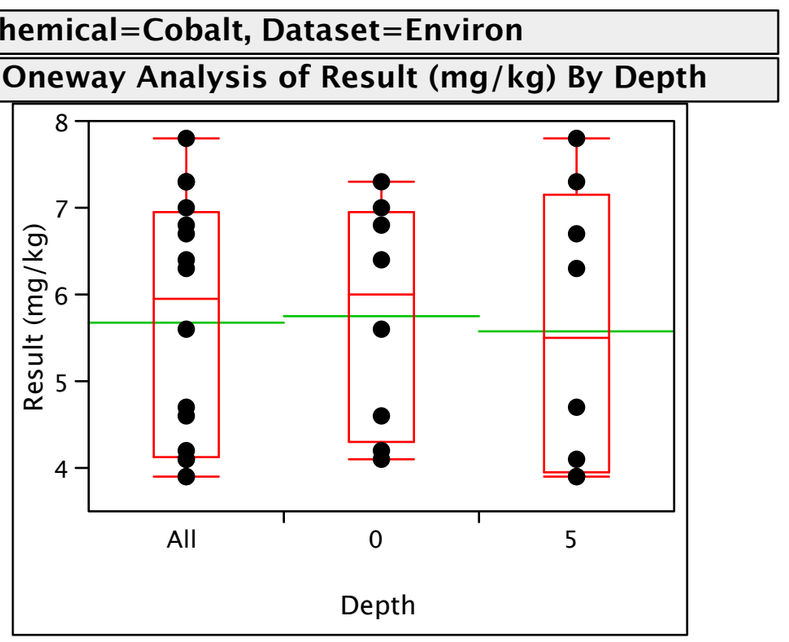
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









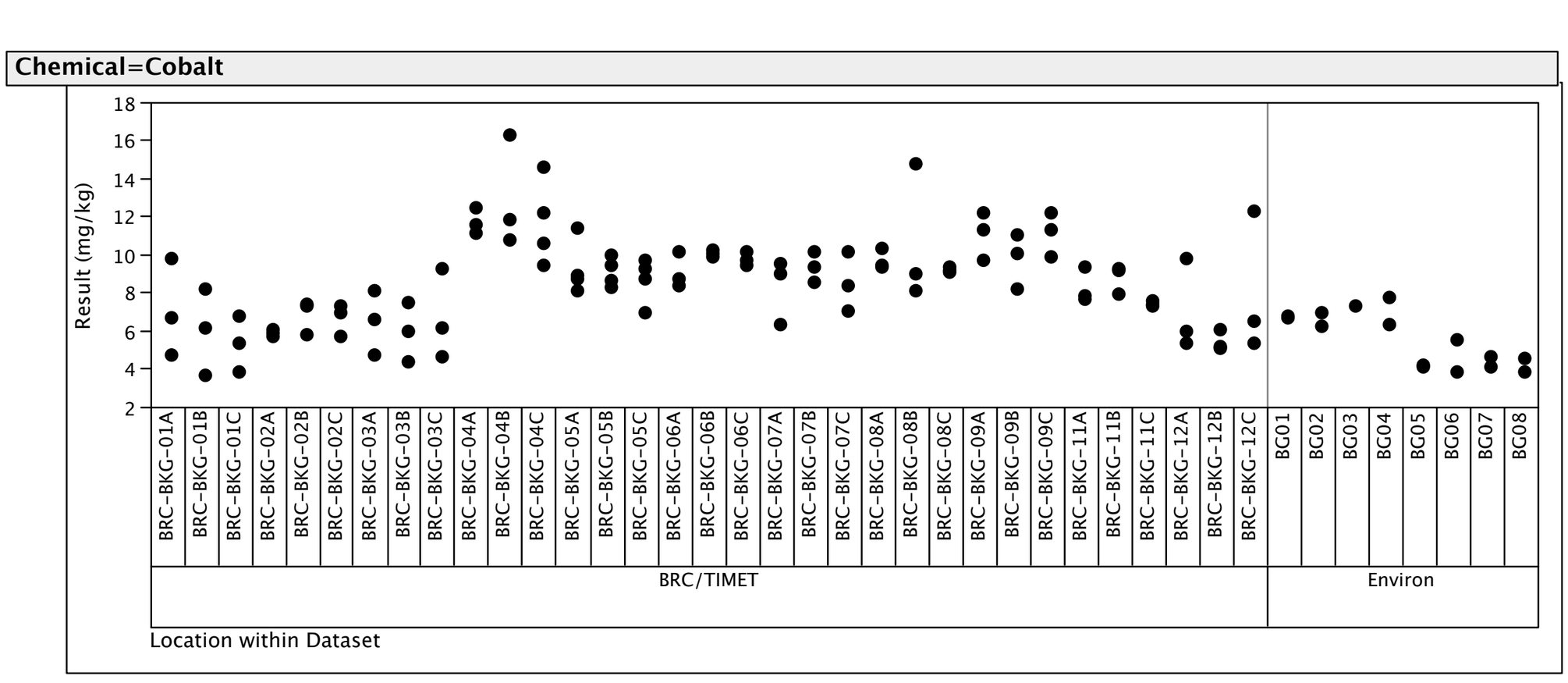
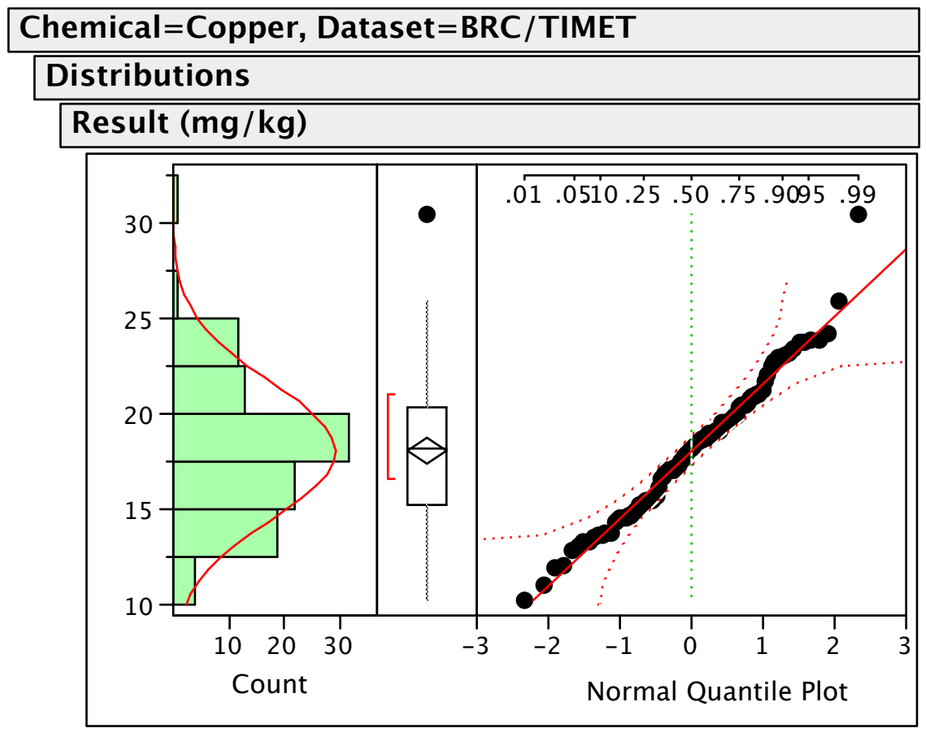
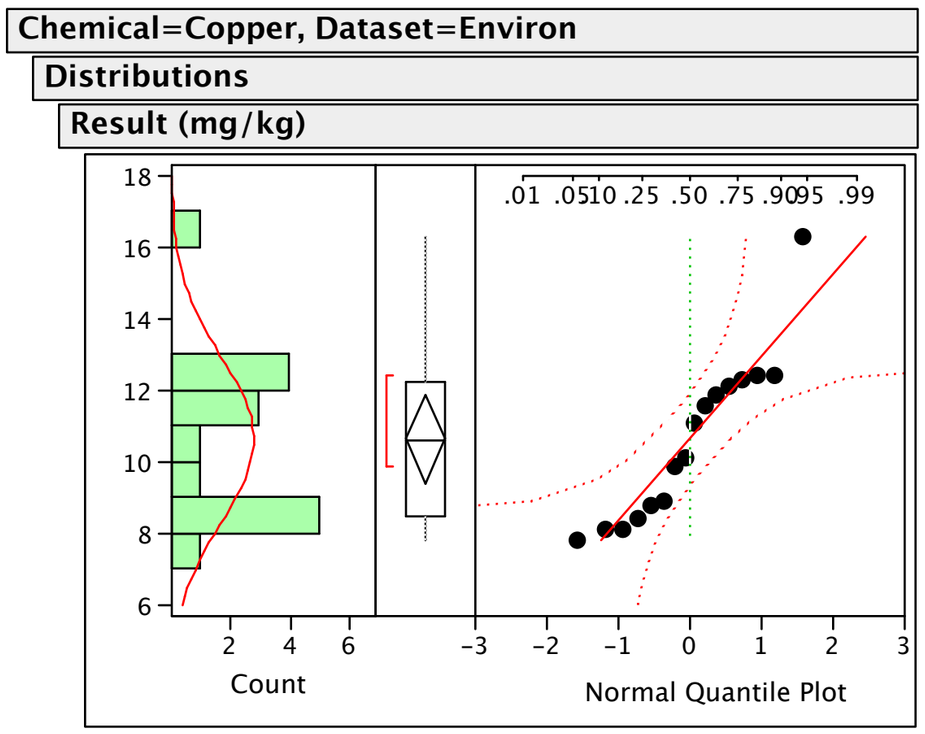
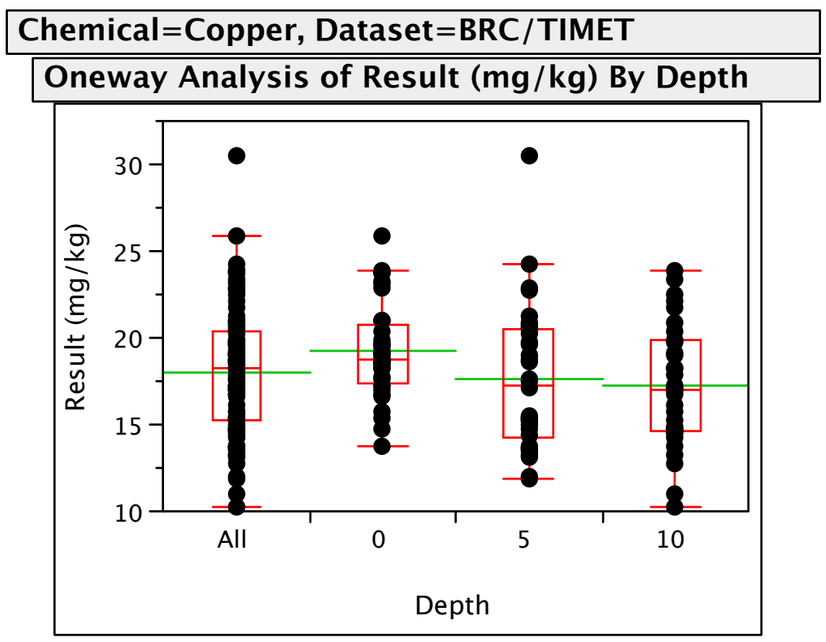


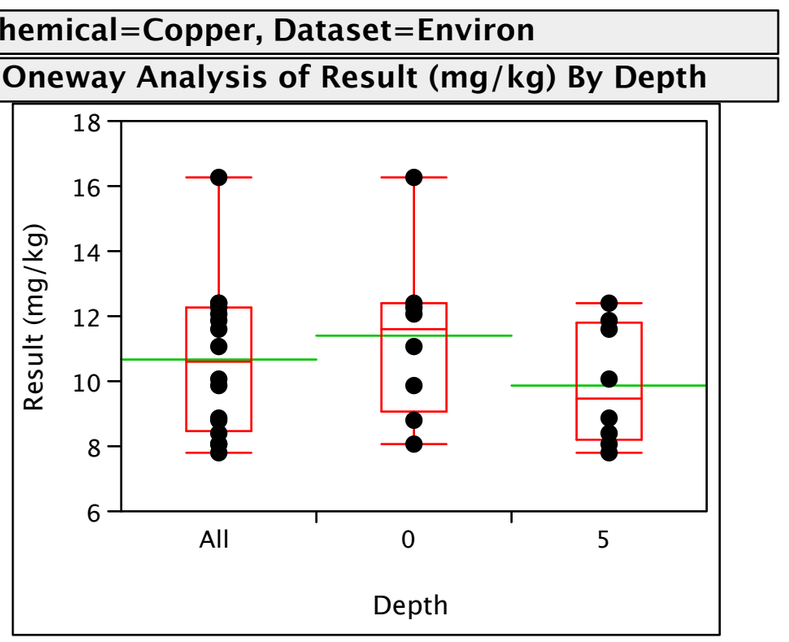
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









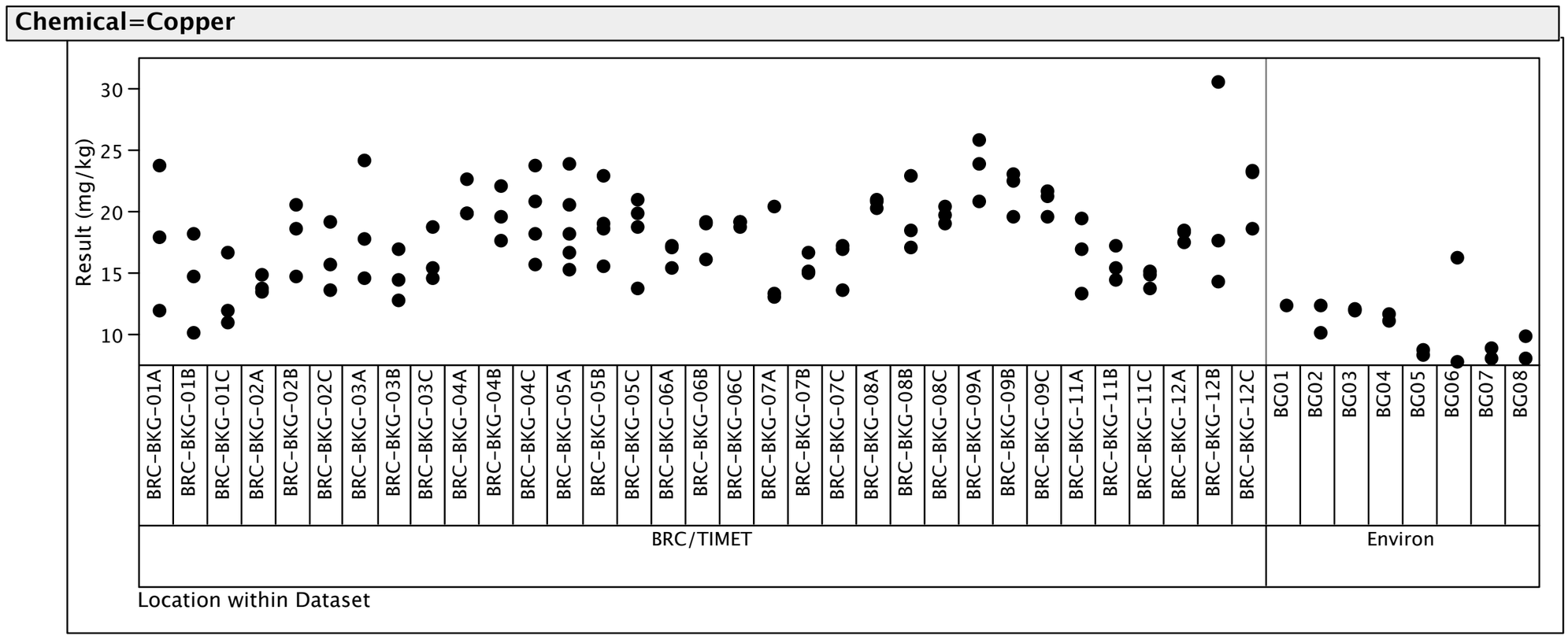
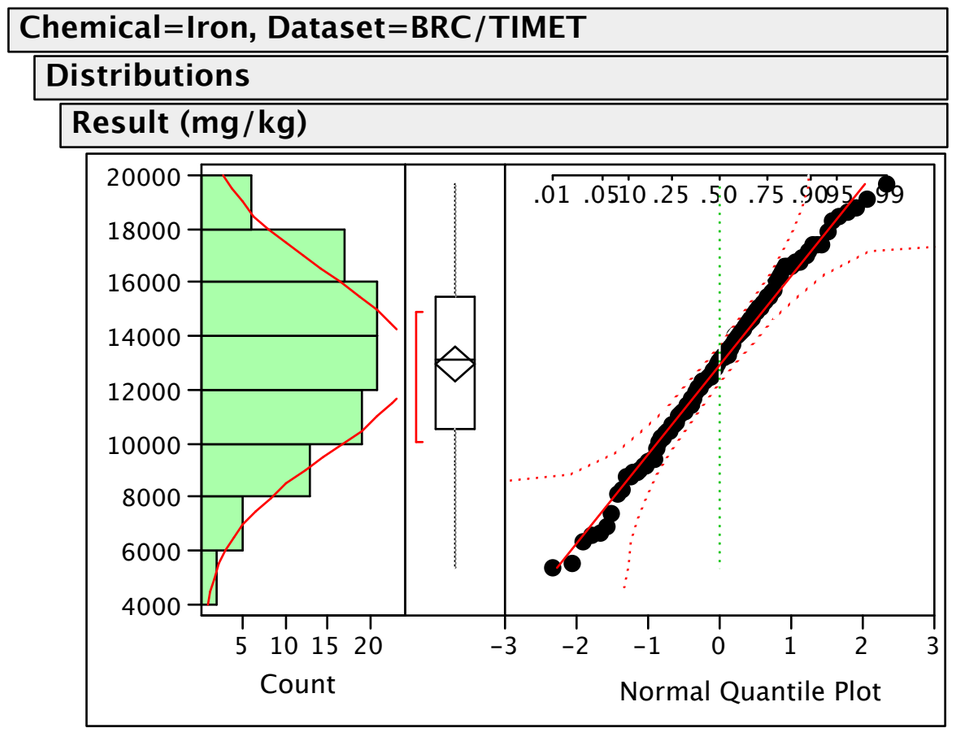
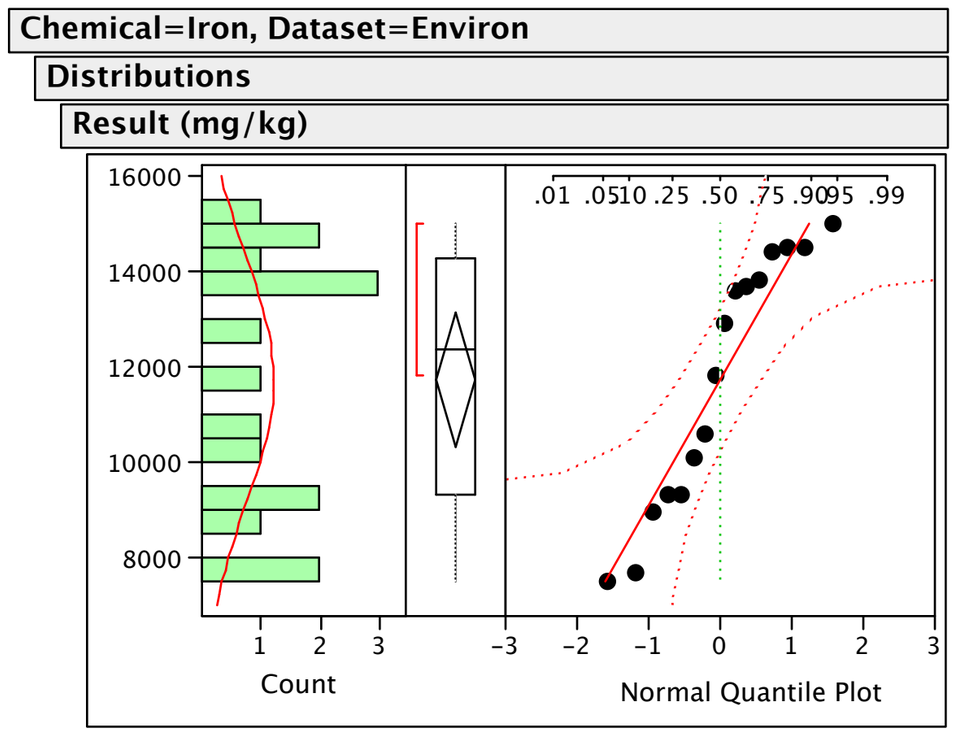
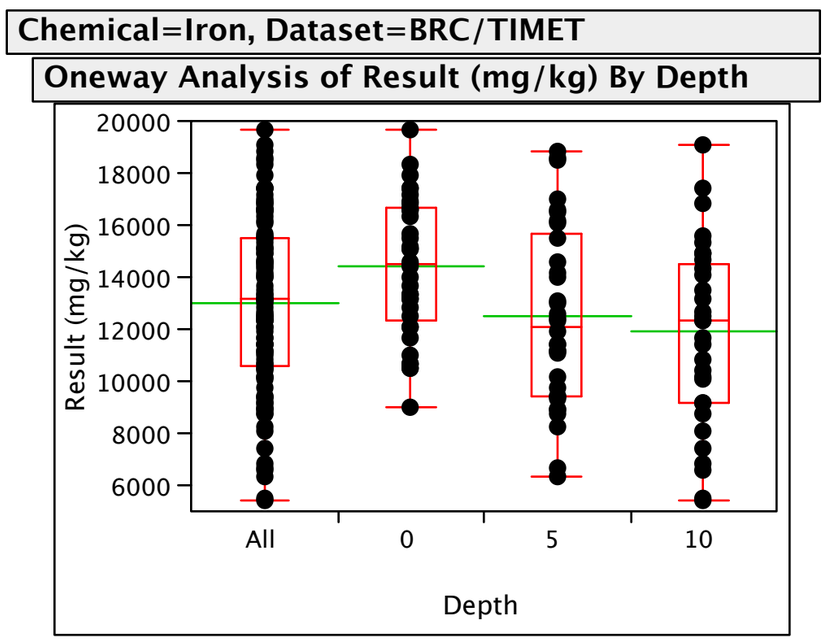


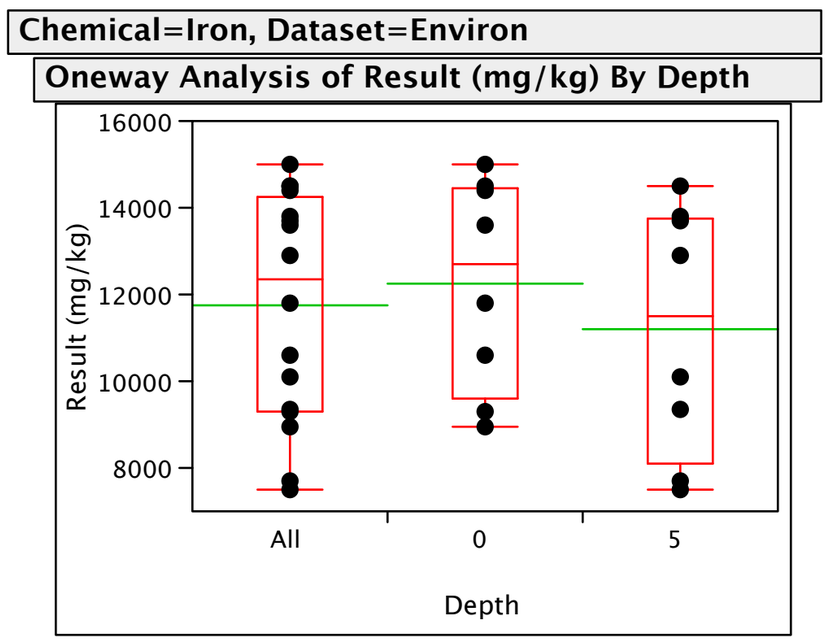
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









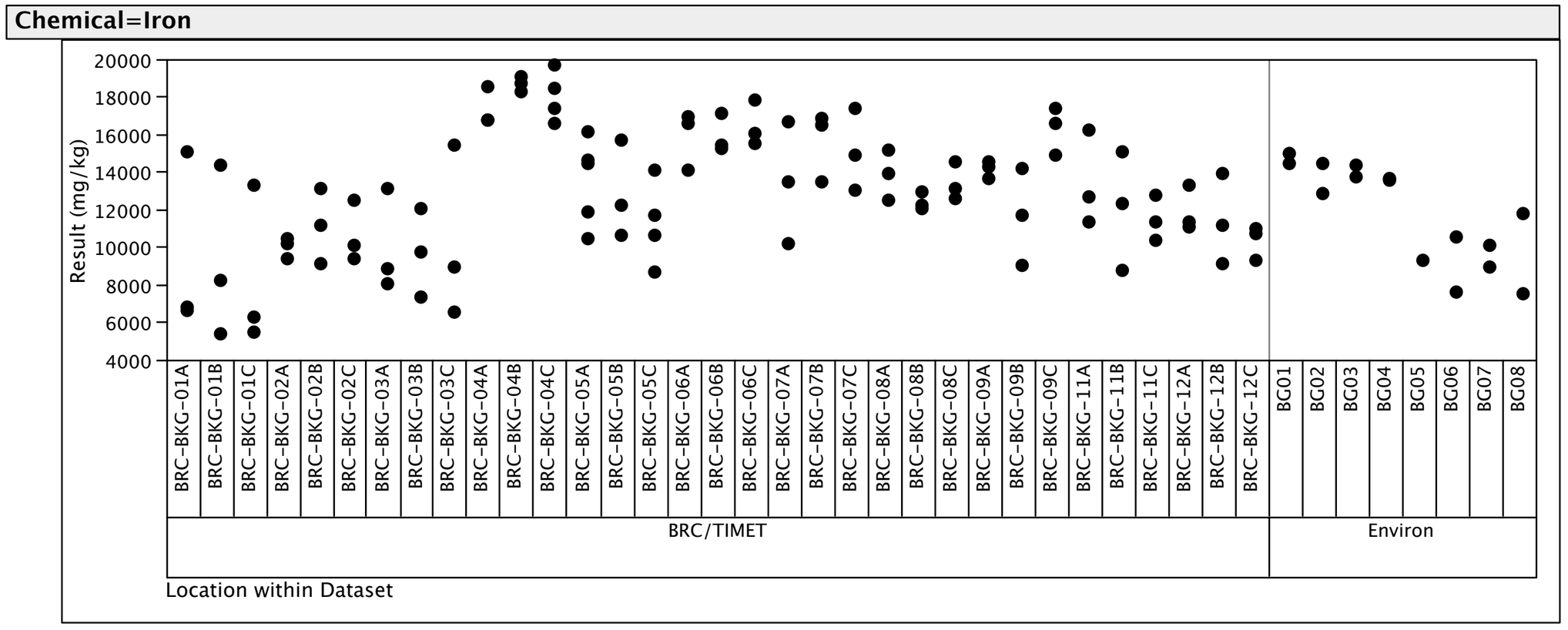
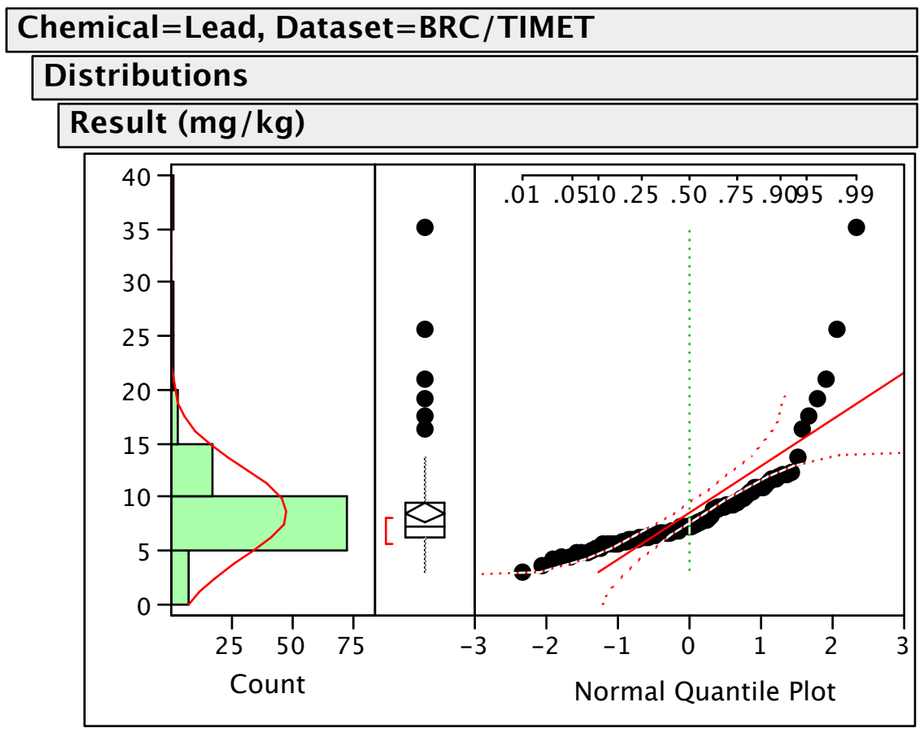
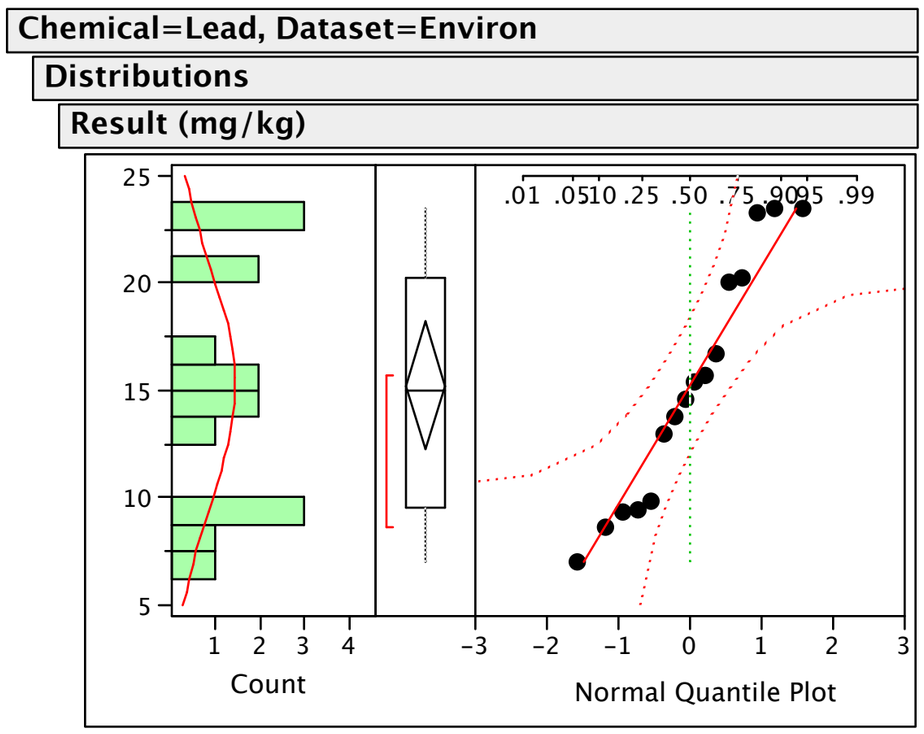
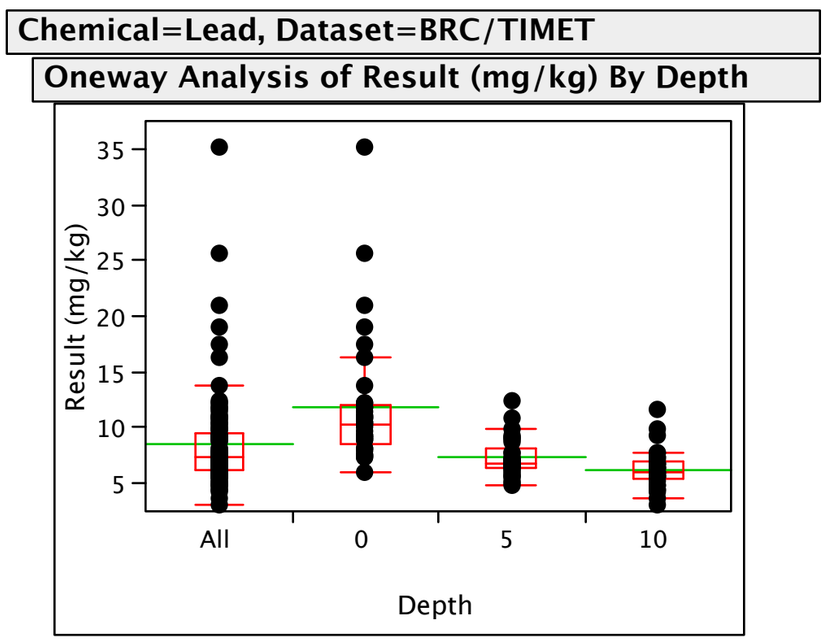


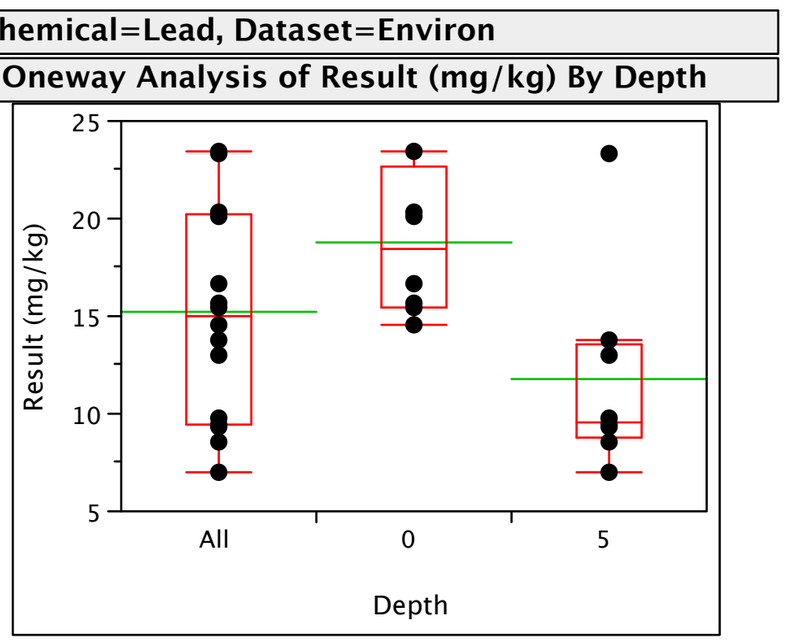
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









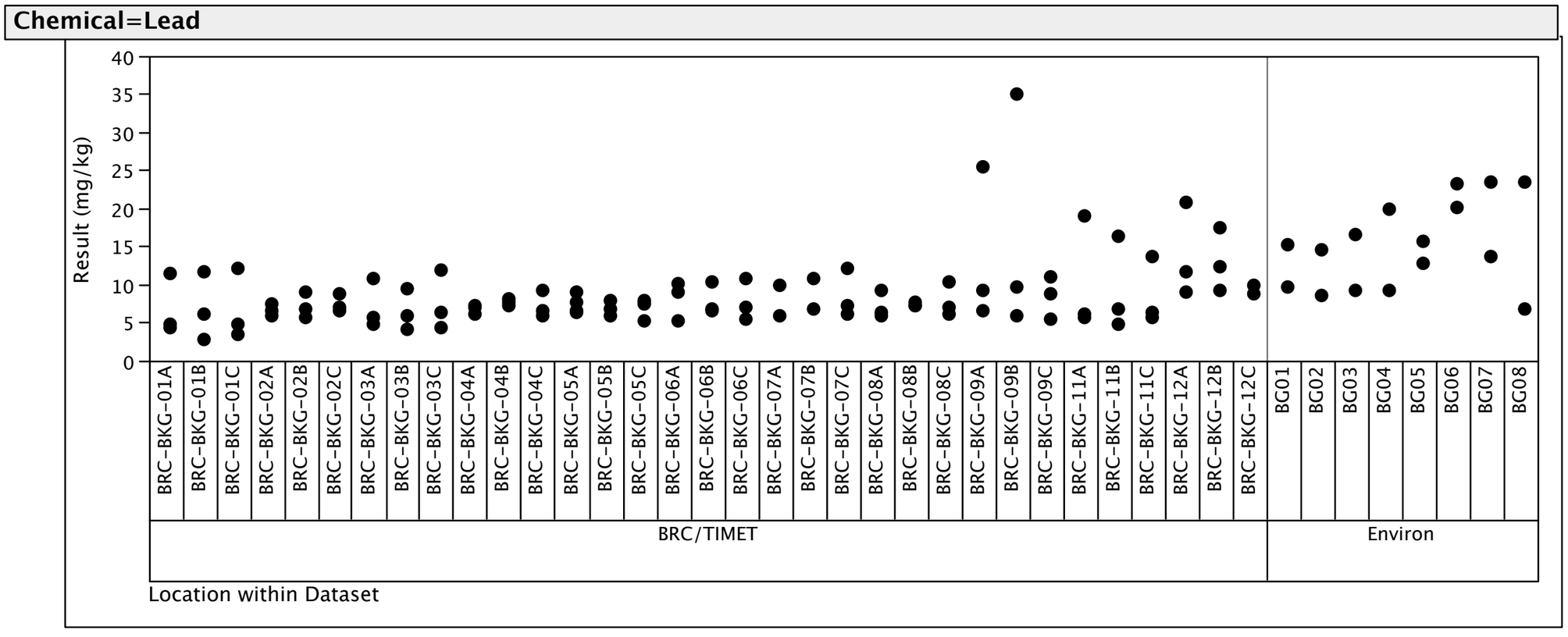
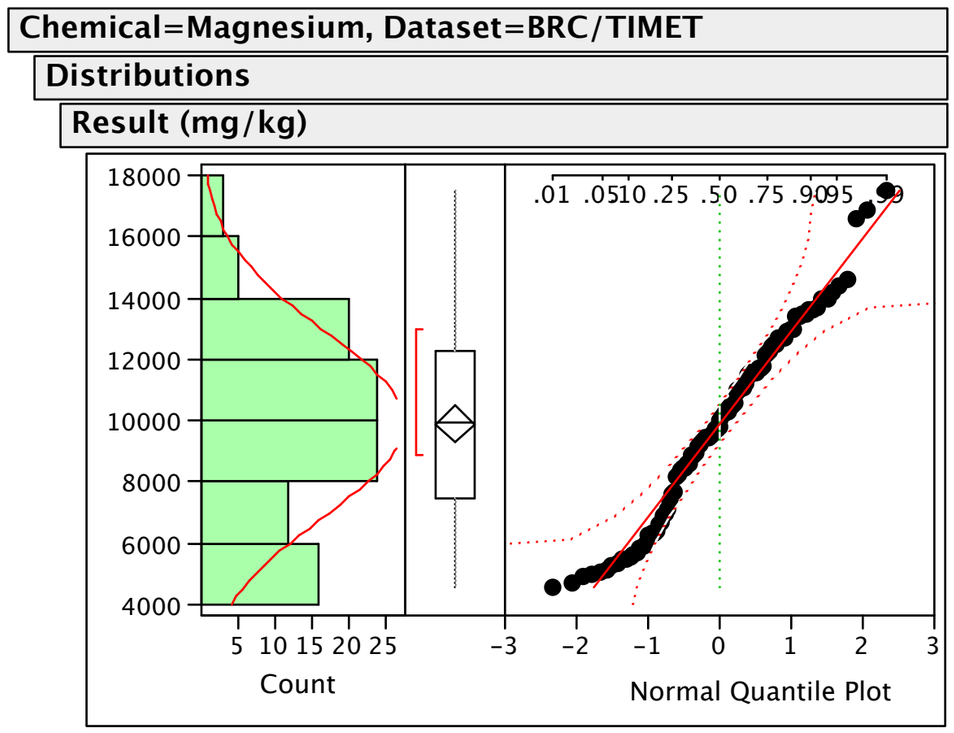
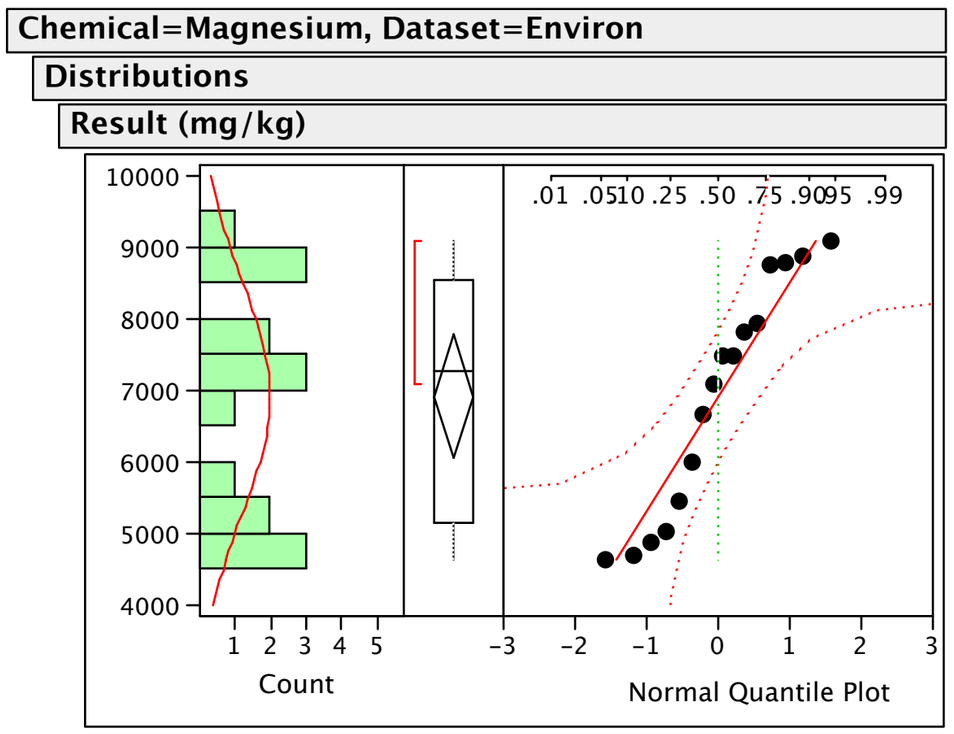
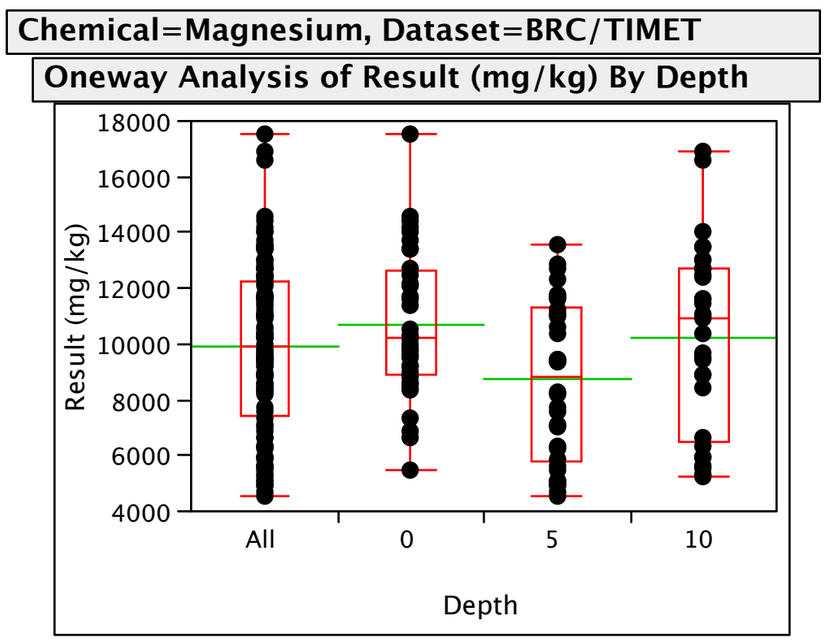


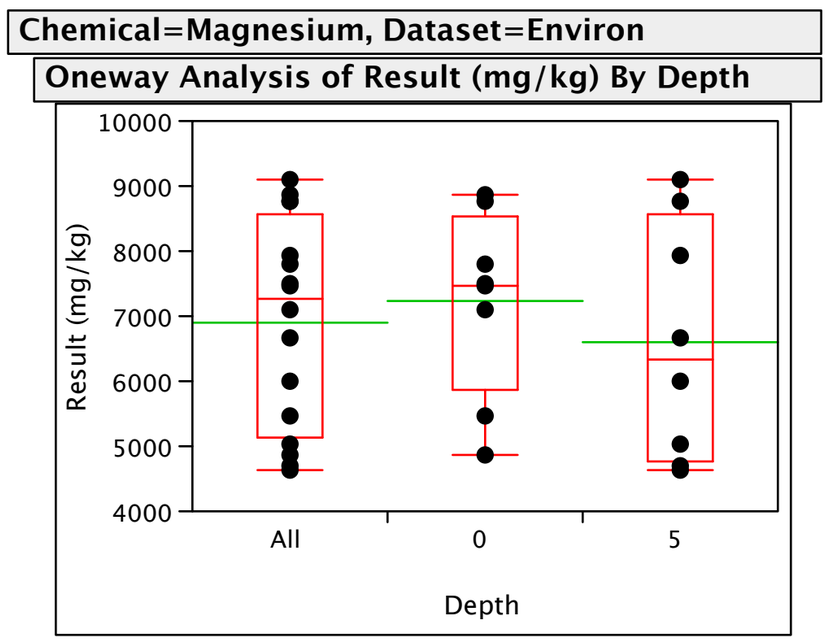
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









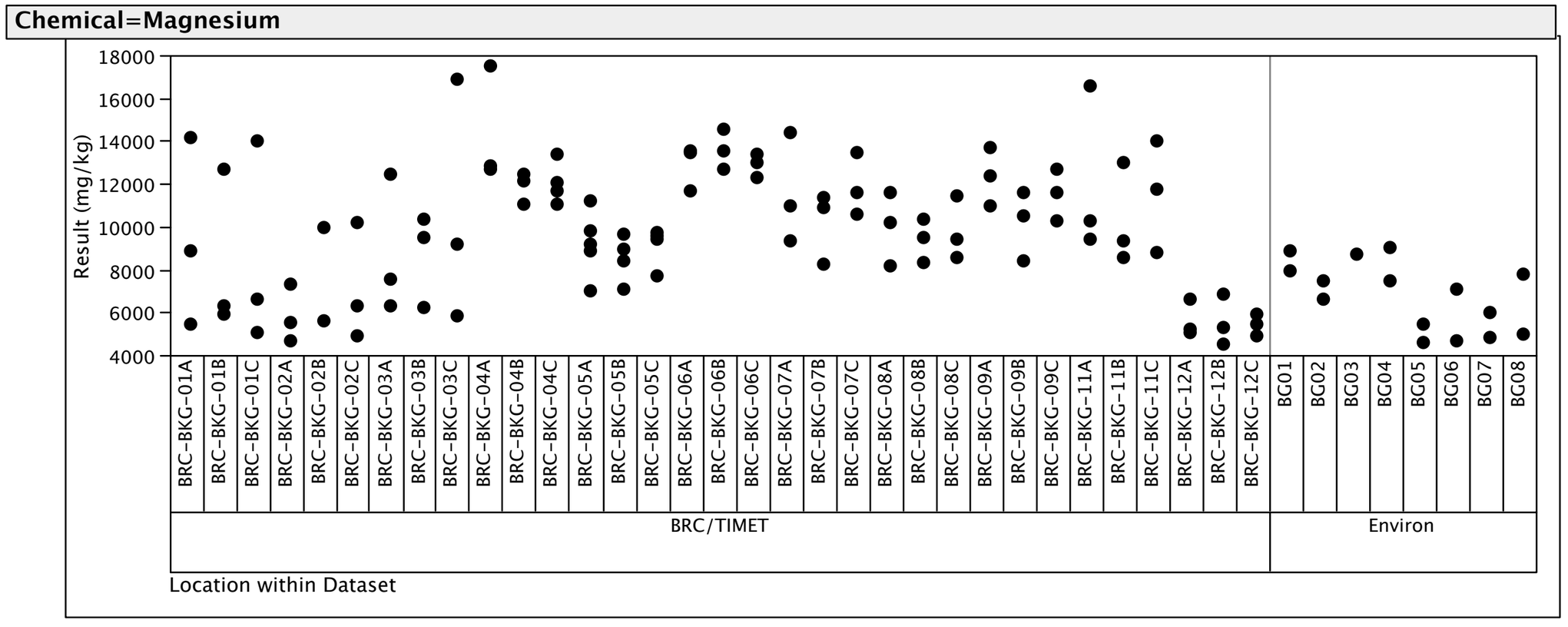
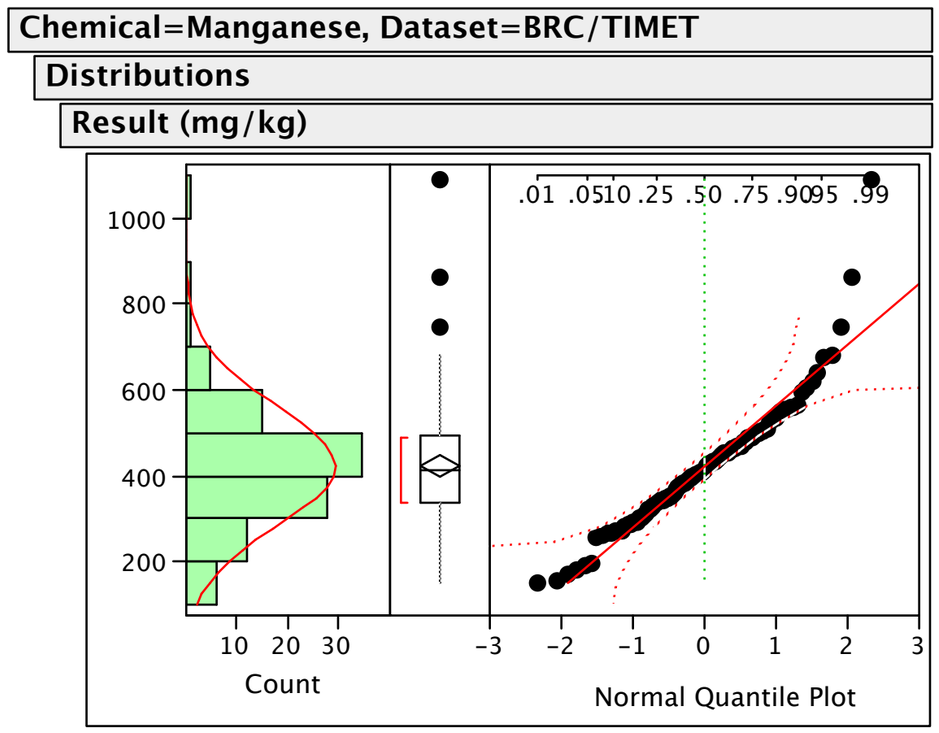
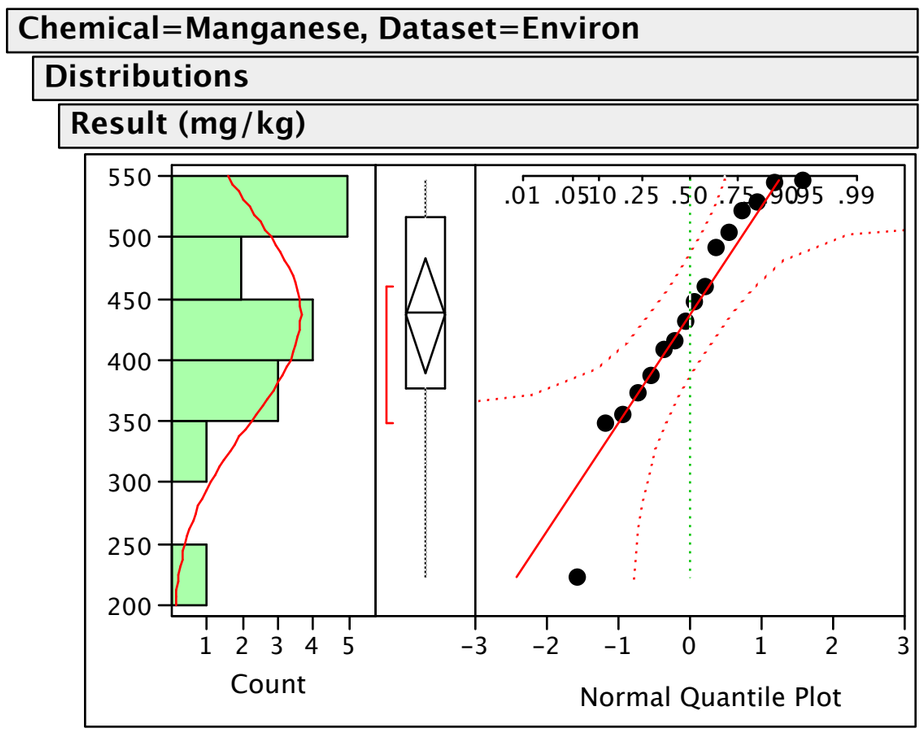
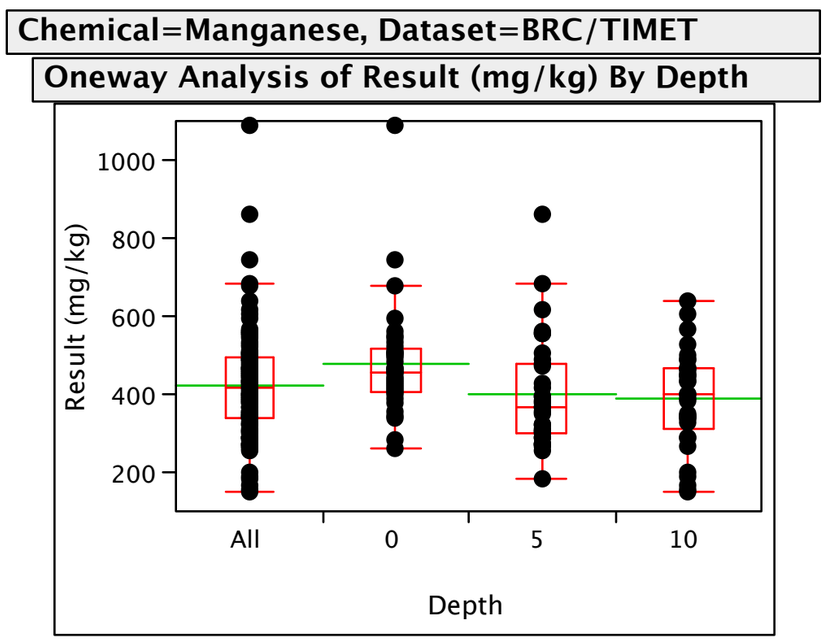


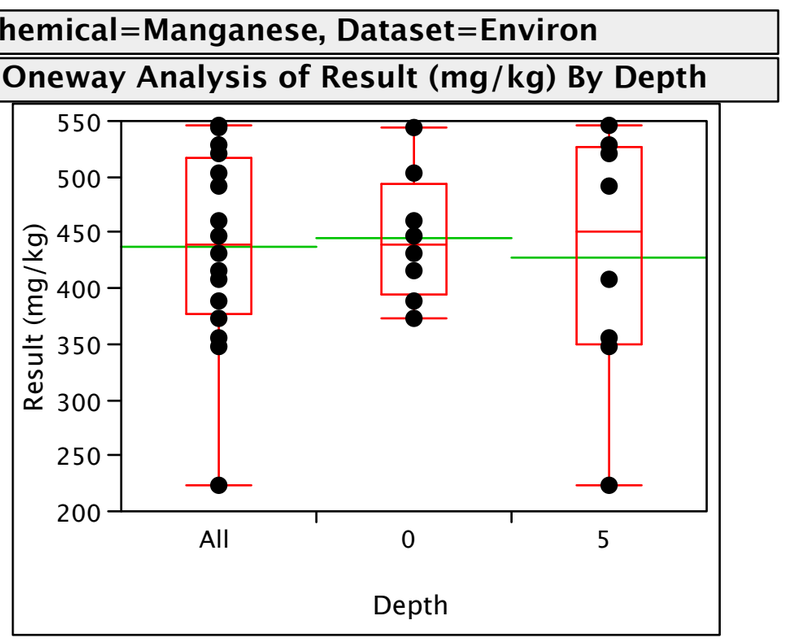
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









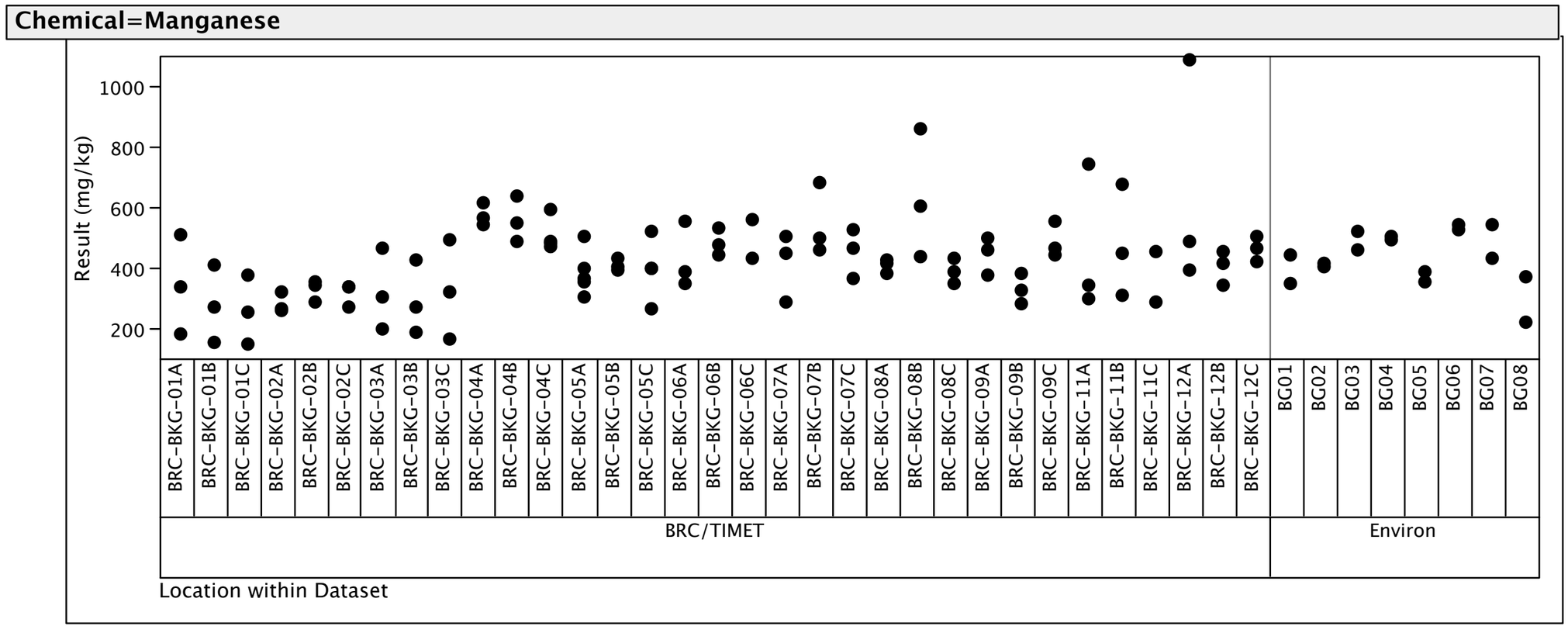
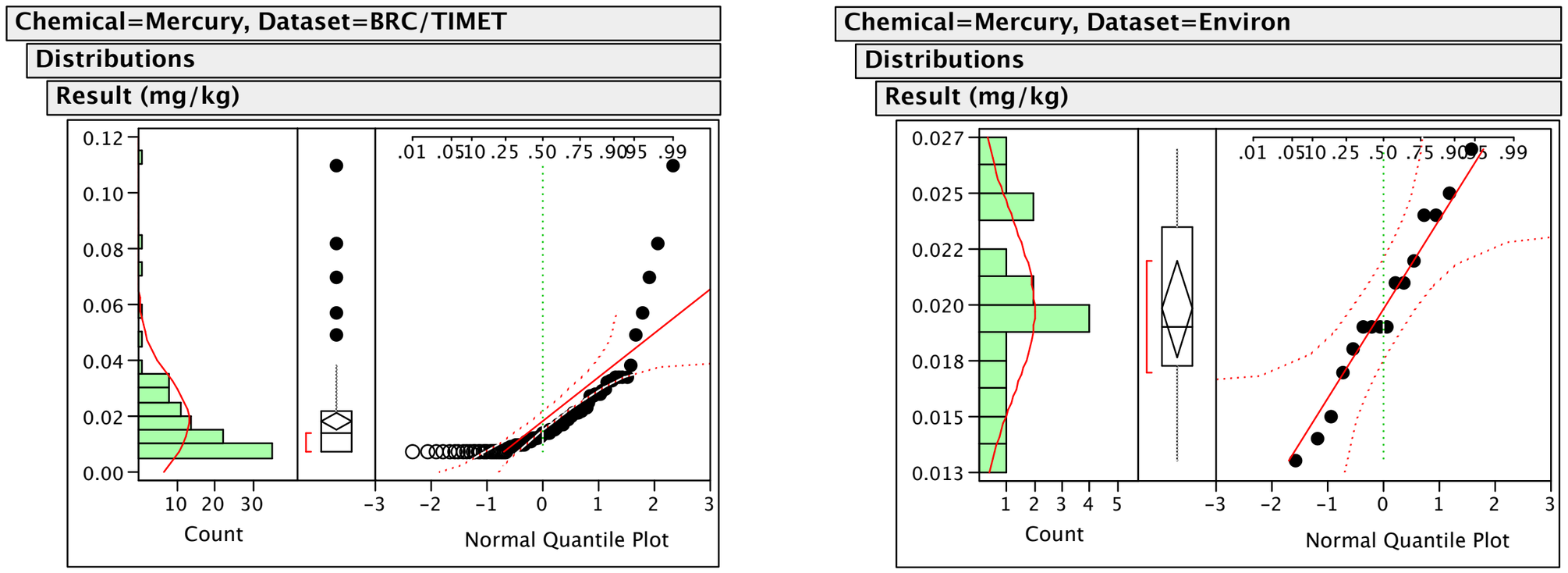
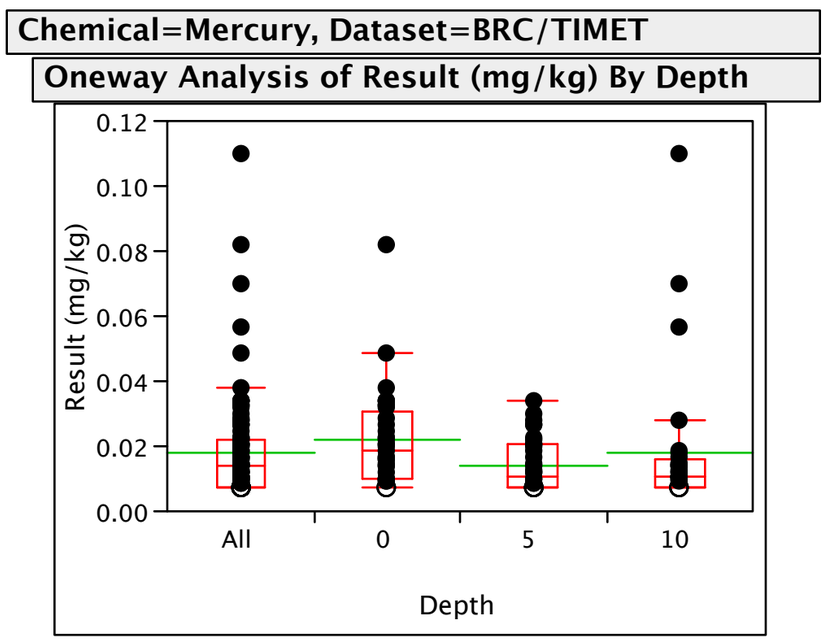
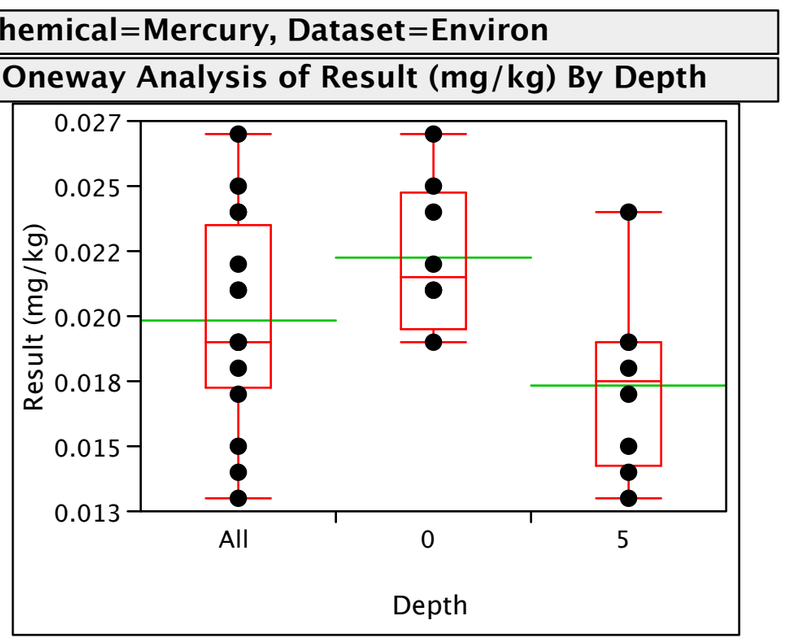


FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL







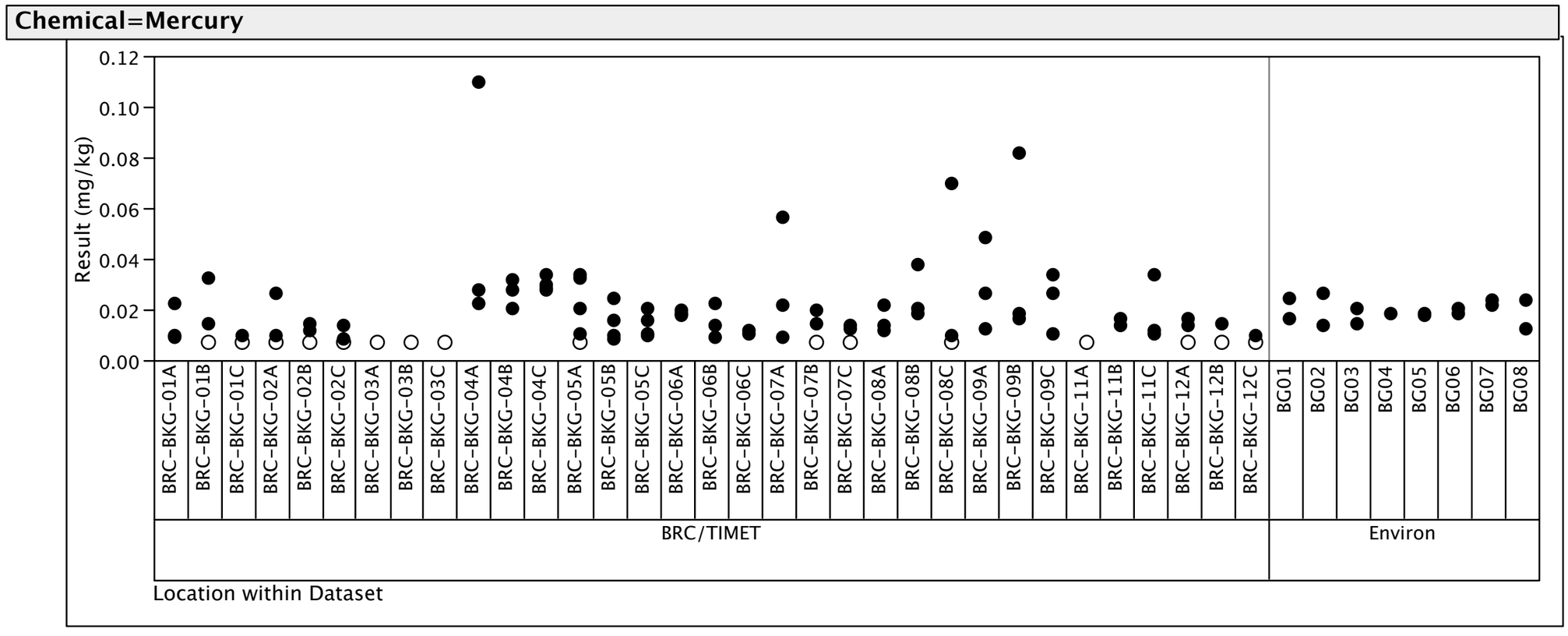
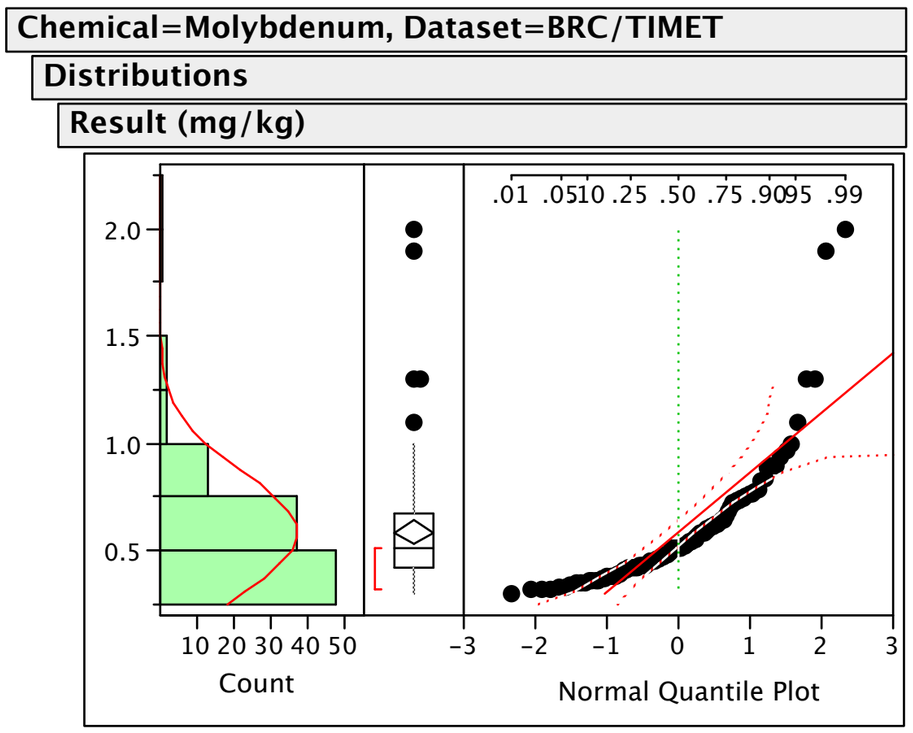
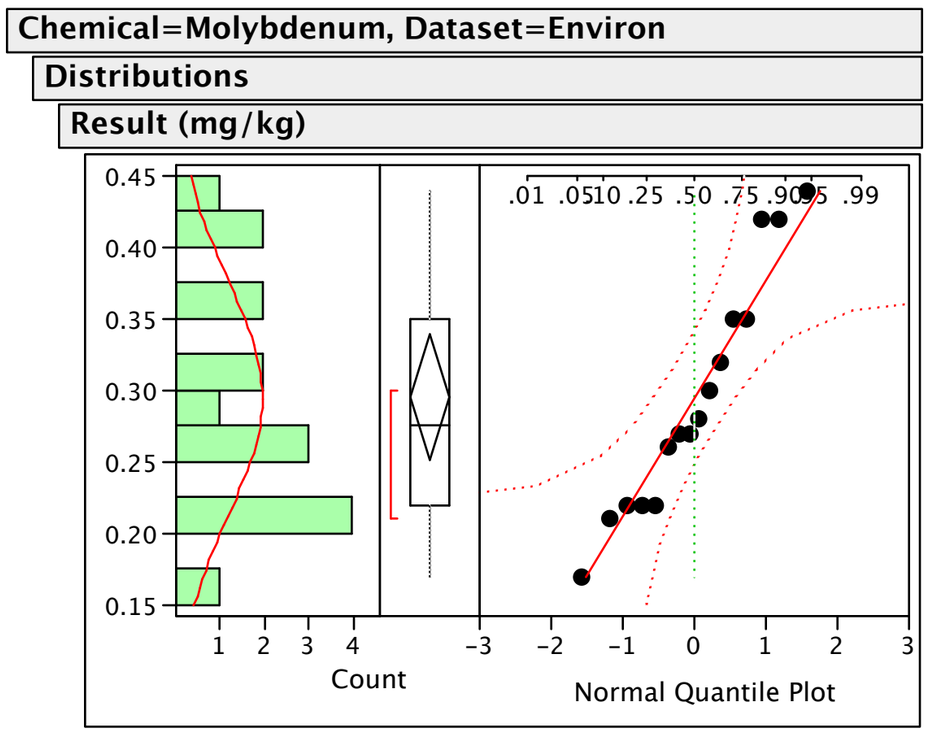
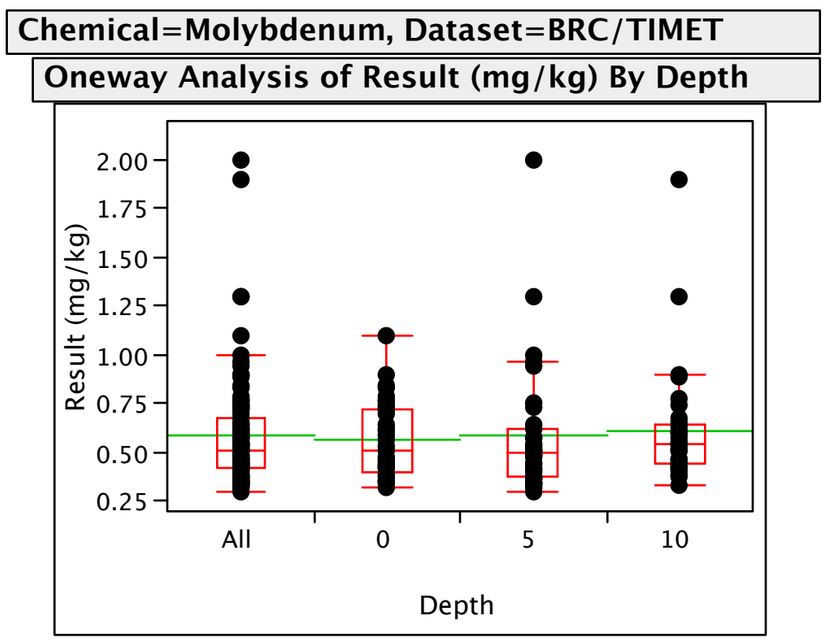


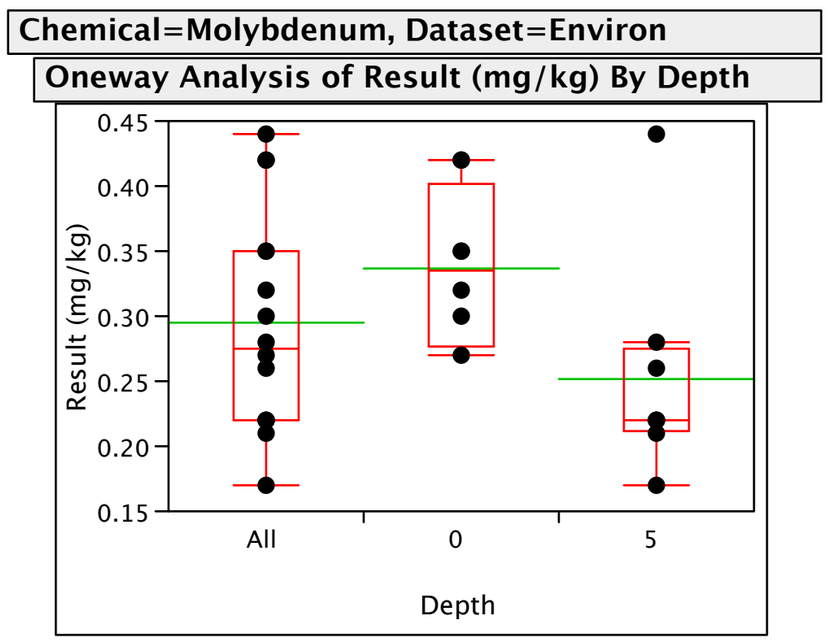
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









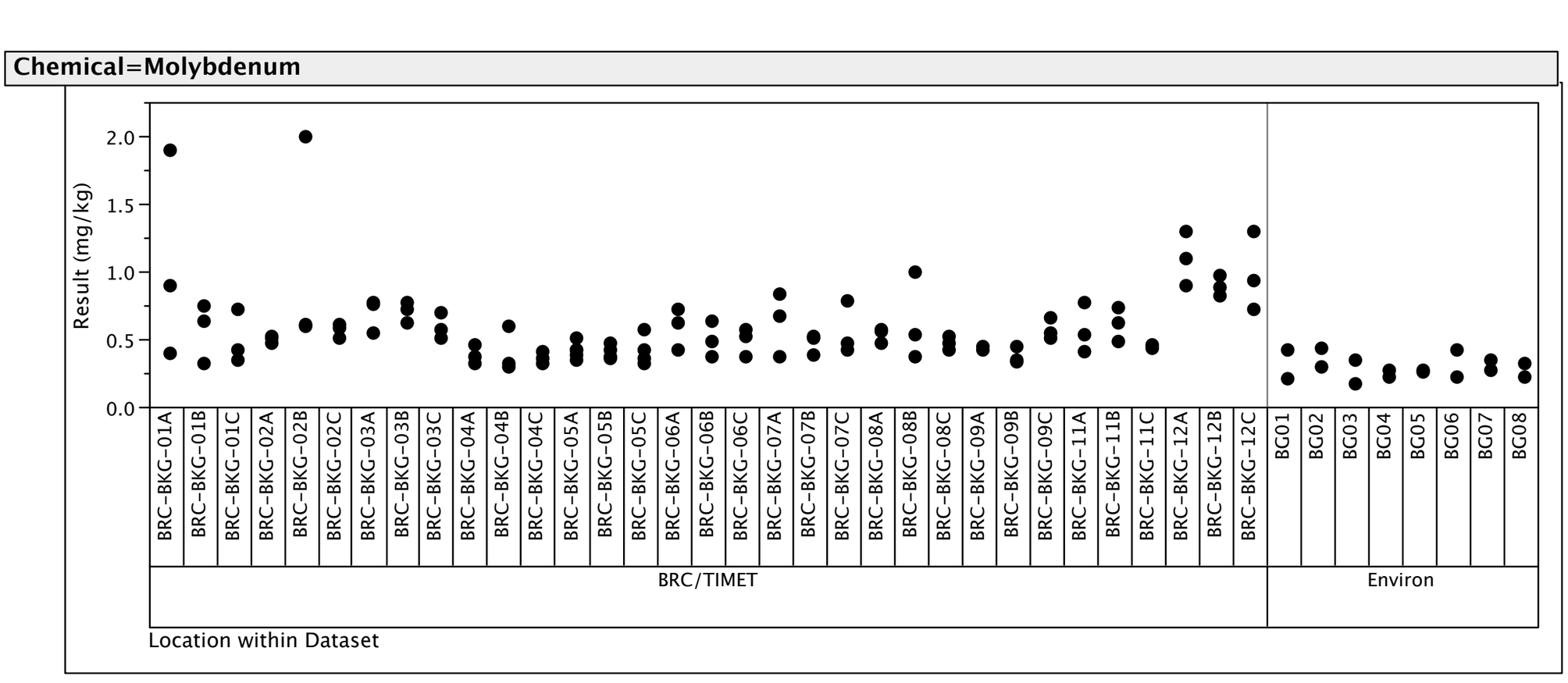
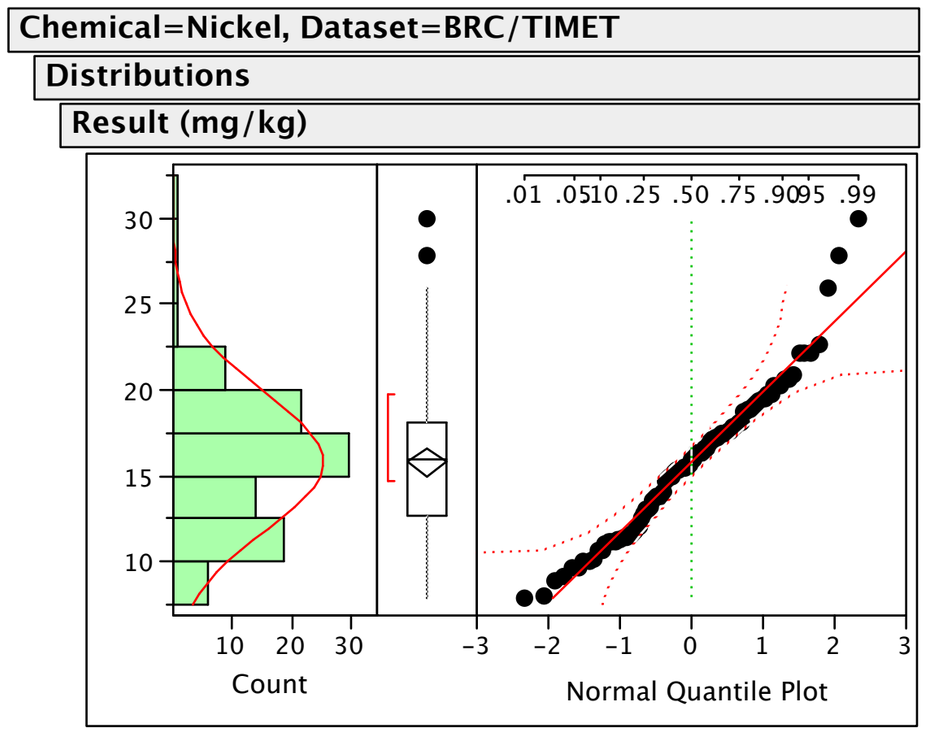
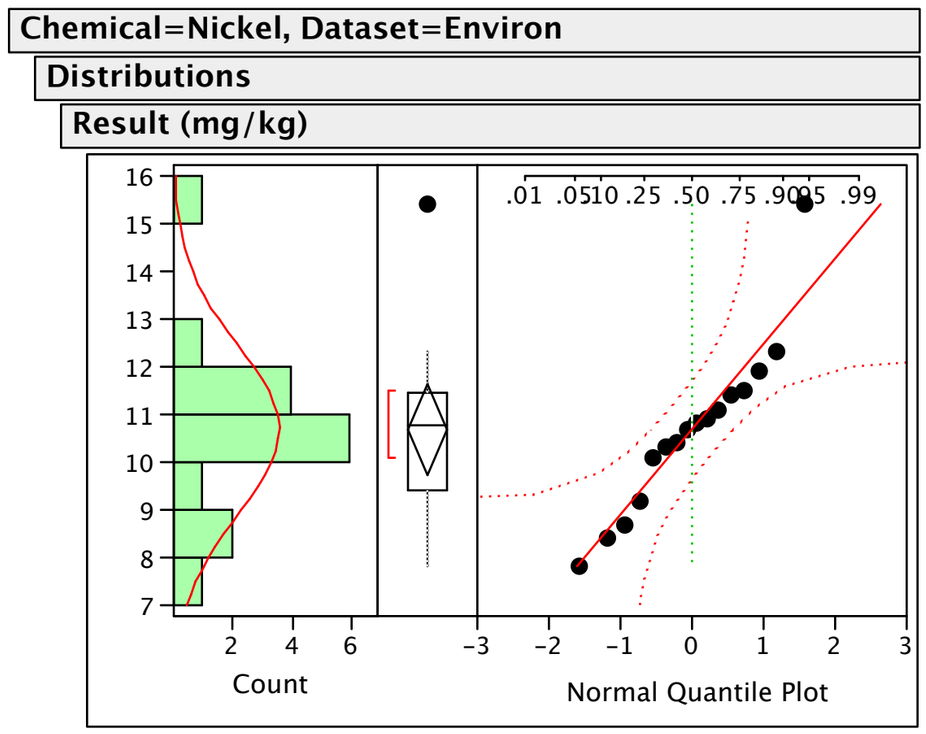
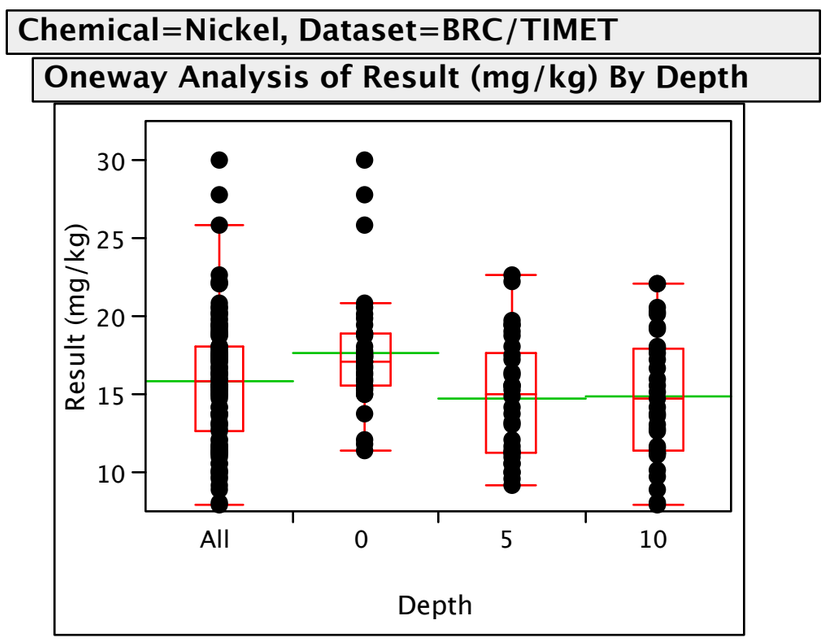


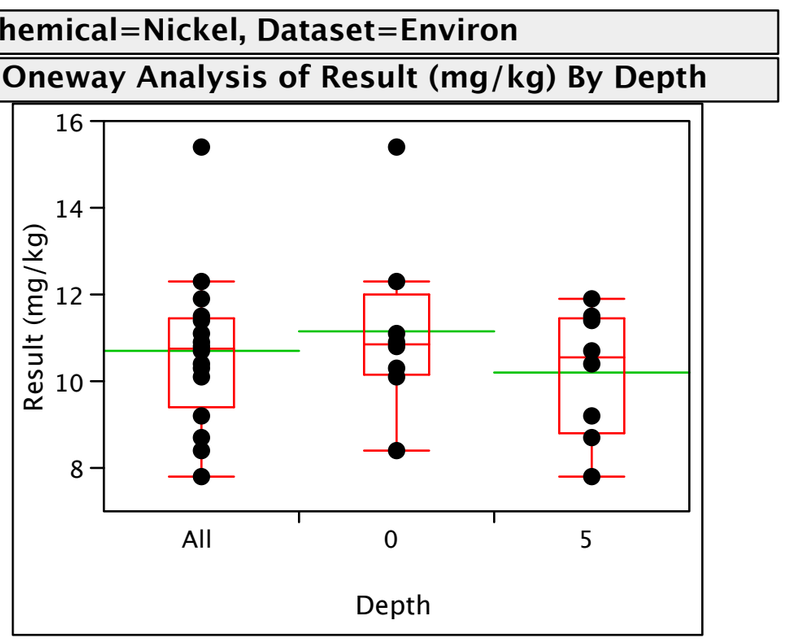
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









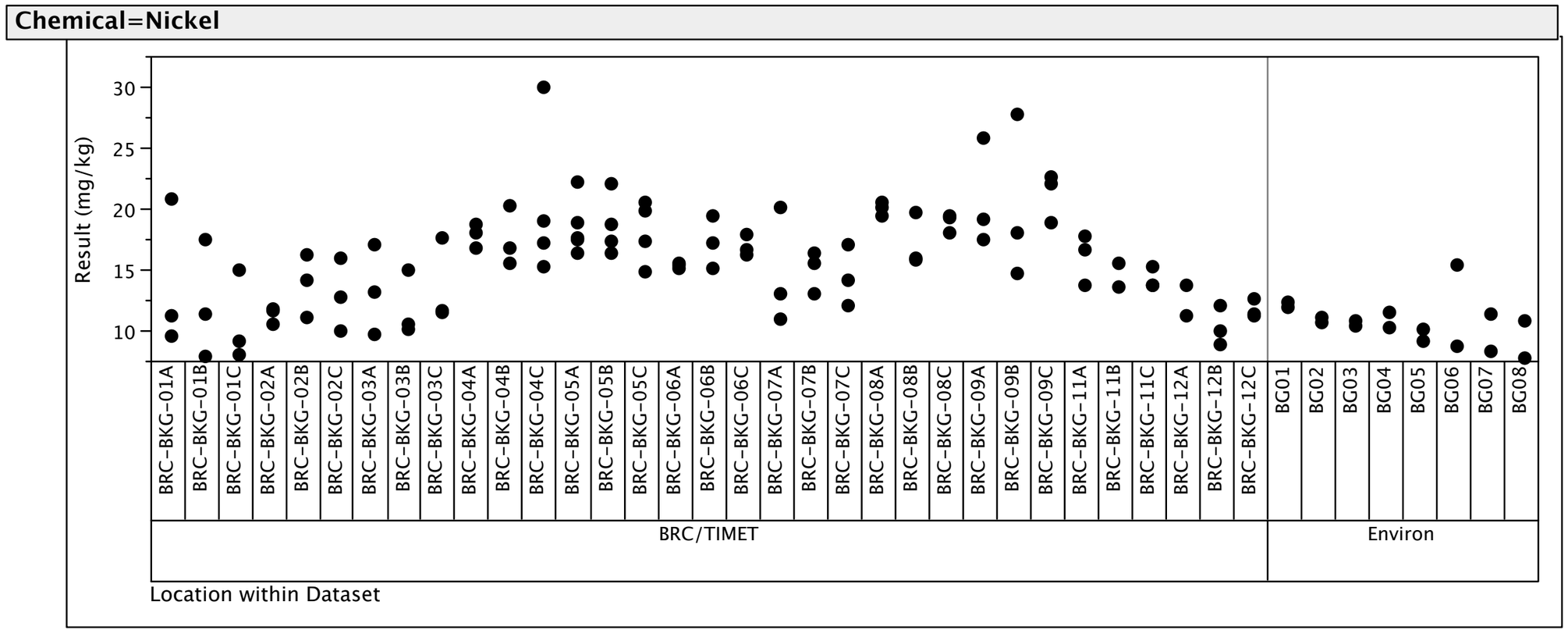
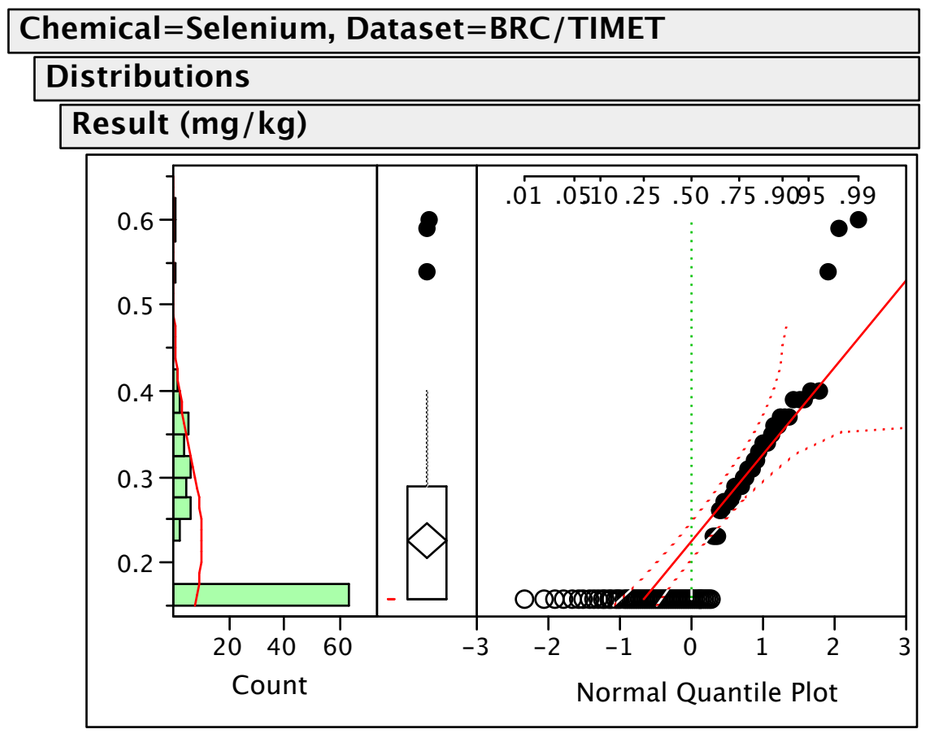
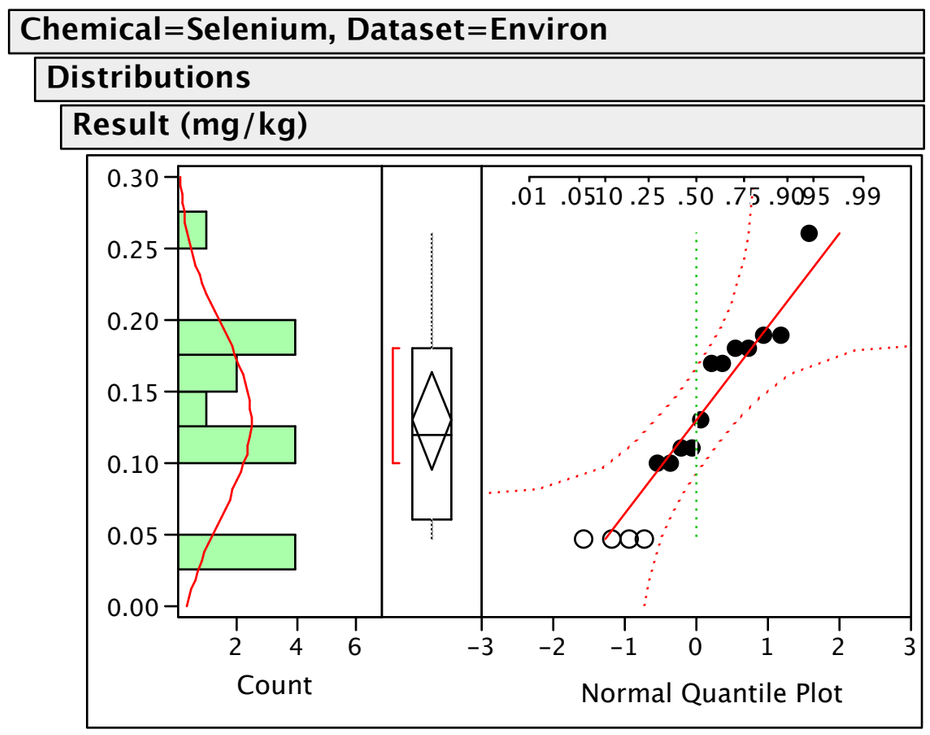
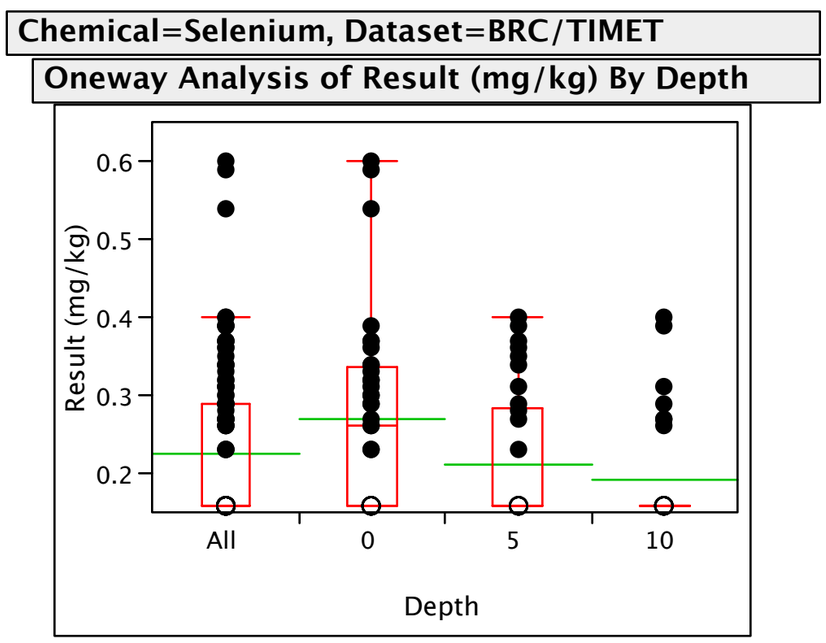


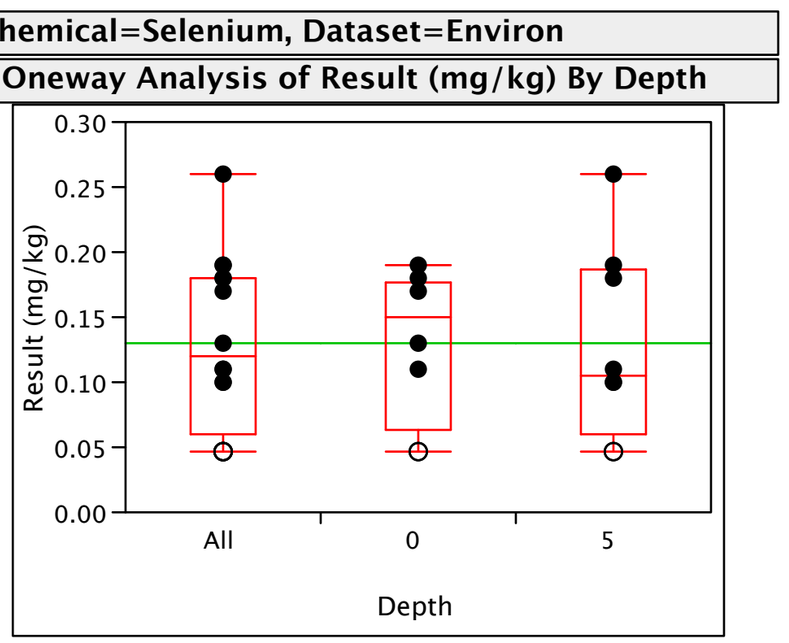
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









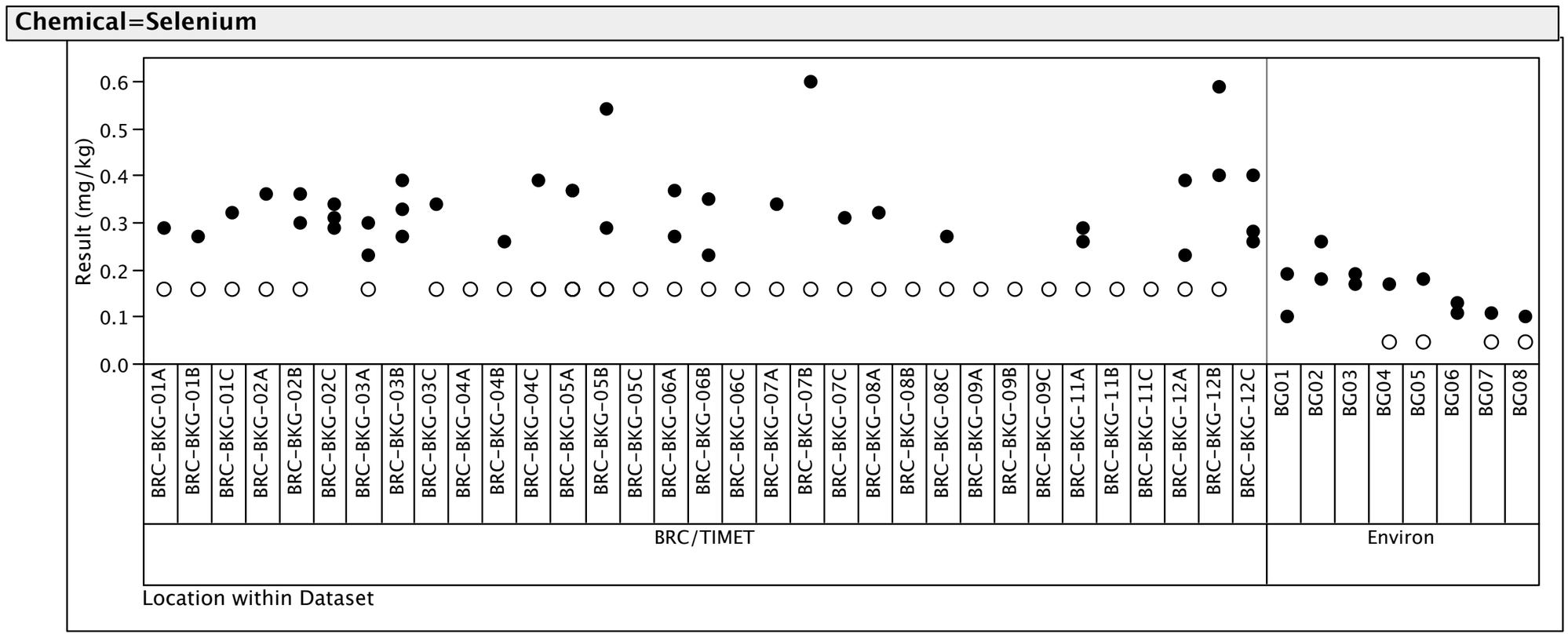
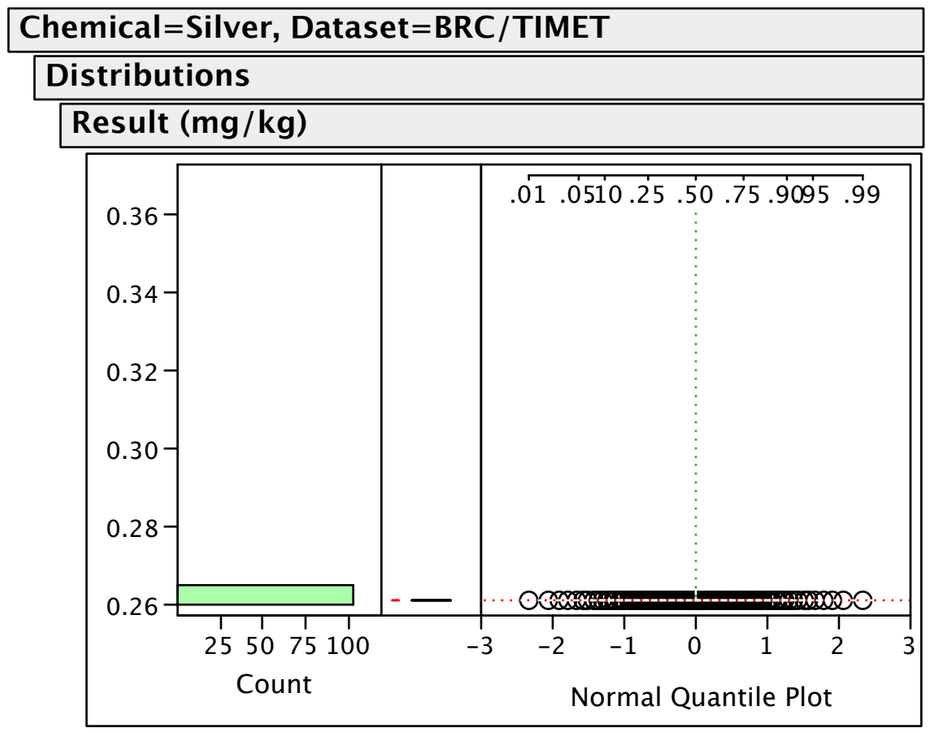
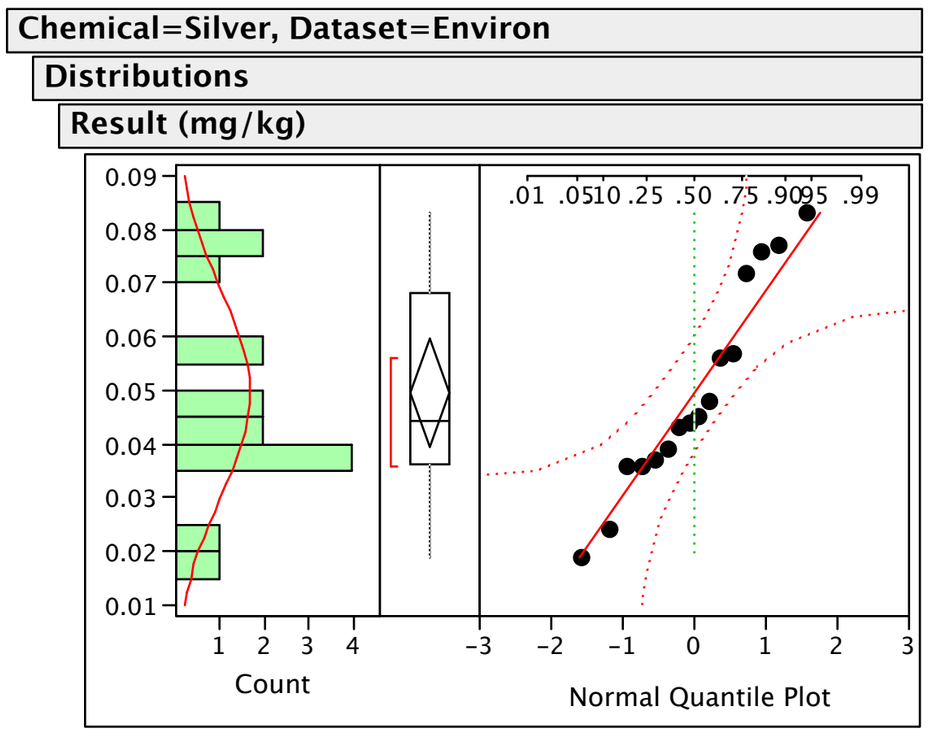
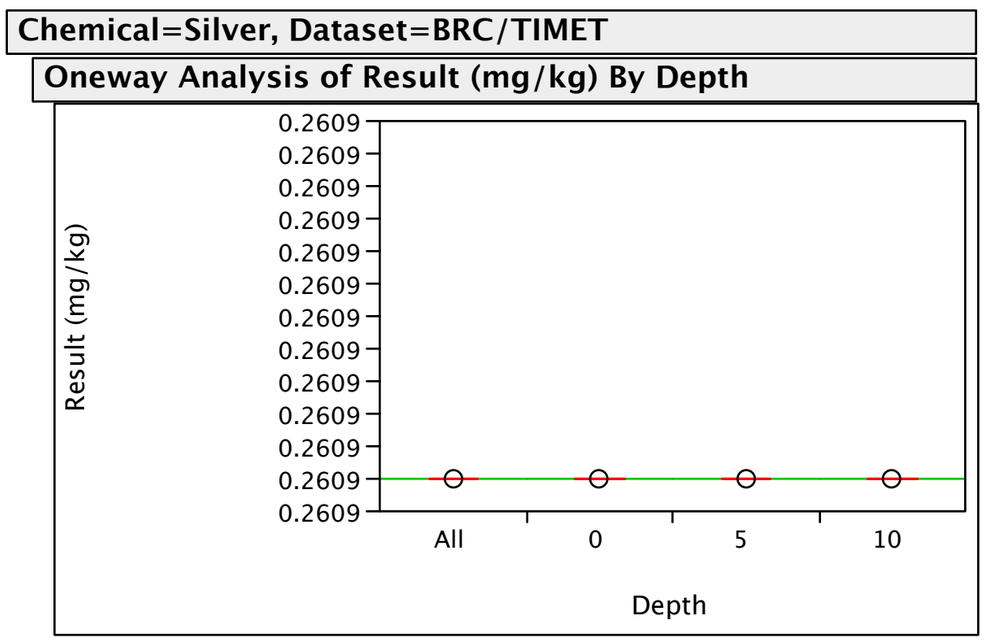


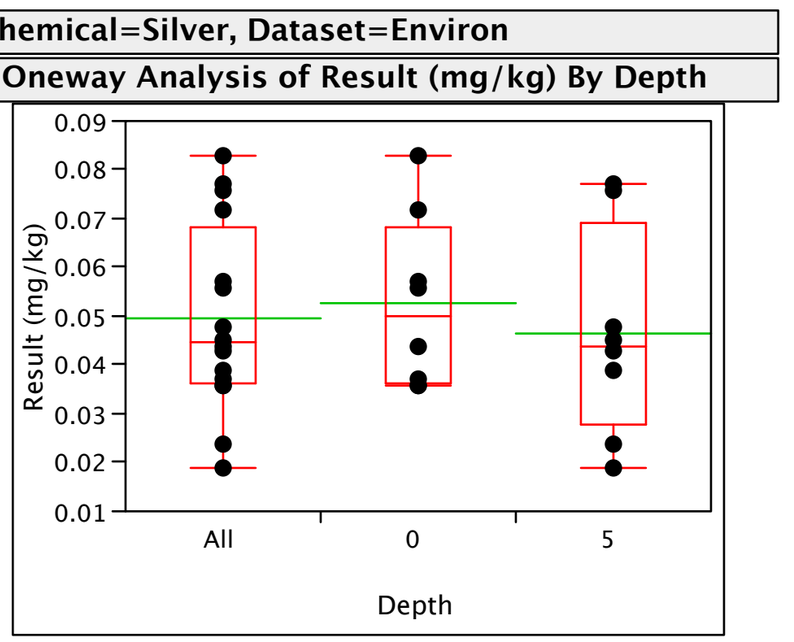
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









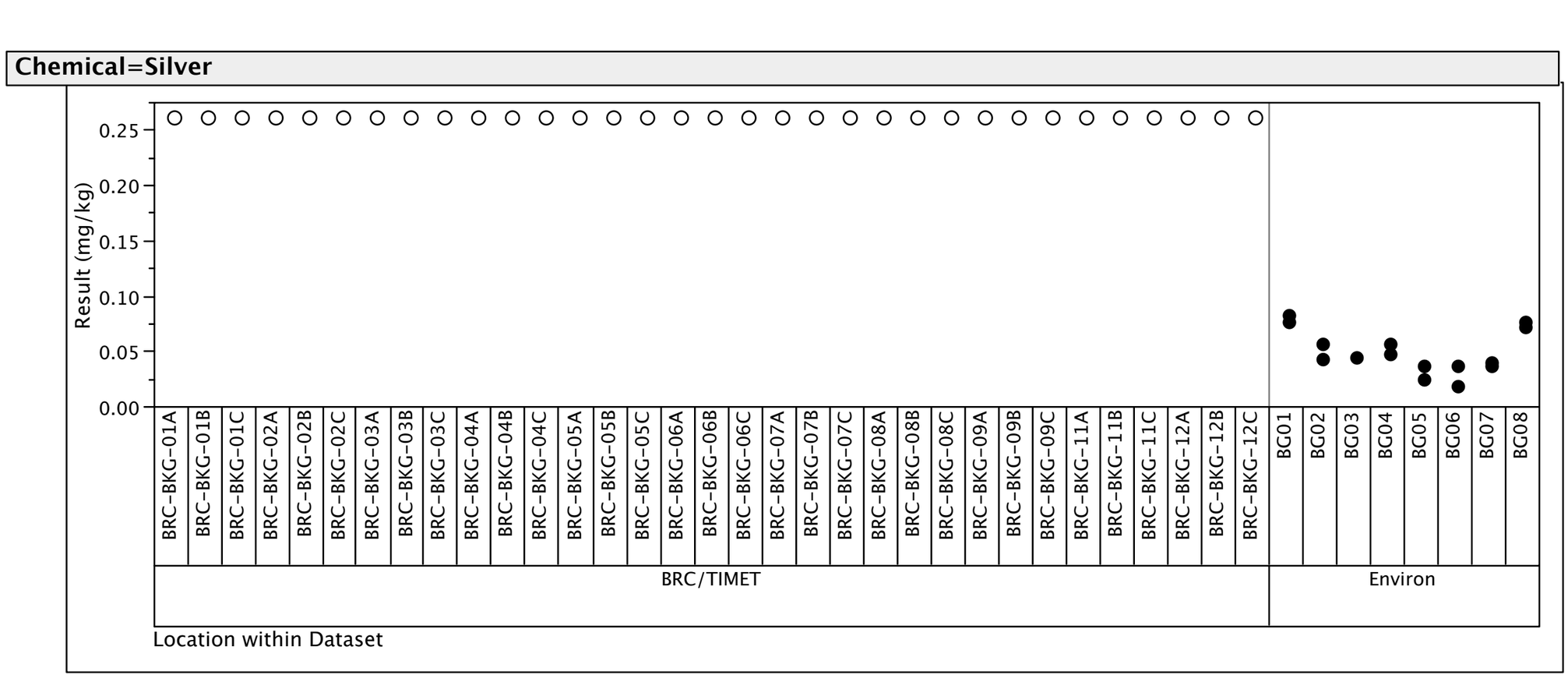
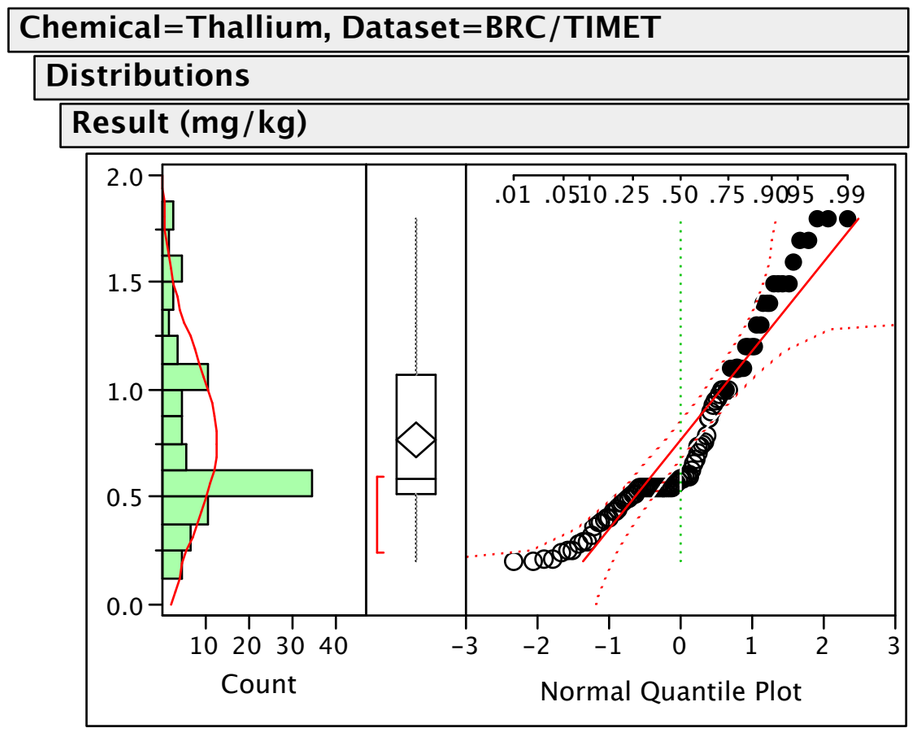
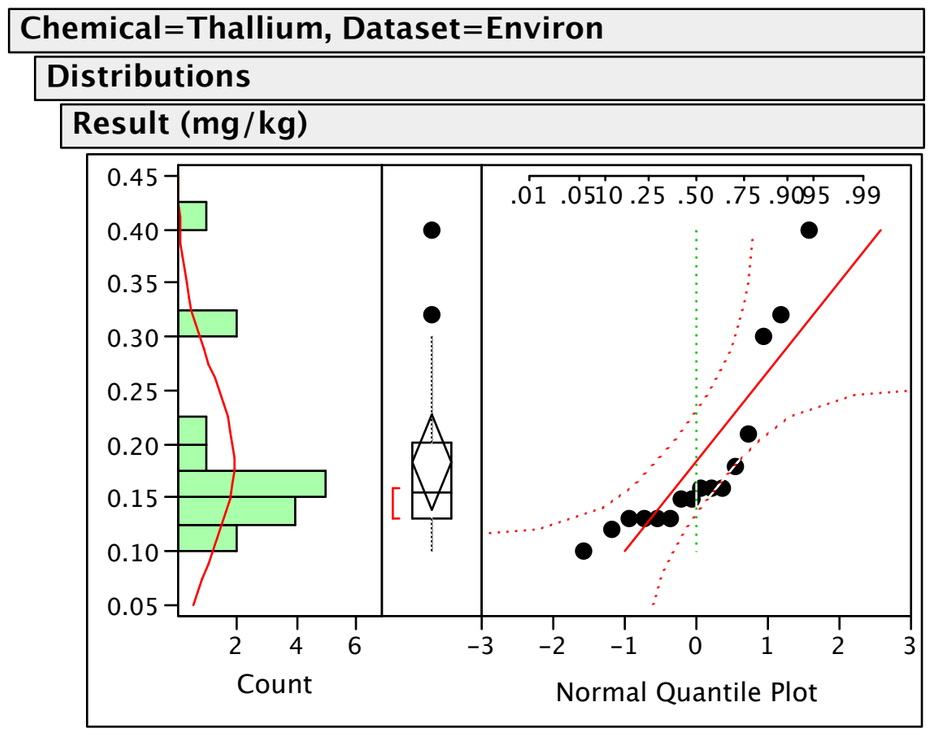
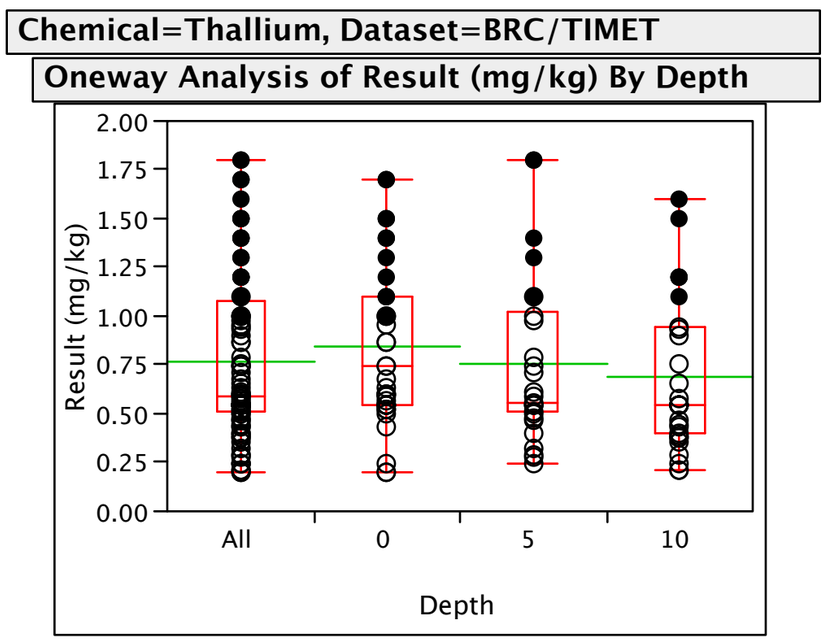


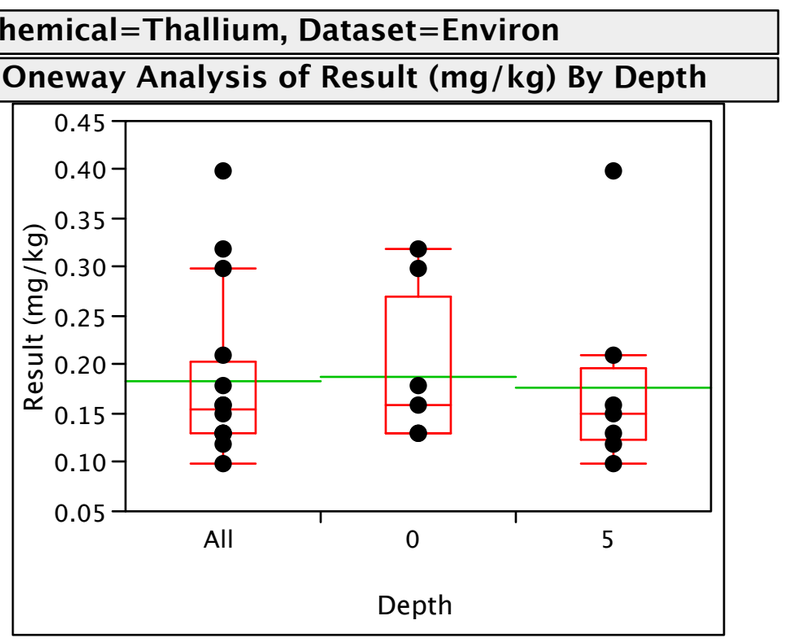
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









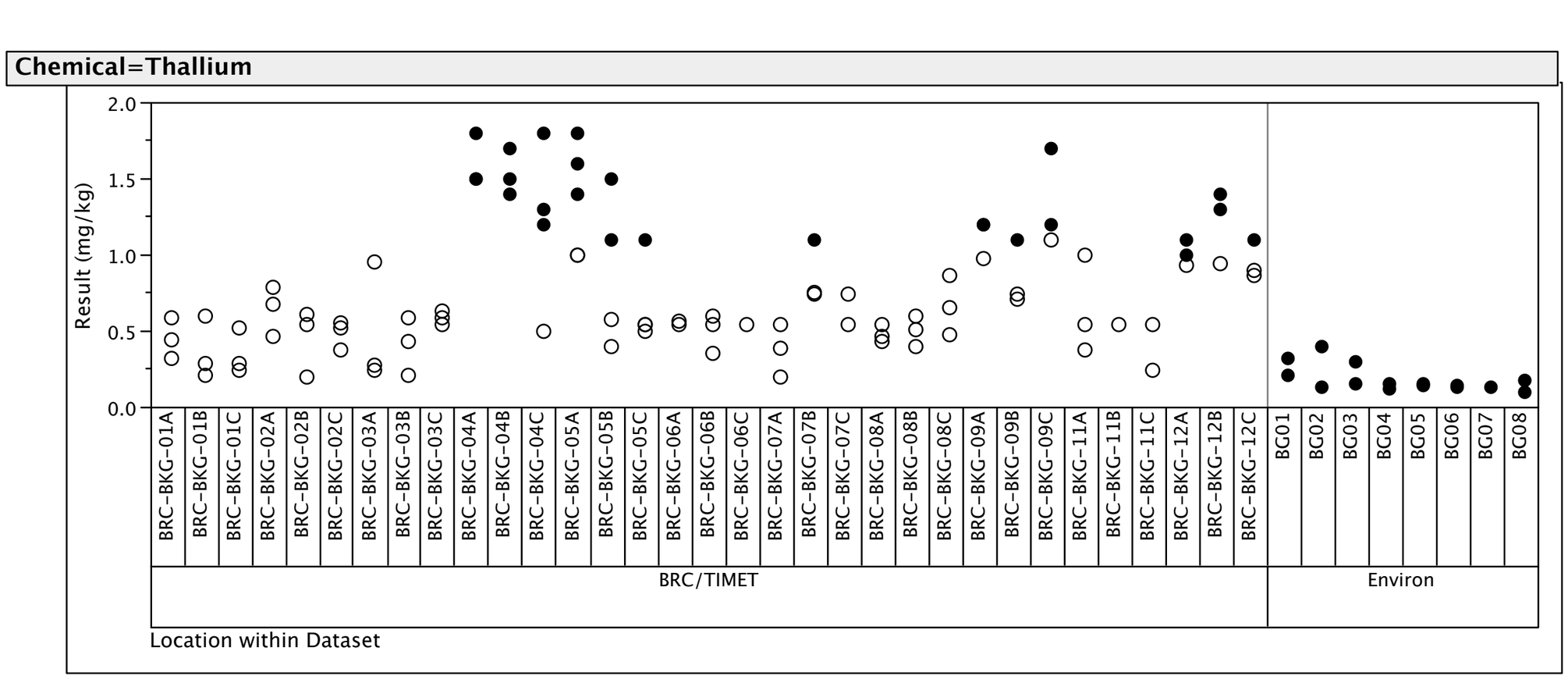
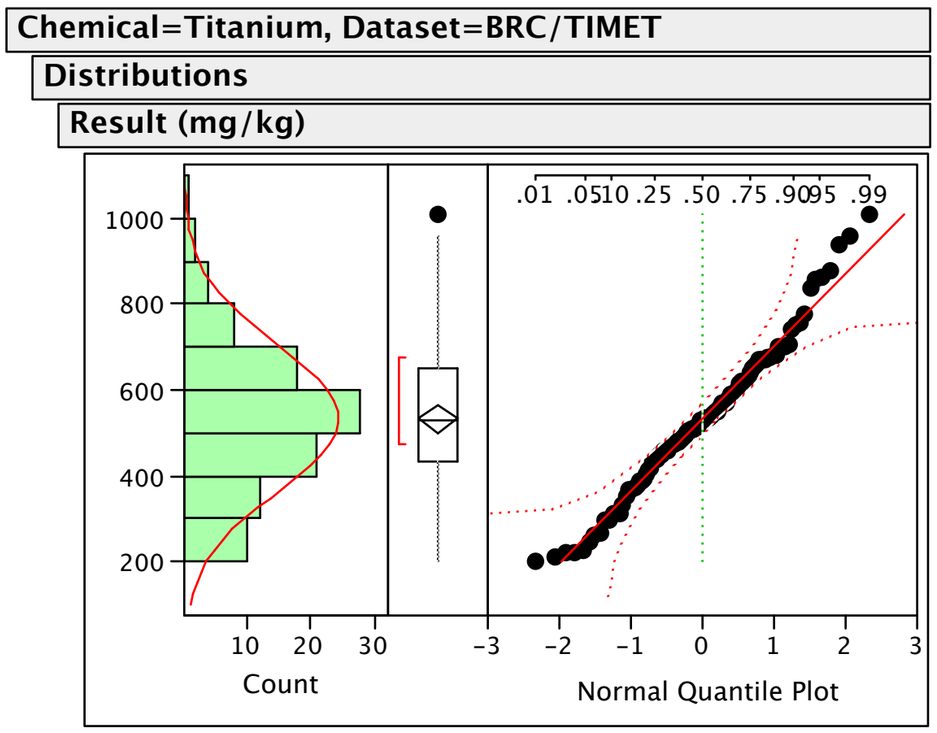
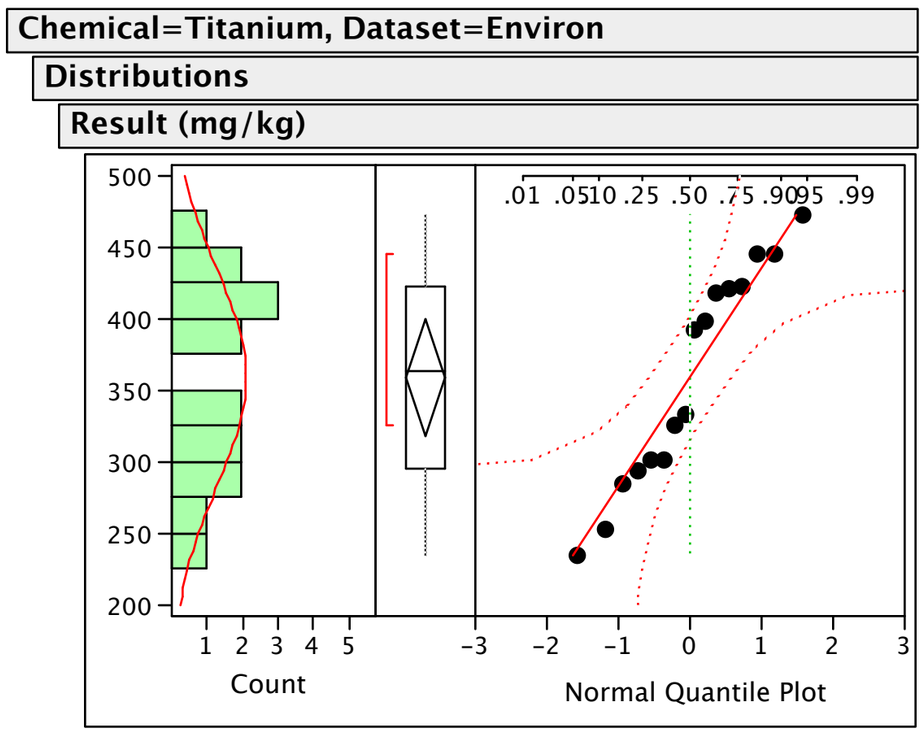
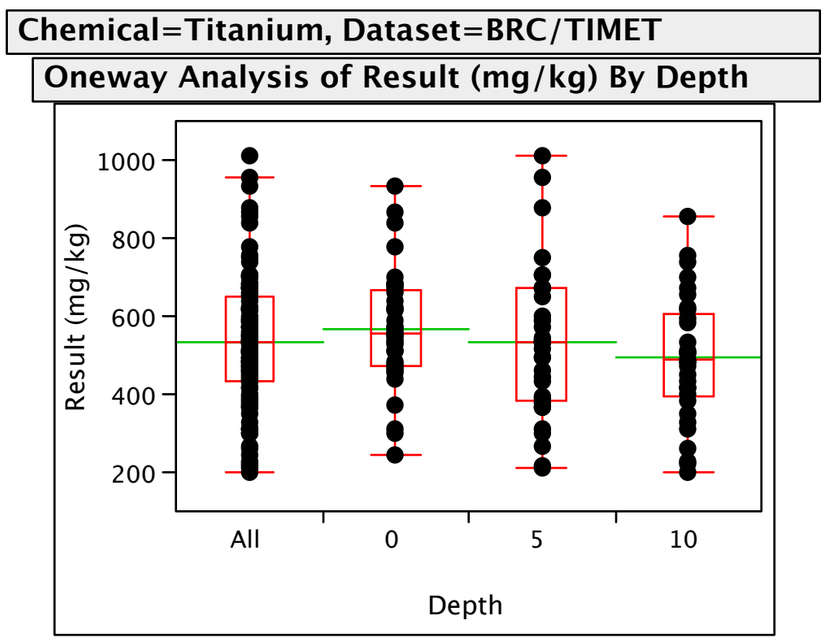


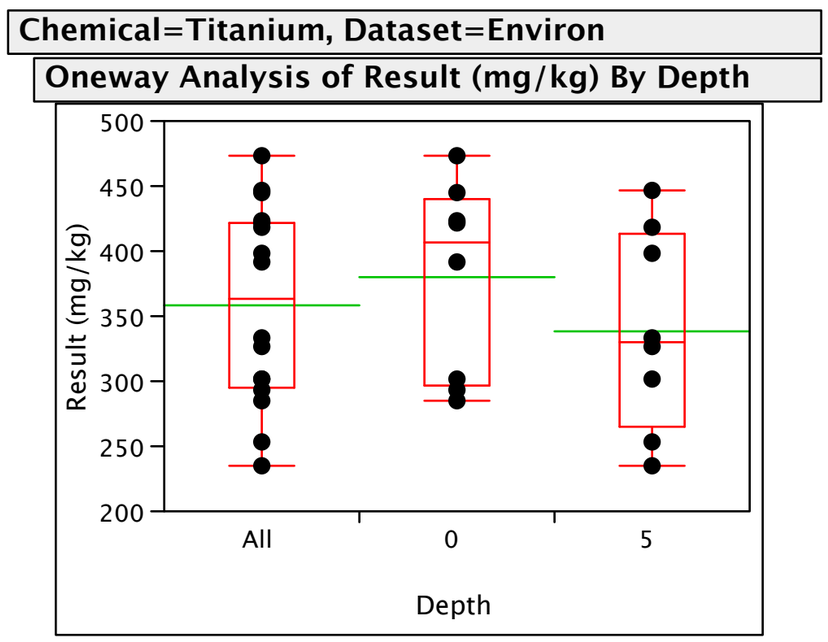
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









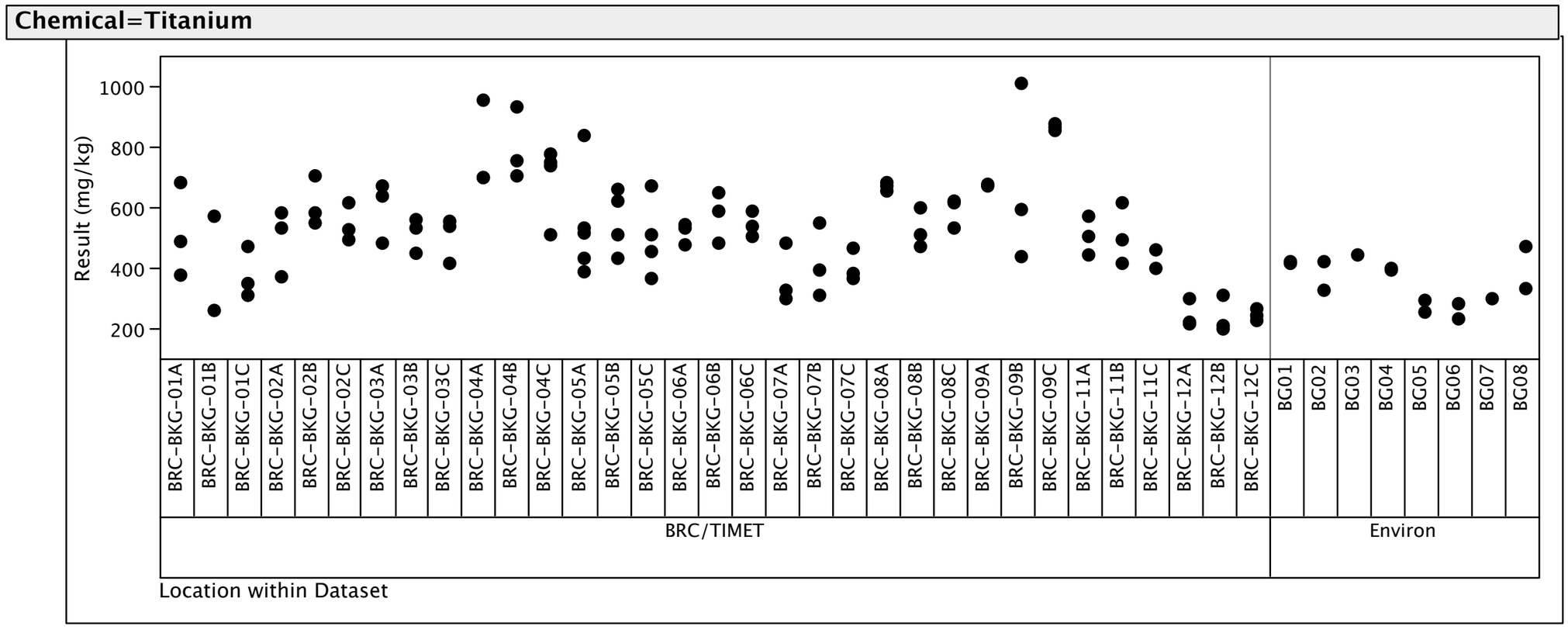
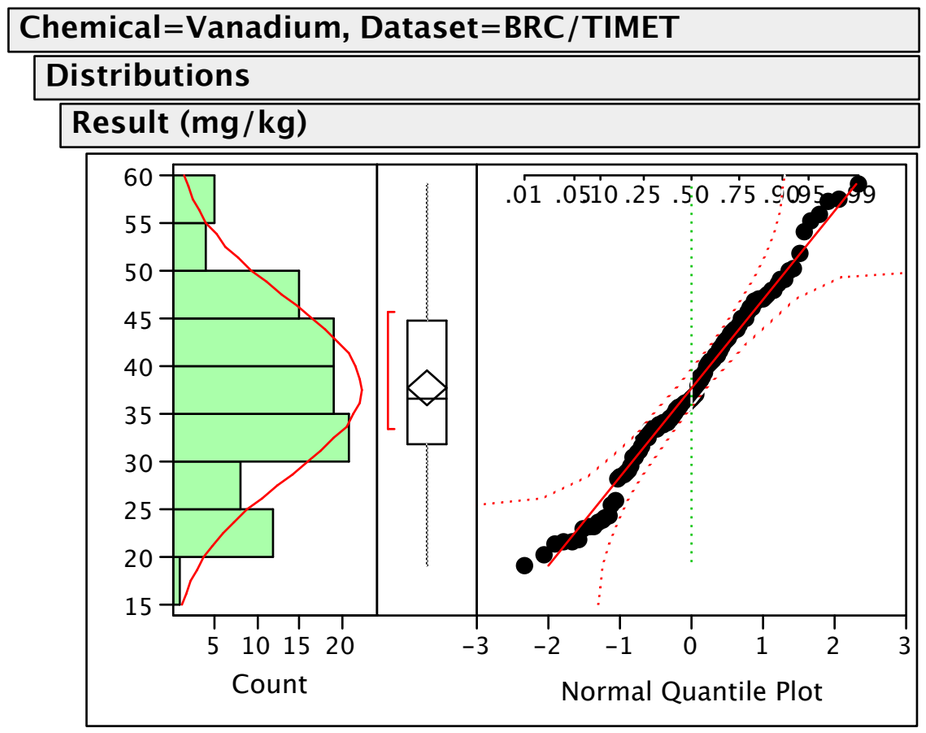
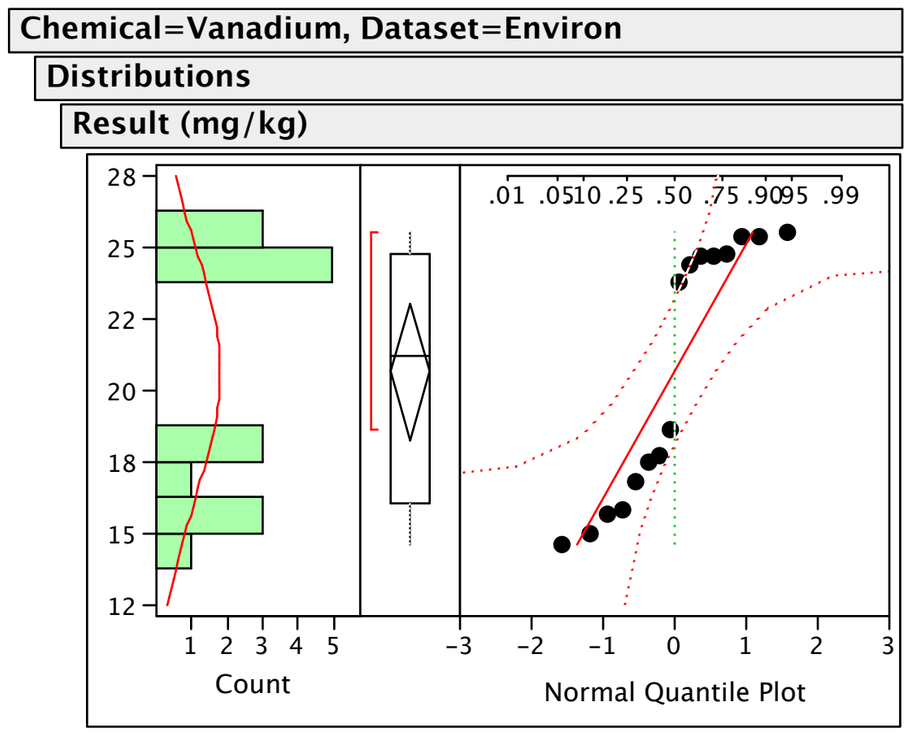
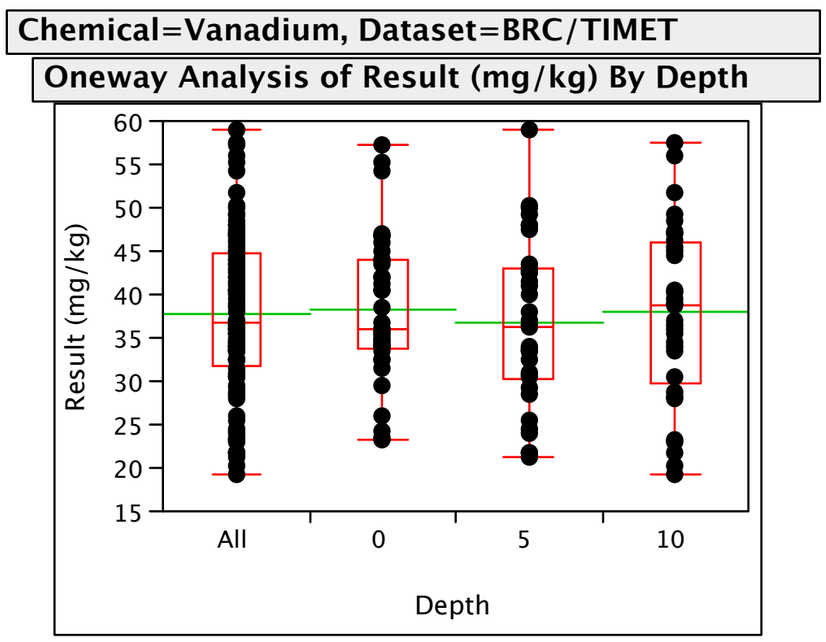


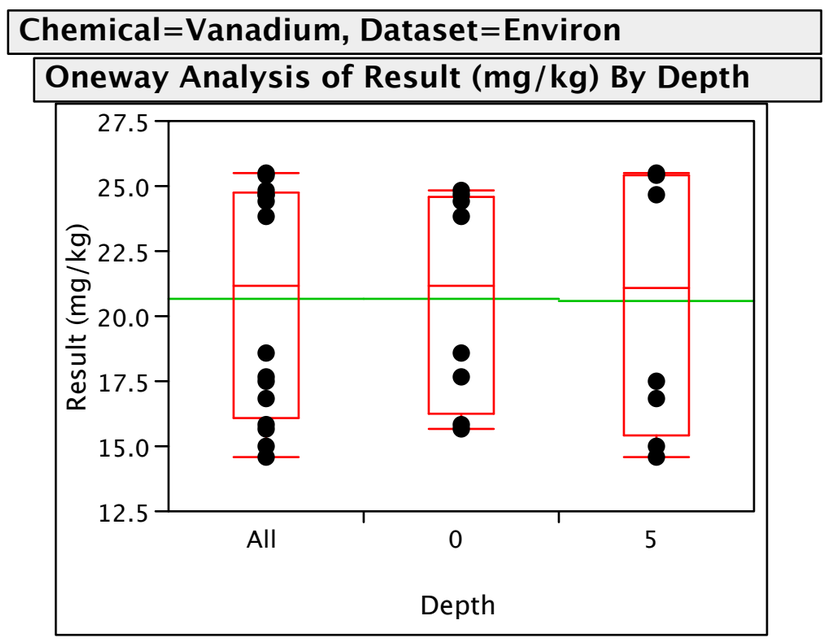
FIGURE F-1 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









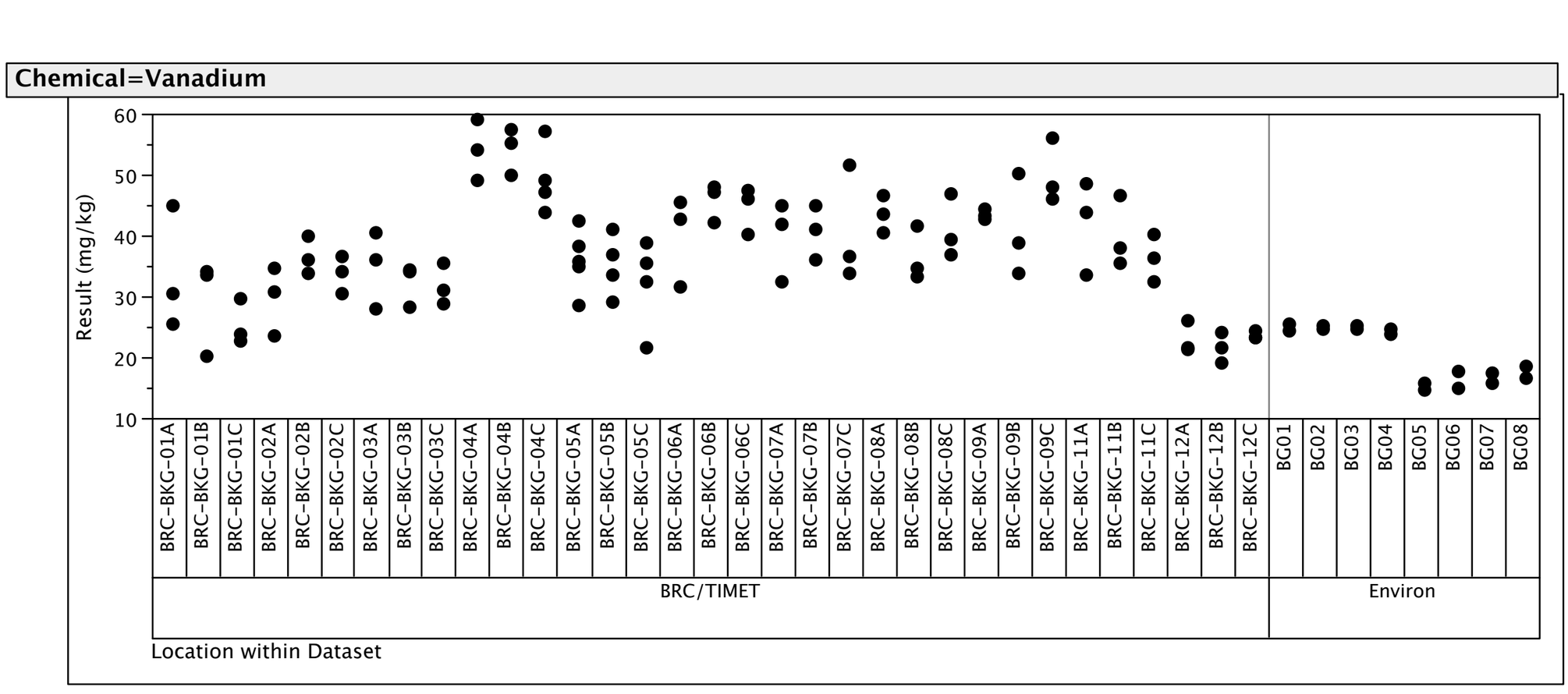
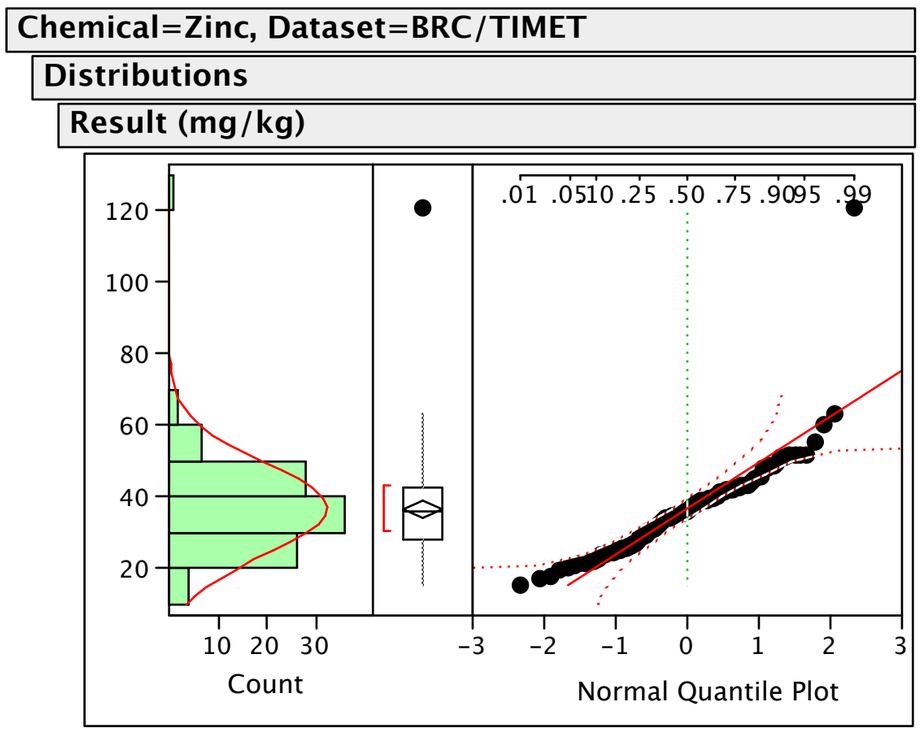
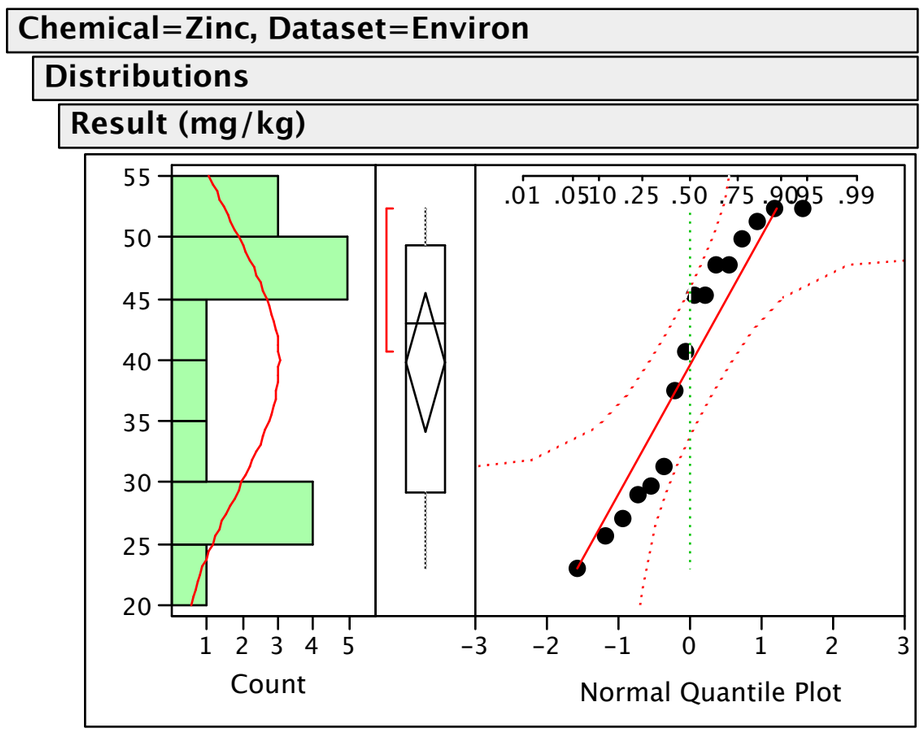
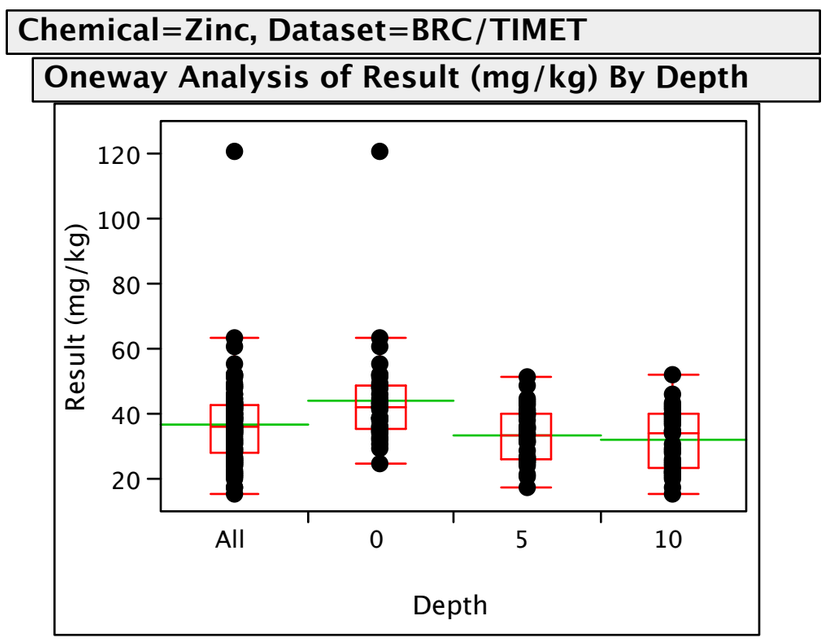


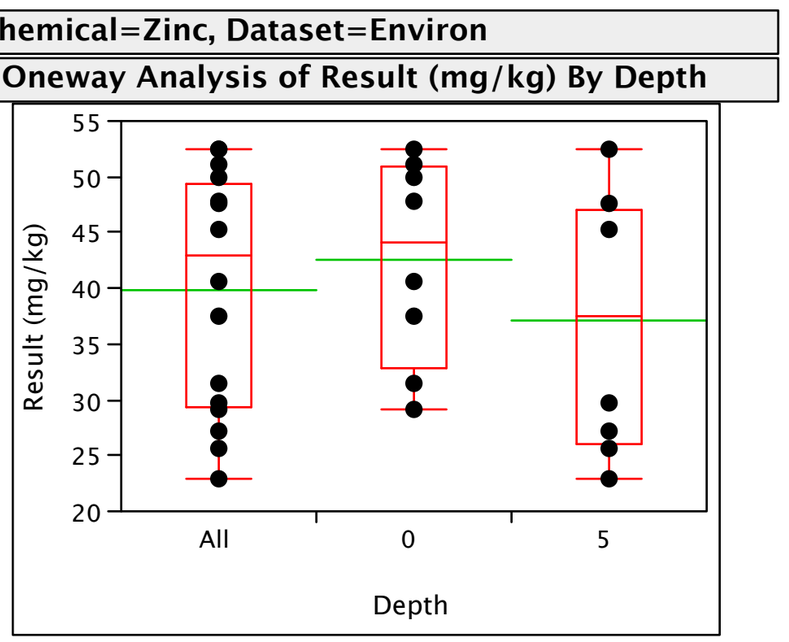
FIGURE F-1 (Continued)

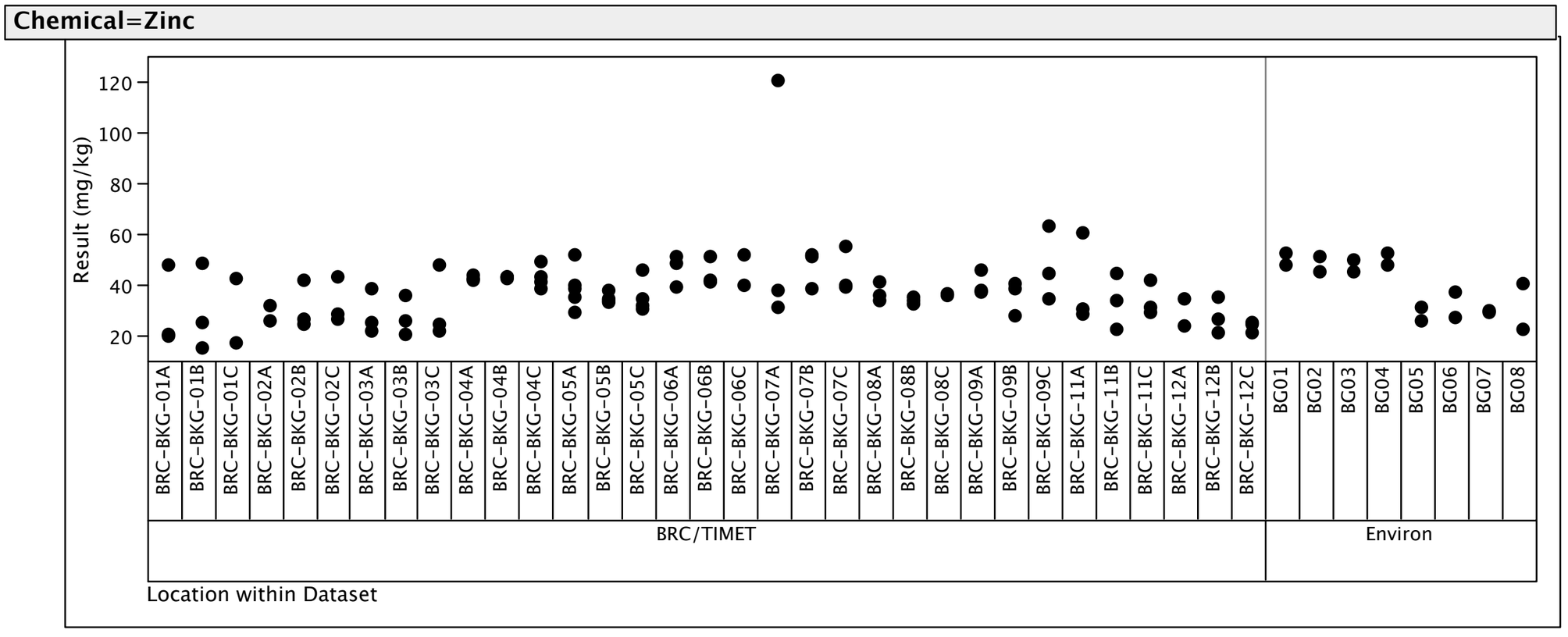
COMPARISON OF METAL AND ANION CONCENTRATIONS IN BRC/TIMET AND ENVIRON BACKGROUND SOIL





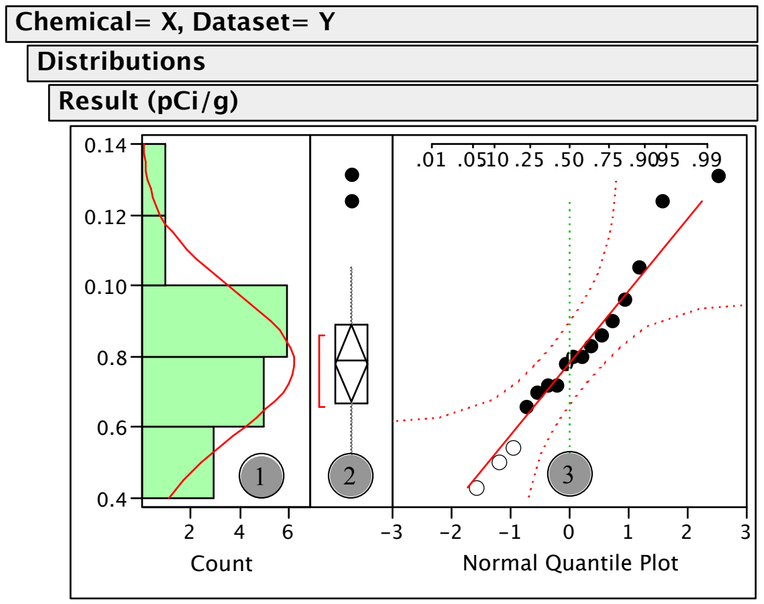


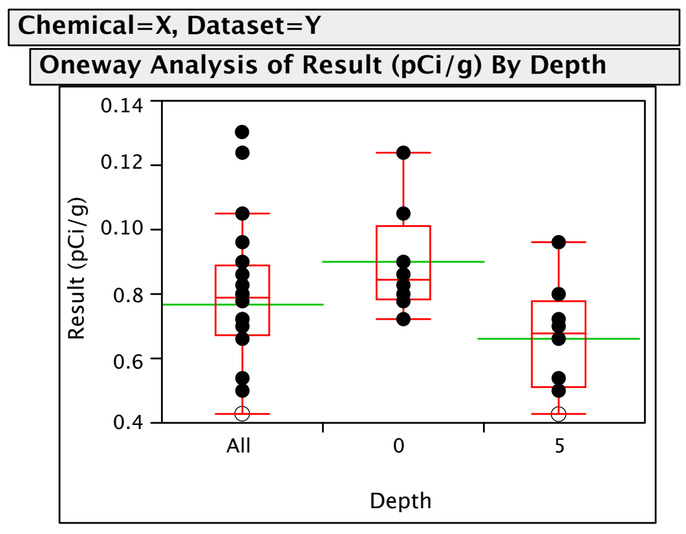




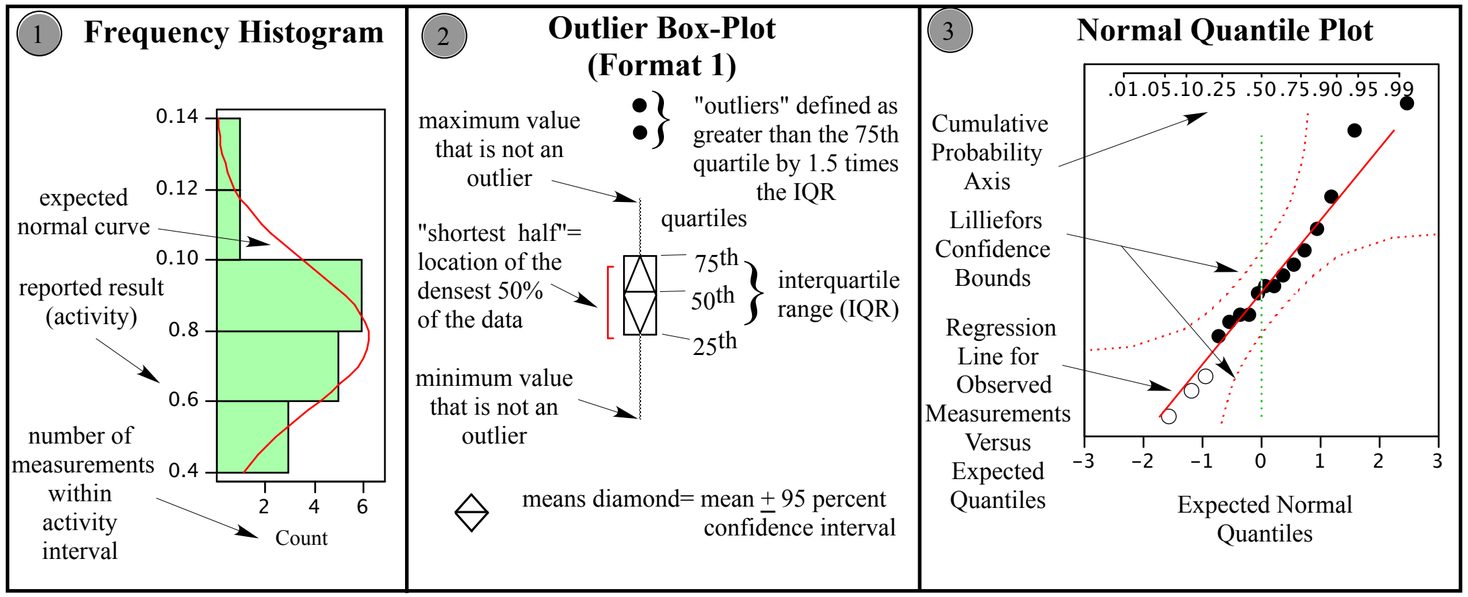
KEYS FOR INTERPRETING GRAPHICS IN FIGURE F-2

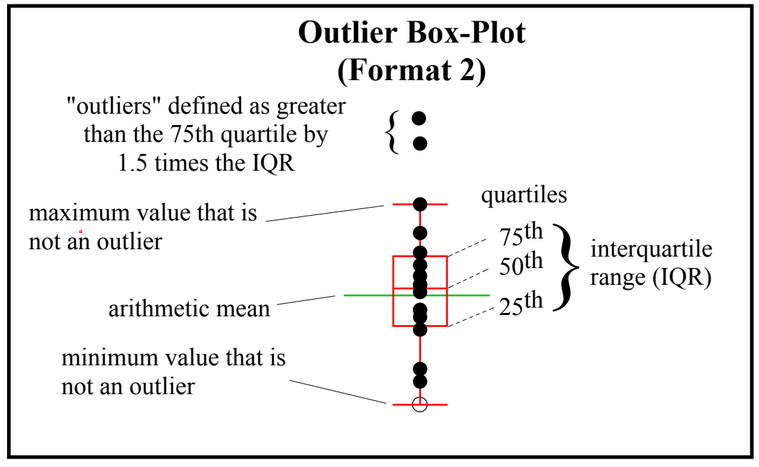
Example Figures From Appendix

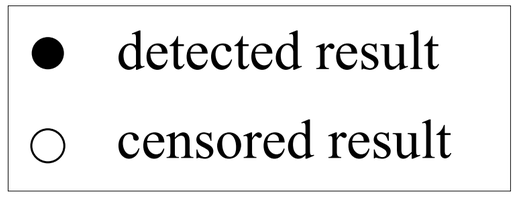


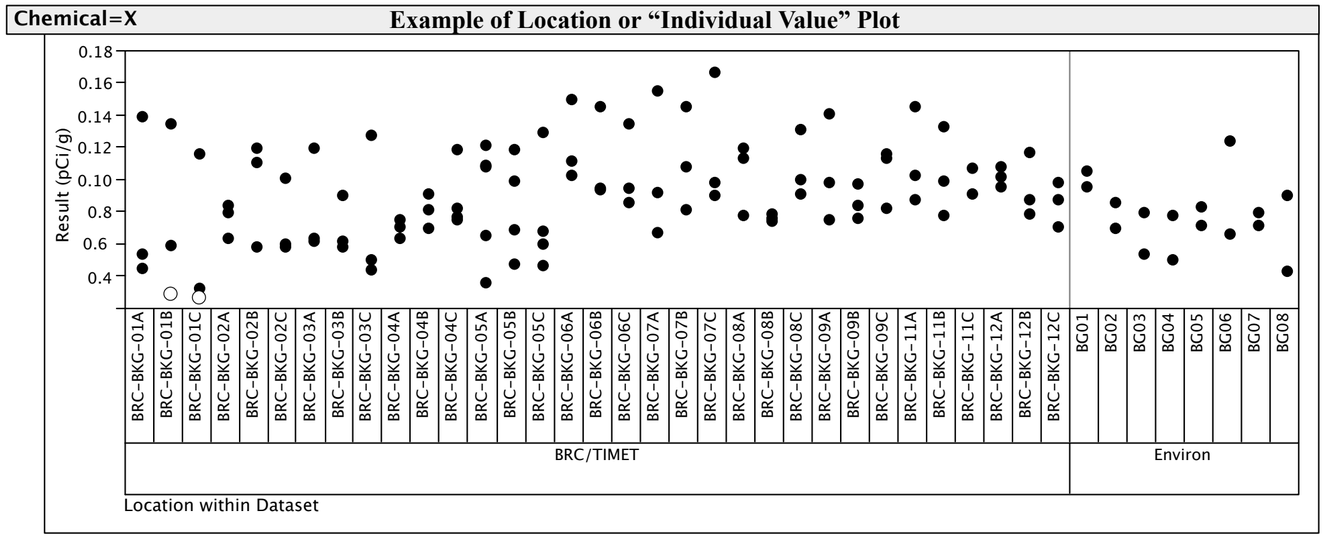


Keys to Individual Figure Panels





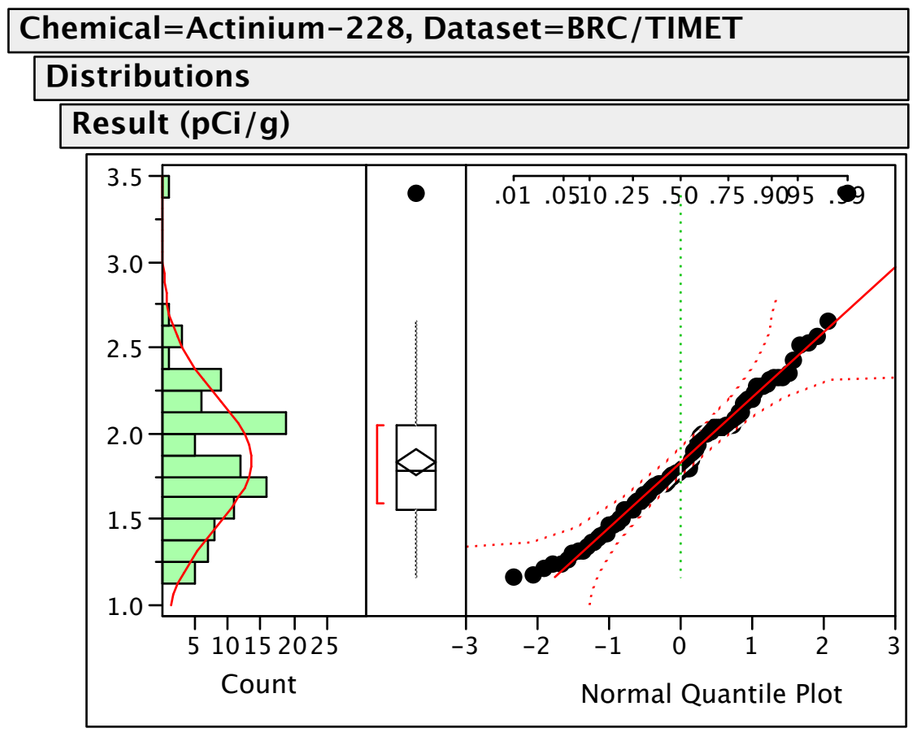


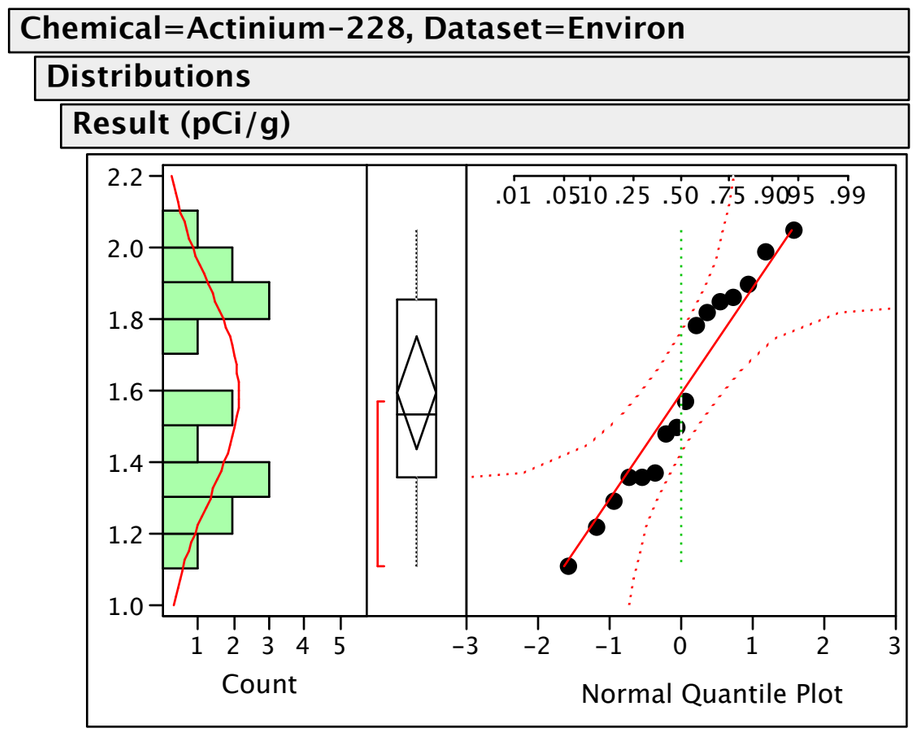


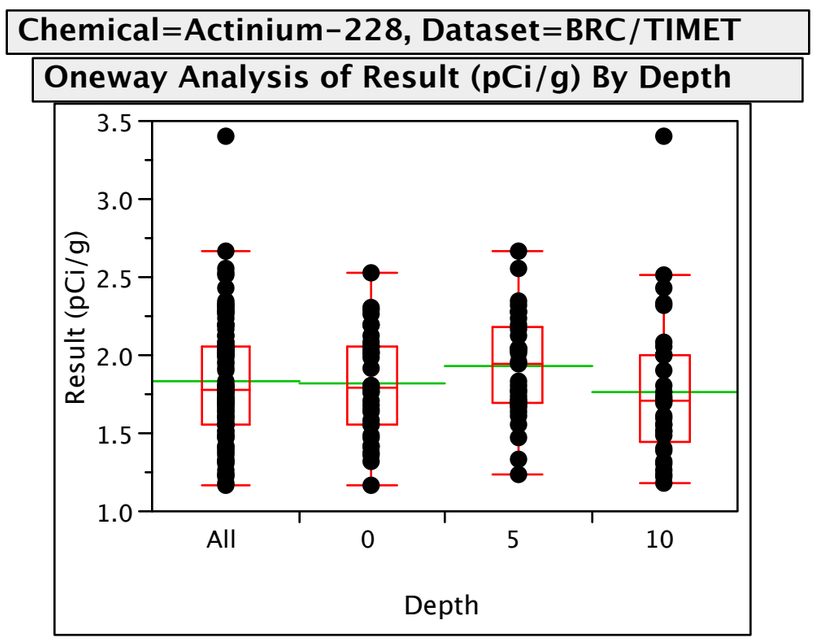
Results are Plottted for Individual Locations and Grouped by Dataset

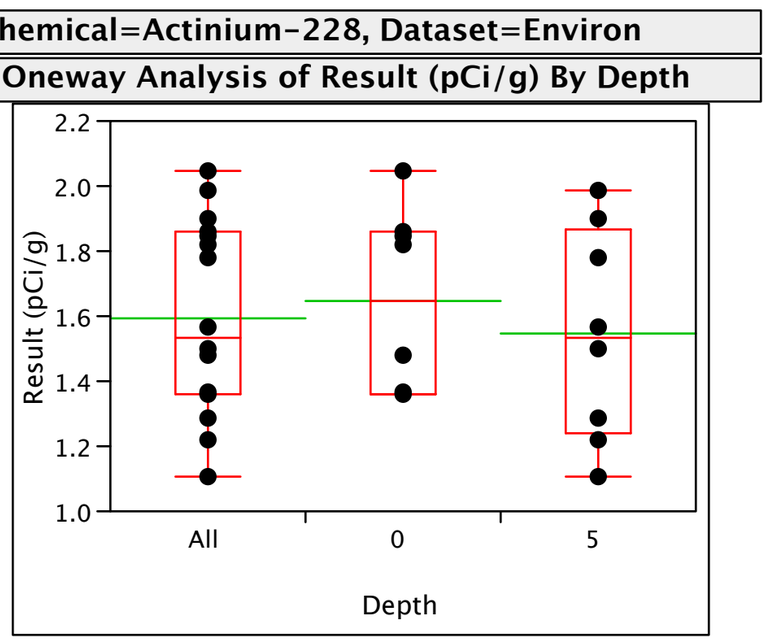
FIGURE F-2

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









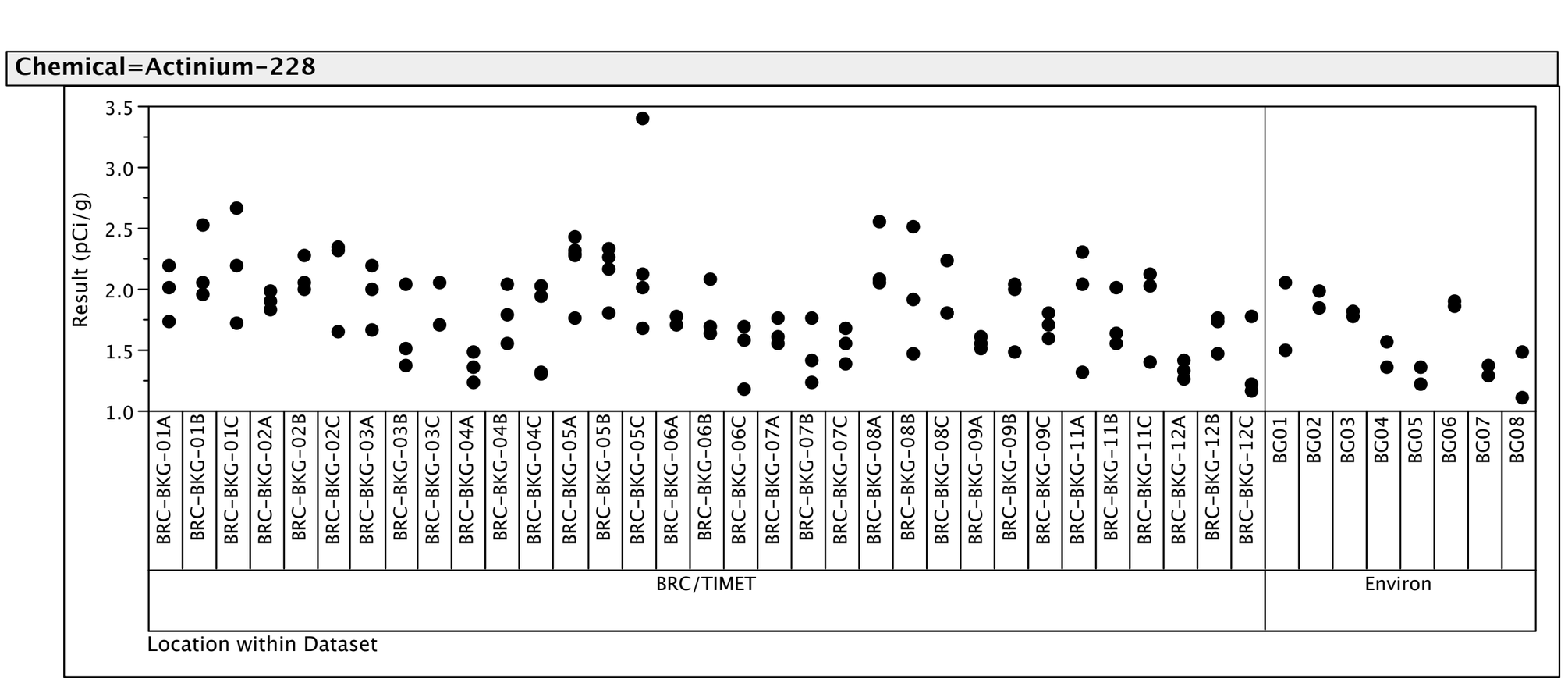
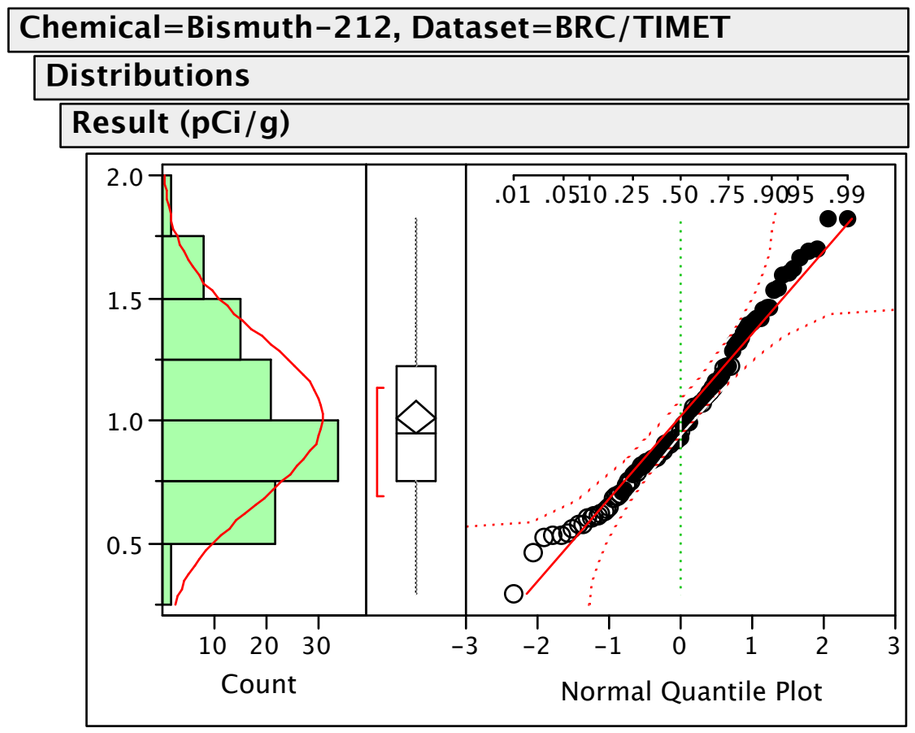
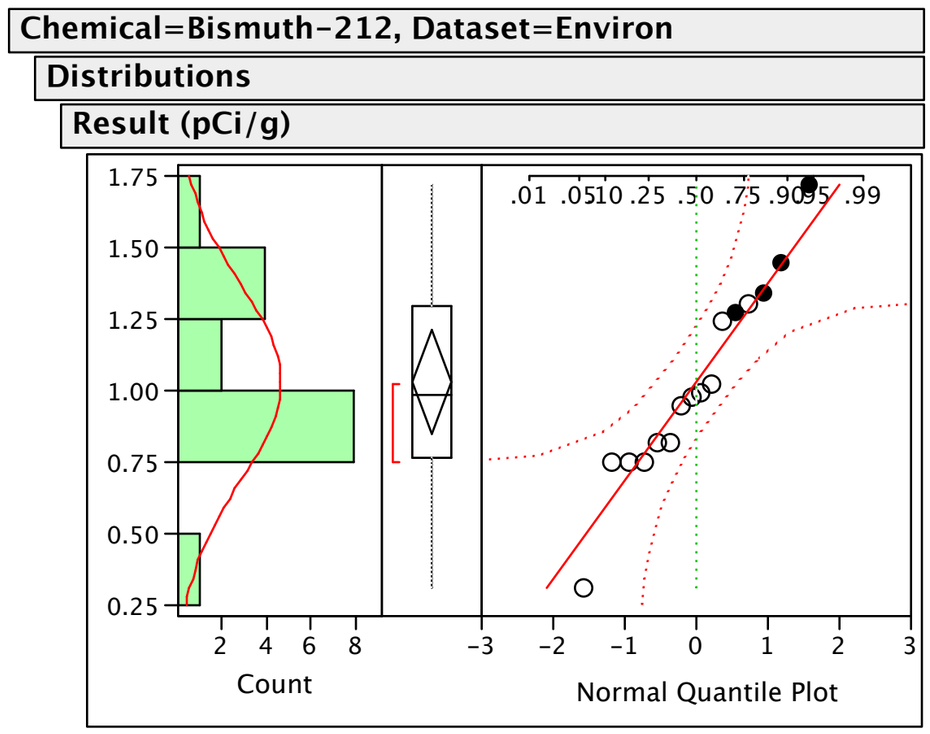
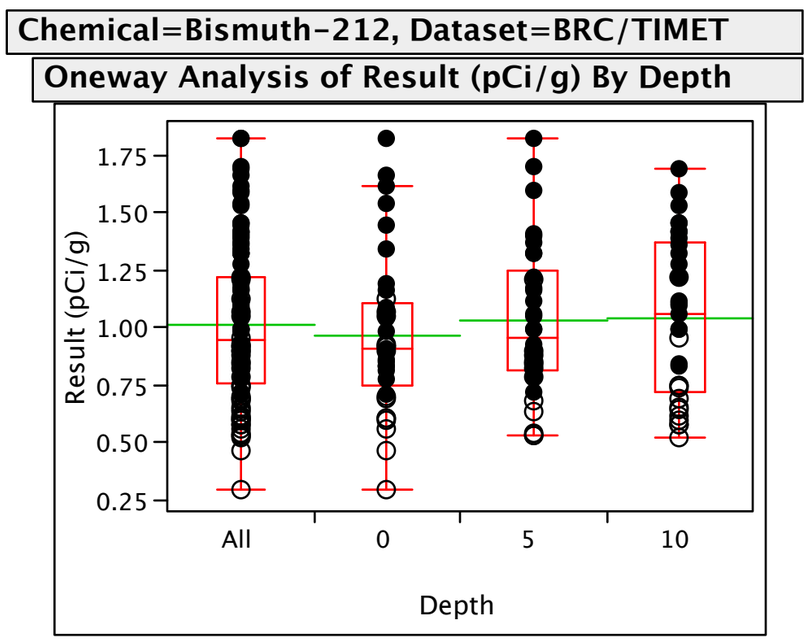


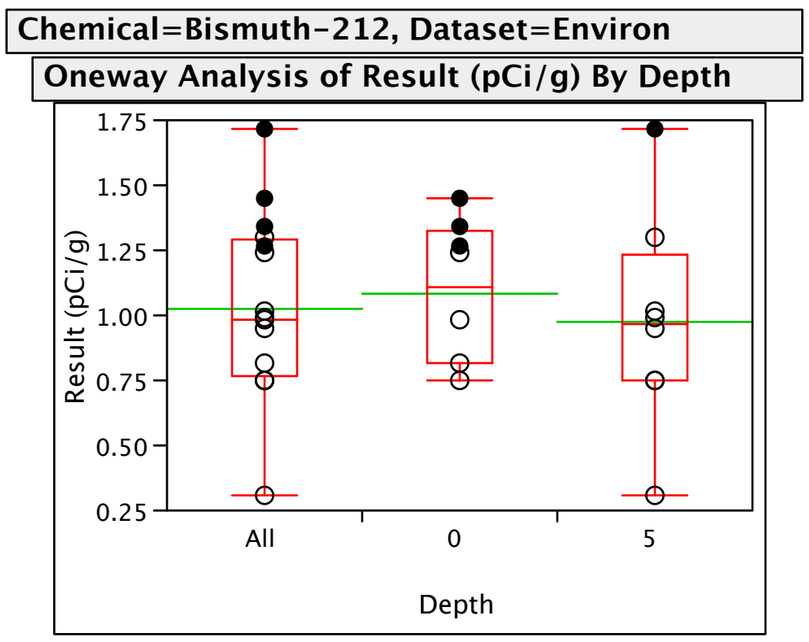
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









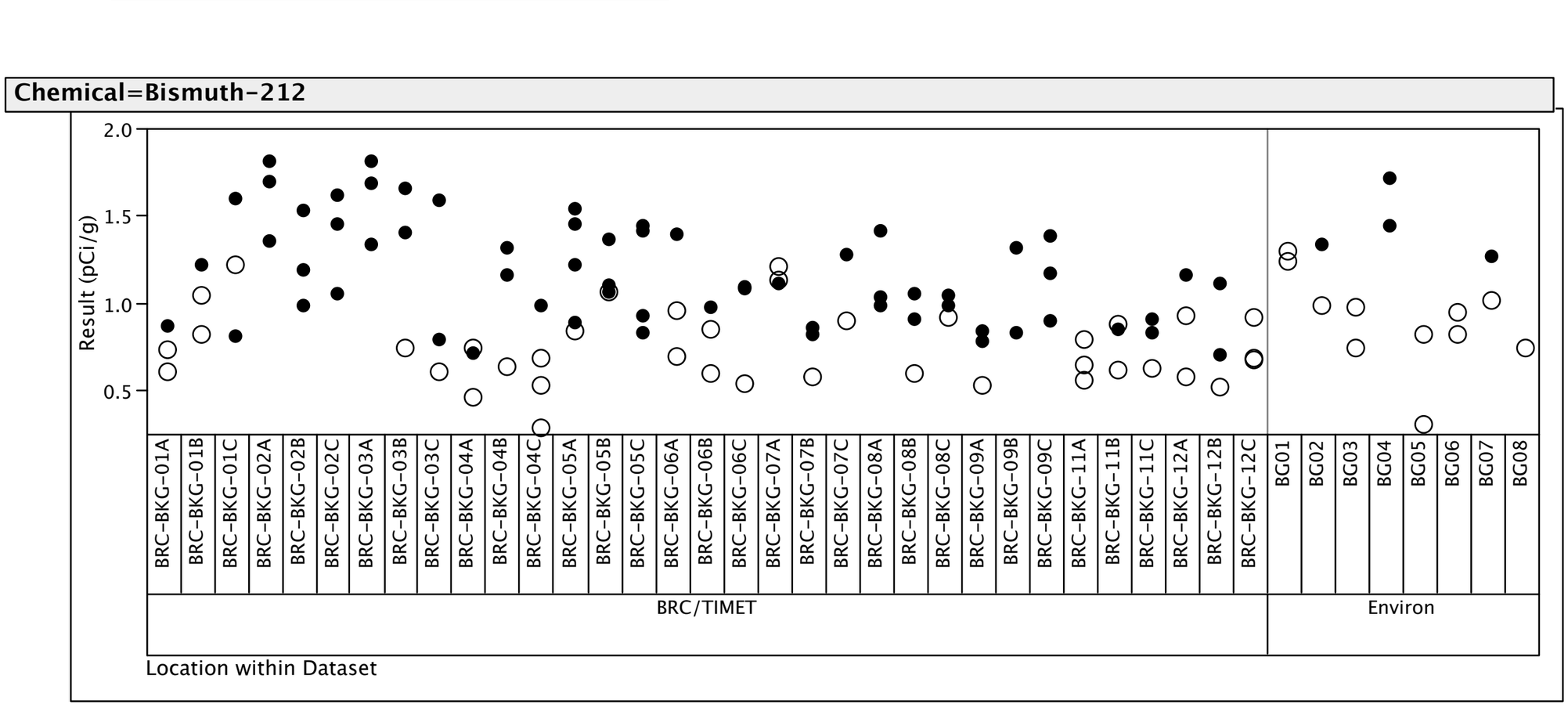
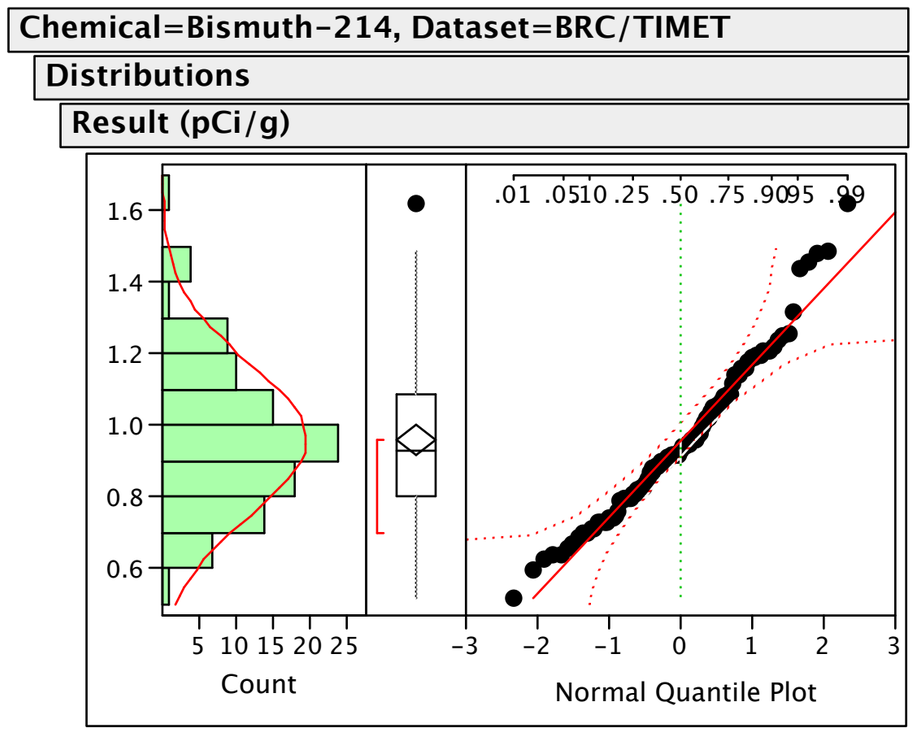
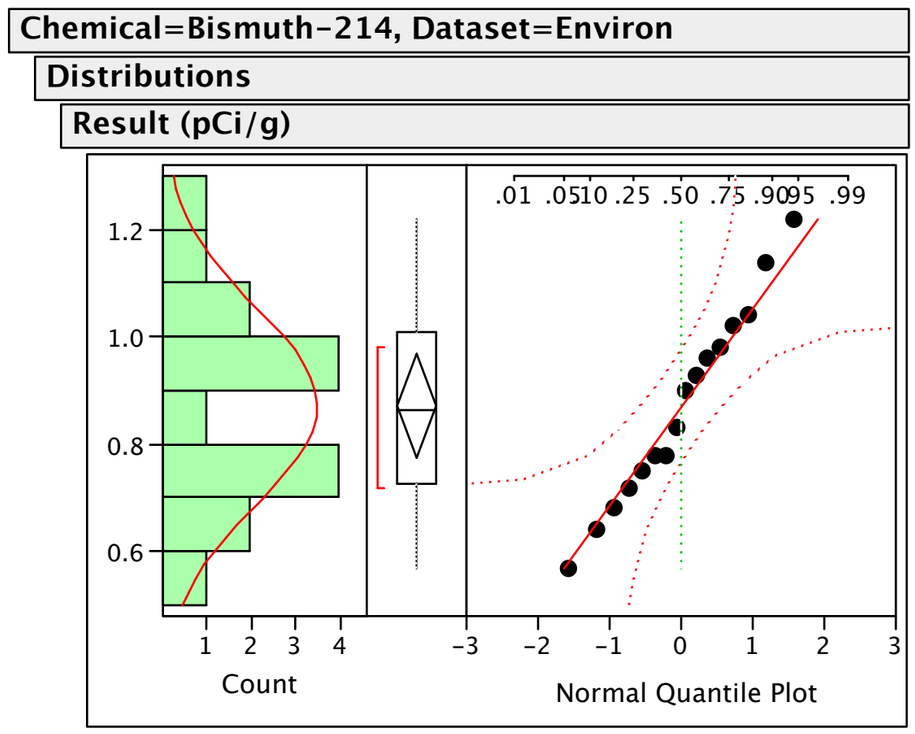
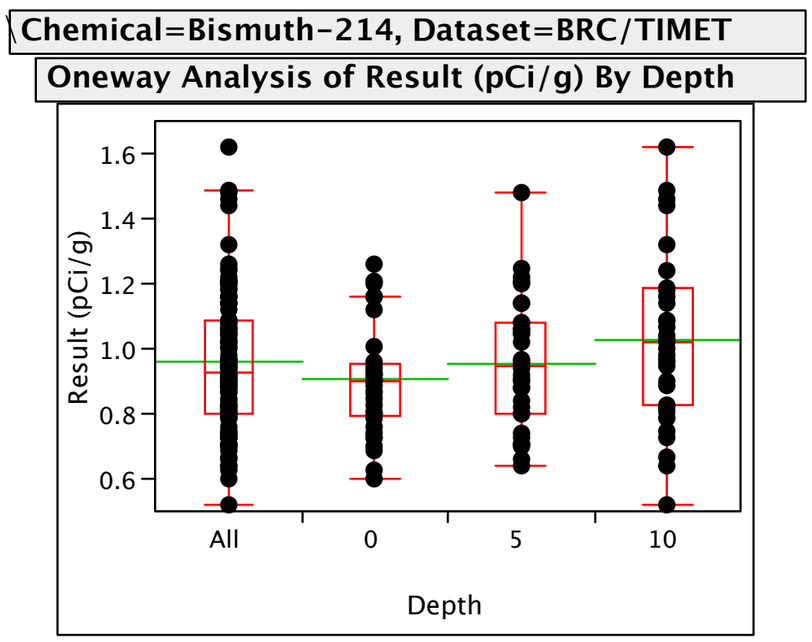


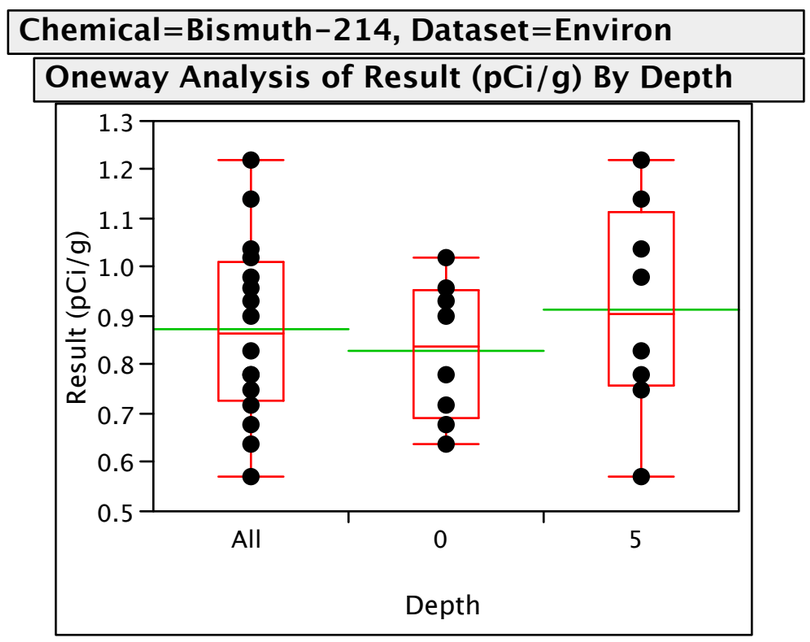
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









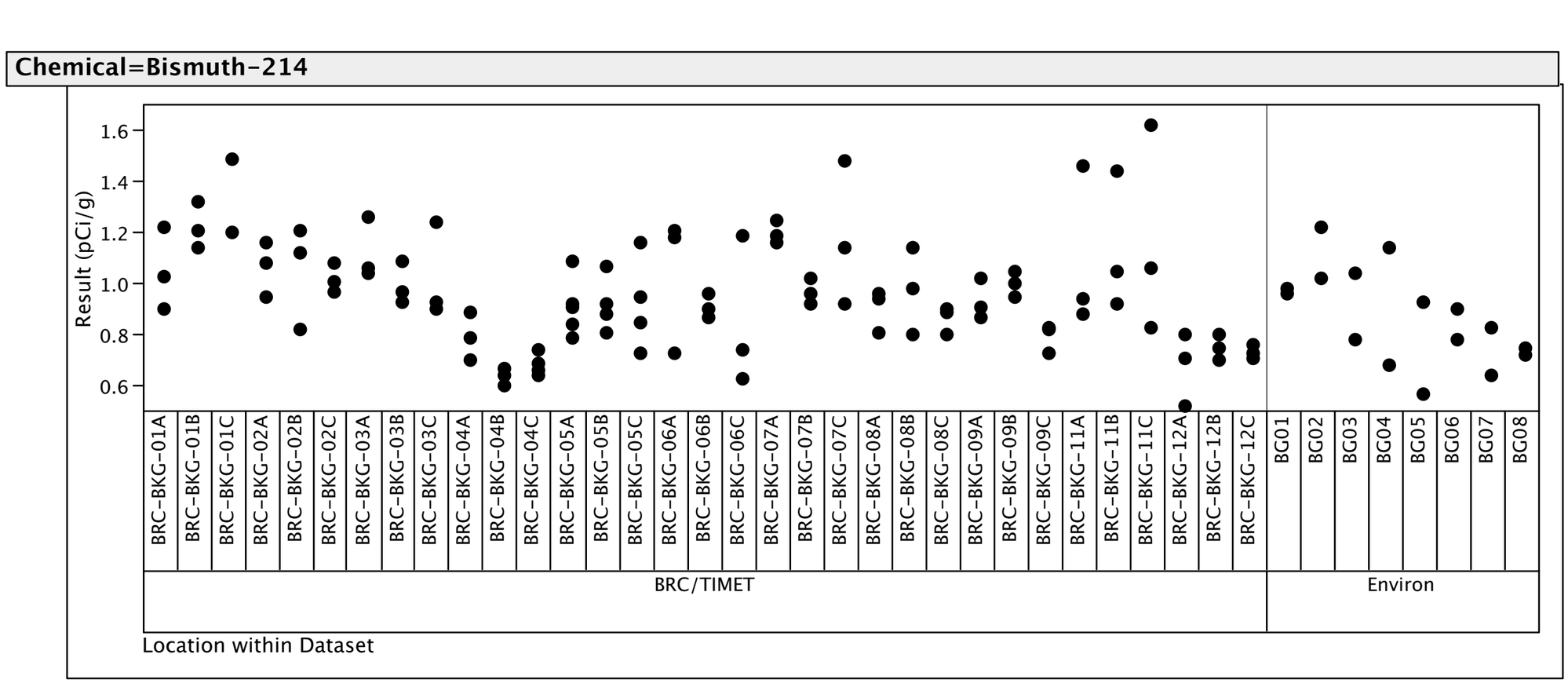
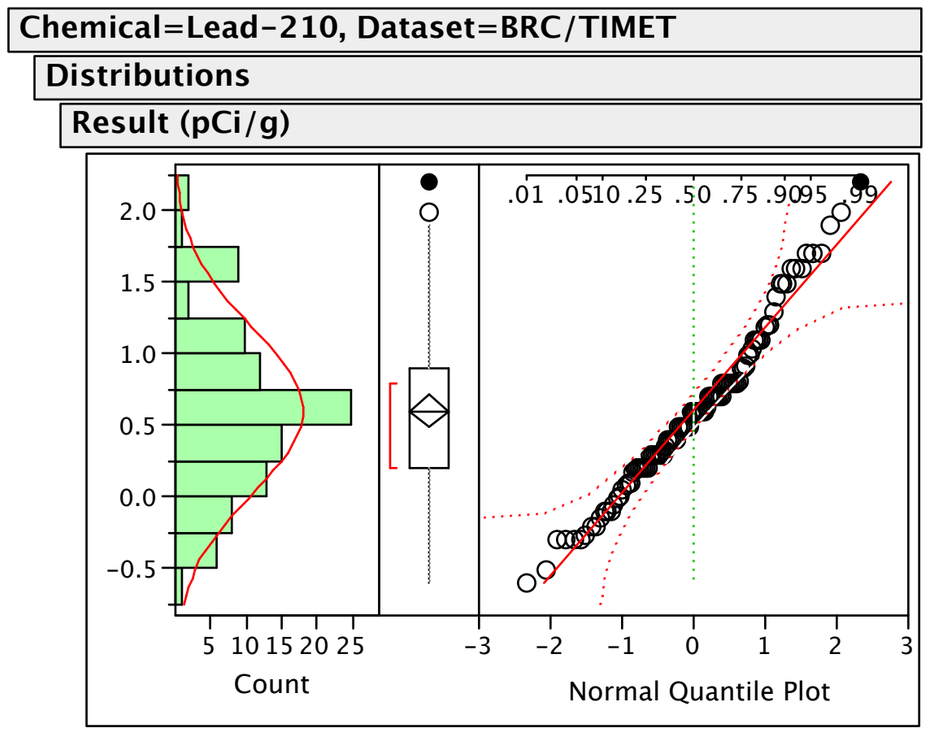
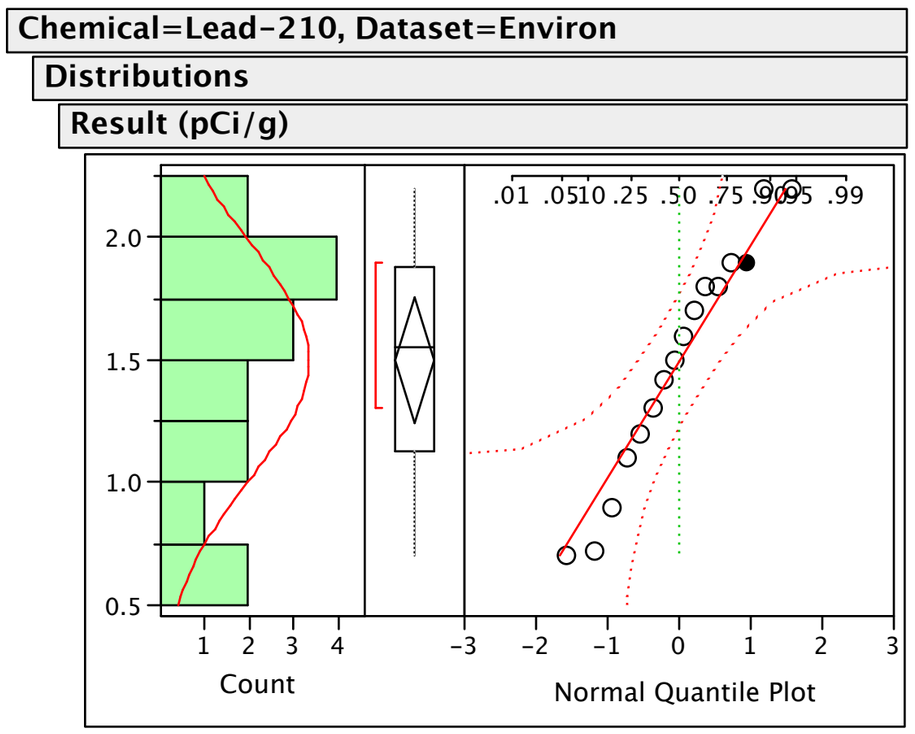
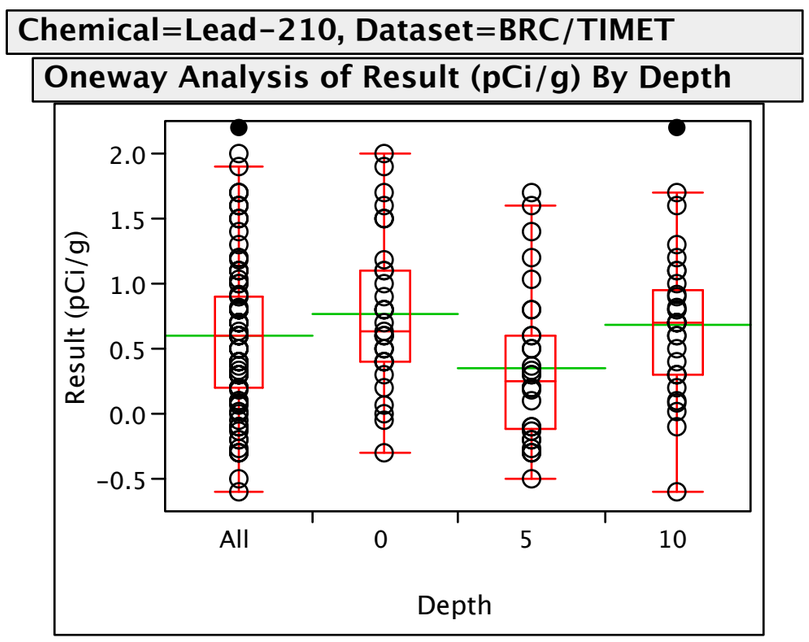


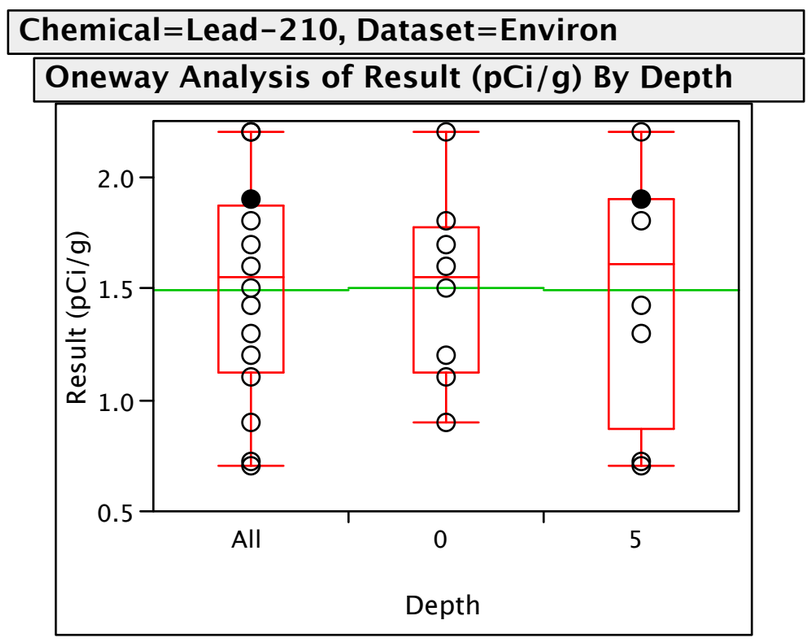
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









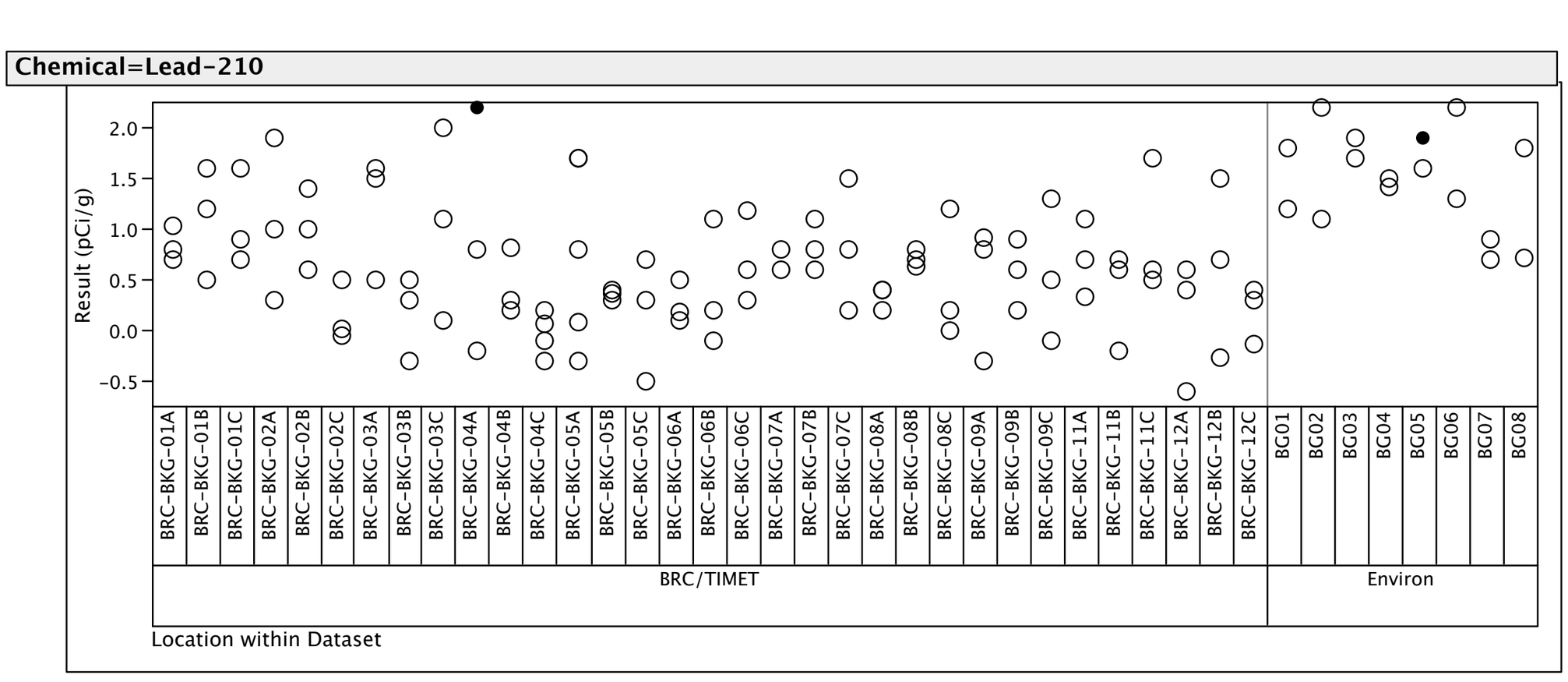
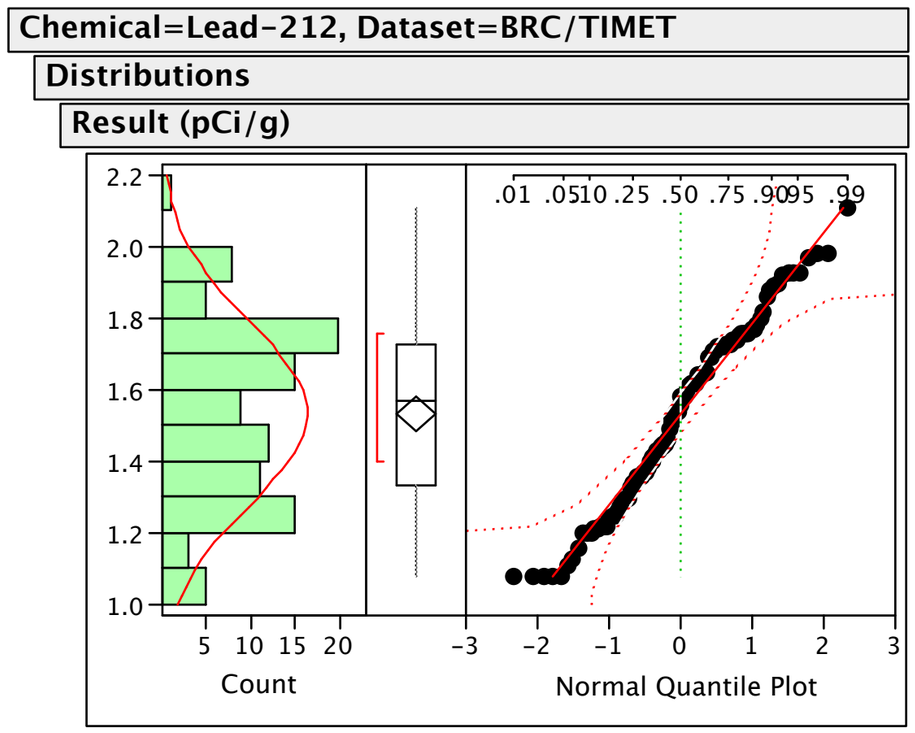
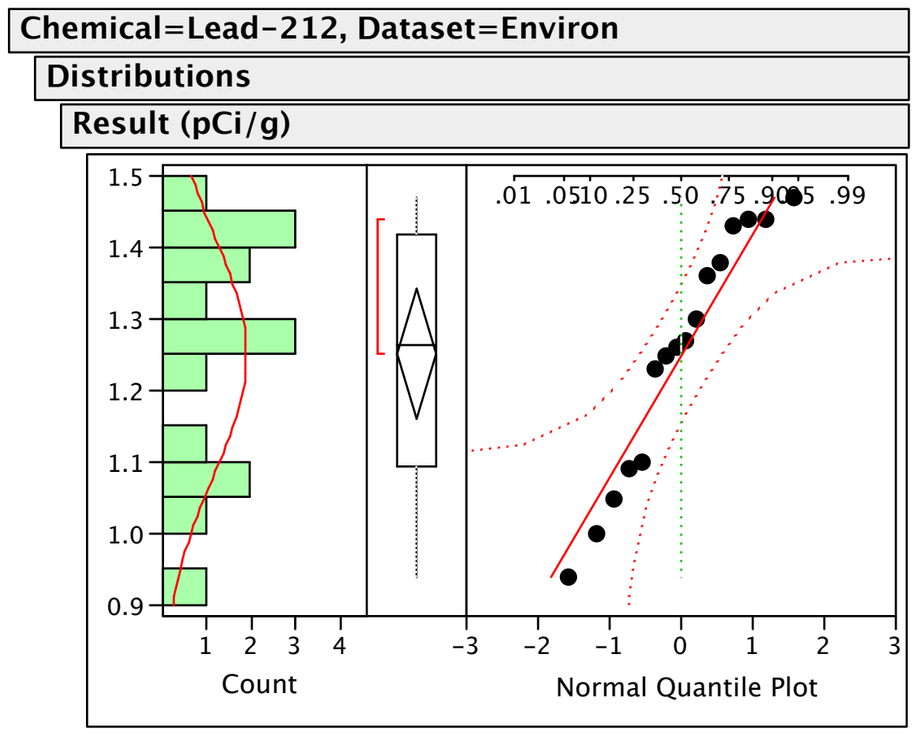
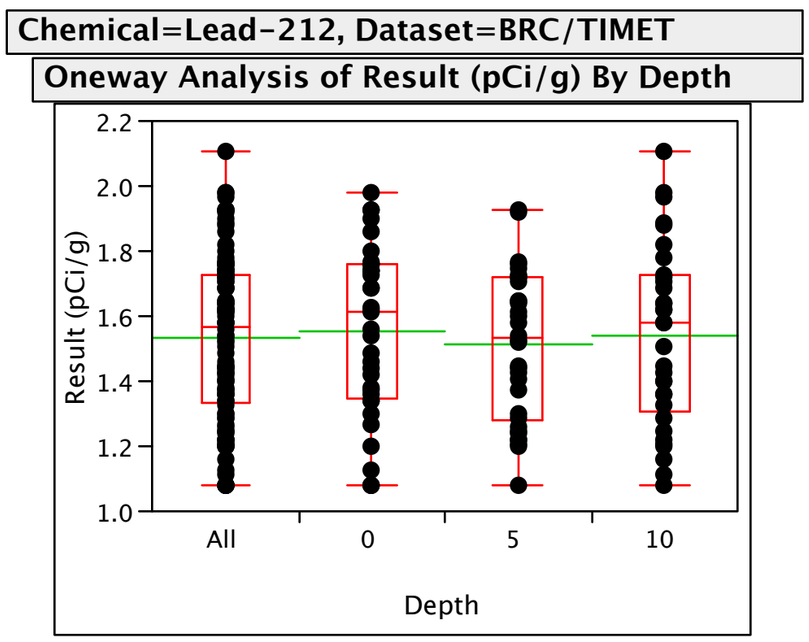


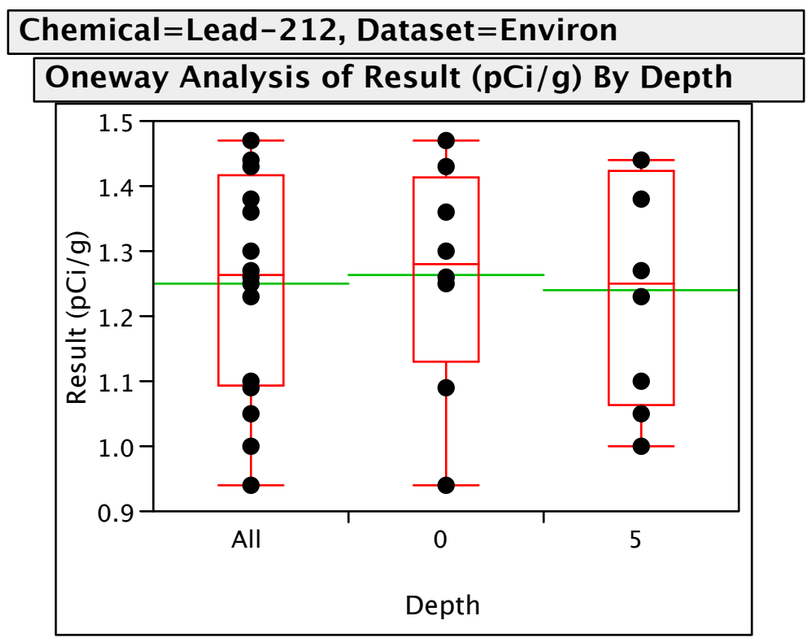
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









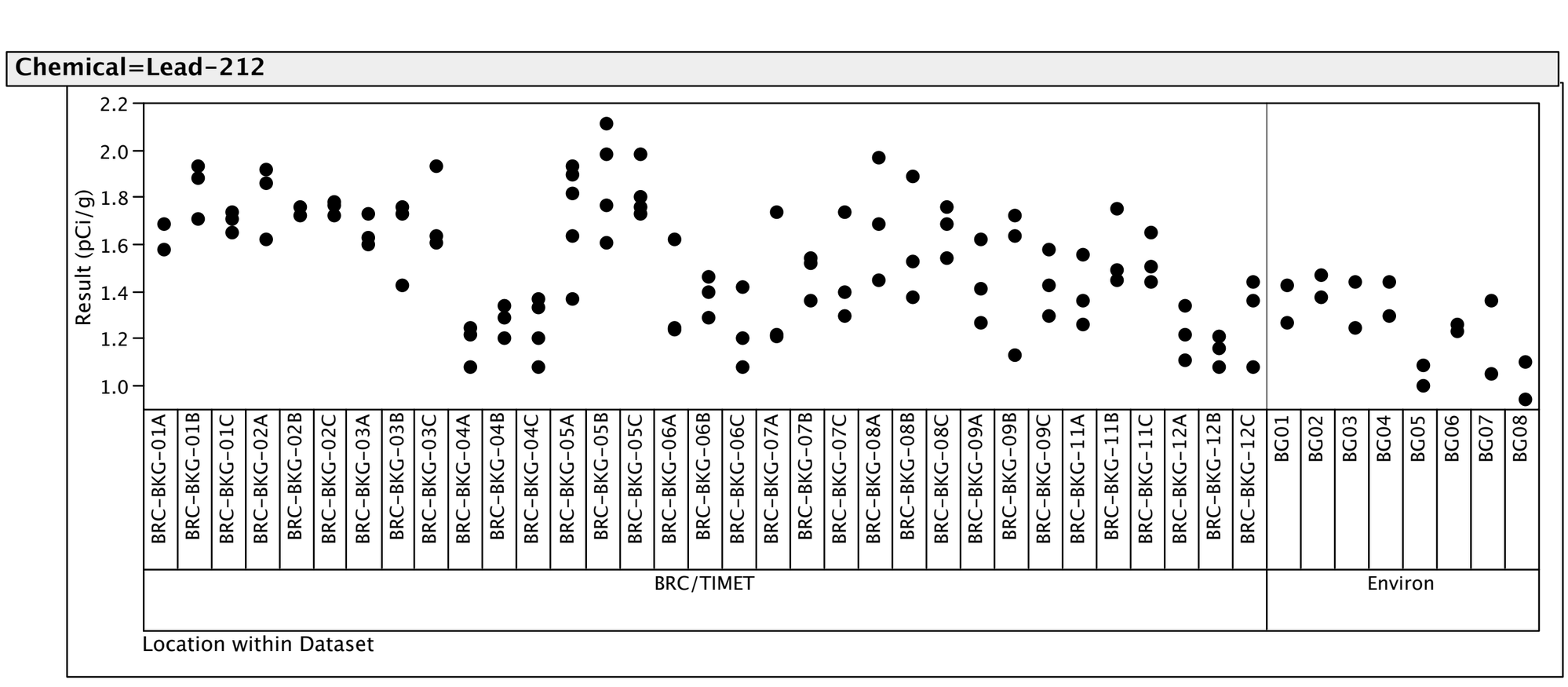
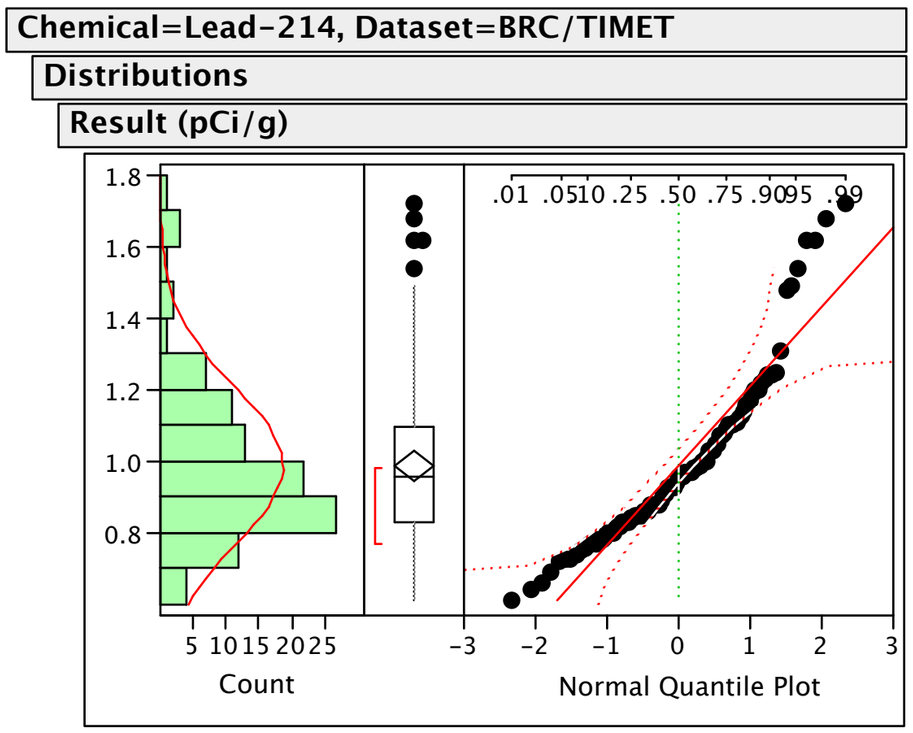
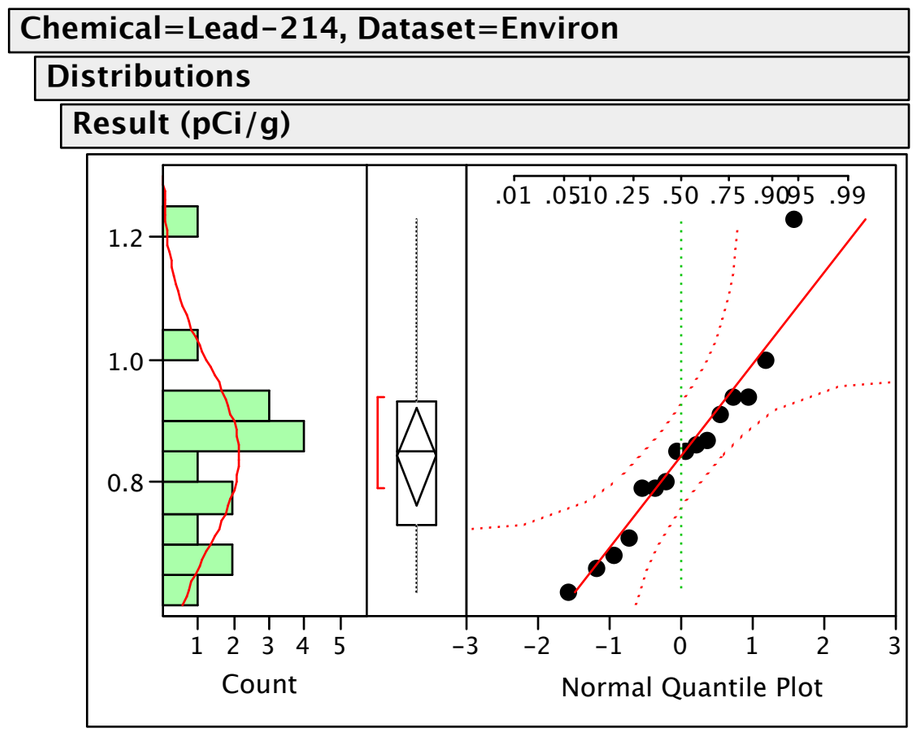
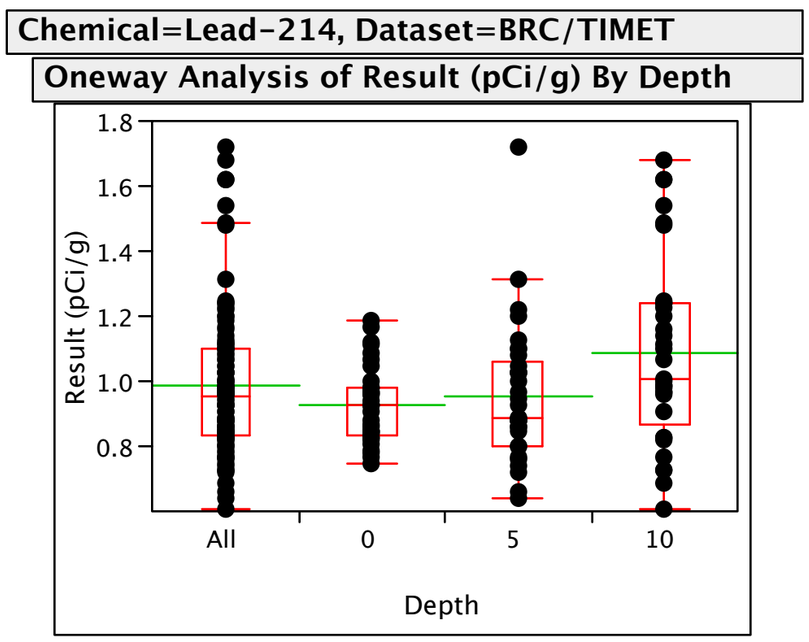


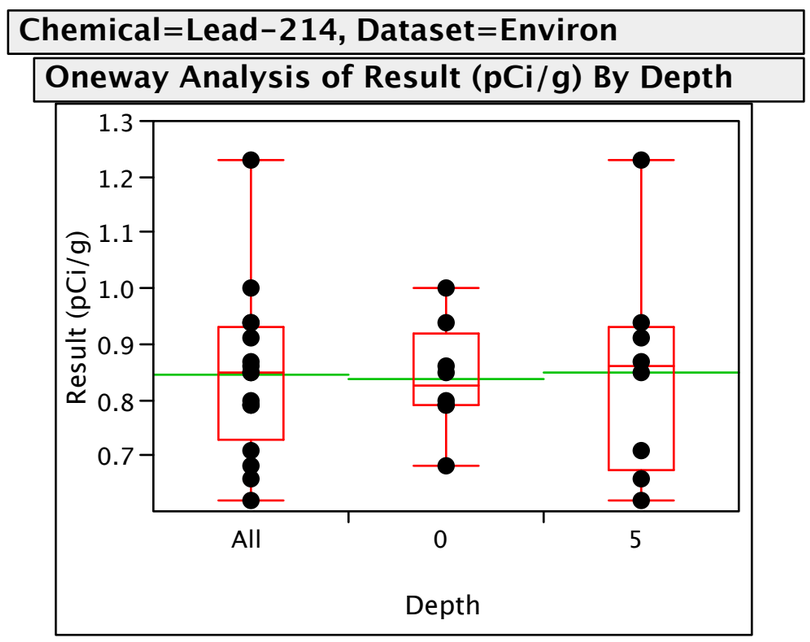
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









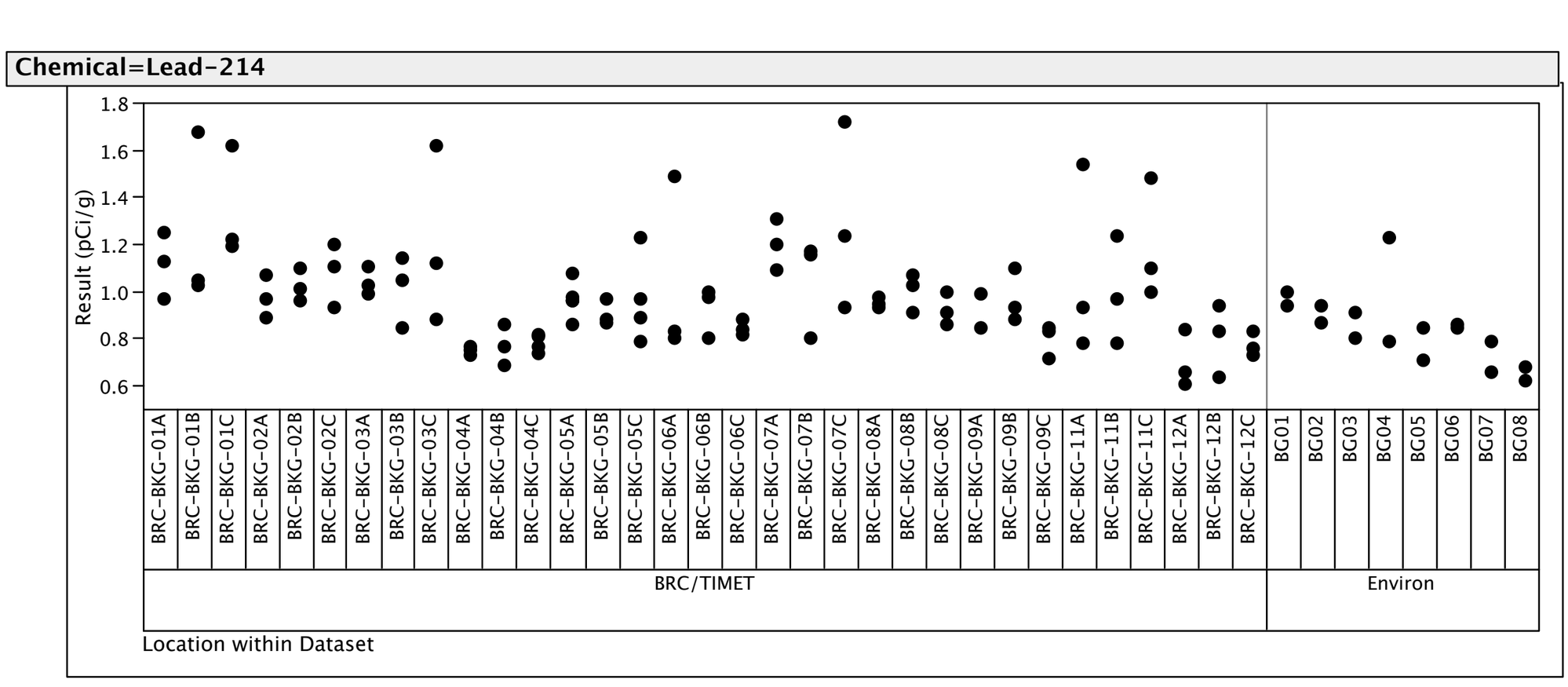
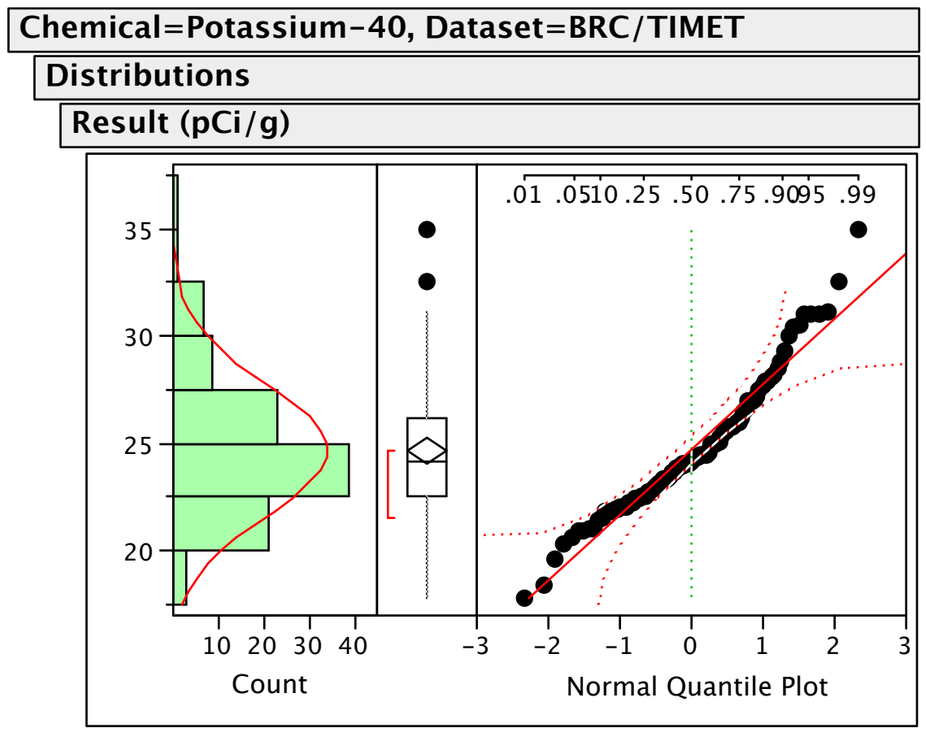
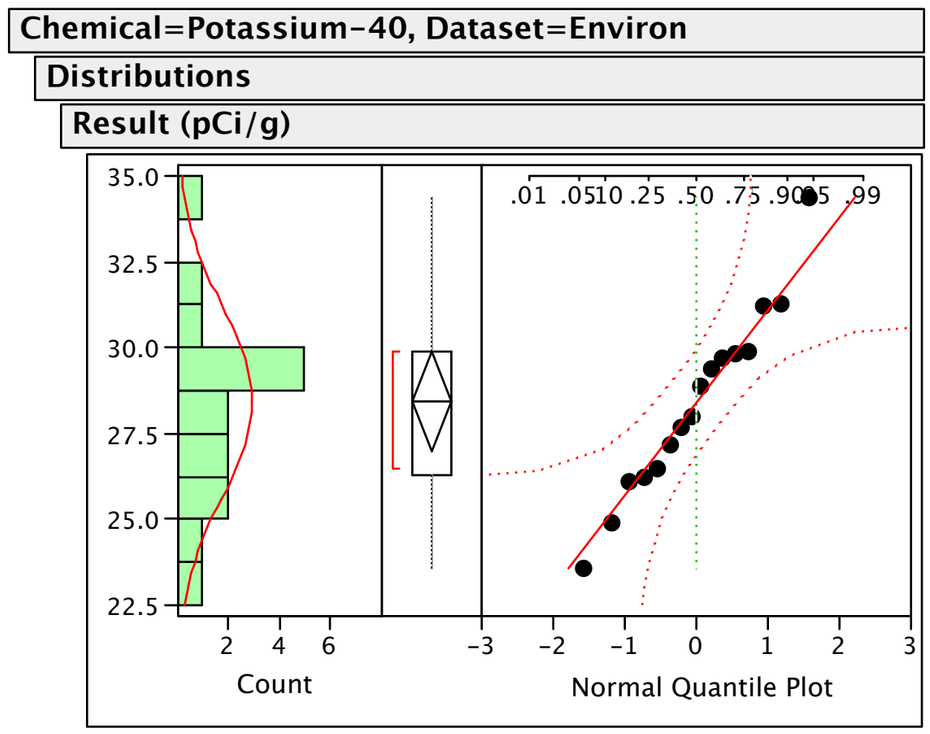
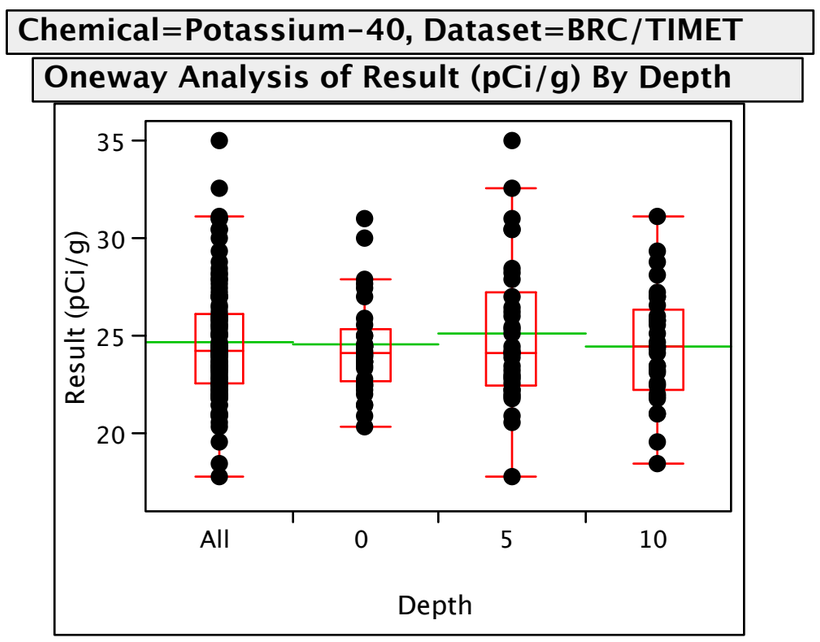


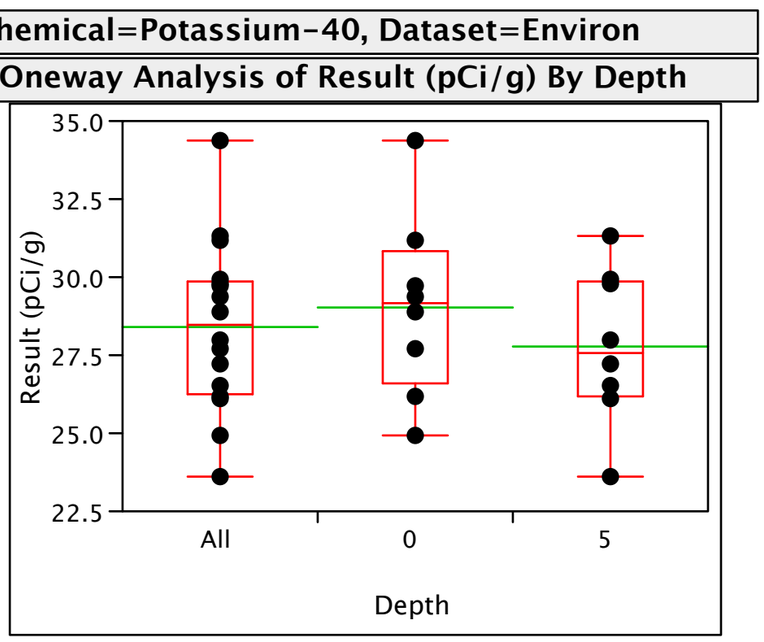
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









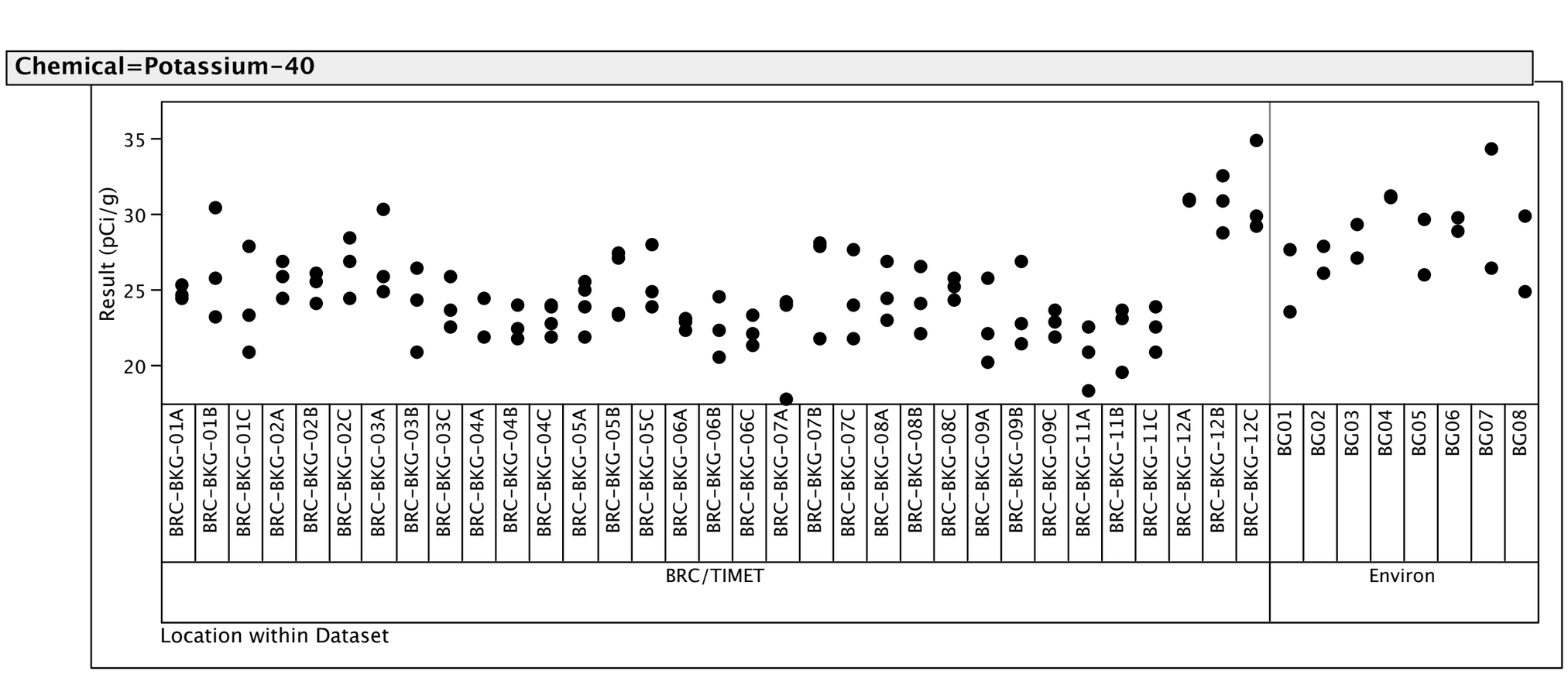
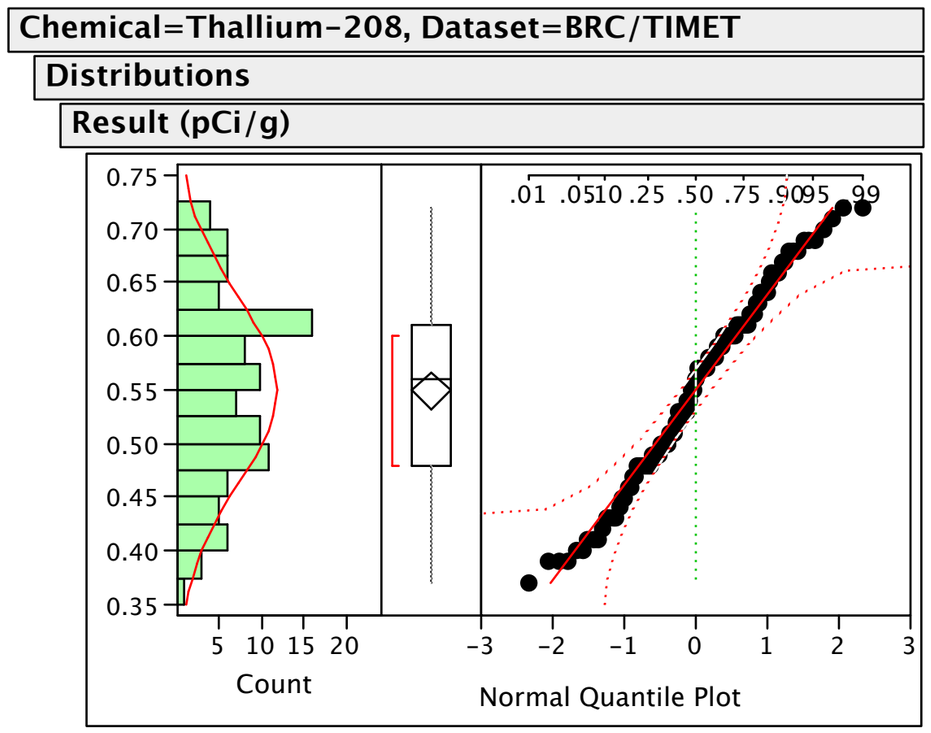
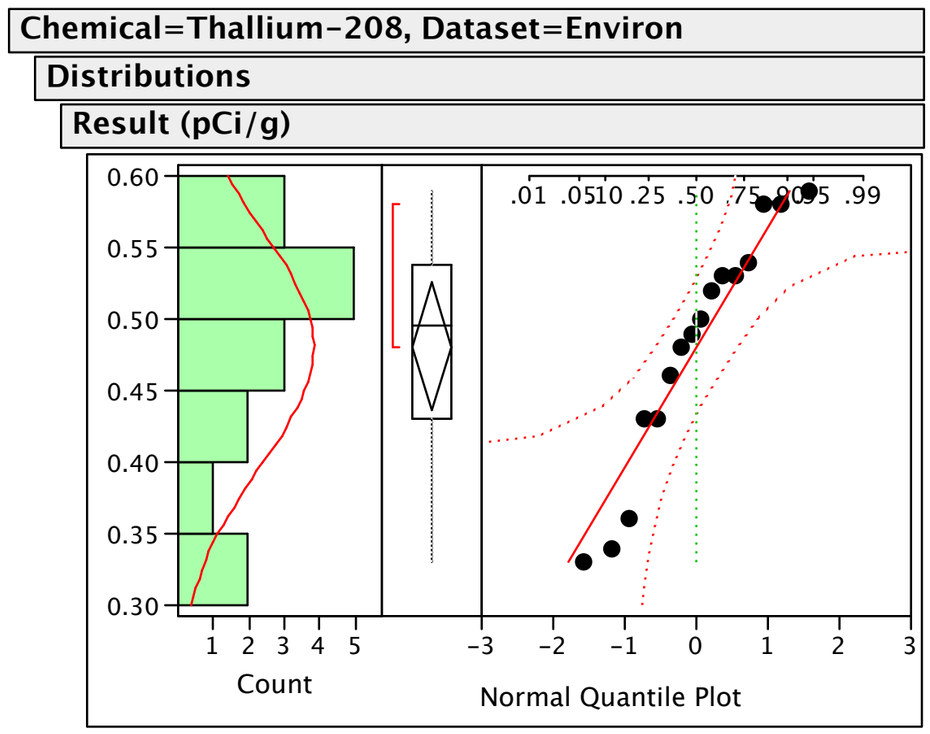
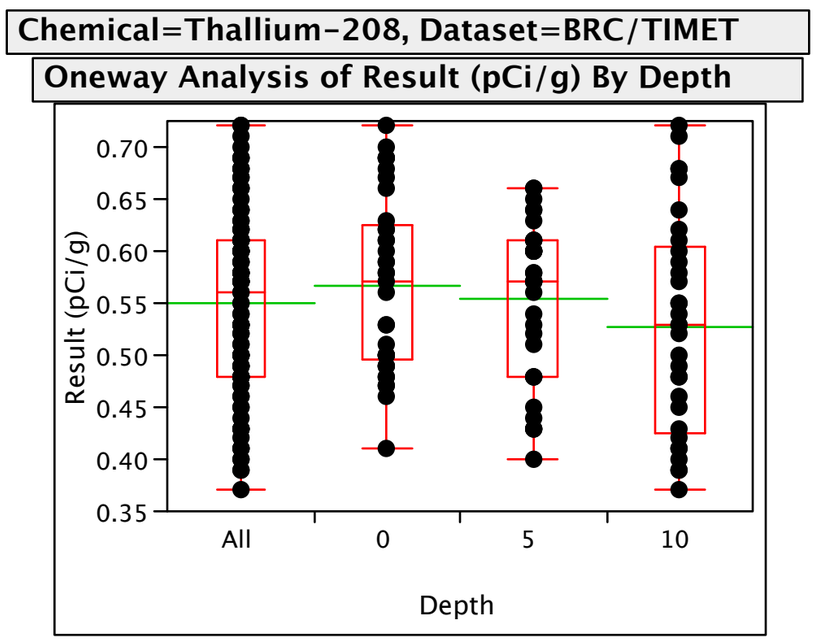


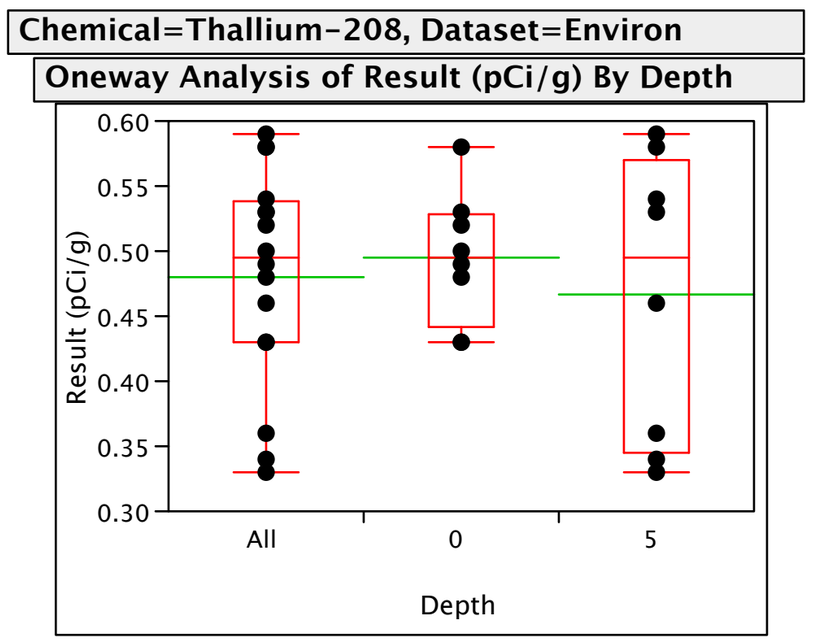
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









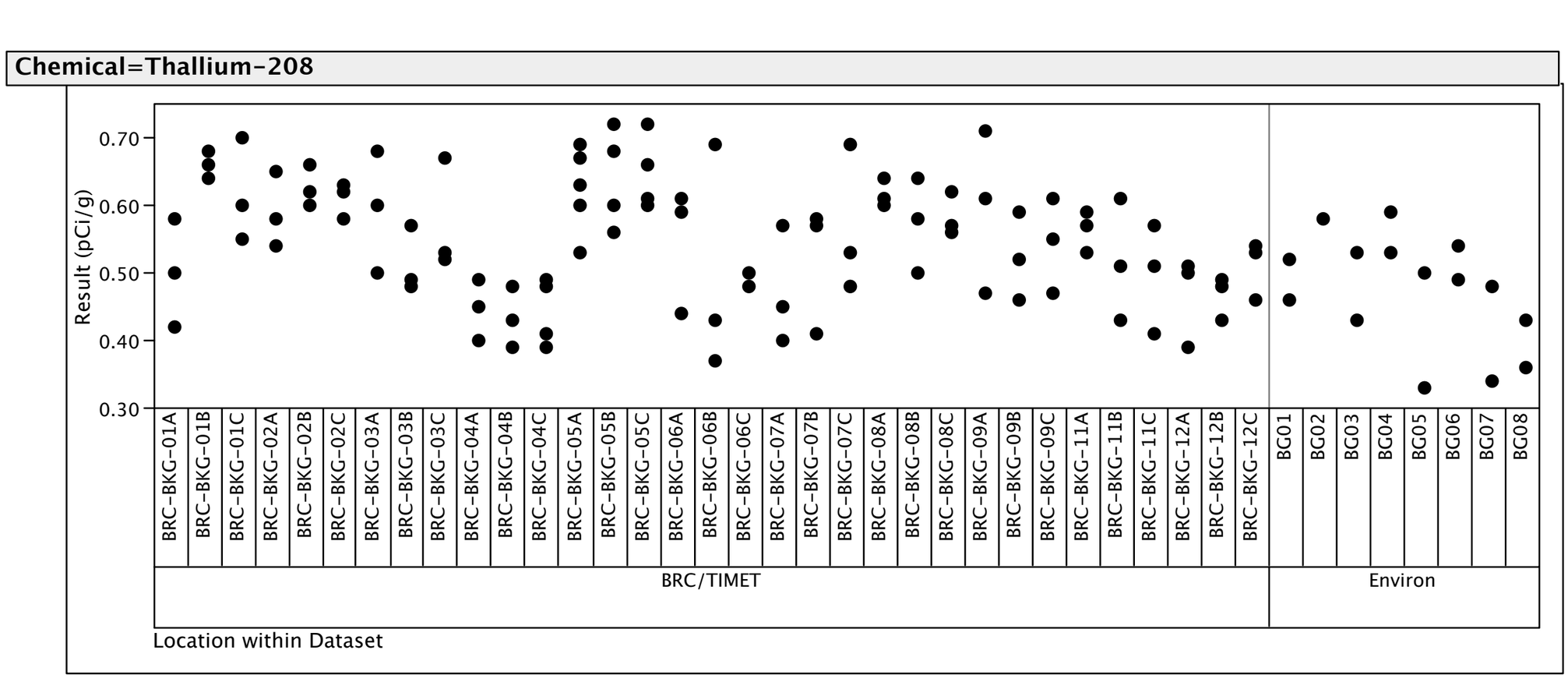
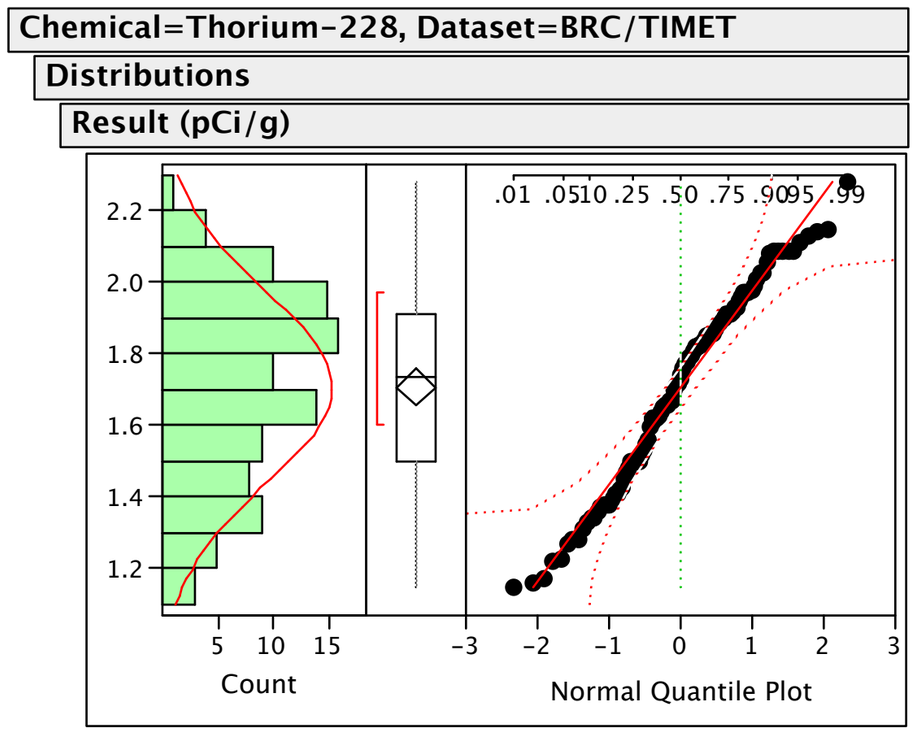
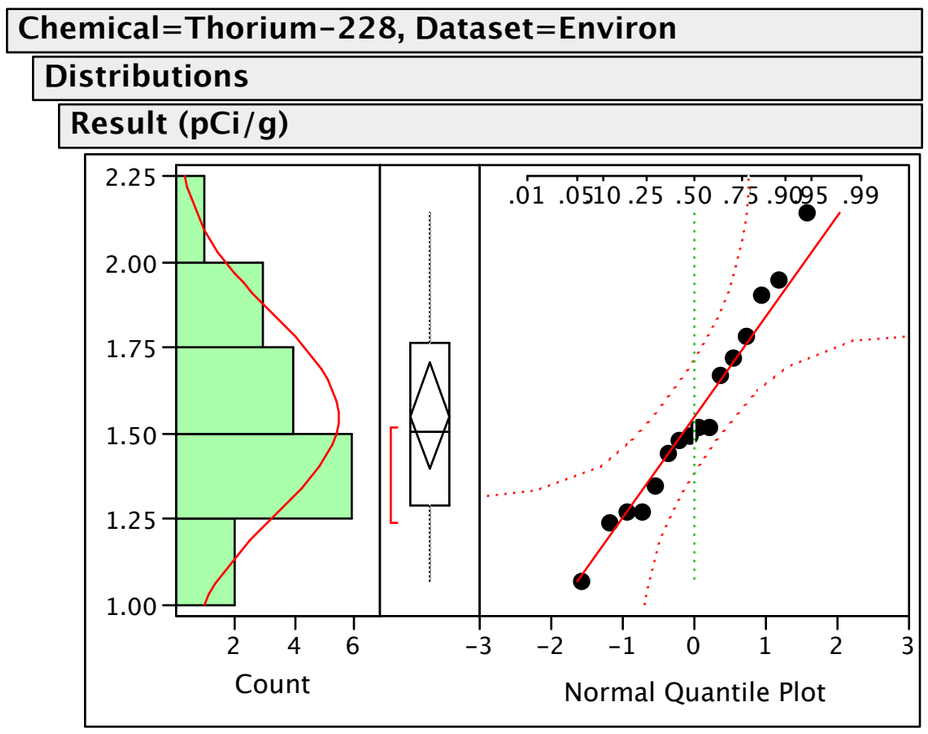
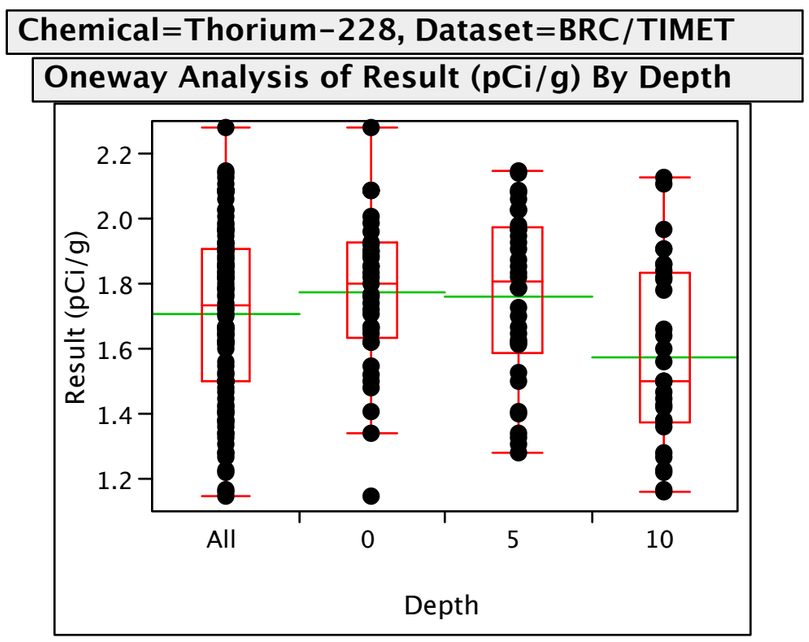


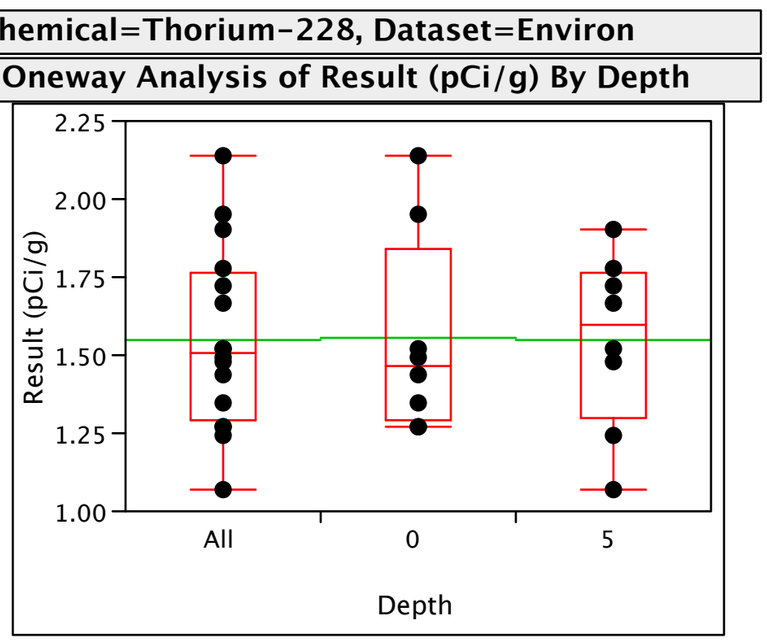
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









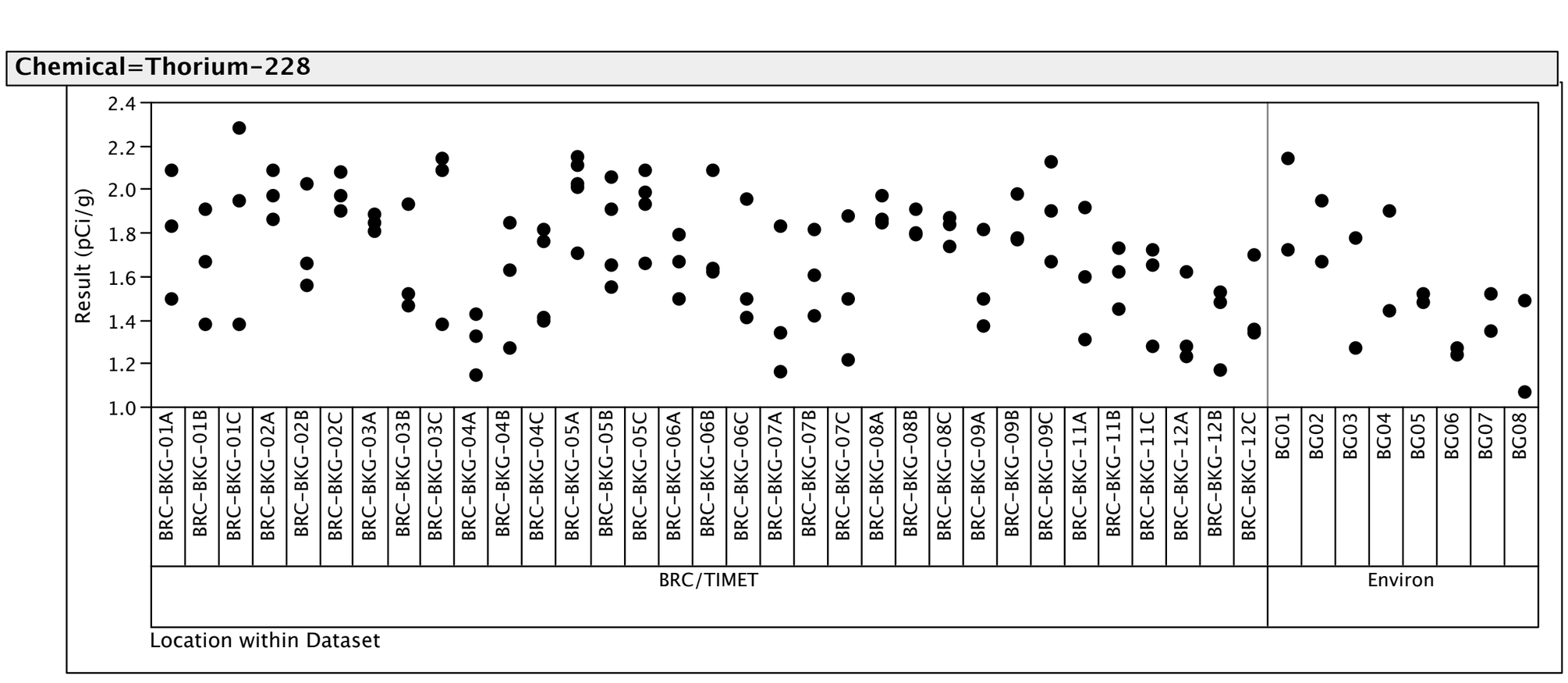
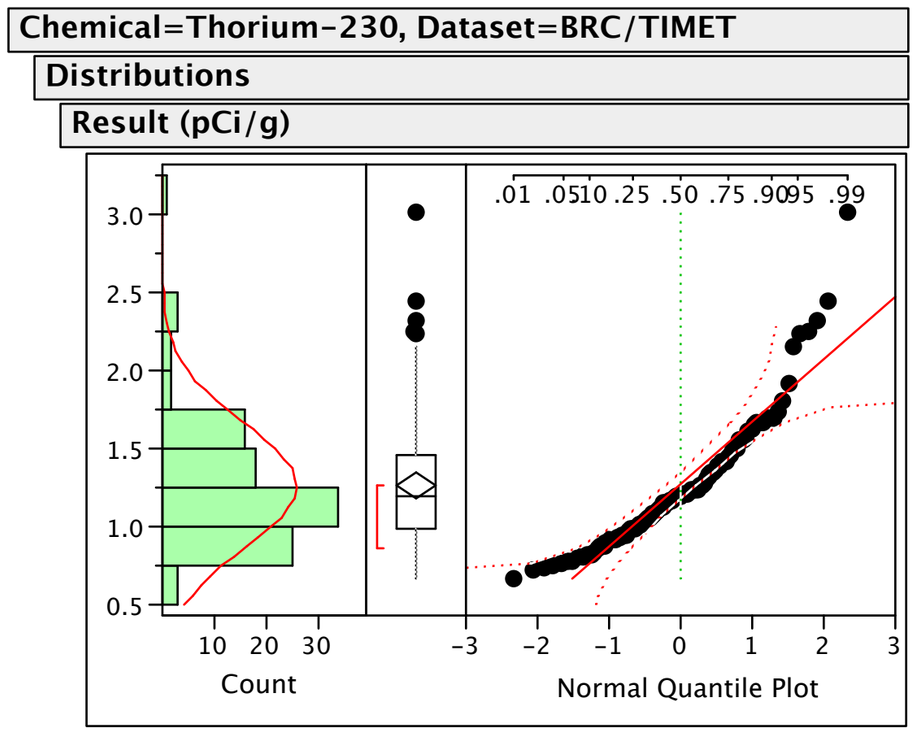
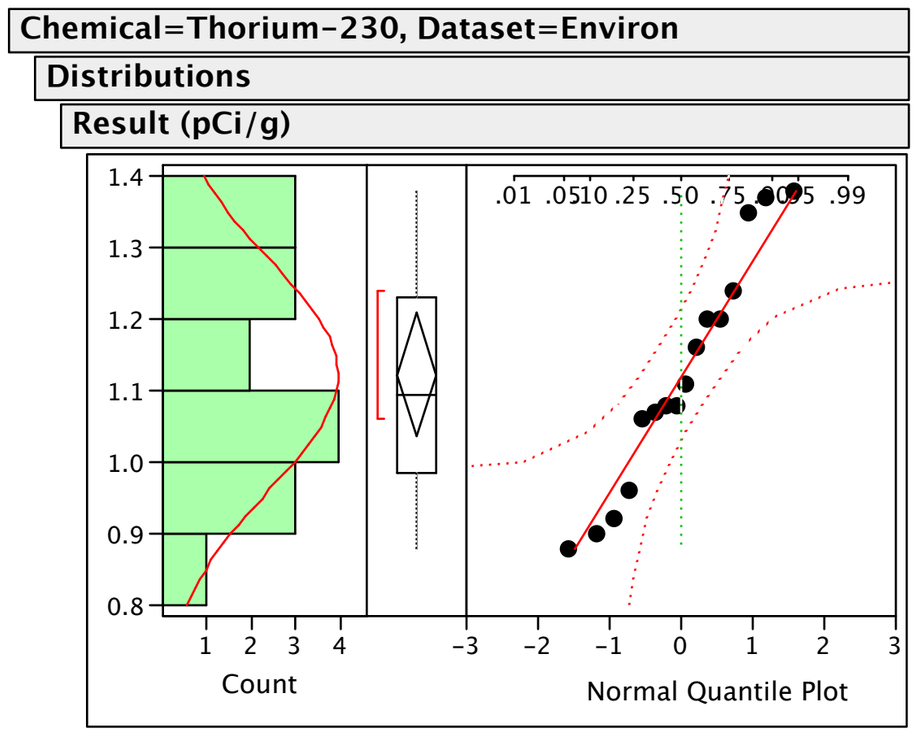
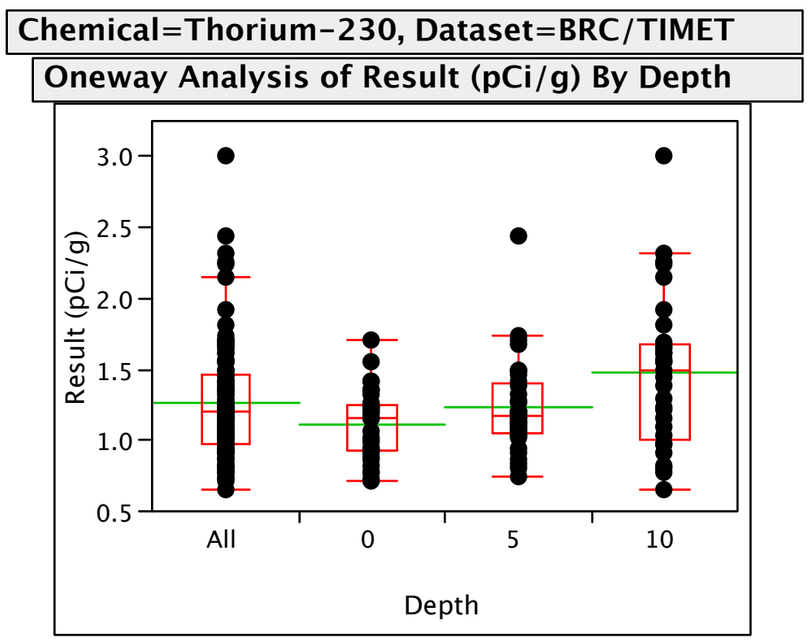


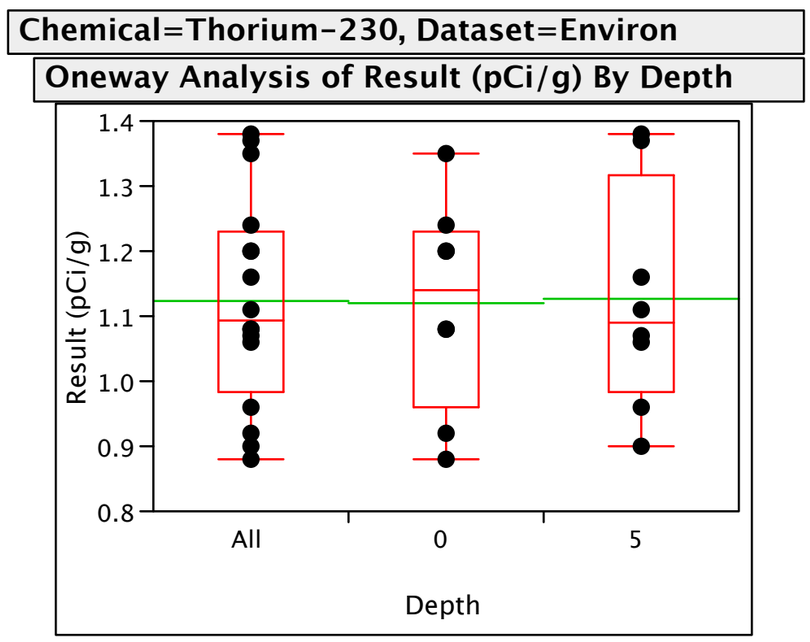
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









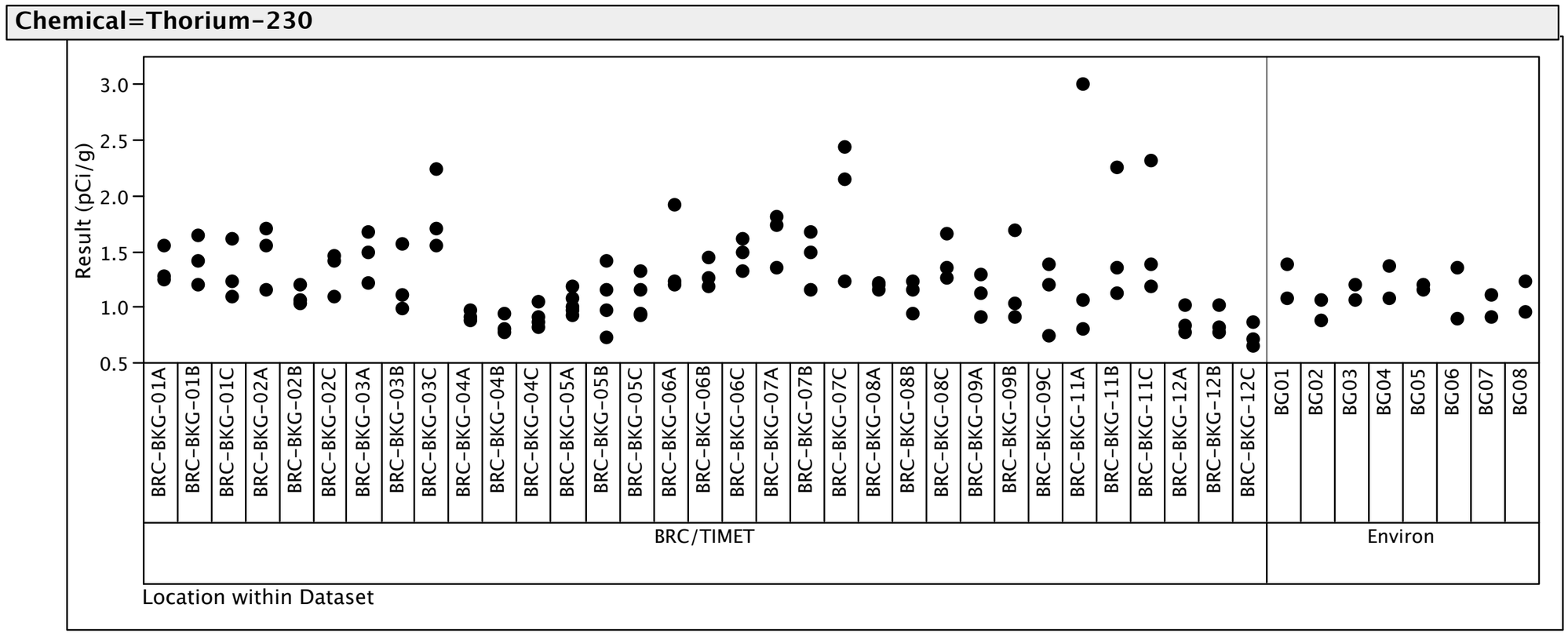
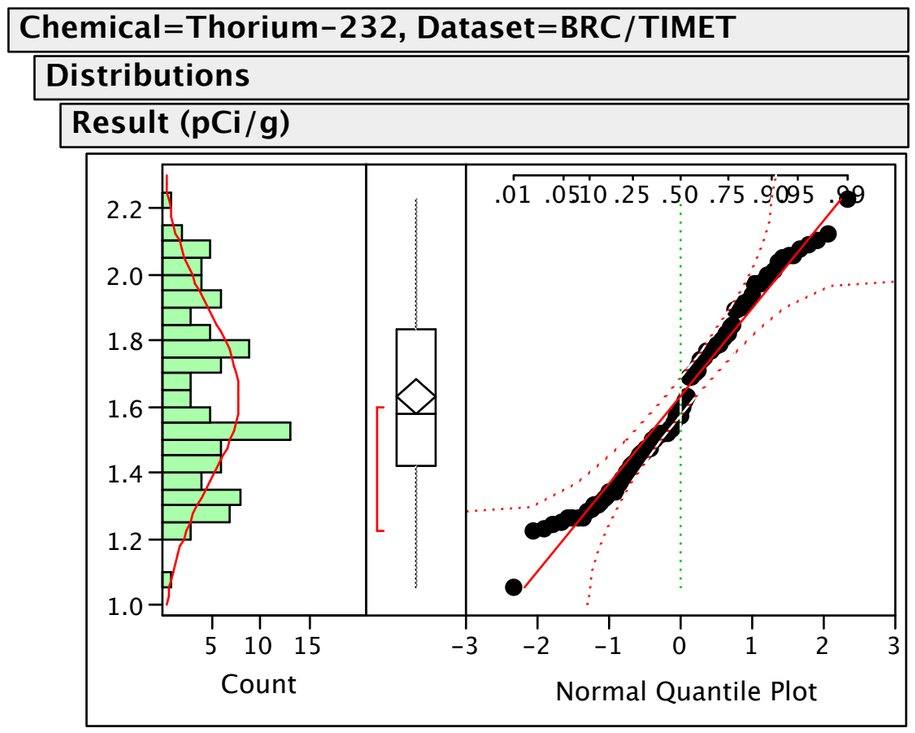
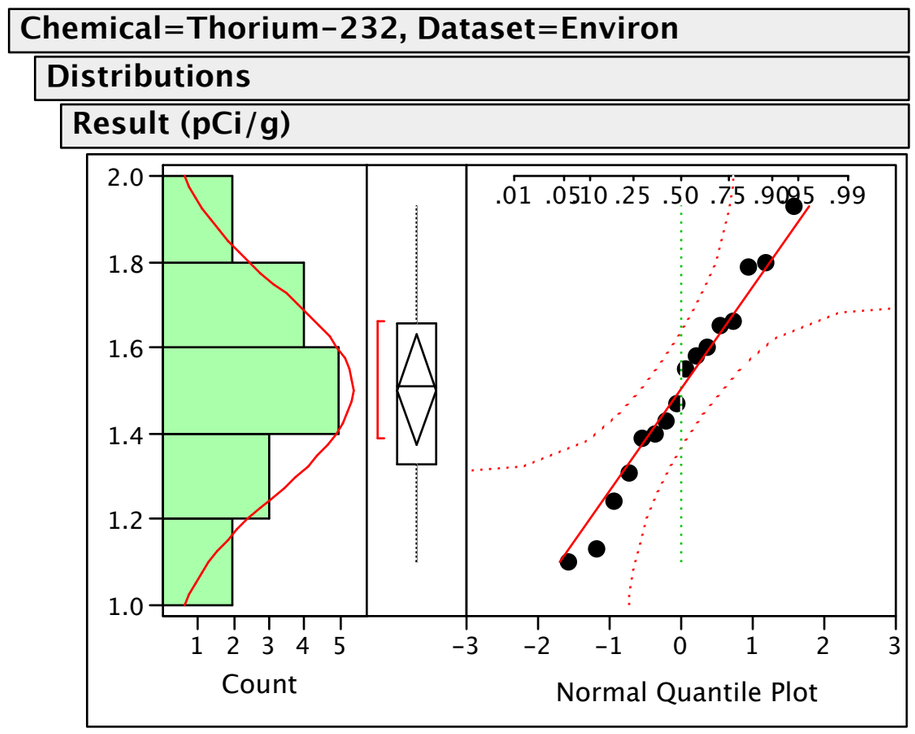
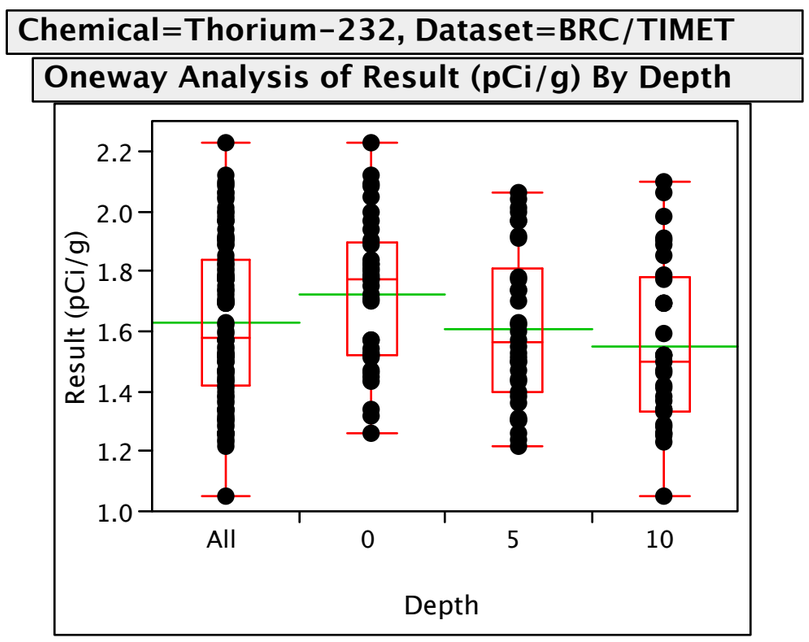


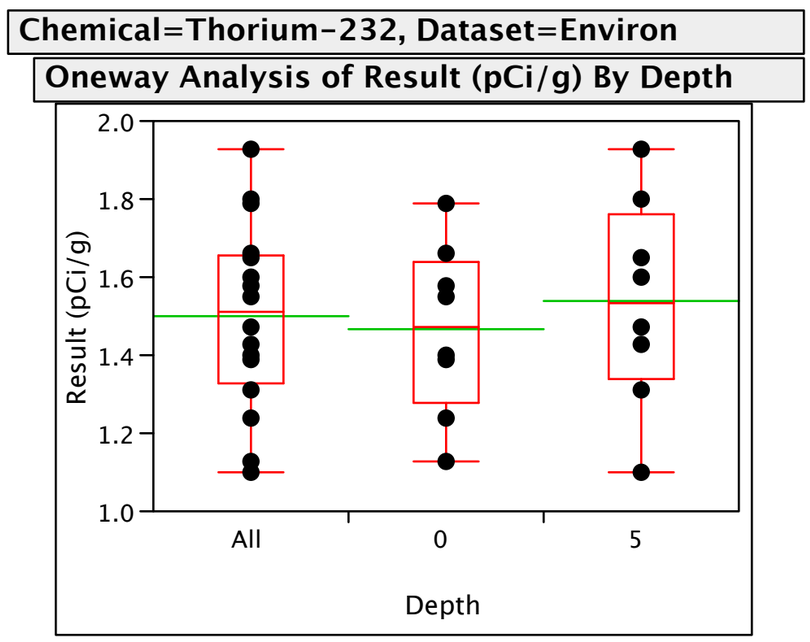
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









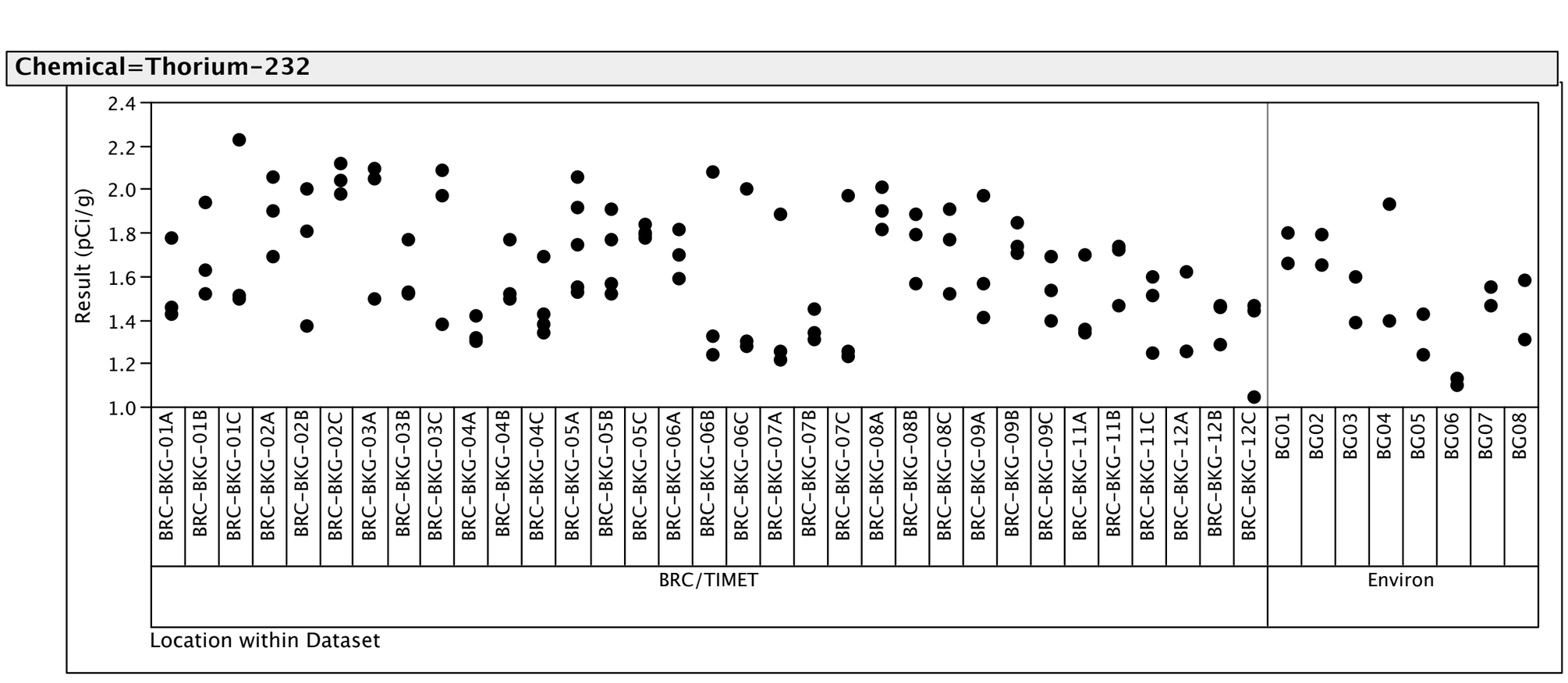
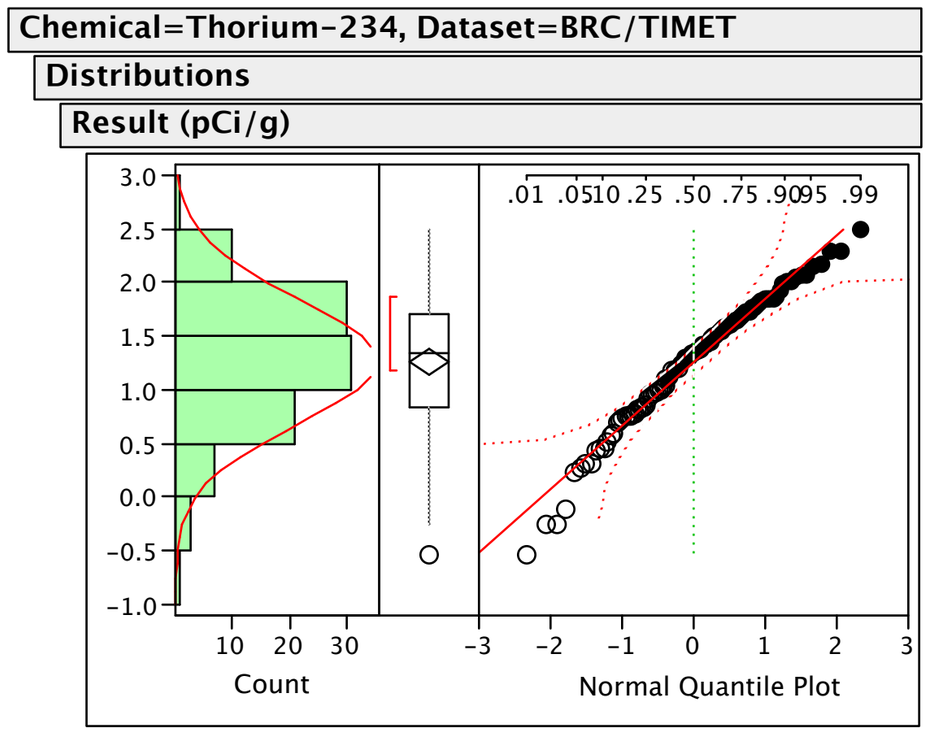
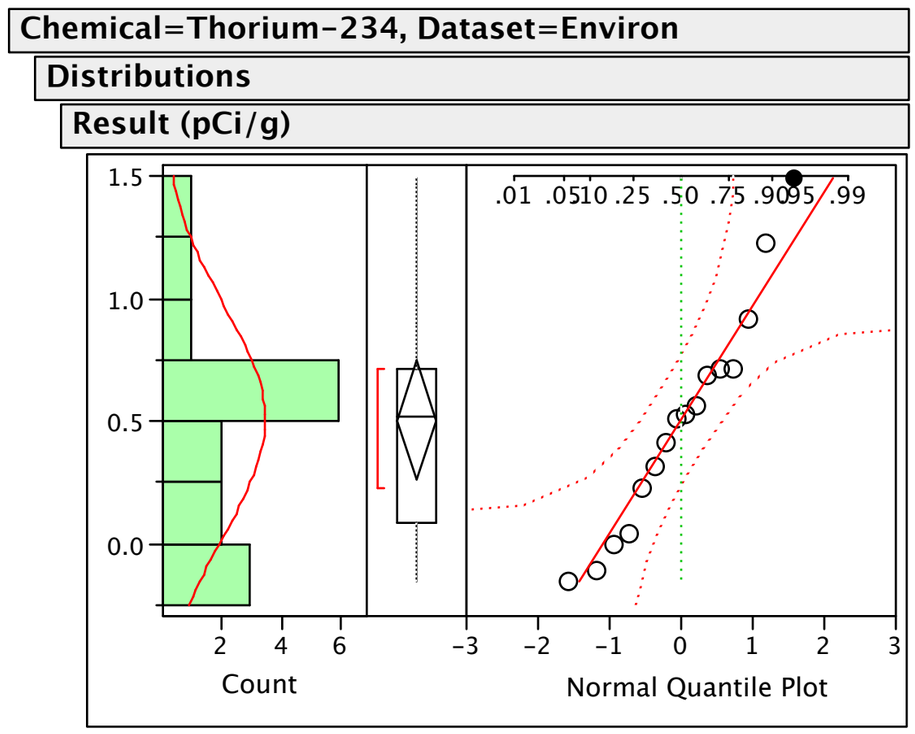
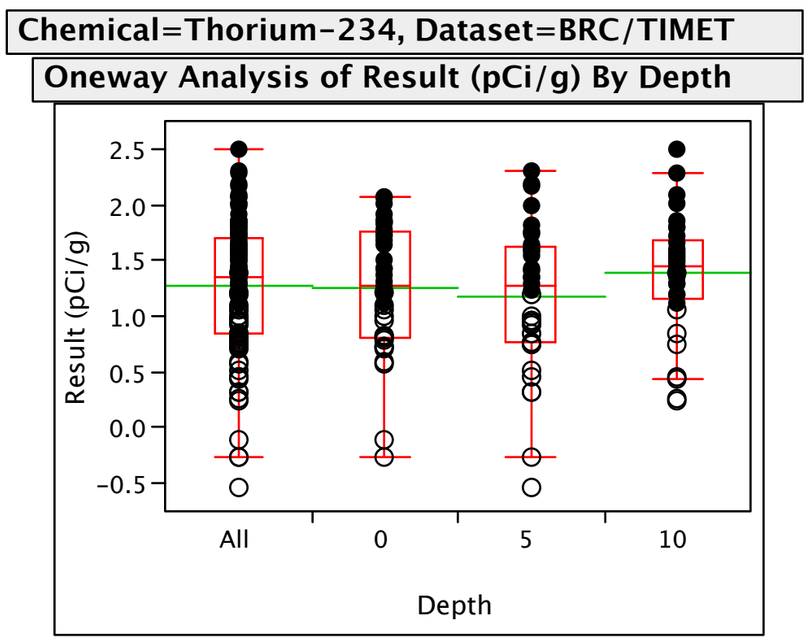


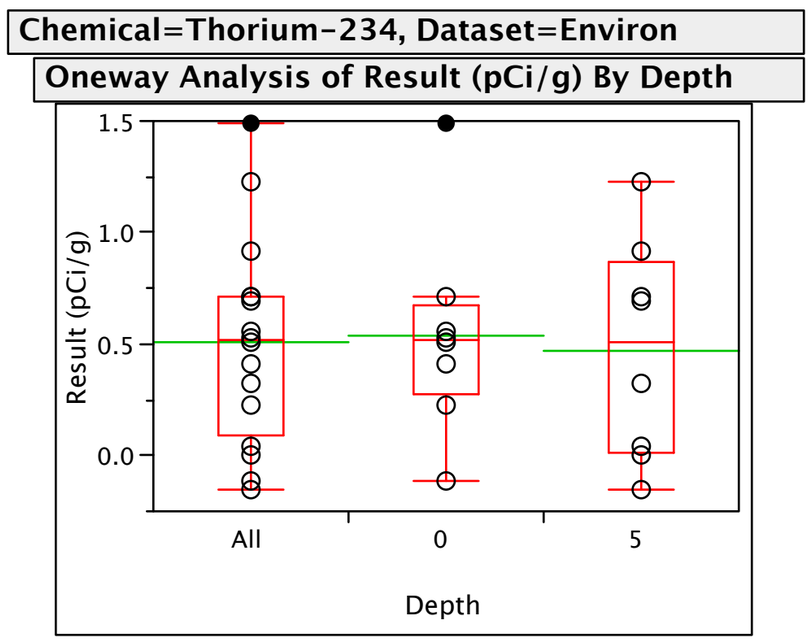
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









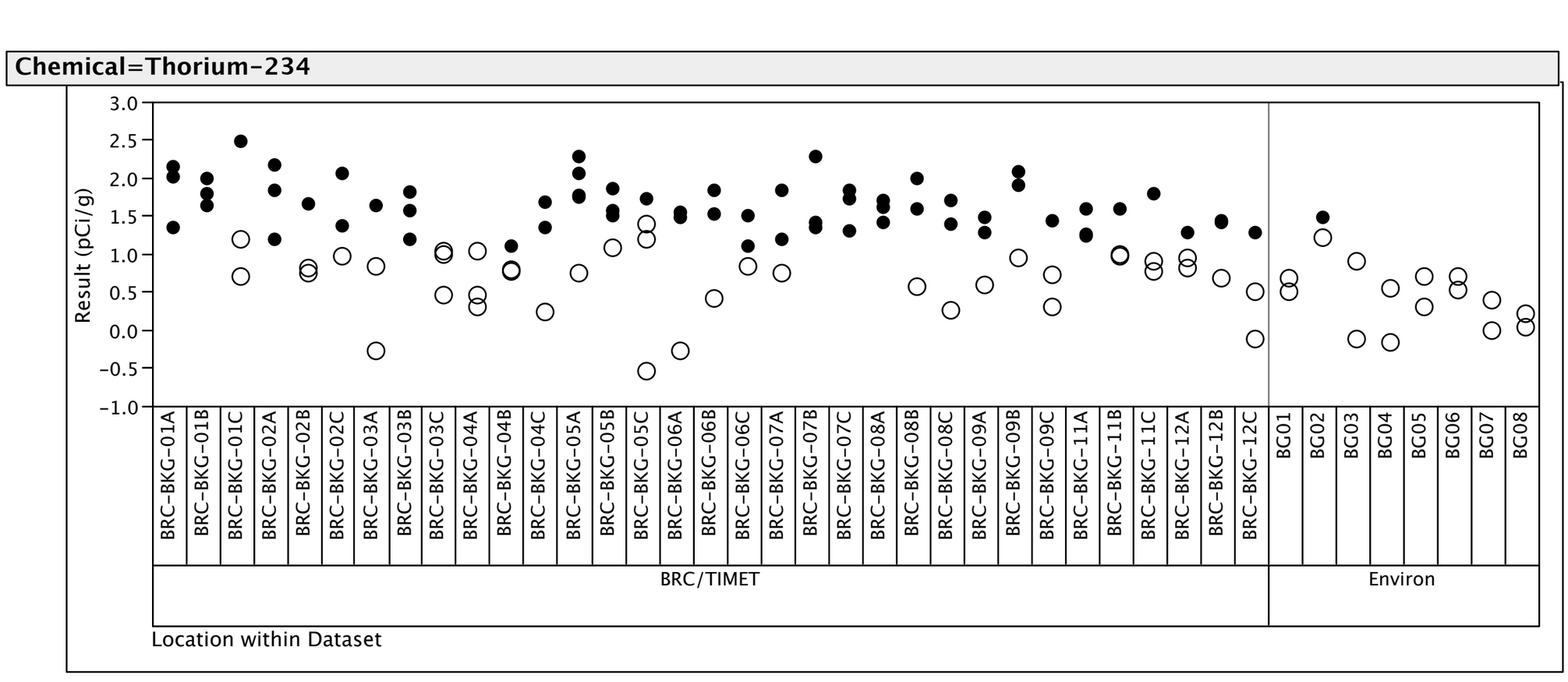
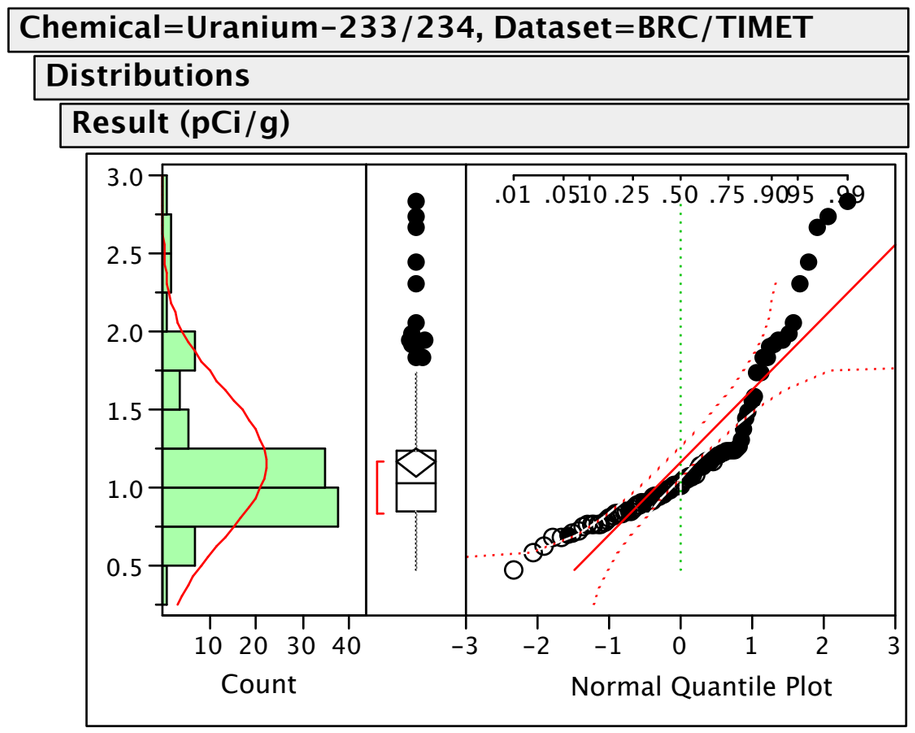
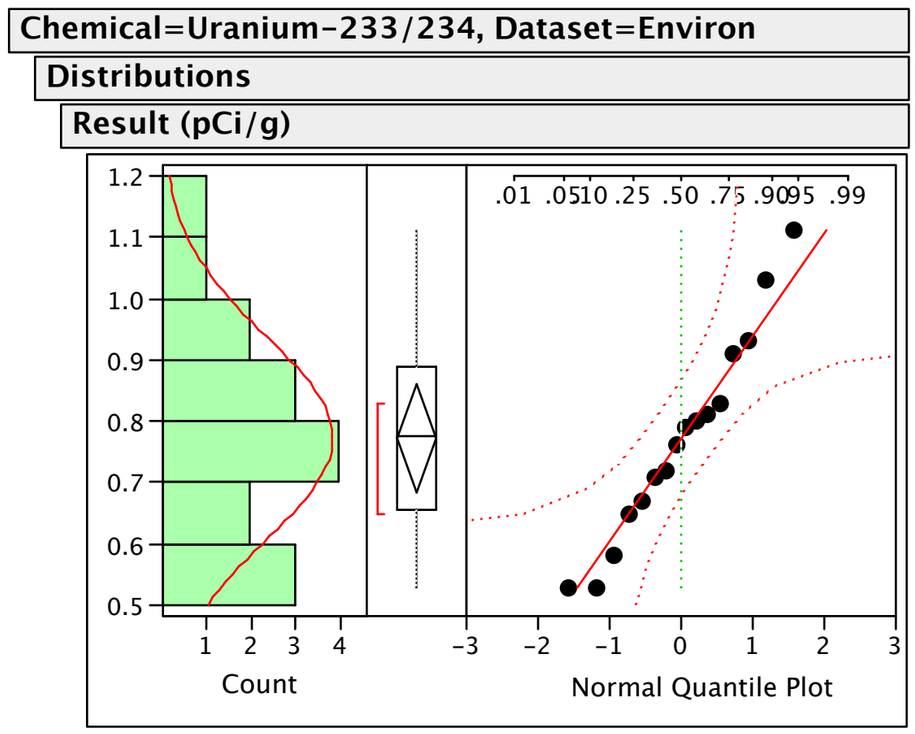
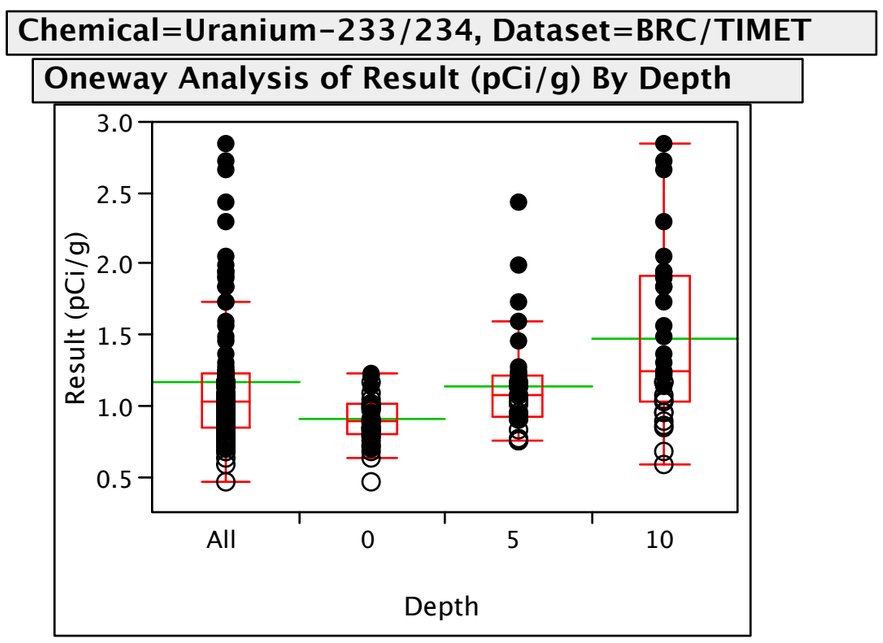


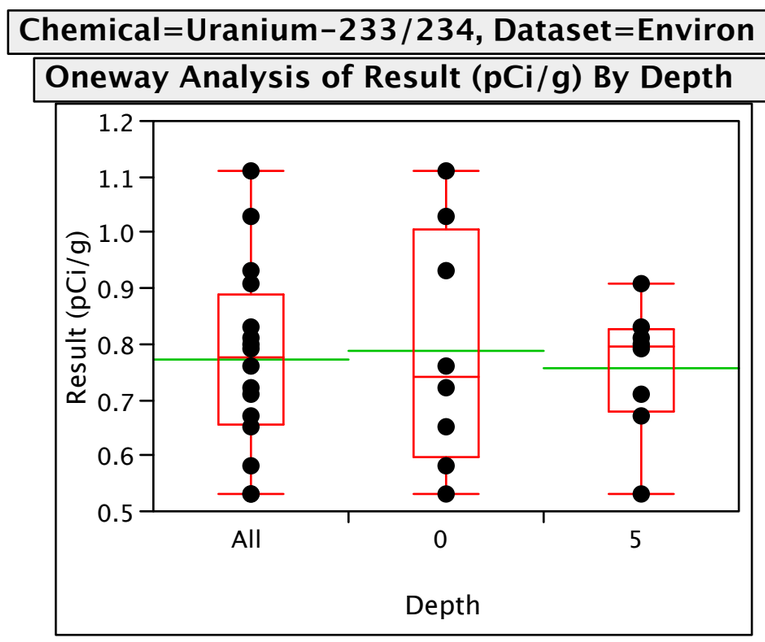
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









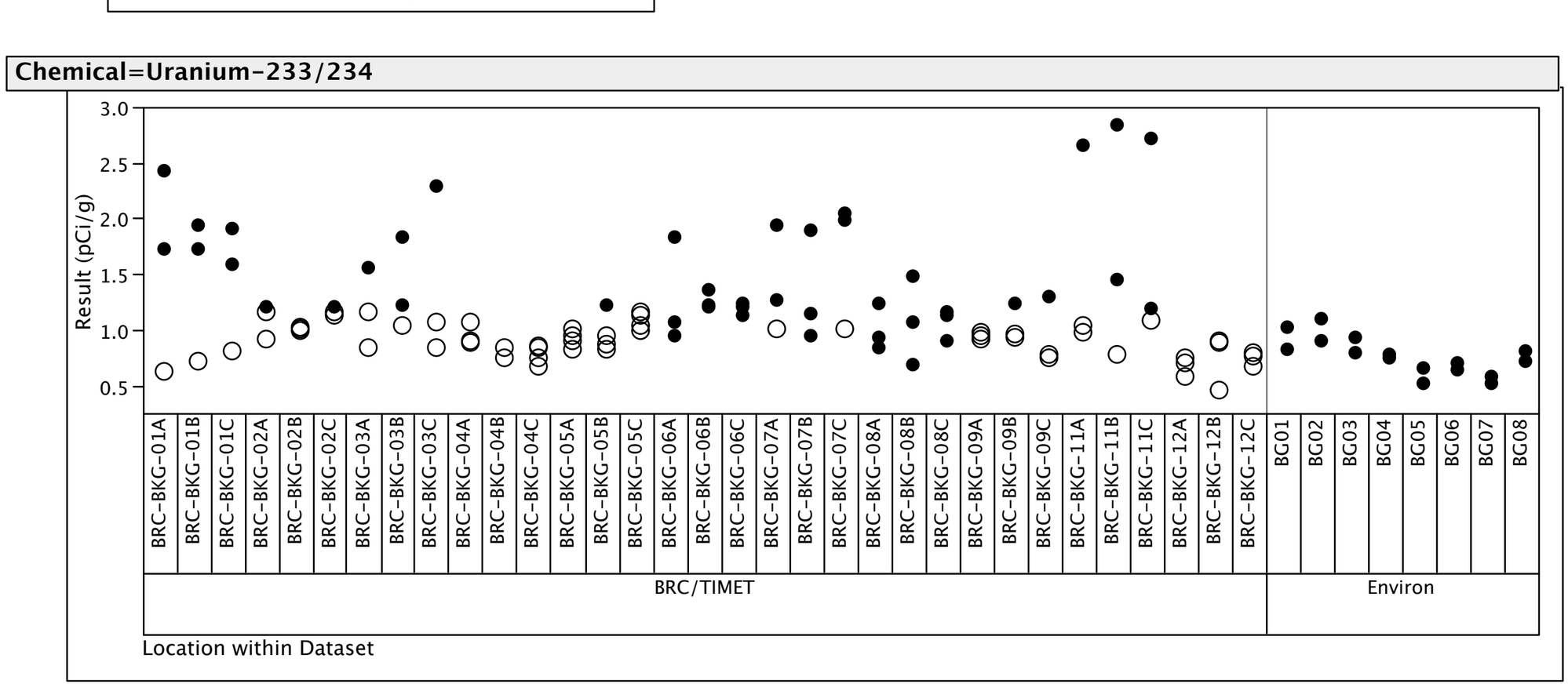
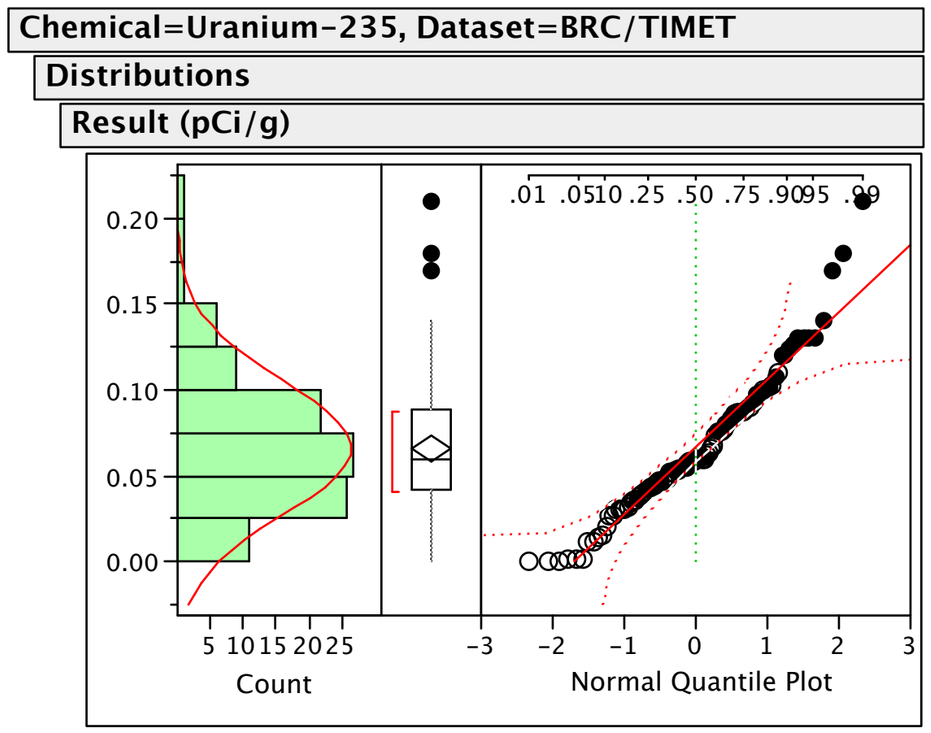
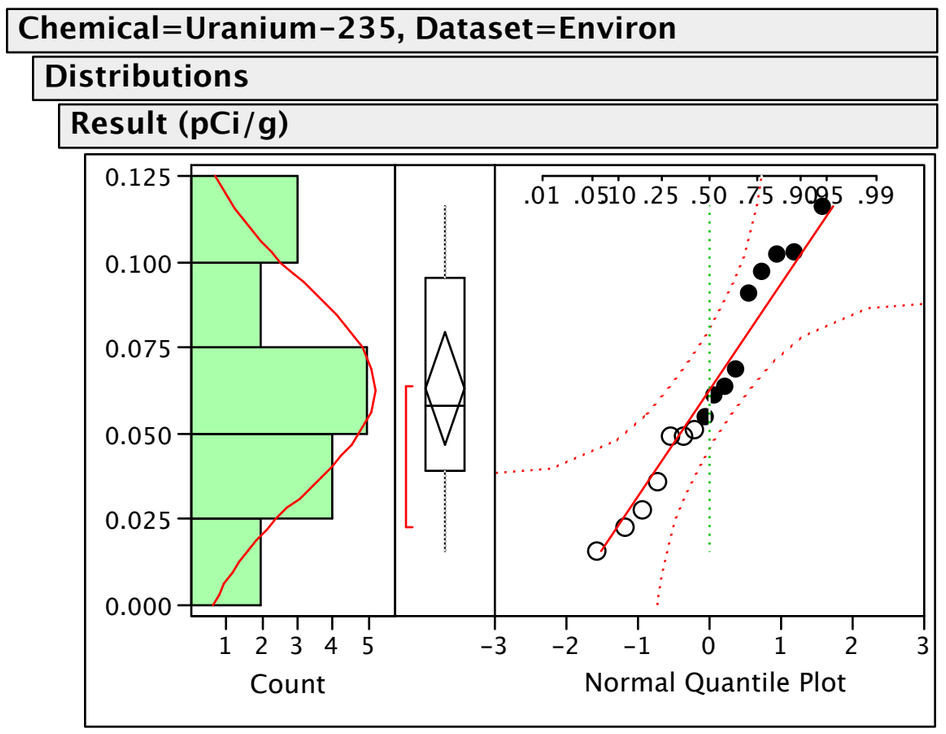
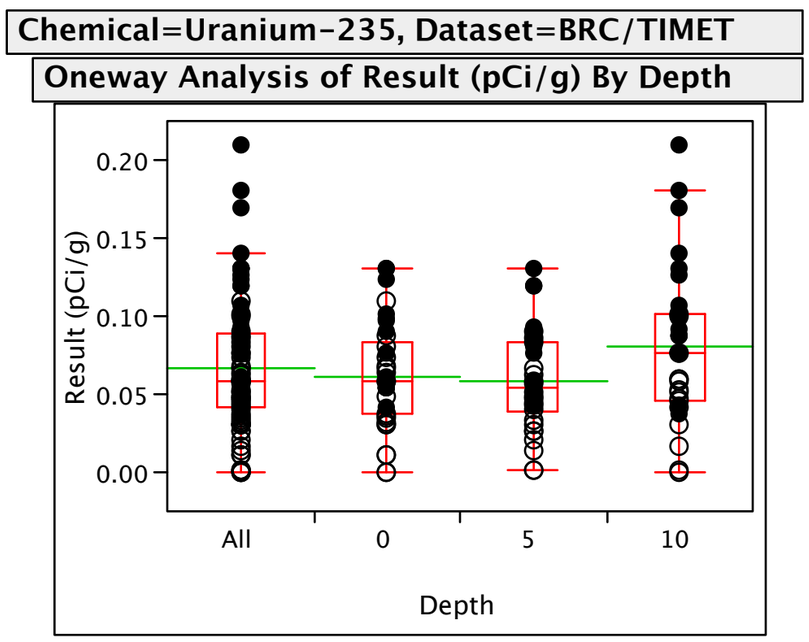


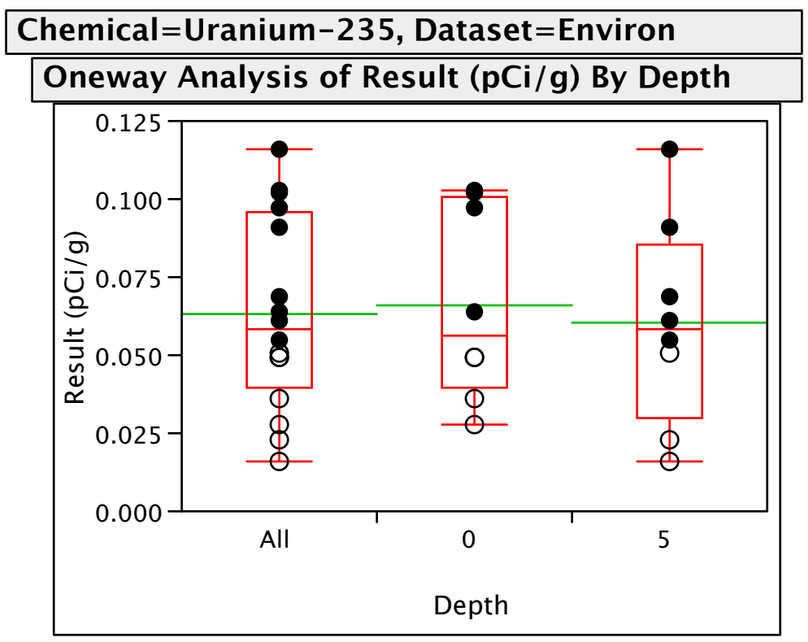
FIGURE F-2 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL









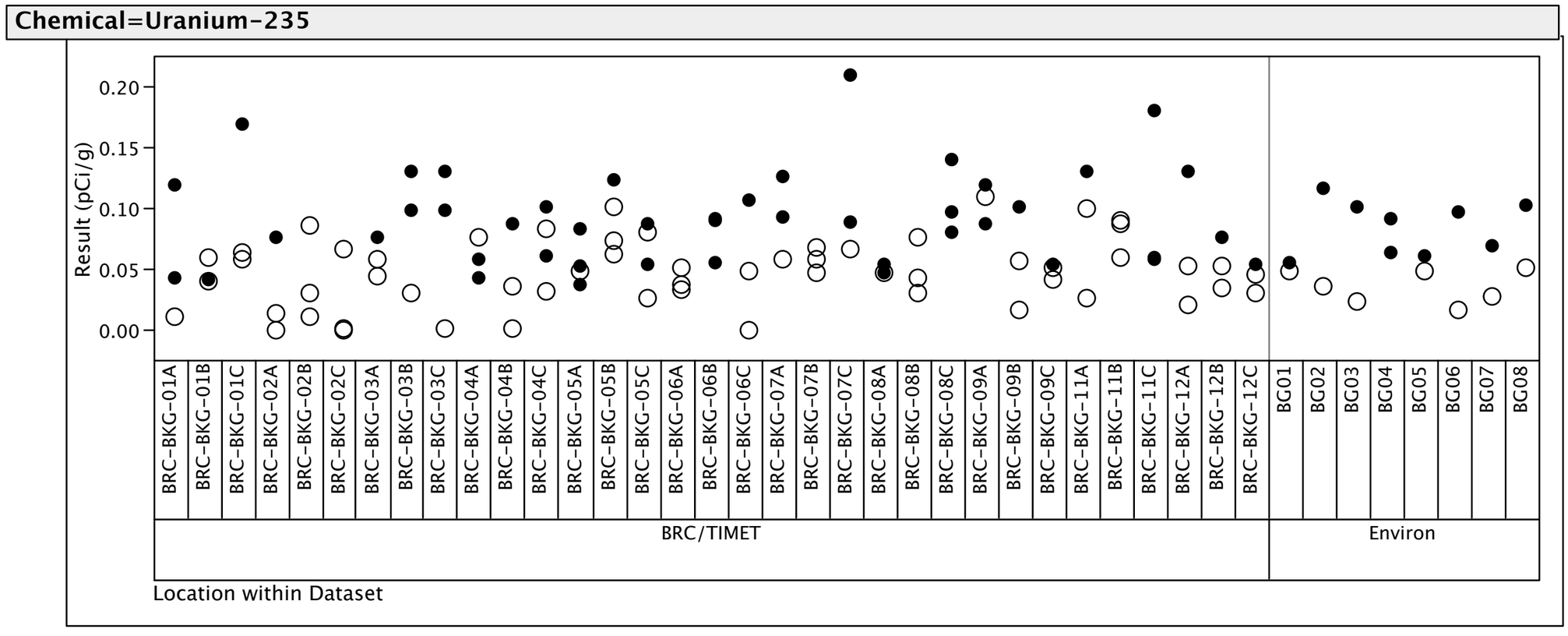
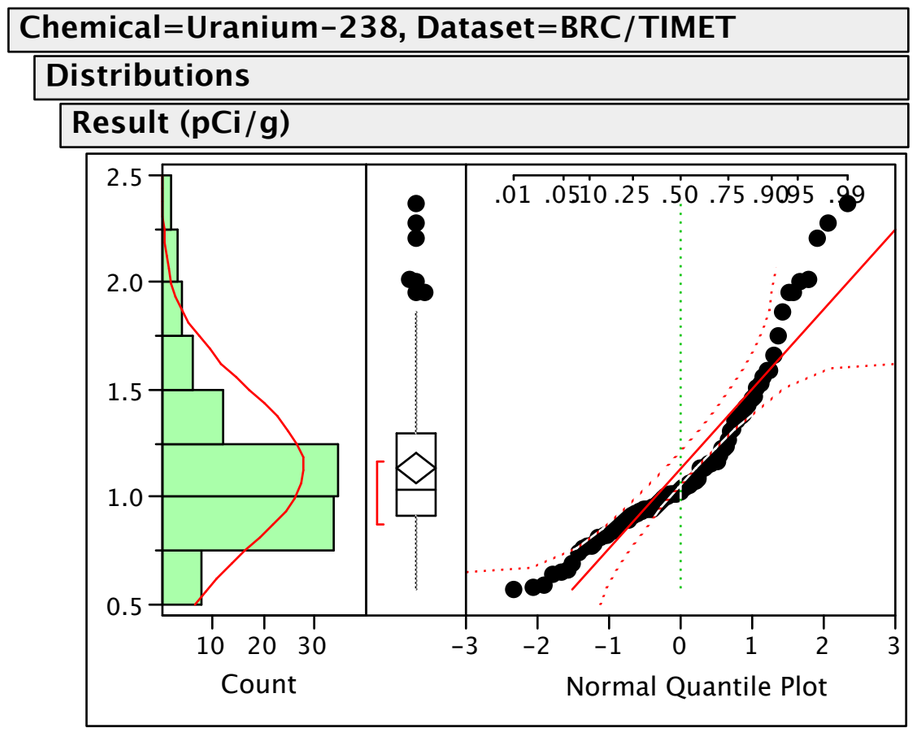
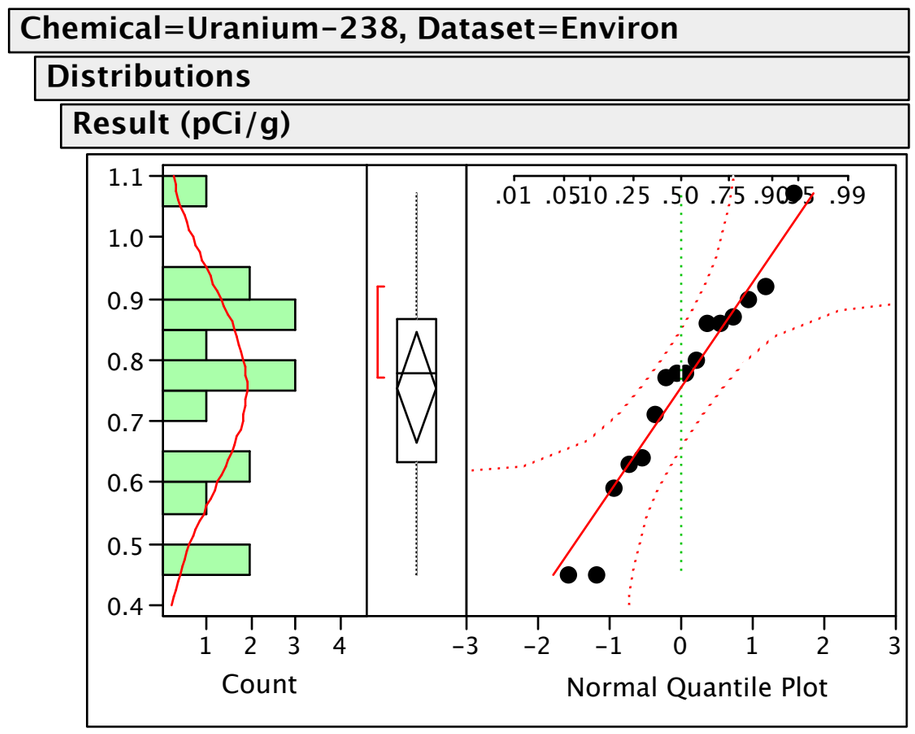
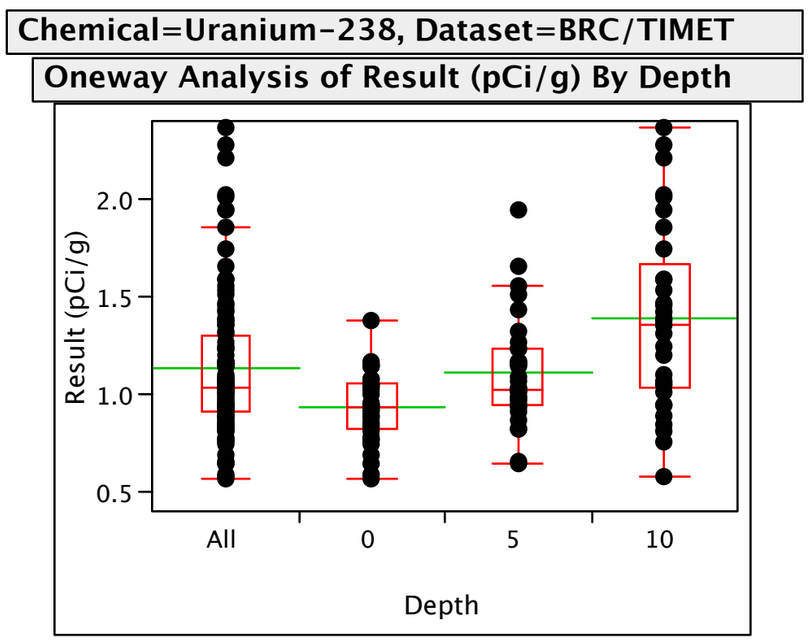


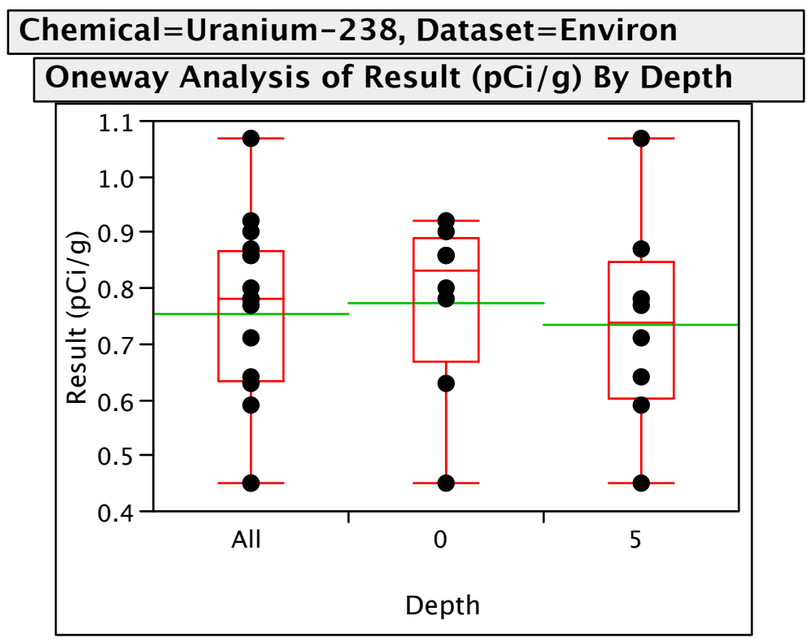
FIGURE F-2 (Continued)

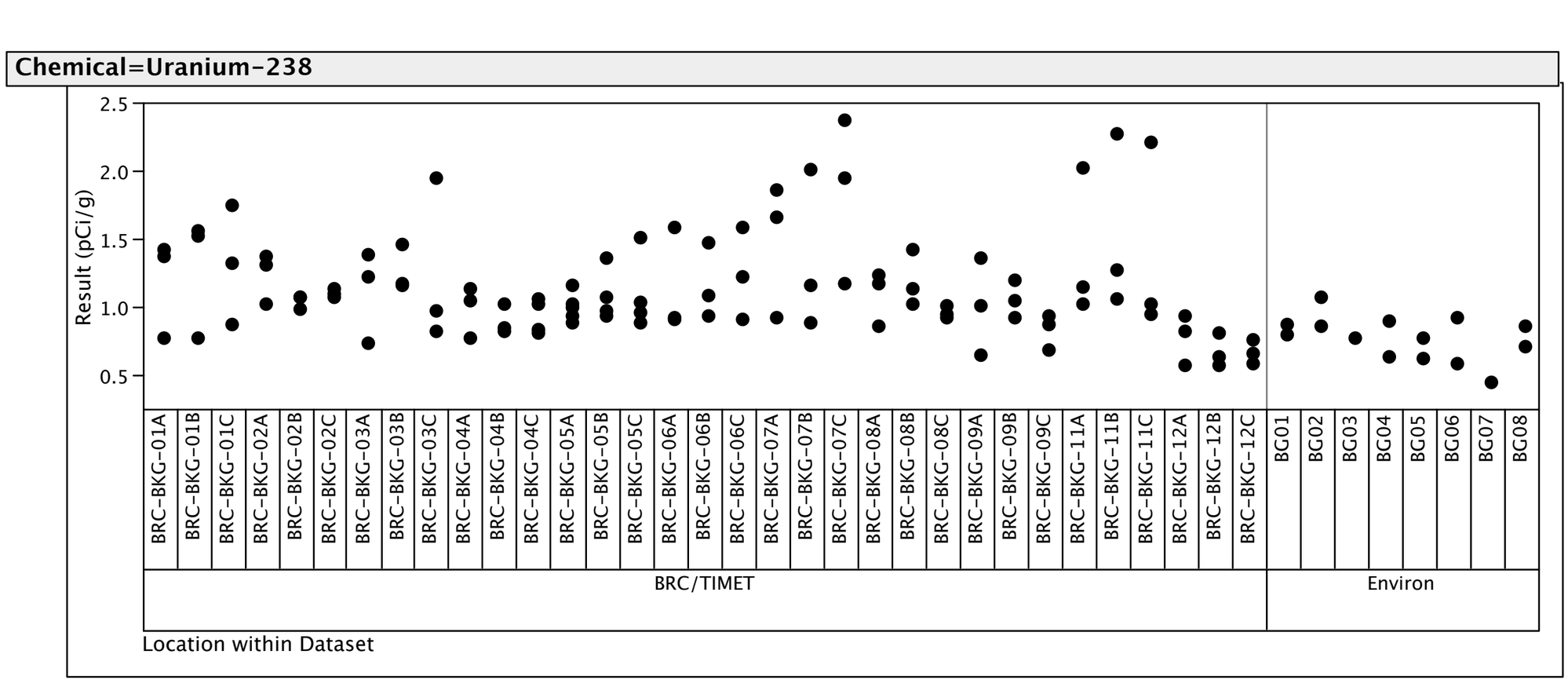
COMPARISON OF RADIONUCLIDE ACTIVITIES IN BRC/TIMET AND ENVIRON BACKGROUND SOIL











APPENDIX G

STATISTICAL SUMMARY FOR COMBINED BRC/TIMET AND ENVIRON DATA

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in All BRC/TIMET/Environ Background Soil Samples (Table G-1)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 0-Foot Background Soil Samples (Table G-2)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BTC/TIMET 5-Foot Background Soil Samples (Table G-3)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 10-Foot Background Soil Samples (Table G-4)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 5 and 10-Foot Background Soil Samples (Table G-5)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ McCullough Range Background Soil Samples (Table G-6)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ River Mountains Background Soil Samples (Table G-7)

Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ Mixed Mountain Range Background Soil Samples (Table G-8)

Statistical Comparison of Metals, Anions, and Radionuclides Data Collected From Various Depths in BRC/TIMET/Environ Background Soil Samples (Table G-9)

Statistical Comparison of Metals, Anions, and Radionuclides Data Collected From Various Origins in BRC/TIMET/Environ Background Soil Samples (Table G-10)

Distribution of Metal and Anion Concentrations in Combined BRC/TIMET/Environ Background Soil (Figure G-1)

Distribution of Radionuclide Activities in Combined BRC/TIMET/Environ Background Soil (Figure G-2)

Comparison of Metal and Anion Concentrations in Combined BRC/TIMET/Environ Background Soil by Depth (Figure G-3)

Comparison of Radionuclide Activities in Combined BRC/TIMET/Environ Background Soil by Depth (Figure G-4)

Comparison of Metal and Anion Concentrations in Combined BRC/TIMET/Environ Background Soil by Origin (Figure G-5)

Comparison of Radionuclide Activities in Combined BRC/TIMET/Environ Background Soil by Origin (Figure G-6)

Table G-1. Descriptive Summary Statistics for Metals, Anions and Radionuclides in ALL BRC/TIMET/Environ Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	120	100	--	--	--	--	--	--	3,740	6,680	8,420	8,900	11,200	15,300
	Antimony	120	41	0.0394	0.33	0.33	0.264	0.33	0.33	0.12	0.15	0.22	0.239	0.29	0.5
	Arsenic	120	100	--	--	--	--	--	--	2.1	3.3	3.9	4.13	4.98	7.2
	Barium	120	100	--	--	--	--	--	--	73	144	190	223	238	836
	Beryllium	120	100	--	--	--	--	--	--	0.16	0.44	0.54	0.557	0.69	0.89
	Boron	104	33	3.2	3.2	3.65	3.79	4.3	5.1	5.2	5.8	6.8	7.11	8.3	11.6
	Cadmium	120	13	0.129	0.129	0.129	0.129	0.129	0.129	0.052	0.0928	0.105	0.106	0.128	0.16
	Calcium	104	100	--	--	--	--	--	--	8,160	17,400	23,700	28,100	35,500	82,800
	Chloride	104	69	0.25	0.79	1.1	1.29	1.6	6.2	1.2	6.48	33.6	170	248	1110
	Chromium	120	100	--	--	--	--	--	--	2.6	7	8.8	8.94	10.8	16.7
	Chromium Hexavalent	104	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	120	100	--	--	--	--	--	--	3.7	6.33	8.25	8.23	9.78	16.3
	Copper	120	100	--	--	--	--	--	--	7.8	14.3	17.2	17.1	19.8	30.5
	Fluoride	104	13	0.051	0.051	0.051	0.325	0.55	2.1	0.16	0.335	0.5	0.711	0.865	2.5
	Iron	120	100	--	--	--	--	--	--	5,410	10,400	13,100	12,800	15,100	19,700
	Lead	120	100	--	--	--	--	--	--	3	6.33	7.75	9.45	10.8	35.1
	Lithium	104	100	--	--	--	--	--	--	7.5	10.8	12.8	13.8	16.4	26.5
	Magnesium	120	100	--	--	--	--	--	--	4,580	6,910	9,430	9,510	11,700	17,500
	Manganese	120	100	--	--	--	--	--	--	151	343	419	425	497	1,090
	Mercury	120	78	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.013	0.019	0.0217	0.025	0.11
	Molybdenum	120	100	--	--	--	--	--	--	0.17	0.38	0.475	0.547	0.628	2
	Nickel	120	100	--	--	--	--	--	--	7.8	11.4	15.4	15.1	17.8	30
	Niobium	104	0	1.02	1.02	1.3	1.42	1.68	2.8	--	--	--	--	--	--
	Nitrate	104	87	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.49	0.995	8.75	5.03	102
	Nitrite	104	5	0.061	0.061	0.061	0.061	0.061	0.061	0.075	0.113	0.15	0.149	0.185	0.21
	Palladium	104	100	--	--	--	--	--	--	0.14	0.283	0.4	0.462	0.55	1.5
	Platinum	104	5	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	0.0545	0.064	0.0708	0.0905	0.099
	Phosphorus	104	100	--	--	--	--	--	--	636	1,200	1,460	1,420	1,650	2,010
	Potassium	104	100	--	--	--	--	--	--	625	1,220	1,540	1,730	2,070	3,890
	Selenium	120	43	0.0467	0.158	0.158	0.151	0.158	0.158	0.1	0.23	0.29	0.294	0.358	0.6
	Silicon	104	100	--	--	--	--	--	--	335	562	720	981	1,080	4,150
	Silver	120	13	0.261	0.261	0.261	0.261	0.261	0.261	0.019	0.0363	0.0445	0.0495	0.0683	0.083
	Sodium	104	100	--	--	--	--	--	--	111	203	452	486	690	1,320
	Strontium	104	100	--	--	--	--	--	--	69	134	186	223	258	808
	Sulfate	104	78	0.612	1.4	2.7	2.46	3.3	4.4	2.1	12.7	49.2	230	145	4,130
	Thallium	120	35	0.2	0.438	0.543	0.565	0.638	1.1	0.1	0.16	1.1	0.917	1.43	1.8
	Thorium	16	100	--	--	--	--	--	--	4.6	5.08	5.65	5.88	6.68	7.7
	Tin	103	100	0.187	--	0.187	0.187	--	0.187	0.2	0.4	0.49	0.48	0.56	0.8
	Titanium	120	100	--	--	--	--	--	--	200	392	504	510	618	1,010
	Tungsten	104	0	0.49	0.883	1.05	1.18	1.5	2.5	--	--	--	--	--	--
	Uranium	103	100	--	--	--	--	--	--	0.43	0.82	0.94	1	1.1	2.7
	Vanadium	120	100	--	--	--	--	--	--	14.6	25.6	35.6	35.4	43.6	59.1
	Zinc	120	100	--	--	--	--	--	--	15.4	28.5	37.2	37.2	43.2	121
	Zirconium	104	100	--	--	--	--	--	--	60.1	111	125	126	145	179

Table G-1. Descriptive Summary Statistics for Metals, Anions and Radionuclides in ALL BRC/TIMET/Environ Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Actinium-228	120	100	--	--	--	--	--	--	1.11	1.52	1.78	1.8	2.04	3.4
	Bismuth-210	104	1	-0.6	0.2	0.6	0.59	0.9	2	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Bismuth 212	120	57	0.29	0.61	0.75	0.781	0.928	1.3	0.71	0.915	1.16	1.19	1.42	1.82
	Bismuth-214	120	100	--	--	--	--	--	--	0.52	0.8	0.925	0.95	1.08	1.62
	Cobalt-57	104	0	-0.045	-0.00975	0.00065	0.0000135	0.012	0.04	--	--	--	--	--	--
	Cobalt-60	104	0	-0.073	-0.0178	0.003	0.00151	0.0223	0.082	--	--	--	--	--	--
	Lead-210	120	2	-0.6	0.3	0.615	0.702	1.1	2.2	1.9	--	2.05	2.05	--	2.2
	Lead-211	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Lead-212	120	100	--	--	--	--	--	--	0.94	1.28	1.47	1.5	1.72	2.11
	Lead-214	120	100	--	--	--	--	--	--	0.61	0.83	0.93	0.967	1.07	1.72
	Polonium-210	104	1	-0.6	0.2	0.6	0.59	0.9	2	2.2	--	2.2	2.2	--	2.2
	Polonium-212	104	62	0.19	0.383	0.45	0.48	0.58	0.78	0.46	0.58	0.72	0.753	0.898	1.17
	Polonium-214	104	100	--	--	--	--	--	--	0.52	0.803	0.93	0.962	1.09	1.62
	Polonium-215	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Polonium-216	104	100	--	--	--	--	--	--	1.08	1.33	1.57	1.53	1.73	2.11
	Polonium-218	104	92	0.592	0.662	0.906	0.843	0.978	0.999	0.494	0.925	1.09	1.13	1.27	2.36
	Potassium-40	120	100	--	--	--	--	--	--	17.8	22.8	24.5	25.2	27.2	35
	Protactinium-234	104	0	-0.34	-0.14	-0.08	-0.0784	-0.0125	0.13	--	--	--	--	--	--
	Radium-223	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Radium-224	104	100	--	--	--	--	--	--	1.08	1.33	1.57	1.53	1.73	2.11
	Radium 226	104	92	0.592	0.662	0.906	0.843	0.978	0.999	0.494	0.925	1.09	1.13	1.27	2.36
	Radium 228	84	81	0.946	1.38	1.57	1.58	1.85	2	1.15	1.73	2.04	1.99	2.21	2.94
	Thallium-207	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Thallium-208	120	100	--	--	--	--	--	--	0.33	0.48	0.54	0.541	0.608	0.72
	Thorium-227	104	0	-0.57	-0.2	-0.035	-0.0442	0.128	0.4	--	--	--	--	--	--
	Thorium-228	120	100	--	--	--	--	--	--	1.07	1.47	1.71	1.69	1.91	2.28
	Thorium-230	120	100	--	--	--	--	--	--	0.66	0.98	1.19	1.25	1.41	3.01
	Thorium-231	104	11	0	0.0405	0.058	0.0613	0.085	0.17	0.047	0.054	0.092	0.101	0.126	0.21
	Thorium-232	120	100	--	--	--	--	--	--	1.05	1.4	1.57	1.61	1.81	2.23
	Thorium-234	120	54	-0.53	0.32	0.71	0.609	0.92	1.39	1.11	1.39	1.6	1.64	1.84	2.5
	Uranium 233/234	120	51	0.47	0.79	0.9	0.903	1.02	1.17	0.53	0.905	1.21	1.31	1.66	2.84
	Uranium 235	120	45	0	0.0295	0.0475	0.0462	0.0605	0.11	0.037	0.0588	0.088	0.0901	0.109	0.21
	Uranium-238	120	100	--	--	--	--	--	--	0.45	0.86	1.02	1.08	1.22	2.37

Notes:

bgs	Below Ground Surface
mg/kg	Milligram per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	Picocurie per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

Table G-2. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 0 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	45	100	--	--	--	--	--	--	5,530	7,230	9,950	9,730	11,800	13,900
	Antimony	45	58	0.0394	0.0394	0.33	0.208	0.33	0.33	0.12	0.2	0.245	0.278	0.365	0.5
	Arsenic	45	100	--	--	--	--	--	--	2.1	3	3.7	4.13	5.3	7.2
	Barium	45	100	--	--	--	--	--	--	90.4	148	190	219	228	604
	Beryllium	45	100	--	--	--	--	--	--	0.16	0.41	0.61	0.585	0.765	0.89
	Boron	37	43	3.2	3.2	3.2	3.6	3.9	4.9	5.2	5.73	6.1	6.96	8.1	11.6
	Cadmium	45	18	0.129	0.129	0.129	0.129	0.129	0.129	0.092	0.102	0.11	0.119	0.138	0.16
	Calcium	37	100	--	--	--	--	--	--	10,900	16,000	19,500	21,600	26,200	43,200
	Chloride	37	35	0.25	0.775	0.985	1.06	1.48	1.8	1.2	1.65	4.1	42.8	28.2	252
	Chromium	45	100	--	--	--	--	--	--	3.6	7.9	10.8	10.4	13	16.7
	Chromium Hexavalent	37	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	45	100	--	--	--	--	--	--	4.1	7.15	8.8	8.46	9.55	14.6
	Copper	45	100	--	--	--	--	--	--	8.1	16	18.5	17.8	19.8	25.9
	Fluoride	37	5	0.051	0.051	0.051	0.114	0.051	0.61	0.37	--	0.735	0.735	--	1.1
	Iron	45	100	--	--	--	--	--	--	8,960	12,000	14,400	14,000	16,500	19,700
	Lead	45	100	--	--	--	--	--	--	6	9.05	10.9	13	16.1	35.1
	Lithium	37	100	--	--	--	--	--	--	7.5	9.85	12.4	13.7	17.8	23.9
	Magnesium	45	100	--	--	--	--	--	--	4,880	8,420	9,750	10,100	12,200	17,500
	Manganese	45	100	--	--	--	--	--	--	263	406	455	472	509	1,090
	Mercury	45	89	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0091	0.016	0.021	0.0236	0.0285	0.082
	Molybdenum	45	100	--	--	--	--	--	--	0.27	0.36	0.45	0.524	0.71	1.1
	Nickel	45	100	--	--	--	--	--	--	8.4	13.8	16.6	16.5	18.5	30
	Niobium	37	0	1.02	1.06	1.3	1.52	1.8	2.8	--	--	--	--	--	--
	Nitrate	37	62	0.1	0.1	0.1	0.1	0.1	0.1	0.14	0.26	0.45	3.73	1.5	53.4
	Nitrite	37	14	0.061	0.061	0.061	0.061	0.061	0.061	0.075	0.113	0.15	0.149	0.185	0.21
	Palladium	37	100	--	--	--	--	--	--	0.19	0.245	0.29	0.355	0.375	1.5
	Platinum	37	3	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.082	--	0.082	0.082	--	0.082
	Phosphorus	37	100	--	--	--	--	--	--	636	1,300	1,520	1,470	1,630	1,990
	Potassium	37	100	--	--	--	--	--	--	1,240	1,600	1,840	2,240	2,870	3,890
	Selenium	45	62	0.0467	0.158	0.158	0.145	0.158	0.158	0.11	0.23	0.3	0.306	0.355	0.6
	Silicon	37	100	--	--	--	--	--	--	335	597	844	1,390	1,900	4,150
	Silver	45	18	0.261	0.261	0.261	0.261	0.261	0.261	0.036	0.0363	0.05	0.0526	0.0683	0.083
	Sodium	37	100	--	--	--	--	--	--	111	146	166	248	323	693
	Strontium	37	100	--	--	--	--	--	--	86.8	119	143	168	170	808
	Sulfate	37	46	0.612	1.25	2.45	2.35	3.25	4.4	2.1	3.95	15.9	124	120	857
	Thallium	45	44	0.2	0.52	0.59	0.61	0.745	1	0.13	0.165	1.1	0.876	1.4	1.7
	Thorium	8	100	--	--	--	--	--	--	5	5.08	6.1	5.95	6.68	7
	Tin	37	100	--	--	--	--	--	--	0.28	0.505	0.55	0.551	0.62	0.8
	Titanium	45	100	--	--	--	--	--	--	244	442	535	535	633	936
	Tungsten	37	0	0.49	0.875	1	1.13	1.4	2.5	--	--	--	--	--	--
	Uranium	37	100	--	--	--	--	--	--	0.43	0.795	0.89	0.913	1	1.8
	Vanadium	45	100	--	--	--	--	--	--	15.7	25.4	35	35.2	42.8	57.3
	Zinc	45	100	--	--	--	--	--	--	24.8	35.5	42.2	44	49.5	121
	Zirconium	37	100	--	--	--	--	--	--	60.1	115	123	125	141	176

Table G-2. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 0 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Actinium-228	45	100	--	--	--	--	--	--	1.17	1.48	1.79	1.79	2.05	2.53
	Bismuth-210	37	0	-0.3	0.4	0.63	0.766	1.1	2	--	--	--	--	--	--
	Bismuth-211	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Bismuth 212	45	56	0.29	0.61	0.82	0.803	0.968	1.24	0.71	0.855	1.07	1.14	1.4	1.82
	Bismuth-214	45	100	--	--	--	--	--	--	0.6	0.77	0.9	0.892	0.955	1.26
	Cobalt-57	37	0	-0.031	-0.009	0.007	0.00249	0.0135	0.03	--	--	--	--	--	--
	Cobalt-60	37	0	-0.073	-0.025	-0.004	-0.00768	0.0115	0.044	--	--	--	--	--	--
	Lead-210	45	0	-0.3	0.45	0.8	0.896	1.5	2.2	--	--	--	--	--	--
	Lead-211	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Lead-212	45	100	--	--	--	--	--	--	0.94	1.3	1.47	1.5	1.74	1.98
	Lead-214	45	100	--	--	--	--	--	--	0.68	0.825	0.88	0.909	0.975	1.19
	Polonium-210	37	0	-0.3	0.4	0.63	0.766	1.1	2	--	--	--	--	--	--
	Polonium-212	37	59	0.19	0.38	0.45	0.489	0.6	0.73	0.46	0.538	0.65	0.709	0.878	1.16
	Polonium-214	37	100	--	--	--	--	--	--	0.6	0.795	0.9	0.906	0.955	1.26
	Polonium-215	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Polonium-216	37	100	--	--	--	--	--	--	1.08	1.35	1.61	1.55	1.76	1.98
	Polonium-218	37	89	0.63	0.691	0.925	0.87	0.994	0.999	0.494	0.878	1.02	1.02	1.17	1.58
	Potassium-40	45	100	--	--	--	--	--	--	20.3	23.4	24.5	25.3	27.6	34.4
	Protactinium-234	37	0	-0.34	-0.155	-0.11	-0.0942	-0.025	0.12	--	--	--	--	--	--
	Radium-223	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Radium-224	37	100	--	--	--	--	--	--	1.08	1.35	1.61	1.55	1.76	1.98
	Radium 226	37	89	0.63	0.691	0.925	0.87	0.994	0.999	0.494	0.878	1.02	1.02	1.17	1.58
	Radium 228	30	77	1.11	1.34	1.78	1.61	1.86	1.93	1.28	1.85	2.03	2.03	2.34	2.94
	Thallium-207	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Thallium-208	45	100	--	--	--	--	--	--	0.41	0.49	0.53	0.554	0.615	0.72
	Thorium-227	37	0	-0.49	-0.205	0.03	-0.0109	0.14	0.38	--	--	--	--	--	--
	Thorium-228	45	100	--	--	--	--	--	--	1.15	1.52	1.76	1.74	1.93	2.28
	Thorium-230	45	100	--	--	--	--	--	--	0.72	0.925	1.15	1.11	1.25	1.7
	Thorium-231	37	8	0	0.0375	0.059	0.0603	0.077	0.13	0.054	0.054	0.09	0.0803	0.097	0.097
	Thorium-232	45	100	--	--	--	--	--	--	1.13	1.49	1.71	1.68	1.83	2.23
	Thorium-234	45	49	-0.26	0.51	0.71	0.625	0.83	1.21	1.12	1.41	1.7	1.64	1.85	2.07
	Uranium 233/234	45	38	0.47	0.783	0.85	0.868	0.995	1.16	0.53	0.71	0.93	0.911	1.12	1.23
	Uranium 235	45	44	0	0.03	0.048	0.046	0.065	0.11	0.042	0.0553	0.083	0.0825	0.102	0.13
	Uranium-238	45	100	--	--	--	--	--	--	0.45	0.79	0.91	0.905	1.04	1.38

Notes:

bgs	Below Ground Surface
mg/kg	Milligram per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	Picocurie per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-3. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	42	100	--	--	--	--	--	--	4,840	6,530	7,770	8,550	10,900	15,300
	Antimony	42	26	0.0394	0.0394	0.33	0.255	0.33	0.33	0.13	0.14	0.17	0.194	0.23	0.35
	Arsenic	42	100	--	--	--	--	--	--	2.3	3.25	3.7	3.86	4.43	6.1
	Barium	42	100	--	--	--	--	--	--	73	143	215	230	273	561
	Beryllium	42	100	--	--	--	--	--	--	0.25	0.44	0.5	0.528	0.625	0.77
	Boron	34	29	3.2	3.2	3.5	3.72	4.1	4.8	5.4	5.88	6.8	7.08	8.5	9.1
	Cadmium	42	19	0.129	0.129	0.129	0.129	0.129	0.129	0.052	0.0678	0.096	0.0931	0.115	0.14
	Calcium	34	100	--	--	--	--	--	--	8,160	15,800	22,600	29,300	37,600	82,800
	Chloride	34	82	0.25	0.708	1.65	1.34	1.8	1.8	1.3	3.3	41.9	220	319	1,060
	Chromium	42	100	--	--	--	--	--	--	3.1	6.35	7.7	7.94	9.73	12.1
	Chromium Hexavalent	34	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	42	100	--	--	--	--	--	--	3.9	6	7.3	7.78	9.7	14.8
	Copper	42	100	--	--	--	--	--	--	7.8	12.9	15.4	16.1	19.9	30.5
	Fluoride	34	15	0.051	0.051	0.051	0.45	0.765	2.1	0.31	0.335	0.67	0.614	0.865	0.94
	Iron	42	100	--	--	--	--	--	--	6,350	9,420	12,100	12,200	14,500	18,800
	Lead	42	100	--	--	--	--	--	--	4.9	6.48	7.1	8.13	9.23	23.3
	Lithium	34	100	--	--	--	--	--	--	8.5	10.5	11.7	12.6	14.6	21.3
	Magnesium	42	100	--	--	--	--	--	--	4,580	5,620	8,080	8,330	11,000	13,600
	Manganese	42	100	--	--	--	--	--	--	183	304	375	405	496	863
	Mercury	42	69	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.013	0.018	0.0183	0.0225	0.034
	Molybdenum	42	100	--	--	--	--	--	--	0.17	0.345	0.445	0.523	0.58	2
	Nickel	42	100	--	--	--	--	--	--	7.8	10.7	13.1	13.9	16.6	22.7
	Niobium	34	0	1.02	1.02	1.35	1.48	1.8	2.8	--	--	--	--	--	--
	Nitrate	34	100	--	--	--	--	--	--	0.13	0.645	1.3	14.8	13.7	102
	Nitrite	34	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	34	100	--	--	--	--	--	--	0.14	0.315	0.435	0.433	0.528	0.84
	Platinum	34	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	--	0.072	0.072	--	0.099
	Phosphorus	34	100	--	--	--	--	--	--	842	1,160	1,470	1,410	1,720	2,010
	Potassium	34	100	--	--	--	--	--	--	872	1,110	1,370	1,610	2,090	3,260
	Selenium	42	40	0.0467	0.158	0.158	0.149	0.158	0.158	0.1	0.185	0.28	0.266	0.355	0.4
	Silicon	34	100	--	--	--	--	--	--	399	536	721	743	859	1,360
	Silver	42	19	0.261	0.261	0.261	0.261	0.261	0.261	0.019	0.0278	0.044	0.0464	0.069	0.077
	Sodium	34	100	--	--	--	--	--	--	179	389	503	574	734	1,320
	Strontium	34	100	--	--	--	--	--	--	69	152	210	206	254	441
	Sulfate	34	91	2.2	2.2	3.1	3.23	4.4	4.4	4.3	9	84.4	228	182	3,240
	Thallium	42	36	0.25	0.48	0.543	0.575	0.61	1.1	0.1	0.15	0.4	0.781	1.4	1.8
	Thorium	8	100	--	--	--	--	--	--	4.6	5	5.45	5.81	6.93	7.7
	Tin	34	100	--	--	--	--	--	--	0.2	0.4	0.445	0.455	0.53	0.75
	Titanium	42	100	--	--	--	--	--	--	213	358	477	497	613	1,010
	Tungsten	34	0	0.64	0.87	1.05	1.21	1.58	2.2	--	--	--	--	--	--
	Uranium	33	100	--	--	--	--	--	--	0.67	0.805	1	0.963	1.1	1.3
	Vanadium	42	100	--	--	--	--	--	--	14.6	25.2	33.5	33.7	42.6	59.1
	Zinc	42	100	--	--	--	--	--	--	17.6	25.9	33.6	34.1	41.9	52.4
	Zirconium	34	100	--	--	--	--	--	--	78.9	115	133	132	148	179

Table G-3. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 5 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Actinium-228	42	100	--	--	--	--	--	--	1.11	1.63	1.82	1.85	2.06	2.66
	Bismuth-210	34	0	-0.5	-0.11	0.25	0.353	0.6	1.7	--	--	--	--	--	--
	Bismuth-211	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Bismuth 212	42	55	0.31	0.63	0.82	0.804	0.95	1.3	0.72	0.93	1.16	1.19	1.4	1.82
	Bismuth-214	42	100	--	--	--	--	--	--	0.57	0.795	0.945	0.948	1.08	1.48
	Cobalt-57	34	0	-0.045	-0.0158	-0.004	-0.00611	0.006	0.022	--	--	--	--	--	--
	Cobalt-60	34	0	-0.055	-0.0185	-0.0035	0.00174	0.023	0.071	--	--	--	--	--	--
	Lead-210	42	2	-0.5	0	0.36	0.538	0.92	2.2	1.9	--	1.9	1.9	--	1.9
	Lead-211	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Lead-212	42	100	--	--	--	--	--	--	1	1.25	1.44	1.46	1.67	1.93
	Lead-214	42	100	--	--	--	--	--	--	0.62	0.8	0.885	0.933	1.04	1.72
	Polonium-210	34	0	-0.5	-0.11	0.25	0.353	0.6	1.7	--	--	--	--	--	--
	Polonium-212	34	65	0.34	0.363	0.515	0.493	0.558	0.78	0.46	0.588	0.73	0.749	0.883	1.17
	Polonium-214	34	100	--	--	--	--	--	--	0.64	0.8	0.945	0.956	1.08	1.48
	Polonium-215	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Polonium-216	34	100	--	--	--	--	--	--	1.08	1.28	1.54	1.51	1.72	1.93
	Polonium-218	34	94	0.592	--	0.674	0.674	--	0.756	0.577	0.955	1.09	1.09	1.22	1.82
	Potassium-40	42	100	--	--	--	--	--	--	17.8	22.9	25.2	25.6	28.1	35
	Protactinium-234	34	0	-0.31	-0.153	-0.085	-0.0835	-0.00275	0.06	--	--	--	--	--	--
	Radium-223	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Radium-224	34	100	--	--	--	--	--	--	1.08	1.28	1.54	1.51	1.72	1.93
	Radium 226	34	94	0.592	--	0.674	0.674	--	0.756	0.577	0.955	1.09	1.09	1.22	1.82
	Radium 228	29	83	1.35	1.41	1.5	1.58	1.8	2	1.15	1.62	2.04	1.94	2.28	2.42
	Thallium-207	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Thallium-208	42	100	--	--	--	--	--	--	0.33	0.475	0.57	0.537	0.6	0.66
	Thorium-227	34	0	-0.57	-0.21	-0.04	-0.048	0.13	0.4	--	--	--	--	--	--
	Thorium-228	42	100	--	--	--	--	--	--	1.07	1.52	1.76	1.72	1.96	2.15
	Thorium-230	42	100	--	--	--	--	--	--	0.75	1.05	1.16	1.21	1.37	2.44
	Thorium-231	34	9	0.0009	0.034	0.053	0.058	0.084	0.13	0.047	0.047	0.052	0.0513	0.055	0.055
	Thorium-232	42	100	--	--	--	--	--	--	1.1	1.4	1.56	1.6	1.79	2.06
	Thorium-234	42	43	-0.53	0.32	0.73	0.57	0.943	1.23	1.24	1.39	1.61	1.67	1.87	2.3
	Uranium 233/234	42	55	0.75	0.77	0.92	0.934	1.05	1.16	0.53	0.81	1.15	1.17	1.27	2.44
	Uranium 235	42	43	0.0009	0.024	0.044	0.0427	0.0578	0.09	0.043	0.055	0.0785	0.08	0.0988	0.13
	Uranium-238	42	100	--	--	--	--	--	--	0.45	0.858	1.02	1.04	1.17	1.95

Notes:

mg/kg	Milligrams per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	PicoCuries per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-4. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	33	100	--	--	--	--	--	--	3,740	6,340	7,880	8,210	10,300	13,300
	Antimony	33	36	0.33	0.33	0.33	0.33	0.33	0.33	0.12	0.133	0.155	0.198	0.25	0.41
	Arsenic	33	100	--	--	--	--	--	--	3.1	3.7	4.2	4.47	5.35	6.7
	Barium	33	100	--	--	--	--	--	--	82.5	138	171	218	203	836
	Beryllium	33	100	--	--	--	--	--	--	0.29	0.45	0.53	0.555	0.635	0.89
	Boron	33	24	3.2	3.45	4	4.02	4.4	5.1	5.5	5.9	7.4	7.45	8.58	10.2
	Cadmium	33	0	0.129	0.129	0.129	0.129	0.129	0.129	--	--	--	--	--	--
	Calcium	33	100	--	--	--	--	--	--	17,900	22,200	32,000	34,300	45,000	70,200
	Chloride	33	94	1.6	--	3.9	3.9	--	6.2	4.1	22.9	37.7	179	263	1,110
	Chromium	33	100	--	--	--	--	--	--	2.6	6.8	8.2	8.15	9.5	14.1
	Chromium Hexavalent	33	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	33	100	--	--	--	--	--	--	3.7	5.95	8.9	8.46	10.2	16.3
	Copper	33	100	--	--	--	--	--	--	10.2	14.6	17	17.2	19.9	23.9
	Fluoride	33	18	0.051	0.051	0.23	0.463	0.79	1.6	0.16	0.273	0.48	0.783	1.2	2.5
	Iron	33	100	--	--	--	--	--	--	5,410	9,180	12,300	11,900	14,500	19,100
	Lead	33	100	--	--	--	--	--	--	3	5.45	6	6.28	7	11.7
	Lithium	33	100	--	--	--	--	--	--	9.9	11.8	13.4	15.3	17.4	26.5
	Magnesium	33	100	--	--	--	--	--	--	5,240	6,510	10,900	10,200	12,700	16,900
	Manganese	33	100	--	--	--	--	--	--	151	309	398	386	467	641
	Mercury	33	73	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0092	0.011	0.014	0.0225	0.0188	0.11
	Molybdenum	33	100	--	--	--	--	--	--	0.33	0.44	0.54	0.608	0.645	1.9
	Nickel	33	100	--	--	--	--	--	--	7.9	11.4	14.7	14.8	18	22.1
	Niobium	33	0	1.02	1.02	1.1	1.25	1.45	2	--	--	--	--	--	--
	Nitrate	33	100	--	--	--	--	--	--	0.11	0.655	1.5	5.99	4.9	42.1
	Nitrite	33	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	33	100	--	--	--	--	--	--	0.25	0.395	0.55	0.61	0.84	1.2
	Platinum	33	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.064	--	0.064	0.064	--	0.064
	Phosphorus	33	100	--	--	--	--	--	--	722	1,070	1,370	1,350	1,640	1,960
	Potassium	33	100	--	--	--	--	--	--	625	942	1,250	1,290	1,400	2,270
	Selenium	33	21	0.158	0.158	0.158	0.158	0.158	0.158	0.26	0.27	0.29	0.313	0.39	0.4
	Silicon	33	100	--	--	--	--	--	--	423	562	680	764	893	1,380
	Silver	33	0	0.261	0.261	0.261	0.261	0.261	0.261	--	--	--	--	--	--
	Sodium	33	100	--	--	--	--	--	--	196	512	662	661	809	1,190
	Strontium	33	100	--	--	--	--	--	--	114	188	258	302	407	684
	Sulfate	33	100	--	--	--	--	--	--	8.6	20.3	49.8	286	132	4,130
	Thallium	33	21	0.21	0.38	0.5428	0.5124	0.5521	0.95	1.1	1.2	1.2	1.33	1.5	1.6
	Tin	33	97	0.187	--	0.187	0.187	--	0.187	0.21	0.363	0.405	0.423	0.51	0.63
	Titanium	33	100	--	--	--	--	--	--	200	394	490	493	607	858
	Tungsten	33	0	0.51	0.88	1.1	1.2	1.5	2.1	--	--	--	--	--	--
	Uranium	33	100	--	--	--	--	--	--	0.68	0.865	0.95	1.14	1.3	2.7
	Vanadium	33	100	--	--	--	--	--	--	19.2	29.7	38.8	37.9	45.9	57.5
	Zinc	33	100	--	--	--	--	--	--	15.4	23.4	34.1	31.9	39.8	51.7
	Zirconium	33	100	--	--	--	--	--	--	68.4	102	123	122	147	177

Table G-4. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Actinium-228	33	100	--	--	--	--	--	--	1.18	1.44	1.71	1.77	2	3.4
	Bismuth-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Bismuth 212	33	61	0.52	0.59	0.65	0.715	0.75	1.22	0.83	1.07	1.3	1.26	1.45	1.69
	Bismuth-214	33	100	--	--	--	--	--	--	0.52	0.825	1.02	1.03	1.19	1.62
	Cobalt-57	33	0	-0.032	-0.005	0.002	0.00354	0.0135	0.04	--	--	--	--	--	--
	Cobalt-60	33	0	-0.042	-0.013	0.011	0.0116	0.03	0.082	--	--	--	--	--	--
	Lead-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Lead-211	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Lead-212	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Lead-214	33	100	--	--	--	--	--	--	0.61	0.87	1.01	1.09	1.24	1.68
	Polonium-210	33	3	-0.6	0.3	0.7	0.638	0.908	1.7	2.2	--	2.2	2.2	--	2.2
	Polonium-212	33	61	0.33	0.38	0.42	0.458	0.48	0.78	0.53	0.685	0.835	0.806	0.925	1.08
	Polonium-214	33	100	--	--	--	--	--	--	0.52	0.825	1.02	1.03	1.19	1.62
	Polonium-215	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Polonium-216	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Polonium-218	33	94	0.939	--	0.959	0.959	--	0.978	0.507	0.938	1.23	1.3	1.65	2.36
	Potassium-40	33	100	--	--	--	--	--	--	18.4	22.2	24.5	24.5	26.3	31.1
	Protactinium-234	33	0	-0.25	-0.105	-0.04	-0.0555	-0.01	0.13	--	--	--	--	--	--
	Radium-223	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Radium-224	33	100	--	--	--	--	--	--	1.08	1.31	1.58	1.54	1.73	2.11
	Radium 226	33	94	0.939	--	0.959	0.959	--	0.978	0.507	0.938	1.23	1.3	1.65	2.36
	Radium 228	25	84	0.946	1.1	1.62	1.52	1.85	1.91	1.34	1.75	2.04	2.02	2.18	2.92
	Thallium-207	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Thallium-208	33	100	--	--	--	--	--	--	0.37	0.425	0.53	0.526	0.605	0.72
	Thorium-227	33	0	-0.41	-0.22	-0.09	-0.0777	0.025	0.37	--	--	--	--	--	--
	Thorium-228	33	100	--	--	--	--	--	--	1.16	1.38	1.5	1.57	1.83	2.13
	Thorium-230	33	100	--	--	--	--	--	--	0.66	1.01	1.5	1.47	1.68	3.01
	Thorium-231	33	15	0	0.0438	0.06	0.0662	0.087	0.17	0.092	0.0995	0.126	0.143	0.195	0.21
	Thorium-232	33	100	--	--	--	--	--	--	1.05	1.34	1.5	1.55	1.78	2.1
	Thorium-234	33	76	0.24	0.31	0.605	0.68	1	1.39	1.11	1.36	1.55	1.61	1.8	2.5
	Uranium 233/234	33	64	0.58	0.853	0.955	0.937	1.06	1.17	1.13	1.28	1.84	1.79	2.01	2.84
	Uranium 235	33	48	0	0.036	0.053	0.0514	0.068	0.102	0.037	0.087	0.1	0.111	0.138	0.21
	Uranium-238	33	100	--	--	--	--	--	--	0.58	1.03	1.36	1.39	1.67	2.37

Notes:

mg/kg	Milligrams per kilogram
Max	Maximum concentration
Min	Minimum concentration
pCi/g	PicoCuries per gram
Q1	1st quartile (25th percentile)
Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-5. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 5 and 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	75	100	--	--	--	--	--	--	3,740	6,470	7,880	8,400	10,800	15,300
	Antimony	75	31	0	0.33	0.33	0.285	0.33	0.33	0.12	0.14	0.16	0.196	0.25	0.41
	Arsenic	75	100	--	--	--	--	--	--	2.3	3.4	3.9	4.13	4.8	6.7
	Barium	75	100	--	--	--	--	--	--	73	142	188	225	245	836
	Beryllium	75	100	--	--	--	--	--	--	0.25	0.44	0.5	0.54	0.63	0.89
	Boron	67	27	3.2	3.2	3.8	3.88	4.4	5.1	5.4	5.88	6.95	7.24	8.53	10.2
	Cadmium	75	11	0.129	0.129	0.129	0.129	0.129	0.129	0.052	0.0678	0.096	0.0931	0.115	0.14
	Calcium	67	100	--	--	--	--	--	--	8,160	18,800	28,800	31,800	42,500	82,800
	Chloride	67	88	0.25	1.05	1.65	1.98	1.8	6.2	1.3	17.7	37.7	199	278	1,110
	Chromium	75	100	--	--	--	--	--	--	2.6	6.4	8.1	8.03	9.6	14.1
	Chromium Hexavalent	67	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	75	100	--	--	--	--	--	--	3.7	6	7.9	8.08	10	16.3
	Copper	75	100	--	--	--	--	--	--	7.8	13.6	16.1	16.6	19.8	30.5
	Fluoride	67	16	0.051	0.051	0.141	0.456	0.768	2.1	0.16	0.31	0.5	0.706	0.79	2.5
	Iron	75	100	--	--	--	--	--	--	5,410	9,370	12,300	12,100	14,500	19,100
	Lead	75	100	--	--	--	--	--	--	3	5.9	6.7	7.32	7.8	23.3
	Lithium	67	100	--	--	--	--	--	--	8.5	11.2	12.8	13.9	15.8	26.5
	Magnesium	75	100	--	--	--	--	--	--	4,580	5,990	9,360	9,150	11,600	16,900
	Manganese	75	100	--	--	--	--	--	--	151	304	383	397	488	863
	Mercury	75	71	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.012	0.015	0.0202	0.0215	0.11
	Molybdenum	75	100	--	--	--	--	--	--	0.17	0.38	0.49	0.56	0.61	2
	Nickel	75	100	--	--	--	--	--	--	7.8	11.2	13.8	14.3	17.5	22.7
	Niobium	67	0	1.02	1.02	1.3	1.37	1.6	2.8	--	--	--	--	--	--
	Nitrate	67	100	--	--	--	--	--	--	0.11	0.65	1.5	10.5	6.6	102
	Nitrite	67	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	67	100	--	--	--	--	--	--	0.14	0.34	0.49	0.52	0.7	1.2
	Platinum	67	6	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	0.0498	0.064	0.068	0.0903	0.099
	Phosphorus	67	100	--	--	--	--	--	--	3,740	6,370	7,650	8,230	10,300	15,300
	Potassium	67	100	--	--	--	--	--	--	625	1,080	1,310	1,450	1,780	3,260
	Selenium	75	32	0.0467	0.158	0.158	0.154	0.158	0.158	0.1	0.238	0.285	0.28	0.358	0.4
	Silicon	67	100	--	--	--	--	--	--	399	543	690	753	883	1,380
	Silver	75	11	0.261	0.261	0.261	0.261	0.261	0.261	0.019	0.0278	0.044	0.0464	0.069	0.077
	Sodium	67	100	--	--	--	--	--	--	179	432	615	617	784	1,320
	Strontium	67	100	--	--	--	--	--	--	69	160	219	253	342	684
	Sulfate	67	96	2.2	2.2	3.1	3.23	4.4	4.4	4.3	17.8	62.5	258	157	4,130
	Thallium	75	29	0.21	0.4	0.543	0.544	0.59	1.1	0.1	0.158	1.15	0.955	1.5	1.8
	Thorium	8	100	--	--	--	--	--	--	4.6	5	5.45	5.81	6.93	7.7
	Tin	67	99	0.187	--	0.187	0.187	--	0.187	0.2	0.388	0.435	0.44	0.52	0.75
	Titanium	75	100	--	--	--	--	--	--	200	368	490	495	600	1,010
	Tungsten	67	0	0.51	0.88	1.1	1.21	1.5	2.2	--	--	--	--	--	--
	Uranium	66	100	--	--	--	--	--	--	0.67	0.84	0.995	1.05	1.2	2.7
	Vanadium	75	100	--	--	--	--	--	--	14.6	25.5	35.9	35.6	44.4	59.1
	Zinc	75	100	--	--	--	--	--	--	15.4	25.5	34.1	33.2	40.3	52.4
	Zirconium	67	100	--	--	--	--	--	--	68.4	107	126	127	148	179

Table G-5. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ 5 and 10 Foot Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Actinium-228	75	100	--	--	--	--	--	--	1.11	1.55	1.76	1.82	2.04	3.4
	Bismuth-210	67	1	-0.6	0.16	0.5	0.491	0.8	1.7	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Bismuth 212	75	57	0.31	0.605	0.75	0.768	0.895	1.3	0.72	0.99	1.22	1.22	1.42	1.82
	Bismuth-214	75	100	--	--	--	--	--	--	0.52	0.81	0.97	0.984	1.14	1.62
	Cobalt-57	67	0	-0.045	-0.01	-0.0009	-0.00136	0.011	0.04	--	--	--	--	--	--
	Cobalt-60	67	0	-0.055	-0.017	0.007	0.00658	0.026	0.082	--	--	--	--	--	--
	Lead-210	75	3	-0.6	0.2	0.6	0.582	0.905	2.2	1.9	--	2.05	2.05	--	2.2
	Lead-211	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Lead-212	75	100	--	--	--	--	--	--	1	1.26	1.45	1.49	1.71	2.11
	Lead-214	75	100	--	--	--	--	--	--	0.61	0.83	0.97	1	1.13	1.72
	Polonium-210	67	1	-0.6	0.16	0.5	0.491	0.8	1.7	2.2	--	2.2	2.2	--	2.2
	Polonium-212	67	63	0.33	0.38	0.45	0.474	0.545	0.78	0.46	0.63	0.765	0.776	0.903	1.17
	Polonium-214	67	100	--	--	--	--	--	--	0.52	0.82	0.97	0.992	1.14	1.62
	Polonium-215	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Polonium-216	67	100	--	--	--	--	--	--	1.08	1.29	1.54	1.52	1.72	2.11
	Polonium-218	67	94	0.592	0.633	0.848	0.816	0.968	0.978	0.507	0.952	1.13	1.19	1.37	2.36
	Potassium-40	75	100	--	--	--	--	--	--	17.8	22.6	24.5	25.1	27	35
	Protactinium-234	67	0	-0.31	-0.12	-0.07	-0.0697	-0.01	0.13	--	--	--	--	--	--
	Radium-223	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Radium-224	67	100	--	--	--	--	--	--	1.08	1.29	1.54	1.52	1.72	2.11
	Radium 226	67	94	0.592	0.633	0.848	0.816	0.968	0.978	0.507	0.952	1.13	1.19	1.37	2.36
	Radium 228	54	83	0.946	1.41	1.55	1.56	1.8	2	1.15	1.71	2.04	1.98	2.21	2.92
	Thallium-207	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Thallium-208	75	100	--	--	--	--	--	--	0.33	0.45	0.54	0.532	0.6	0.72
	Thorium-227	67	0	-0.57	-0.2	-0.07	-0.0627	0.11	0.4	--	--	--	--	--	--
	Thorium-228	75	100	--	--	--	--	--	--	1.07	1.41	1.66	1.66	1.9	2.15
	Thorium-230	75	100	--	--	--	--	--	--	0.66	1.04	1.21	1.33	1.56	3.01
	Thorium-231	67	12	0	0.041	0.058	0.0619	0.087	0.17	0.047	0.0528	0.0995	0.109	0.167	0.21
	Thorium-232	75	100	--	--	--	--	--	--	1.05	1.36	1.52	1.58	1.78	2.1
	Thorium-234	75	57	-0.53	0.32	0.73	0.598	0.943	1.39	1.11	1.37	1.58	1.63	1.8	2.5
	Uranium 233/234	75	59	0.58	0.83	0.94	0.935	1.05	1.17	0.53	1.09	1.26	1.46	1.89	2.84
	Uranium 235	75	45	0	0.027	0.047	0.0463	0.06	0.102	0.037	0.0603	0.088	0.0945	0.12	0.21
	Uranium-238	75	100	--	--	--	--	--	--	0.45	0.93	1.07	1.19	1.42	2.37

Notes:

mg/kg Milligrams per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g PicoCuries per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-6. Descriptive Summary Statistics for Metals, Anions. and Radionuclides in BRC/TIMET/Environ McCullough Range Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	101	100	--	--	--	--	--	--	3,740	6,810	8,470	9,130	11,500	15,300
	Antimony	101	43	0.0394	0.33	0.33	0.3	0.33	0.33	0.12	0.15	0.22	0.241	0.29	0.5
	Arsenic	101	100	--	--	--	--	--	--	2.1	3.35	3.9	4.11	4.9	7.2
	Barium	101	100	--	--	--	--	--	--	73	141	175	182	217	465
	Beryllium	101	100	--	--	--	--	--	--	0.16	0.45	0.54	0.581	0.725	0.89
	Boron	95	36	3.2	3.2	3.7	3.81	4.35	5.1	5.2	5.8	6.8	7.11	8.3	11.6
	Cadmium	101	6	0.129	0.129	0.129	0.129	0.129	0.129	0.095	0.0965	0.105	0.115	0.138	0.16
	Calcium	95	100	--	--	--	--	--	--	9,440	18,400	24,500	29,000	37,300	82,800
	Chloride	95	72	0.25	0.77	1.2	1.33	1.6	6.2	1.2	6.48	33.6	179	254	1,110
	Chromium	101	100	--	--	--	--	--	--	2.6	6.85	9	9.03	11.2	16.7
	Chromium Hexavalent	95	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	101	100	--	--	--	--	--	--	3.7	7.05	8.8	8.67	9.95	16.3
	Copper	101	100	--	--	--	--	--	--	10.1	14.7	17.6	17.5	19.9	25.9
	Fluoride	95	14	0.051	0.051	0.051	0.355	0.603	2.1	0.16	0.335	0.5	0.711	0.865	2.5
	Iron	101	100	--	--	--	--	--	--	5,410	10,700	13,500	13,200	15,600	19,700
	Lead	101	100	--	--	--	--	--	--	3	6.1	7.3	8.47	9.5	35.1
	Lithium	95	100	--	--	--	--	--	--	7.5	10.8	12.9	14	17.1	26.5
	Magnesium	101	100	--	--	--	--	--	--	4,690	8,410	10,200	10,200	12,400	17,500
	Manganese	101	100	--	--	--	--	--	--	151	333	409	416	492	863
	Mercury	101	78	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0084	0.012	0.018	0.0223	0.027	0.11
	Molybdenum	101	100	--	--	--	--	--	--	0.17	0.39	0.48	0.533	0.605	2
	Nickel	101	100	--	--	--	--	--	--	7.9	12.9	16	15.9	18.4	30
	Niobium	95	0	1.02	1.02	1.3	1.43	1.7	2.8	--	--	--	--	--	--
	Nitrate	95	87	0.1	0.1	0.1	0.1	0.1	0.1	0.13	0.51	1.3	9.45	6.2	102
	Nitrite	95	5	0.061	0.061	0.061	0.061	0.061	0.061	0.075	0.113	0.15	0.149	0.185	0.21
	Palladium	95	100	--	--	--	--	--	--	0.16	0.3	0.42	0.48	0.58	1.5
	Platinum	95	5	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	0.045	0.0545	0.064	0.0708	0.0905	0.099
	Phosporus	95	100	--	--	--	--	--	--	862	1,260	1,490	1,470	1,680	2,010
	Potassium	95	100	--	--	--	--	--	--	625	1,180	1,580	1,750	2,230	3,890
	Selenium	101	39	0.158	0.158	0.158	0.158	0.158	0.158	0.1	0.26	0.3	0.306	0.35	0.6
	Silicon	95	100	--	--	--	--	--	--	335	551	721	1,010	1,120	4,150
	Silver	101	6	0.261	0.261	0.261	0.261	0.261	0.261	0.043	0.0438	0.051	0.0582	0.0785	0.083
	Sodium	95	100	--	--	--	--	--	--	128	214	487	498	693	1,320
	Strontium	95	100	--	--	--	--	--	--	75.5	143	192	232	267	808
	Sulfate	95	79	0.612	1.25	2.2	2.37	3.25	4.4	2.1	14.8	62.3	247	160	4,130
	Thallium	101	27	0.2	0.43	0.543	0.546	0.6	1.1	0.13	1.1	1.2	1.16	1.5	1.8
	Thorium	6	100	--	--	--	--	--	--	5.3	5.3	6.3	6.25	7.08	7.3
	Tin	95	100	--	--	--	--	--	--	0.24	0.41	0.51	0.499	0.57	0.8
	Titanium	101	100	--	--	--	--	--	--	262	446	533	552	654	1,010
	Tungsten	95	0	0.49	0.89	1.1	1.2	1.5	2.5	--	--	--	--	--	--
	Uranium	94	100	--	--	--	--	--	--	0.62	0.84	0.97	1.03	1.1	2.7
	Vanadium	101	100	--	--	--	--	--	--	20.2	32.6	36.9	38.3	44.9	59.1
	Zinc	101	100	--	--	--	--	--	--	15.4	31	38.9	38.5	44.1	121
	Zirconium	95	100	--	--	--	--	--	--	86.1	116	129	131	146	179

Table G-6. Descriptive Summary Statistics for Metals, Anions. and Radionuclides in BRC/TIMET/Environ McCullough Range Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Actinium-228	101	100	--	--	--	--	--	--	1.18	1.61	1.81	1.87	2.05	3.4
	Bismuth-210	95	1	-0.5	0.2	0.6	0.616	0.903	2	2.2	--	2.2	2.2	--	2.2
	Bismuth-211	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Bismuth 212	101	61	0.29	0.61	0.75	0.792	0.96	1.3	0.72	0.91	1.14	1.19	1.41	1.82
	Bismuth-214	101	100	--	--	--	--	--	--	0.6	0.845	0.96	0.985	1.13	1.62
	Cobalt-57	95	0	-0.045	-0.01	0.001	0.000414	0.012	0.04	--	--	--	--	--	--
	Cobalt-60	95	0	-0.073	-0.018	0.003	0.000611	0.023	0.071	--	--	--	--	--	--
	Lead-210	101	1	-0.5	0.225	0.6	0.678	1.09	2.2	2.2	--	2.2	2.2	--	2.2
	Lead-211	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Lead-212	101	100	--	--	--	--	--	--	1.08	1.37	1.58	1.55	1.74	2.11
	Lead-214	101	100	--	--	--	--	--	--	0.69	0.855	0.96	1	1.1	1.72
	Polonium-210	95	1	-0.5	0.2	0.6	0.616	0.903	2	2.2	--	2.2	2.2	--	2.2
	Polonium-212	95	64	0.19	0.388	0.46	0.483	0.58	0.78	0.46	0.58	0.72	0.759	0.905	1.17
	Polonium-214	95	100	--	--	--	--	--	--	0.6	0.84	0.95	0.984	1.14	1.62
	Polonium-215	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Polonium-216	95	100	--	--	--	--	--	--	1.08	1.37	1.61	1.56	1.74	2.11
	Polonium-218	95	96	0.939	0.949	0.978	0.973	0.994	0.999	0.494	0.952	1.12	1.16	1.28	2.36
	Potassium-40	101	100	--	--	--	--	--	--	17.8	22.6	24.1	24.3	25.9	30.5
	Protactinium-234	95	0	-0.34	-0.14	-0.08	-0.0789	-0.01	0.13	--	--	--	--	--	--
	Radium-223	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Radium-224	95	100	--	--	--	--	--	--	1.08	1.37	1.61	1.56	1.74	2.11
	Radium 226	95	96	0.939	0.949	0.978	0.973	0.994	0.999	0.494	0.952	1.12	1.16	1.28	2.36
	Radium 228	81	80	0.946	1.38	1.57	1.58	1.85	2	1.15	1.72	2.02	1.97	2.2	2.92
	Thallium-207	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Thallium-208	101	100	--	--	--	--	--	--	0.37	0.48	0.57	0.554	0.61	0.72
	Thorium-227	95	0	-0.52	-0.2	-0.05	-0.0391	0.13	0.4	--	--	--	--	--	--
	Thorium-228	101	100	--	--	--	--	--	--	1.15	1.51	1.78	1.74	1.93	2.28
	Thorium-230	101	100	--	--	--	--	--	--	0.73	1.05	1.21	1.29	1.48	3.01
	Thorium-231	95	12	0	0.0403	0.059	0.0617	0.0868	0.17	0.047	0.054	0.092	0.101	0.126	0.21
	Thorium-232	101	100	--	--	--	--	--	--	1.22	1.44	1.66	1.66	1.85	2.23
	Thorium-234	101	60	-0.53	0.46	0.76	0.681	0.97	1.39	1.11	1.42	1.62	1.65	1.85	2.5
	Uranium 233/234	101	50	0.63	0.83	0.945	0.935	1.03	1.17	0.7	1.08	1.23	1.43	1.84	2.84
	Uranium 235	101	45	0	0.03	0.048	0.0476	0.0655	0.11	0.037	0.0565	0.089	0.0915	0.118	0.21
	Uranium-238	101	100	--	--	--	--	--	--	0.65	0.92	1.05	1.16	1.32	2.37

Notes:

mg/kg Milligrams per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g PicoCuries per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-7. Descriptive Summary Statistics for Metals, Anions and Radionuclides in BRC/TIMET/Environ River Mountains Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	8	100	--	--	--	--	--	--	6,820	7,110	8,950	9,000	10,600	12,000
	Antimony	8	0	0.0394	0.0394	0.0394	0.0394	0.0394	0.0394	--	--	--	--	--	--
	Arsenic	8	100	--	--	--	--	--	--	2.6	2.9	3.35	3.36	3.73	4.3
	Barium	8	100	--	--	--	--	--	--	322	344	373	392	418	561
	Beryllium	8	100	--	--	--	--	--	--	0.25	0.283	0.3	0.32	0.363	0.43
	Cadmium	8	100	--	--	--	--	--	--	0.052	0.0678	0.0955	0.0943	0.118	0.14
	Chromium	8	100	--	--	--	--	--	--	4.3	6.75	7.6	7.88	8.83	12.4
	Cobalt	8	100	--	--	--	--	--	--	3.9	3.95	4.15	4.39	4.68	5.6
	Copper	8	100	--	--	--	--	--	--	7.8	8.1	8.6	9.54	9.65	16.3
	Iron	8	100	--	--	--	--	--	--	7,520	8,000	9,320	9,410	10,500	11,800
	Lead	8	100	--	--	--	--	--	--	7	13.2	18	17.5	23.5	23.5
	Magnesium	8	100	--	--	--	--	--	--	4,630	4,740	5,250	5,700	6,820	7,810
	Manganese	8	100	--	--	--	--	--	--	223	360	410	424	541	546
	Mercury	8	100	--	--	--	--	--	--	0.013	0.0183	0.02	0.02	0.0235	0.024
	Molybdenum	8	100	--	--	--	--	--	--	0.22	0.23	0.275	0.293	0.343	0.42
	Nickel	8	100	--	--	--	--	--	--	7.8	8.48	9.65	10.2	11.3	15.4
	Selenium	8	63	0.0467	0.0467	0.0467	0.0467	0.0467	0.0467	0.1	0.105	0.11	0.126	0.155	0.18
	Silver	8	100	--	--	--	--	--	--	0.019	0.027	0.0365	0.0424	0.0638	0.076
	Thallium	8	100	--	--	--	--	--	--	0.1	0.13	0.14	0.141	0.158	0.18
	Thorium	8	100	--	--	--	--	--	--	4.6	4.93	5.25	5.66	6.3	7.7
	Titanium	8	100	--	--	--	--	--	--	235	261	298	310	326	473
	Vanadium	8	100	--	--	--	--	--	--	14.6	15.2	16.3	16.5	17.7	18.6
	Zinc	8	100	--	--	--	--	--	--	23	26.1	29.5	30.5	36	40.6
Radionuclides (pCi/g)	Actinium-228	8	100	--	--	--	--	--	--	1.11	1.24	1.37	1.45	1.77	1.9
	Bismuth 212	8	13	0.31	0.75	0.82	0.774	0.95	1.02	1.27	--	1.27	1.27	--	1.27
	Bismuth-214	8	100	--	--	--	--	--	--	0.57	0.66	0.765	0.765	0.883	0.93
	Lead-210	8	13	0.7	0.72	1.3	1.32	1.8	2.2	1.9	--	1.9	1.9	--	1.9
	Lead-212	8	100	--	--	--	--	--	--	0.94	1.01	1.1	1.13	1.25	1.36
	Lead-214	8	100	--	--	--	--	--	--	0.62	0.665	0.75	0.753	0.85	0.86
	Potassium-40	8	100	--	--	--	--	--	--	24.9	26.2	29.3	28.8	29.9	34.4
	Thallium-208	8	100	--	--	--	--	--	--	0.33	0.345	0.455	0.434	0.498	0.54
	Thorium-228	8	100	--	--	--	--	--	--	1.07	1.25	1.42	1.37	1.51	1.52
	Thorium-230	8	100	--	--	--	--	--	--	0.9	0.93	1.14	1.11	1.23	1.35
	Thorium-232	8	100	--	--	--	--	--	--	1.1	1.16	1.37	1.35	1.53	1.58
	Thorium-234	8	0	-0.002	0.0875	0.365	0.369	0.665	0.71	--	--	--	--	--	--
	Uranium 233/234	8	100	--	--	--	--	--	--	0.53	0.543	0.66	0.65	0.718	0.81
	Uranium 235	8	50	0.016	0.019	0.0385	0.036	0.0505	0.051	0.061	0.063	0.083	0.0825	0.102	0.103
	Uranium-238	8	100	--	--	--	--	--	--	0.45	0.485	0.67	0.674	0.84	0.92

Notes:

mg/kg	Milligrams per kilogram	pCi/g	PicoCuries per gram
Max	Maximum concentration	Q1	1st quartile (25th percentile)
Min	Minimum concentration	Q3	3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.
Boron, calcium, chloride, chromium hexavalent, fluoride, lithium, niobium, nitrate, nitrite, palladium, platinum, potassium, silicon, sodium, strontium, sulfate, tin, tungsten, uranium, zirconium, actinium-227, bismith-210, bismith-211, cobalt-60, lead 2-10, lead-211, polonium-210, polonium-212, polonium-214, polonium-215, polonium-216, polonium-218, proactinium-234, radium-223, radium-224, radium-226, radium-228, thallium-207, thorium-227, and thorium-231 were not analyzed for on the BRC/TIMET/Environ River Mountains background soil samples

Table G-8. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ Mixed Mountain Range Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Metals and Anions (mg/kg)	Aluminum	11	100	--	--	--	--	--	--	4,840	5,480	6,180	6,700	6,370	10,900
	Antimony	11	55	0.0394	0.0394	0.33	0.214	0.33	0.33	0.13	0.13	0.21	0.228	0.298	0.44
	Arsenic	11	100	--	--	--	--	--	--	2.9	4.4	5.3	4.87	5.7	5.9
	Barium	11	100	--	--	--	--	--	--	211	346	424	468	604	836
	Beryllium	11	100	--	--	--	--	--	--	0.38	0.43	0.52	0.504	0.56	0.62
	Boron	9	0	3.2	3.2	3.4	3.64	4.1	4.4	--	--	--	--	--	--
	Cadmium	11	18	0.129	0.129	0.129	0.129	0.129	0.129	0.11	--	0.125	0.125	--	0.14
	Calcium	9	100	--	--	--	--	--	--	8,160	10,200	16,100	18,600	28,500	36,400
	Chloride	9	44	0.86	0.895	0.96	1.09	1.35	1.7	3.1	7.33	28	24.2	37.3	37.7
	Chromium	11	100	--	--	--	--	--	--	5	7.8	8.8	8.86	10.2	11.7
	Chromium Hexavalent	9	0	0.251	0.251	0.251	0.251	0.251	0.251	--	--	--	--	--	--
	Cobalt	11	100	--	--	--	--	--	--	5.1	5.4	6.1	6.91	7.8	12.3
	Copper	11	100	--	--	--	--	--	--	11.1	14.3	18.3	18.6	23.2	30.5
	Fluoride	9	0	0.051	0.051	0.051	0.051	0.051	0.051	--	--	--	--	--	--
	Iron	11	100	--	--	--	--	--	--	9,180	10,800	11,200	11,700	13,600	14,000
	Lead	11	100	--	--	--	--	--	--	8.9	9.1	9.9	12.6	17.5	21
	Lithium	9	100	--	--	--	--	--	--	9.1	10.1	11.7	11.8	13.4	14.9
	Magnesium	11	100	--	--	--	--	--	--	4,580	5,100	5,450	6,060	6,880	9,090
	Manganese	11	100	--	--	--	--	--	--	345	414	469	507	504	1,090
	Mercury	11	55	0.0072	0.0072	0.0072	0.0072	0.0072	0.0072	0.0097	0.0129	0.016	0.0156	0.019	0.019
	Molybdenum	11	100	--	--	--	--	--	--	0.22	0.73	0.9	0.859	1.1	1.3
	Nickel	11	100	--	--	--	--	--	--	8.9	10.3	11.3	11.3	12.1	13.8
	Niobium	9	0	1.02	1.02	1.02	1.3	1.55	2.4	--	--	--	--	--	--
	Nitrate	9	78	0.1	--	0.1	0.1	--	0.1	0.11	0.13	0.51	0.45	0.61	1
	Nitrite	9	0	0.061	0.061	0.061	0.061	0.061	0.061	--	--	--	--	--	--
	Palladium	9	100	--	--	--	--	--	--	0.14	0.19	0.22	0.266	0.37	0.48
	Platinum	9	0	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435	--	--	--	--	--	--
	Phosphorus	9	100	--	--	--	--	--	--	636	727	804	798	842	984
	Potassium	9	100	--	--	--	--	--	--	1,240	1,240	1,380	1,470	1,710	1,840
	Selenium	11	73	0.0467	0.0467	0.158	0.121	0.158	0.158	0.17	0.238	0.335	0.34	0.4	0.59
	Silicon	9	100	--	--	--	--	--	--	527	622	690	708	794	883
	Silver	11	18	0.261	0.261	0.261	0.261	0.261	0.261	0.048	--	0.052	0.052	--	0.056
	Sodium	9	100	--	--	--	--	--	--	111	135	265	352	572	901
	Strontium	9	100	--	--	--	--	--	--	69	85.6	92	122	180	219
	Sulfate	9	67	2.7	2.7	3.1	3.07	3.4	3.4	6	7.43	13.2	14.5	21.4	27.6
	Thallium	11	64	0.87	0.878	0.915	0.913	0.945	0.95	0.12	0.16	1.1	0.883	1.3	1.4
	Thorium	2	100	--	--	--	--	--	--	5.4	--	5.65	5.65	--	5.9
	Tin	9	89	0.187	--	0.187	0.187	--	0.187	0.2	0.21	0.235	0.255	0.318	0.34
	Titanium	11	100	--	--	--	--	--	--	200	219	244	272	313	398
	Tungsten	9	0	0.68	0.745	0.9	0.937	1.05	1.5	--	--	--	--	--	--
	Uranium	9	100	--	--	--	--	--	--	0.43	0.57	0.71	0.678	0.79	0.84
	Vanadium	11	100	--	--	--	--	--	--	19.2	21.7	23.2	23	24.4	26
	Zinc	11	100	--	--	--	--	--	--	21.4	23.9	25.2	30.7	35.3	52.4
	Zirconium	9	100	--	--	--	--	--	--	60.1	64.8	69	75.2	89.2	92.9

Table G-8. Descriptive Summary Statistics for Metals, Anions, and Radionuclides in BRC/TIMET/Environ Mixed Mountain Range Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Censored (Nondetect) Data						Detected Data					
				Min	Q1	Median	Mean	Q3	Max	Min	Q1	Median	Mean	Q3	Max
Radionuclides (pCi/g)	Actinium-227	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Actinium-228	11	100	--	--	--	--	--	--	1.17	1.26	1.42	1.46	1.74	1.78
	Bismuth-210	9	0	-0.6	-0.205	0.4	0.321	0.65	1.5	--	--	--	--	--	--
	Bismuth-211	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Bismuth 212	11	45	0.52	0.565	0.685	0.72	0.923	0.93	0.71	0.915	1.16	1.23	1.59	1.72
	Bismuth-214	11	100	--	--	--	--	--	--	0.52	0.7	0.73	0.755	0.8	1.14
	Cobalt-57	9	0	-0.036	-0.0105	-0.004	-0.00421	0.0065	0.015	--	--	--	--	--	--
	Cobalt-60	9	0	-0.031	-0.016	0.014	0.011	0.026	0.082	--	--	--	--	--	--
	Lead-210	11	0	-0.6	-0.14	0.4	0.528	1.42	1.5	--	--	--	--	--	--
	Lead-211	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Lead-212	11	100	--	--	--	--	--	--	1.08	1.11	1.22	1.25	1.36	1.44
	Lead-214	11	100	--	--	--	--	--	--	0.61	0.66	0.79	0.805	0.84	1.23
	Polonium-210	9	0	-0.6	-0.205	0.4	0.321	0.65	1.5	--	--	--	--	--	--
	Polonium-212	9	33	0.33	0.36	0.445	0.463	0.593	0.6	0.46	0.46	0.72	0.64	0.74	0.74
	Polonium-214	9	100	--	--	--	--	--	--	0.52	0.705	0.73	0.72	0.78	0.8
	Polonium-215	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Polonium-216	9	100	--	--	--	--	--	--	1.08	1.1	1.21	1.22	1.35	1.44
	Polonium-218	9	56	0.592	0.602	0.693	0.713	0.843	0.872	0.583	0.61	0.784	0.753	0.881	0.926
	Potassium-40	11	100	--	--	--	--	--	--	28.8	30	31	31.1	31.3	35
	Protactinium-234	9	0	-0.17	-0.125	-0.06	-0.0733	-0.025	-0.01	--	--	--	--	--	--
	Radium-223	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Radium-224	9	100	--	--	--	--	--	--	1.08	1.1	1.21	1.22	1.35	1.44
	Radium 226	9	56	0.592	0.602	0.693	0.713	0.843	0.872	0.583	0.61	0.784	0.753	0.881	0.926
	Radium 228	3	100	--	--	--	--	--	--	2.14	2.14	2.42	2.5	2.94	2.94
	Thallium-207	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Thallium-208	11	100	--	--	--	--	--	--	0.39	0.46	0.5	0.495	0.53	0.59
	Thorium-227	9	0	-0.57	-0.26	0.005	-0.0983	0.04	0.14	--	--	--	--	--	--
	Thorium-228	11	100	--	--	--	--	--	--	1.17	1.28	1.44	1.46	1.62	1.9
	Thorium-230	11	100	--	--	--	--	--	--	0.66	0.78	0.84	0.905	1.02	1.37
	Thorium-231	9	0	0.021	0.038	0.053	0.0574	0.065	0.13	--	--	--	--	--	--
	Thorium-232	11	100	--	--	--	--	--	--	1.05	1.26	1.44	1.42	1.47	1.93
	Thorium-234	11	36	-0.15	-0.11	0.56	0.471	0.82	0.96	1.29	1.29	1.36	1.36	1.44	1.44
	Uranium 233/234	11	18	0.47	0.63	0.75	0.728	0.845	0.9	0.76	--	0.775	0.775	--	0.79
	Uranium 235	11	45	0.021	0.0278	0.0405	0.0397	0.053	0.053	0.054	0.059	0.076	0.083	0.111	0.13
	Uranium-238	11	100	--	--	--	--	--	--	0.57	0.59	0.66	0.719	0.82	0.94

Notes:

mg/kg Milligrams per kilogram
Max Maximum concentration
Min Minimum concentration
pCi/g PicoCuries per gram
Q1 1st quartile (25th percentile)
Q3 3rd quartile (75th percentile)

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radioligical data are treated as detected in the statistical comparisons.

Table G-9. Statistical Comparison of Metals, Anions, and Radionuclide Data Collected from Various Depths in BRC/TIMET/ENVIRON Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Shapiro-Wilk (p)	Parametric Tests (Probabilities)				Nonparametric Tests (Probabilities)				Conclusions
					Main Test (ANOVA)	Multiple Contrasts (Tukey's HSD)			Main Test (Kruskal-Wallis)	Multiple Contrasts (Behrens-Fisher)			
					All Depths	0-5 feet bgs	0-10 feet bgs	5-10f eet bgs	All Depths feet bgs	0-5 feet bgs	0-10 feet bgs	5-10 feet bgs	
Metals and Anions (mg/kg)	Aluminum	120	100	0.001	0.024	0.089	0.032	0.846	0.020	0.067	0.024	0.940	0>10
	Antimony	120	41	<0.001	0.013	0.009	0.404	0.291	0.007	0.007	0.165	0.309	0>5
	Arsenic	120	100	0.001	0.069	0.509	0.380	0.055	0.051	0.921	0.227	0.017	No significant difference among depths
	Barium	120	100	0.000	0.902	0.918	1.000	0.921	0.150	0.778	0.427	0.150	No significant difference among depths
	Beryllium	120	100	0.105	0.267	0.236	0.710	0.748	0.358	0.363	0.818	0.737	No significant difference among depths
	Boron	104	33	<0.001	0.462	0.566	0.507	0.994	0.330	0.575	0.336	0.919	No significant difference among depths
	Cadmium	120	13	<0.001	0.051	0.485	N/A	N/A	0.057	0.118	N/A	N/A	No significant difference among depths
	Calcium	104	100	<0.001	0.001	0.056	0.001	0.319	<0.001	0.443	<0.001	0.084	0<10
	Chloride	104	69	<0.001	0.003	0.006	0.013	0.968	<0.001	<0.001	<0.001	0.393	0<5, 0<10
	Chromium	120	100	0.908	<0.001	<0.001	0.001	0.935	<0.001	<0.001	0.002	0.917	0>5, 0>10
	Cobalt	120	100	0.104	0.358	0.406	1.000	0.465	0.275	0.264	0.998	0.566	No significant difference among depths
	Copper	120	100	0.505	0.168	0.146	0.791	0.515	0.120	0.152	0.562	0.457	No significant difference among depths
	Fluoride	104	13	0.000	0.008	N/A	N/A	0.816	0.001	N/A	N/A	0.935	Insufficent number of detected concentrations
	Iron	120	100	0.431	0.006	0.026	0.012	0.894	0.008	0.021	0.017	0.992	0>5, 0>10
	Lead	120	100	<0.001	<0.001	<0.001	<0.001	0.148	<0.001	<0.001	<0.001	0.001	0>5, 0>10, 5>10
	Lithium	104	100	<0.001	0.039	0.502	0.286	0.030	0.040	0.822	0.223	0.017	5<10
	Magnesium	120	100	0.049	0.007	0.017	0.984	0.019	0.010	0.017	0.983	0.024	0>5, 5<10
	Manganese	120	100	<0.001	0.010	0.049	0.014	0.818	0.008	0.023	0.027	0.996	0>5, 0>10
	Mercury	120	78	<0.001	0.066	0.052	0.472	0.568	0.002	0.006	0.008	0.914	0>5, 0>10
	Molybdenum	120	100	<0.001	0.338	1.000	0.390	0.394	0.070	0.738	0.252	0.048	No significant difference among depths
	Nickel	120	100	0.051	0.015	0.012	0.185	0.612	0.024	0.014	0.347	0.595	0>5
	Nitrate	104	87	<0.001	0.012	0.010	0.662	0.104	<0.001	<0.001	<0.001	0.992	0<5, 0<10
	Nitrite	104	5	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Palladium	104	100	<0.001	<0.001	0.294	0.000	0.004	<0.001	0.022	0.000	0.009	0<5, 0<10, 5<10
	Phosphorus	104	100	0.194	0.303	>0.05	>0.05	>0.05	0.278	N/A	N/A	N/A	No significant difference among depths
	Platinum	104	5	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Potassium	104	100	<0.001	<0.001	<0.001	<0.001	0.088	<0.001	<0.001	<0.001	0.107	0>5, 0>10
	Selenium	120	43	<0.001	0.005	0.044	0.007	0.698	0.008	0.112	0.006	0.478	0>10
	Silicon	104	100	<0.001	<0.001	0.001	0.001	0.992	0.091	0.135	0.149	0.999	No significant difference among depths
	Silver	120	13	<0.001	0.034	0.930	NA	NA	0.999	1.000	NA	NA	No significant difference among depths
	Sodium	104	100	0.003	<0.001	<0.001	<0.001	0.248	<0.001	<0.001	<0.001	0.173	0<5, 0<10
	Strontium	104	100	<0.001	<0.001	0.371	<0.001	0.005	<0.001	0.015	<0.001	0.021	0<5, 0<10, 5<10
	Sulfate	104	78	<0.001	0.210	0.483	0.195	0.829	<0.001	<0.001	<0.001	0.846	0<5, 0<10
	Thallium	120	35	<0.001	0.631	0.632	0.778	0.983	0.288	0.426	0.355	0.990	No significant difference among depths
	Tin	104	99	0.199	<0.001	0.003	<0.001	0.326	<0.001	0.001	<0.001	0.299	0>5, 0>10
	Titanium	120	100	0.030	0.466	0.549	0.538	0.996	0.357	0.401	0.557	0.991	No significant difference among depths
	Uranium	103	100	<0.001	0.007	0.769	0.007	0.053	0.042	0.459	0.037	0.273	0<10
	Vanadium	120	100	0.156	0.224	0.790	0.489	0.198	0.244	0.825	0.465	0.257	No significant difference among depths
	Zinc	120	100	<0.001	<0.001	<0.001	<0.001	0.692	<0.001	<0.001	<0.001	0.564	0>5, 0>10
	Zirconium	104	100	0.254	0.296	0.544	0.862	0.279	0.283	0.608	0.792	0.269	No significant difference among depths

Table G-9. Statistical Comparison of Metals, Anions, and Radionuclide Data Collected from Various Depths in BRC/TIMET/ENVIRON Background Soil Samples

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Shapiro-Wilk (p)	Parametric Tests (Probabilities)				Nonparametric Tests (Probabilities)				Conclusions
					Main Test (ANOVA)	Multiple Contrasts (Tukey's HSD)			Main Test (Kruskal-Wallis)	Multiple Contrasts (Behrens-Fisher)			
					All Depths	0-5 feet bgs	0-10 feet bgs	5-10f eet bgs	All Depths feet bgs	0-5 feet bgs	0-10 feet bgs	5-10 feet bgs	
Radionuclides (pCi/g)	Actinium-227	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.312	0.742	No significant difference among depths
	Actinium-228	120	100	0.003	0.562	0.679	0.974	0.584	0.336	0.752	0.713	0.339	No significant difference among depths
	Bismuth-210	104	1	0.022	0.006	0.006	0.817	0.041	0.002	0.001	0.948	0.014	0>5, 5<10
	Bismuth-211	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.312	0.742	No significant difference among depths
	Bismuth-212	120	57	0.449	0.016	0.418	0.011	0.204	0.030	0.368	0.026	0.384	0<10
	Bismuth-214	120	100	0.080	0.759	0.911	0.741	0.935	0.791	0.938	0.822	0.965	No significant difference among depths
	Cobalt-57	104	0	0.345	0.029	0.069	0.961	0.042	0.049	0.088	0.999	0.059	0>5, 5<10
	Cobalt-60	104	0	0.727	0.027	0.371	0.020	0.359	0.060	0.653	0.031	0.394	0<10
	Lead-210	120	2	0.015	0.053	0.045	0.313	0.710	0.029	0.026	0.381	0.408	0>5
	Lead-211	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.312	0.742	No significant difference among depths
	Lead-212	120	100	0.040	0.451	0.742	0.828	0.422	0.530	0.661	0.953	0.601	No significant difference among depths
	Lead-214	120	100	<0.001	<0.001	0.846	0.001	0.004	0.006	0.961	0.011	0.033	0<10, 5<10
	Polonium-210	104	1	0.022	0.006	0.006	0.817	0.041	0.002	0.002	0.948	0.014	0>5, 5<10
	Polonium-212	104	62	0.054	0.607	0.732	0.617	0.981	0.635	0.765	0.666	0.981	No significant difference among depths
	Polonium-214	104	100	0.384	0.050	0.574	0.039	0.320	0.076	0.530	0.067	0.456	0<10
	Polonium-215	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.312	0.742	No significant difference among depths
	Polonium-216	104	100	0.029	0.793	0.777	0.960	0.918	0.698	0.622	0.906	0.984	No significant difference among depths
	Polonium-218	104	92	0.109	0.003	0.701	0.003	0.034	0.028	0.535	0.026	0.200	0<10, 5<10
	Potassium-40	120	100	0.021	0.285	0.912	0.463	0.272	0.450	0.959	0.657	0.439	No significant difference among depths
	Protactinium-234	104	0	0.543	0.216	0.880	0.202	0.444	0.204	0.831	0.166	0.542	No significant difference among depths
	Radium-223	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.312	0.742	No significant difference among depths
	Radium-224	104	100	0.029	0.793	0.777	0.960	0.918	0.698	0.622	0.906	0.984	No significant difference among depths
	Radium-226	104	92	0.109	0.003	0.701	0.003	0.034	0.028	0.535	0.027	0.200	0<10, 5<10
	Radium-228	84	81	0.927	0.830	0.863	0.999	0.855	0.949	0.998	0.996	0.958	No significant difference among depths
	Thallium-207	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.313	0.742	No significant difference among depths
	Thallium-208	120	100	0.221	0.387	0.657	0.370	0.860	0.456	0.909	0.439	0.795	No significant difference among depths
	Thorium-227	104	0	0.593	0.441	0.754	0.410	0.843	0.339	0.760	0.313	0.742	No significant difference among depths
	Thorium-228	120	100	0.190	0.021	0.967	0.027	0.052	0.024	0.997	0.029	0.048	0>10
	Thorium-230	120	100	<0.001	<0.001	0.424	<0.001	0.006	0.004	0.486	0.005	0.082	0<10
	Thorium-231	104	11	0.018	0.073	0.874	0.189	0.075	0.140	0.673	0.441	0.123	No significant difference among depths
	Thorium-232	120	100	0.029	0.084	0.300	0.080	0.723	0.067	0.271	0.075	0.656	No significant difference among depths
	Thorium-234	120	54	0.231	0.054	0.812	0.162	0.050	0.074	0.867	0.193	0.064	No significant difference among depths
	Uranium-233/234	120	51	0.059	0.037	0.899	0.095	0.039	0.127	0.825	0.316	0.124	5<10
	Uranium-235	120	45	0.002	<0.001	0.131	<0.001	<0.001	<0.001	0.047	<0.001	0.002	0>5, 0<10, 5<10
	Uranium-238	120	100	0.000	0.000	0.094	<0.001	<0.001	<0.001	0.043	<0.001	0.001	0<5, 0<10, 5<10

Table G-9. Statistical Comparison of Metals, Anions, and Radionuclide Data Collected from Various Depths in BRC/TIMET/ENVIRON Background Soil Samples

Notes:

Nonparametric tests were selected where censored (nondetect) measurements were present in one or more groups and where the detection

Shaded cells indicate results selected for test interpretation in the conclusions column.

A variation of the Kruskal-Wallis test with Gehan ranking was used when censored measurements were present in one or more groups.

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

ANOVA	Analysis of variance
bgs	Below ground surface
HSD	Honest Significantly Difference
mg/kg	Milligrams per kilogram
N/A	Not applicable. Indicates that statistical testing is contraindicated because of low detection frequency in at least one of the groups being compared; a minimum of four detected measurements was selected as the cutoff for conducting statistical testing, although it should be acknowledged that tests conducted in cases with low detection frequenices and/or a large disparity in sample size among groups being compared may still suffer from low power, and results should be interpreted with
p	Probability (p value) assoicated with the Shapiro-Wilk test performed on the residuals from the ANOVA;. p values less than or equal to 0.05 result in rejection of
pCi/g	Pico Curies per gram

Table G-10. Statistical Comparison of Metals, Anions. and Radionuclide Data Collected from Various Origins in BRC/TIMET/ENVIRON Background Soil of Different Geological Orig

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Shapiro-Wilk (p)	Parametric Tests (Probabilities)				Nonparametric Tests (Probabilities)				Conclusions
					Main Test (ANOVA)	Multiple Contrasts (Tukey's HSD)			Main Test (Kruskal-Wallis)	Multiple Contrasts (Behrens-Fisher)			
					All Origins	Mc-R	Mc-Mx	Mx-R	All Origins	Mc-R	Mc-Mx	Mx-R	
Metals and Anions (mg/kg)	Aluminum	120	100	0.005	0.014	0.989	0.010	0.139	0.002	0.999	0.003	0.011	Mc>Mx, Mx<R
	Antimony	120	41	<0.001	<0.001	N/A	0.835	N/A	<0.001	N/A	0.844	N/A	No significant difference among soil types
	Arsenic	120	100	0.013	0.014	0.159	0.081	0.011	0.011	0.042	0.083	0.002	Mc>R, Mx>R
	Barium	120	100	<0.001	<0.001	<0.001	<0.001	0.128	<0.001	<0.001	<0.001	0.489	Mc<R, Mc<Mx
	Beryllium	120	100	0.068	<0.001	<0.001	0.239	0.026	<0.001	<0.001	0.131	<0.001	Mc>R, Mx>R
	Boron	104	33	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Cadmium	120	13	<0.001	<0.001	<0.001	N/A	N/A	0.352	0.998	N/A	N/A	No significant difference among soil types
	Calcium	104	100	<0.001	NT	N/A	0.045	N/A	NT	N/A	0.017	N/A	Mc>Mx
	Chloride	104	69	<0.001	NT	N/A	0.149	N/A	NT	N/A	0.059	N/A	No significant difference between soil types
	Chromium	120	100	0.714	0.555	0.526	0.982	0.743	0.511	0.402	1.000	0.483	No significant difference among soil types
	Cobalt	120	100	0.037	<0.001	<0.001	0.036	0.042	<0.001	<0.001	0.069	<0.001	Mc>R, Mx>R
	Copper	120	100	0.549	<0.001	<0.001	0.622	<0.001	<0.001	<0.001	0.954	<0.001	Mc>R, Mx>R
	Fluoride	104	13	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Iron	120	100	0.189	0.003	0.004	0.289	0.263	0.001	<0.001	0.031	0.005	Mc>R
	Lead	120	100	<0.001	<0.001	<0.001	0.012	0.049	<0.001	0.001	0.001	0.172	Mc<R, Mc<Mx
	Lithium	104	100	<0.001	NT	N/A	0.142	N/A	NT	N/A	0.205	N/A	No significant difference between soil types
	Magnesium	120	100	0.288	<0.001	<0.001	<0.001	0.953	<0.001	<0.001	<0.001	0.840	Mc>R, Mc>Mx
	Manganese	120	100	<0.001	0.104	0.987	0.085	0.373	0.259	0.941	0.119	0.864	No significant difference among soil types
	Mercury	120	78	<0.001	0.231	0.948	0.224	0.353	0.040	0.034	0.096	<0.001	Mc<R, Mx<R
	Molybdenum	120	100	<0.001	<0.001	0.032	<0.001	<0.001	<0.001	<0.001	0.065	0.006	Mc>R, Mx>R
	Nickel	120	100	0.010	<0.001	<0.001	0.001	0.818	<0.001	<0.001	<0.001	0.248	Mc>R, Mc>Mx
	Nitrate	104	87	<0.001	NT	N/A	0.215	N/A	NT	N/A	0.011	N/A	Mc>Mx
	Nitrite	104	5	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Palladium	104	100	<0.001	NT	N/A	0.010	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Phosphorus	104	100	0.281	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Platinum	104	5	<0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Insufficent number of detected concentrations
	Potassium	104	100	<0.001	NT	N/A	0.273	N/A	NT	N/A	0.532	N/A	No significant difference between soil types
	Selenium	120	43	<0.001	0.010	0.207	0.044	0.009	0.065	0.612	0.279	0.050	No significant difference among soil types
	Silicon	104	100	<0.001	NT	N/A	0.274	N/A	NT	N/A	0.571	N/A	No significant difference between soil types
	Silver	120	13	<0.001	<0.001	<0.001	NA	N/A	<0.001	0.277	N/A	N/A	No significant difference among soil types
	Sodium	104	100	<0.001	NT	N/A	0.142	N/A	NT	N/A	0.087	N/A	No significant difference among soil types
	Strontium	104	100	<0.001	NT	N/A	0.016	N/A	NT	N/A	0.002	N/A	Mc>Mx
	Sulfate	104	78	<0.001	0.338	N/A	0.338	N/A	0.055	N/A	N/A	N/A	No significant difference among soil types
	Thallium	120	35	<0.001	0.030	0.088	0.313	0.023	0.007	0.093	0.401	0.044	Mx>R
	Tin	104	99	0.696	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Titanium	120	100	0.002	<0.001	<0.001	<0.001	0.835	<0.001	<0.001	<0.001	0.297	Mc>R, Mc>Mx
	Uranium	103	100	<0.001	NT	N/A	0.001	NA	NT	N/A	<0.001	N/A	Mc>Mx
	Vanadium	120	100	0.352	<0.001	<0.001	<0.001	0.199	<0.001	<0.001	<0.001	<0.001	Mc>R, Mc>Mx
	Zinc	120	100	<0.001	0.043	0.192	0.120	1.000	0.011	0.015	0.108	0.672	Mc>R
	Zirconium	104	100	0.060	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx

Table G-10. Statistical Comparison of Metals, Anions. and Radionuclide Data Collected from Various Origins in BRC/TIMET/ENVIRON Background Soil of Different Geological Orig

Analyte Group	Analyte	Sample Size	Detection Frequency (Percent)	Shapiro-Wilk (p)	Parametric Tests (Probabilities)				Nonparametric Tests (Probabilities)				Conclusions
					Main Test (ANOVA)	Multiple Contrasts (Tukey's HSD)			Main Test (Kruskal-Wallis)	Multiple Contrasts (Behrens-Fisher)			
					All Origins	Mc-R	Mc-Mx	Mx-R	All Origins	Mc-R	Mc-Mx	Mx-R	
Radionuclides (pCi/g)	Actinium-227	104	0	0.397	NT	N/A	0.439	N/A	0.635	N/A	0.635	N/A	No significant difference between soil types
	Actinium-228	120	100	0.002	<0.001	0.004	0.001	0.995	<0.001	0.012	0.002	0.996	Mc>R, Mc>Mx
	Bismuth-210	104	1	0.037	NT	N/A	0.122	N/A	NT	N/A	0.138	N/A	No significant difference between soil types
	Bismuth-211	104	0	0.397	NT	N/A	0.439	N/A	NT	N/A	0.635	N/A	No significant difference between soil types
	Bismuth-212	120	57	0.013	<0.001	0.007	0.001	0.993	<0.001	0.001	0.001	0.816	Mc>R, Mc>Mx
	Bismuth-214	120	100	0.062	0.228	0.246	0.723	0.736	0.234	0.165	0.690	0.996	No significant difference among soil types
	Cobalt-57	104	0	0.304	NT	N/A	0.426	N/A	NT	N/A	0.408	N/A	No significant difference between soil types
	Cobalt-60	104	0	0.799	0.325	N/A	0.325	N/A	0.438	N/A	N/A	N/A	No significant difference between soil types
	Lead-210	120	2	0.021	0.006	0.007	0.679	0.009	0.009	0.002	0.734	0.006	Mc<R, Mx<R
	Lead-211	104	0	0.397	0.439	N/A	0.439	N/A	0.635	N/A	N/A	N/A	No significant difference between soil types
	Lead-212	120	100	0.185	<0.001	<0.001	<0.001	0.495	<0.001	<0.001	<0.001	0.215	Mc>R, Mc>Mx
	Lead-214	120	100	<0.001	<0.001	0.004	0.009	0.844	<0.001	<0.001	0.010	0.985	Mc>R, Mc>Mx
	Polonium-210	104	1	0.037	NT	N/A	0.122	N/A	NT	N/A	0.138	N/A	No significant difference between soil types
	Polonium-212	104	62	0.066	NT	NA	0.067	NA	NT	N/A	0.071	N/A	No significant difference between soil types
	Polonium-214	104	100	0.027	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Polonium-215	104	0	0.397	NT	N/A	0.439	N/A	NT	N/A	0.635	N/A	No significant difference between soil types
	Polonium-216	104	100	0.127	<0.001	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Polonium-218	104	92	<0.001	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Potassium-40	120	100	0.427	<0.001	<0.001	0.000	0.098	<0.001	<0.001	<0.001	0.066	Mc<R, Mc<Mx
	Protactinium-234	104	0	0.730	NT	N/A	0.867	N/A	NT	N/A	0.853	N/A	No significant difference between soil types
	Radium-223	104	0	0.397	NT	N/A	0.439	N/A	NT	N/A	0.635	N/A	No significant difference between soil types
	Radium-224	104	100	0.127	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Radium-226	104	92	<0.001	NT	N/A	<0.001	N/A	NT	N/A	<0.001	N/A	Mc>Mx
	Radium-228	84	81	0.891	NT	N/A	0.010	N/A	NT	N/A	0.021	N/A	Mc<Mx
	Thallium-207	104	0	0.397	NT	N/A	0.439	N/A	NT	N/A	0.635	N/A	No significant difference between soil types
	Thallium-208	120	100	0.059	<0.001	0.001	0.083	0.269	0.001	0.001	0.020	0.221	Mc>R
	Thorium-227	104	0	0.397	NT	N/A	0.439	N/A	NT	N/A	0.635	N/A	No significant difference between soil types
	Thorium-228	120	100	0.094	<0.001	<0.001	0.002	0.718	<0.001	<0.001	0.002	0.747	Mc>R, Mc>Mx
	Thorium-230	120	100	<0.001	0.003	0.342	0.003	0.473	<0.001	0.189	0.001	0.034	Mc>Mx, Mx<R
	Thorium-231	104	11	0.001	NT	N/A	0.514	N/A	NT	N/A	0.373	N/A	No significant difference between soil types
	Thorium-232	120	100	0.030	<0.001	0.003	0.011	0.811	0.001	0.003	0.020	0.873	Mc>R, Mc>Mx
	Thorium-234	120	54	0.031	<0.001	<0.001	0.031	0.259	<0.001	<0.001	0.012	0.154	Mc>R, Mc>Mx
	Uranium-233/234	120	51	0.002	0.718	0.842	0.799	1.000	0.735	0.928	0.692	1.000	No significant difference among soil types
	Uranium-235	120	45	<0.001	<0.001	<0.001	<0.001	0.955	<0.001	<0.001	<0.001	0.857	Mc>R, Mc>Mx
	Uranium-238	120	100	<0.001	<0.001	0.002	0.003	0.900	<0.001	<0.001	<0.001	0.187	Mc>R, Mc>Mx

Table G-10 Statistical Comparison of Metals, Anions. and Radionuclide Data Collected from Various Origins in BRC/TIMET/ENVIRON Background Soil of Different Geological Origin

Notes:

Nonparametric tests were selected when censored (nondetect) measurements were present in one or more groups and when the detection frequency

Shaded cells indicate results selected for test interpretation in the conclusions column.

A variation of the Kruskal-Wallis test with Gehan ranking was used when censored measurements were present in one or more groups.

Radiological U-qualified results were only used to calculate detection frequency and to report summary statistics for censored and detected data. All radiological data are treated as detected in the statistical comparisons.

ANOVA	Analysis of variance
bgs	Below ground surface
HSD	Honestly Significantly Different
mg/kg	Milligrams per kilogram
N/A	Not applicable; Indicates that statistical testing is contraindicated because of low detection frequency in at least one of the groups being compared; a minimum of four detected measurements was selected as the cutoff for conducting statistical testing, although it should be acknowledged that tests conducted in cases with low detection frequenices and/or a large disparity in sample size among groups being compared may still suffer from low power, and results should be interpreted with caution.
NT	Not tested; only two groups were compared (refer to results for individual two-group comparisons)
p	Probability (p value) assoicated with the Shapiro-Wilk W test performed on the residuals from the ANOVA; p values less than or equal to 0.05 result in rejection of the null
pCi/g	Pico Curies per gram
R	River Range
MC	McCullough Range

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MEMORANDUM

To: Brian Rakvica

From: Paul Duffy and Paul Black

Date: 07/22/2007

Subject: Revised Tables for Appendix G of the background report

The purpose of this memorandum is to provide supplemental tables for data presented in Appendix G of the March 16, 2007 draft of the "Background Shallow Soil Summary Report: BMI Complex and Common Areas Vicinity". The tables presented herein are meant to supplement the tables provided in Appendix G of the background report, and are, hence, numbered G-1A through G-8A, each table supplementing, in turn, Appendix G tables G-1 through G-8.

The main issue that these new summary tables address is presenting the radionuclides summary data without censoring. However, in so doing, the metals data have also been combined across both detects and non-detects. Non-detects are represented at the reported detection limits for these summary tables. The reason to present the supplemental tables for the radionuclide summary statistics is simply that these data were not originally censored, in which case it does not make sense to censor them for the Appendix G presentation.

For the metals, the reasoning is not so clear. However, the data might be used for background comparisons in the future, or they might be used to estimate background risk. For statistical tests or confidence bounds involving these data that also involve mean concentrations (e.g., t-tests for background comparisons, or estimation of background risk), it might be helpful to have tables of summary statistics that match the results of these statistical tests, rather than summary statistics tables that separate the non-detects from the detects. Of course, this requires a simple substitution rule for the non-detects data, which in the supplemental tables presented is the reported detection limit (other options exist, such as ½ the reported detection limit). We recognize that current UCL estimation methods include approaches that are based on survival analysis, and hence do not require substitution for censored data. However, background comparisons, which constitute the more likely use of these data, are not so easily addressed with methods that do not require substitution. These supplemental tables might help in those cases.

Table G-1A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in ALL BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	120	1	3740	6710	8420	8900	11200	15300
Antimony	120	0.41	0.0394	0.168	0.33	0.254	0.33	0.5
Arsenic	120	1	2.1	3.3	3.9	4.13	4.92	7.2
Barium	120	1	73	144	190	222	233	836
Beryllium	120	1	0.16	0.44	0.54	0.557	0.69	0.89
Boron	104	0.33	3.2	3.35	4.25	4.88	5.8	11.6
Cadmium	120	0.13	0.052	0.129	0.129	0.126	0.129	0.16
Calcium	104	1	8160	17500	23600	28100	35200	82800
Chloride	104	0.69	0.25	1.6	11.5	118	136	1110
Chromium	120	1	2.6	7	8.8	8.94	10.8	16.7
Chromium-hexavalent	104	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	120	1	3.7	6.38	8.25	8.22	9.72	16.3
Copper	120	1	7.8	14.4	17.2	17.1	19.7	30.5
Fluoride	104	0.12	0.051	0.051	0.051	0.373	0.603	2.5
Iron	120	1	5410	10500	13000	12800	15100	19700
Lead	120	1	3	6.38	7.75	9.45	10.6	35.1
Lithium	104	1	7.5	10.8	12.8	13.8	16.1	26.5
Magnesium	120	1	4580	6970	9420	9500	11700	17500
Manganese	120	1	151	344	419	425	496	1090
Mercury	120	0.78	0.0072	0.00918	0.015	0.0184	0.022	0.11
Molybdenum	120	1	0.17	0.38	0.475	0.547	0.623	2
Nickel	120	1	7.8	11.4	15.3	15.1	17.6	30
Niobium	104	0	1.01	1.01	1.3	1.42	1.62	2.8
Nitrate	104	0.87	0.1	0.258	0.78	7.59	3.23	102
Nitrite	104	0.048	0.061	0.061	0.061	0.0652	0.061	0.21
Palladium	104	1	0.14	0.287	0.4	0.462	0.55	1.5
Phosphorus	104	1	636	1200	1460	1420	1650	2010
Platinum	104	0.048	0.0435	0.0435	0.0435	0.0448	0.0435	0.099
Potassium	104	1	625	1230	1540	1730	2060	3890
Selenium	120	0.43	0.0467	0.158	0.158	0.213	0.273	0.6
Silicon	104	1	335	563	720	981	1070	4150
Silver	120	0.13	0.019	0.261	0.261	0.233	0.261	0.261
Sodium	104	1	111	210	452	486	685	1320
Strontium	104	1	69	134	186	223	258	808
Sulfate	104	0.78	0.612	4.4	22.2	180	117	4130
Thallium	120	0.35	0.1	0.398	0.543	0.688	0.985	1.8
Thorium	16	1	4.6	5.22	5.65	5.88	6.42	7.7
Tin	104	0.99	0.187	0.4	0.485	0.477	0.552	0.8
Titanium	120	1	200	393	504	510	618	1010
Tungsten	104	0	0.49	0.887	1.05	1.18	1.5	2.5
Uranium	103	1	0.43	0.82	0.94	1	1.1	2.7
Vanadium	120	1	14.6	25.9	35.5	35.4	43.5	59.1
Zinc	120	1	15.4	28.5	37.1	37.2	43.1	121
Zirconium	104	1	60.1	112	125	126	145	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Actinium-228	120	1.11	1.54	1.77	1.8	2.04	3.4
Bismuth-212	120	0.29	0.772	0.97	1.01	1.25	1.82
Bismuth-210	104	-0.6	0.2	0.6	0.605	0.9	2.2
Bismuth-211	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Bismuth-214	120	0.52	0.8	0.925	0.95	1.08	1.62
Cobalt-57	104	-0.045	-0.00925	0.00065	1.35E-05	0.012	0.04
Cobalt-60	104	-0.073	-0.0173	0.003	0.00151	0.0208	0.082
Lead-210	120	-0.6	0.3	0.665	0.724	1.1	2.2
Lead-211	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Lead-212	120	0.94	1.28	1.47	1.5	1.72	2.11
Lead-214	120	0.61	0.83	0.93	0.967	1.07	1.72
Polonium-210	104	-0.6	0.2	0.6	0.605	0.9	2.2
Polonium-212	104	0.19	0.495	0.605	0.648	0.78	1.17
Polonium-214	104	0.52	0.807	0.93	0.962	1.09	1.62
Polonium-215	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Polonium-216	104	1.08	1.34	1.57	1.53	1.73	2.11
Polonium-218	104	0.494	0.892	1.06	1.11	1.25	2.36
Potassium-40	120	17.8	22.9	24.5	25.2	27.1	35
Protactinium-234	104	-0.34	-0.14	-0.08	-0.0784	-0.0175	0.13
Radium-226	104	0.494	0.892	1.06	1.11	1.25	2.36
Radium-228	84	0.946	1.67	1.96	1.92	2.17	2.94
Radium-223	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Radium-224	104	1.08	1.34	1.57	1.53	1.73	2.11
Thallium-207	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Thallium-208	120	0.33	0.48	0.54	0.54	0.603	0.72
Thorium-227	104	-0.57	-0.2	-0.035	-0.0442	0.122	0.4
Thorium-228	120	1.07	1.48	1.71	1.69	1.9	2.28
Thorium-230	120	0.66	0.98	1.19	1.25	1.4	3.01
Thorium-231	104	0	0.043	0.0585	0.0655	0.0872	0.21
Thorium-232	120	1.05	1.41	1.57	1.61	1.8	2.23
Thorium-234	120	-0.53	0.745	1.25	1.17	1.62	2.5
Uranium-233/234	104	0.47	0.858	1.02	1.16	1.23	2.84
Uranium-234	16	0.53	0.665	0.775	0.772	0.85	1.11
Uranium-235	120	0	0.0428	0.059	0.0659	0.0892	0.21
Uranium-238	120	0.45	0.86	1.01	1.08	1.21	2.37

Table G-2A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 0 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	45	1	5530	7240	9950	9730	11600	13900
Antimony	45	0.58	0.0394	0.2	0.27	0.248	0.33	0.5
Arsenic	45	1	2.1	3	3.7	4.13	5.3	7.2
Barium	45	1	90.4	150	190	219	226	604
Beryllium	45	1	0.16	0.41	0.61	0.585	0.76	0.89
Boron	37	0.43	3.2	3.2	4.8	5.05	6	11.6
Cadmium	45	0.18	0.092	0.129	0.129	0.127	0.129	0.16
Calcium	37	1	10900	16100	19500	21600	25800	43200
Chloride	37	0.35	0.25	0.93	1.3	15.7	1.8	252
Chromium	45	1	3.6	8	10.8	10.4	12.8	16.7
Chromium-hexavalent	37	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	45	1	4.1	7.3	8.8	8.46	9.5	14.6
Copper	45	1	8.1	16.3	18.5	17.8	19.6	25.9
Fluoride	37	0.054	0.051	0.051	0.051	0.147	0.051	1.1
Iron	45	1	8960	12100	14400	14000	16300	19700
Lead	45	1	6	9.1	10.9	13	15.7	35.1
Lithium	37	1	7.5	10	12.4	13.7	17.5	23.9
Magnesium	45	1	4880	8470	9750	10100	12100	17500
Manganese	45	1	263	407	455	472	506	1090
Mercury	45	0.89	0.0072	0.014	0.021	0.0218	0.027	0.082
Molybdenum	45	1	0.27	0.36	0.45	0.524	0.7	1.1
Nickel	45	1	8.4	13.8	16.6	16.5	18.1	30
Niobium	37	0	1.01	1.1	1.3	1.52	1.8	2.8
Nitrate	37	0.62	0.1	0.1	0.25	2.36	0.51	53.4
Nitrite	37	0.14	0.061	0.061	0.061	0.0729	0.061	0.21
Palladium	37	1	0.19	0.25	0.29	0.355	0.37	1.5
Phosphorus	37	1	636	1300	1520	1470	1630	1990
Platinum	37	0.027	0.0435	0.0435	0.0435	0.0445	0.0435	0.082
Potassium	37	1	1240	1620	1840	2240	2760	3890
Selenium	45	0.62	0.0467	0.158	0.19	0.245	0.32	0.6
Silicon	37	1	335	620	844	1390	1300	4150
Silver	45	0.18	0.036	0.261	0.261	0.224	0.261	0.261
Sodium	37	1	111	146	166	248	309	693
Strontium	37	1	86.8	119	143	168	166	808
Sulfate	37	0.46	0.612	2.1	3.3	58.3	10.5	857
Thallium	45	0.44	0.13	0.43	0.6	0.728	1	1.7
Thorium	8	1	5	5.22	6.1	5.95	6.42	7
Tin	37	1	0.28	0.51	0.55	0.55	0.61	0.8
Titanium	45	1	244	445	535	535	624	936
Tungsten	37	0	0.49	0.89	1	1.12	1.4	2.5
Uranium	37	1	0.43	0.8	0.89	0.913	1	1.8
Vanadium	45	1	15.7	26	35	35.2	42.1	57.3
Zinc	45	1	24.8	35.7	42.2	44	49.1	121
Zirconium	37	1	60.1	117	123	125	140	176

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Actinium-228	45	1.17	1.48	1.79	1.79	2.05	2.53
Bismuth-212	45	0.29	0.81	0.92	0.988	1.16	1.82
Bismuth-210	37	-0.3	0.4	0.63	0.766	1.1	2
Bismuth-211	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Bismuth-214	45	0.6	0.78	0.9	0.892	0.95	1.26
Cobalt-57	37	-0.031	-0.009	0.007	0.00249	0.013	0.03
Cobalt-60	37	-0.073	-0.025	-0.004	-0.00768	0.011	0.044
Lead-210	45	-0.3	0.5	0.8	0.896	1.5	2.2
Lead-211	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Lead-212	45	0.94	1.3	1.47	1.5	1.74	1.98
Lead-214	45	0.68	0.83	0.88	0.909	0.97	1.19
Polonium-210	37	-0.3	0.4	0.63	0.766	1.1	2
Polonium-212	37	0.19	0.5	0.58	0.62	0.7	1.16
Polonium-214	37	0.6	0.8	0.9	0.906	0.95	1.26
Polonium-215	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Polonium-216	37	1.08	1.36	1.61	1.55	1.76	1.98
Polonium-218	37	0.494	0.877	0.987	1.01	1.14	1.58
Potassium-40	45	20.3	23.5	24.5	25.3	27.5	34.4
Protactinium-234	37	-0.34	-0.15	-0.11	-0.0942	-0.03	0.12
Radium-226	37	0.494	0.877	0.987	1.01	1.14	1.58
Radium-228	30	1.11	1.72	1.94	1.93	2.09	2.94
Radium-223	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Radium-224	37	1.08	1.36	1.61	1.55	1.76	1.98
Thallium-207	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Thallium-208	45	0.41	0.49	0.53	0.554	0.61	0.72
Thorium-227	37	-0.49	-0.19	0.03	-0.0109	0.14	0.38
Thorium-228	45	1.15	1.52	1.76	1.74	1.92	2.28
Thorium-230	45	0.72	0.93	1.15	1.11	1.24	1.7
Thorium-231	37	0	0.042	0.059	0.0619	0.08	0.13
Thorium-232	45	1.13	1.51	1.71	1.68	1.82	2.23
Thorium-234	45	-0.26	0.71	1.12	1.12	1.68	2.07
Uranium-233/234	37	0.47	0.8	0.89	0.905	1	1.23
Uranium-234	8	0.53	0.632	0.74	0.789	0.955	1.11
Uranium-235	45	0	0.038	0.059	0.0622	0.088	0.13
Uranium-238	45	0.45	0.8	0.91	0.905	1.03	1.38

Table G-3A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 5 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	42	1	4840	6560	7770	8550	10900	15300
Antimony	42	0.26	0.0394	0.14	0.33	0.239	0.33	0.35
Arsenic	42	1	2.3	3.33	3.7	3.86	4.4	6.1
Barium	42	1	73	149	214	230	270	561
Beryllium	42	1	0.25	0.443	0.5	0.528	0.618	0.77
Boron	34	0.29	3.2	3.2	4.1	4.71	5.7	9.1
Cadmium	42	0.19	0.052	0.129	0.129	0.122	0.129	0.14
Calcium	34	1	8160	16600	22600	29300	36900	82800
Chloride	34	0.82	0.25	2.42	25.2	182	231	1060
Chromium	42	1	3.1	6.4	7.7	7.94	9.68	12.1
Chromium-hexavalent	34	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	42	1	3.9	6.05	7.3	7.78	9.62	14.8
Copper	42	1	7.8	13.2	15.3	16.1	19.7	30.5
Fluoride	34	0.15	0.051	0.051	0.315	0.474	0.767	2.1
Iron	42	1	6350	9440	12100	12200	14400	18800
Lead	42	1	4.9	6.5	7.1	8.13	9.18	23.3
Lithium	34	1	8.5	10.6	11.7	12.6	14.4	21.3
Magnesium	42	1	4580	5710	8080	8320	10900	13600
Manganese	42	1	183	305	374	405	491	863
Mercury	42	0.69	0.0072	0.0072	0.0135	0.0149	0.0198	0.034
Molybdenum	42	1	0.17	0.35	0.445	0.523	0.573	2
Nickel	42	1	7.8	10.8	13.1	13.9	16.4	22.7
Niobium	34	0	1.01	1.01	1.35	1.48	1.77	2.8
Nitrate	34	1	0.13	0.652	1.3	14.8	11.7	102
Nitrite	34	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	34	1	0.14	0.325	0.435	0.433	0.517	0.84
Phosphorus	34	1	842	1160	1470	1410	1720	2010
Platinum	34	0.059	0.0435	0.0435	0.0435	0.0452	0.0435	0.099
Potassium	34	1	872	1130	1370	1610	2070	3260
Selenium	42	0.4	0.0467	0.158	0.158	0.197	0.253	0.4
Silicon	34	1	399	539	720	743	849	1360
Silver	42	0.19	0.019	0.261	0.261	0.22	0.261	0.261
Sodium	34	1	179	408	502	574	728	1320
Strontium	34	1	69	156	210	206	251	441
Sulfate	34	0.91	2.2	8.05	55.8	208	176	3240
Thallium	42	0.36	0.1	0.34	0.543	0.648	0.777	1.8
Thorium	8	1	4.6	5.2	5.45	5.81	6.17	7.7
Tin	34	1	0.2	0.4	0.445	0.455	0.53	0.75
Titanium	42	1	213	366	476	497	598	1010
Tungsten	34	0	0.64	0.902	1.05	1.21	1.5	2.2
Uranium	33	1	0.67	0.81	1	0.963	1.1	1.3
Vanadium	42	1	14.6	25.4	33.5	33.7	42.3	59.1
Zinc	42	1	17.6	26.1	33.6	34.1	41.3	52.4
Zirconium	34	1	78.9	116	133	132	148	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Actinium-228	42	1.11	1.65	1.82	1.85	2.04	2.66
Bismuth-212	42	0.31	0.797	0.97	1.02	1.22	1.82
Bismuth-210	34	-0.5	-0.1	0.25	0.353	0.6	1.7
Bismuth-211	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Bismuth-214	42	0.57	0.8	0.945	0.948	1.07	1.48
Cobalt-57	34	-0.045	-0.014	-0.004	-0.00611	0.005	0.022
Cobalt-60	34	-0.055	-0.0165	-0.0035	0.00173	0.0222	0.071
Lead-210	42	-0.5	0.12	0.43	0.57	0.98	2.2
Lead-211	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Lead-212	42	1	1.25	1.44	1.46	1.65	1.93
Lead-214	42	0.62	0.8	0.885	0.933	1.03	1.72
Polonium-210	34	-0.5	-0.1	0.25	0.353	0.6	1.7
Polonium-212	34	0.34	0.522	0.61	0.658	0.78	1.17
Polonium-214	34	0.64	0.805	0.945	0.956	1.07	1.48
Polonium-215	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Polonium-216	34	1.08	1.29	1.53	1.51	1.72	1.93
Polonium-218	34	0.577	0.887	1.08	1.07	1.2	1.82
Potassium-40	42	17.8	22.9	25.2	25.6	28	35
Protactinium-234	34	-0.31	-0.147	-0.085	-0.0835	-0.00875	0.06
Radium-226	34	0.577	0.887	1.08	1.07	1.2	1.82
Radium-228	29	1.15	1.5	2	1.88	2.21	2.42
Radium-223	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Radium-224	34	1.08	1.29	1.53	1.51	1.72	1.93
Thallium-207	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Thallium-208	42	0.33	0.48	0.57	0.537	0.6	0.66
Thorium-227	34	-0.57	-0.193	-0.04	-0.048	0.13	0.4
Thorium-228	42	1.07	1.52	1.75	1.72	1.95	2.15
Thorium-230	42	0.75	1.05	1.16	1.21	1.36	2.44
Thorium-231	34	9.00E-04	0.0408	0.0525	0.0574	0.0813	0.13
Thorium-232	42	1.1	1.41	1.56	1.6	1.78	2.06
Thorium-234	42	-0.53	0.695	0.985	1.04	1.57	2.3
Uranium-233/234	34	0.75	0.92	1.07	1.13	1.21	2.44
Uranium-234	8	0.53	0.7	0.795	0.756	0.815	0.91
Uranium-235	42	9.00E-04	0.0408	0.055	0.0587	0.0825	0.13
Uranium-238	42	0.45	0.87	1.02	1.04	1.17	1.95

Table G-4A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 10 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	33	1	3740	6370	7880	8220	10300	13300
Antimony	33	0.36	0.12	0.25	0.33	0.282	0.33	0.41
Arsenic	33	1	3.1	3.7	4.2	4.47	5.3	6.7
Barium	33	1	82.5	139	171	218	202	836
Beryllium	33	1	0.29	0.46	0.53	0.555	0.63	0.89
Boron	33	0.24	3.2	3.7	4.3	4.86	5.1	10.2
Cadmium	33	0	0.129	0.129	0.129	0.129	0.129	0.129
Calcium	33	1	17900	22800	32000	34300	44800	70200
Chloride	33	0.94	1.6	21.7	35.9	168	254	1110
Chromium	33	1	2.6	7.4	8.2	8.15	9.4	14.1
Chromium-hexavalent	33	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	33	1	3.7	6.1	8.9	8.46	10.2	16.3
Copper	33	1	10.2	14.6	17	17.2	19.8	23.9
Fluoride	33	0.18	0.051	0.051	0.31	0.521	0.77	2.5
Iron	33	1	5410	9180	12300	11900	14300	19100
Lead	33	1	3	5.6	6	6.29	6.8	11.7
Lithium	33	1	9.9	11.8	13.4	15.3	16.5	26.5
Magnesium	33	1	5240	6680	10900	10200	12700	16900
Manganese	33	1	151	327	398	386	465	641
Mercury	33	0.73	0.0072	0.0072	0.011	0.0183	0.015	0.11
Molybdenum	33	1	0.33	0.45	0.54	0.608	0.63	1.9
Nickel	33	1	7.9	11.5	14.7	14.8	17.9	22.1
Niobium	33	0	1.01	1.01	1.1	1.25	1.4	2
Nitrate	33	1	0.11	0.67	1.5	5.99	3.8	42.1
Nitrite	33	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	33	1	0.25	0.4	0.55	0.61	0.84	1.2
Phosphorus	33	1	722	1070	1370	1350	1640	1960
Platinum	33	0.061	0.0435	0.0435	0.0435	0.0447	0.0435	0.064
Potassium	33	1	625	966	1250	1290	1380	2270
Selenium	33	0.21	0.158	0.158	0.158	0.191	0.158	0.4
Silicon	33	1	423	572	680	764	883	1380
Silver	33	0	0.261	0.261	0.261	0.261	0.261	0.261
Sodium	33	1	196	522	662	661	802	1190
Strontium	33	1	114	199	258	302	406	684
Sulfate	33	1	8.6	21.2	49.8	286	124	4130
Thallium	33	0.21	0.21	0.4	0.543	0.685	0.93	1.6
Thorium	33	0.97	0.187	0.36	0.4	0.416	0.51	0.63
Tin	33	1	200	402	490	493	597	858
Titanium	33	0	0.51	0.89	1.1	1.2	1.5	2.1
Tungsten	33	1	0.68	0.89	0.95	1.14	1.3	2.7
Uranium	33	1	19.2	30.5	38.8	37.9	45.6	57.5
Vanadium	33	1	15.4	23.9	34.1	31.9	39.6	51.7
Zinc	33	1	68.4	102	123	122	145	177
Zirconium	33	1	3740	6370	7880	8220	10300	13300

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Actinium-228	33	1.18	1.48	1.71	1.77	2	3.4
Bismuth-212	33	0.52	0.74	1.06	1.04	1.36	1.69
Bismuth-210	33	-0.6	0.3	0.7	0.685	0.91	2.2
Bismuth-211	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Bismuth-214	33	0.52	0.83	1.02	1.03	1.18	1.62
Cobalt-57	33	-0.032	-0.005	0.002	0.00354	0.012	0.04
Cobalt-60	33	-0.042	-0.009	0.011	0.0116	0.028	0.082
Lead-210	33	-0.6	0.3	0.7	0.685	0.91	2.2
Lead-211	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Lead-212	33	1.08	1.33	1.58	1.54	1.72	2.11
Lead-214	33	0.61	0.91	1.01	1.09	1.24	1.68
Polonium-210	33	-0.6	0.3	0.7	0.685	0.91	2.2
Polonium-212	33	0.33	0.47	0.68	0.668	0.87	1.08
Polonium-214	33	0.52	0.83	1.02	1.03	1.18	1.62
Polonium-215	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Polonium-216	33	1.08	1.33	1.58	1.54	1.72	2.11
Polonium-218	33	0.507	0.939	1.22	1.27	1.54	2.36
Potassium-40	33	18.4	22.4	24.5	24.4	26	31.1
Protactinium-234	33	-0.25	-0.1	-0.04	-0.0555	-0.01	0.13
Radium-226	33	0.507	0.939	1.22	1.27	1.54	2.36
Radium-228	25	0.946	1.73	2.02	1.94	2.14	2.92
Radium-223	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Radium-224	33	1.08	1.33	1.58	1.54	1.72	2.11
Thallium-207	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Thallium-208	33	0.37	0.43	0.53	0.526	0.6	0.72
Thorium-227	33	-0.41	-0.2	-0.09	-0.0777	0.02	0.37
Thorium-228	33	1.16	1.38	1.5	1.57	1.82	2.13
Thorium-230	33	0.66	1.03	1.5	1.47	1.67	3.01
Thorium-231	33	0	0.047	0.076	0.0779	0.1	0.21
Thorium-232	33	1.05	1.34	1.5	1.55	1.77	2.1
Thorium-234	33	0.24	1.19	1.44	1.38	1.66	2.5
Uranium-233/234	33	0.58	1.04	1.25	1.48	1.9	2.84
Uranium-235	33	0	0.047	0.077	0.0802	0.101	0.21
Uranium-238	33	0.58	1.05	1.36	1.39	1.59	2.37

Table G-5A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in 5 and 10 ft BRC/TIMET/Environ Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	75	1	3740	6500	7880	8400	10700	15300
Antimony	75	0.31	0.0394	0.155	0.33	0.258	0.33	0.41
Arsenic	75	1	2.3	3.4	3.9	4.13	4.8	6.7
Barium	75	1	73	142	188	225	242	836
Beryllium	75	1	0.25	0.445	0.5	0.54	0.625	0.89
Boron	67	0.27	3.2	3.5	4.2	4.78	5.45	10.2
Cadmium	75	0.11	0.052	0.129	0.129	0.125	0.129	0.14
Calcium	67	1	8160	19000	28800	31800	42500	82800
Chloride	67	0.88	0.25	5.15	33.1	175	245	1110
Chromium	75	1	2.6	6.4	8.1	8.03	9.6	14.1
Chromium-hexavalent	67	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	75	1	3.7	6.05	7.9	8.08	9.95	16.3
Copper	75	1	7.8	13.7	16.1	16.6	19.8	30.5
Fluoride	67	0.16	0.051	0.051	0.31	0.497	0.77	2.5
Iron	75	1	5410	9400	12300	12100	14400	19100
Lead	75	1	3	5.9	6.7	7.32	7.8	23.3
Lithium	67	1	8.5	11.3	12.8	13.9	15.8	26.5
Magnesium	75	1	4580	6140	9360	9150	11600	16900
Manganese	75	1	151	306	383	397	483	863
Mercury	75	0.71	0.0072	0.0072	0.012	0.0164	0.019	0.11
Molybdenum	75	1	0.17	0.385	0.49	0.56	0.605	2
Nickel	75	1	7.8	11.2	13.8	14.3	17.4	22.7
Niobium	67	0	1.01	1.01	1.3	1.37	1.6	2.8
Nitrate	67	1	0.11	0.655	1.5	10.5	6.4	102
Nitrite	67	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	67	1	0.14	0.345	0.49	0.52	0.69	1.2
Phosphorus	67	1	722	1100	1420	1380	1660	2010
Platinum	67	0.06	0.0435	0.0435	0.0435	0.045	0.0435	0.099
Potassium	67	1	625	1100	1310	1450	1760	3260
Selenium	75	0.32	0.0467	0.158	0.158	0.194	0.21	0.4
Silicon	67	1	399	547	690	753	880	1380
Silver	75	0.11	0.019	0.261	0.261	0.238	0.261	0.261
Sodium	67	1	179	434	615	617	780	1320
Strontium	67	1	69	160	219	253	332	684
Sulfate	67	0.96	2.2	14.9	49.8	246	145	4130
Thallium	75	0.29	0.1	0.395	0.543	0.665	0.915	1.8
Thorium	8	1	4.6	5.2	5.45	5.81	6.17	7.7
Tin	67	0.99	0.187	0.385	0.43	0.436	0.52	0.75
Titanium	75	1	200	372	490	495	598	1010
Tungsten	67	0	0.51	0.885	1.1	1.21	1.5	2.2
Uranium	66	1	0.67	0.84	0.995	1.05	1.18	2.7
Vanadium	75	1	14.6	26.8	35.9	35.6	44	59.1
Zinc	75	1	15.4	25.6	34.1	33.2	40.2	52.4
Zirconium	67	1	68.4	108	126	127	147	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Actinium-228	75	1.11	1.55	1.76	1.82	2.04	3.4
Bismuth-212	75	0.31	0.75	0.99	1.03	1.31	1.82
Bismuth-210	67	-0.6	0.19	0.5	0.517	0.8	2.2
Bismuth-211	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Bismuth-214	75	0.52	0.815	0.97	0.984	1.14	1.62
Cobalt-57	67	-0.045	-0.01	-9.00E-04	-0.00136	0.011	0.04
Cobalt-60	67	-0.055	-0.016	0.007	0.00658	0.026	0.082
Lead-210	75	-0.6	0.2	0.6	0.621	0.955	2.2
Lead-211	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Lead-212	75	1	1.26	1.45	1.49	1.71	2.11
Lead-214	75	0.61	0.83	0.97	1	1.12	1.72
Polonium-210	67	-0.6	0.19	0.5	0.517	0.8	2.2
Polonium-212	67	0.33	0.49	0.63	0.663	0.85	1.17
Polonium-214	67	0.52	0.82	0.97	0.992	1.14	1.62
Polonium-215	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Polonium-216	67	1.08	1.29	1.54	1.52	1.72	2.11
Polonium-218	67	0.507	0.939	1.12	1.17	1.33	2.36
Potassium-40	75	17.8	22.7	24.5	25.1	27	35
Protactinium-234	67	-0.31	-0.12	-0.07	-0.0697	-0.01	0.13
Radium-226	67	0.507	0.939	1.12	1.17	1.33	2.36
Radium-228	54	0.946	1.62	2	1.91	2.18	2.92
Radium-223	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Radium-224	67	1.08	1.29	1.54	1.52	1.72	2.11
Thallium-207	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Thallium-208	75	0.33	0.455	0.54	0.532	0.6	0.72
Thorium-227	67	-0.57	-0.2	-0.07	-0.0627	0.085	0.4
Thorium-228	75	1.07	1.42	1.66	1.66	1.89	2.15
Thorium-230	75	0.66	1.04	1.21	1.32	1.55	3.01
Thorium-231	67	0	0.043	0.058	0.0675	0.088	0.21
Thorium-232	75	1.05	1.36	1.52	1.57	1.77	2.1
Thorium-234	75	-0.53	0.76	1.3	1.19	1.6	2.5
Uranium-233/234	67	0.58	0.945	1.16	1.3	1.52	2.84
Uranium-234	8	0.53	0.7	0.795	0.756	0.815	0.91
Uranium-235	75	0	0.043	0.058	0.0681	0.0895	0.21
Uranium-238	75	0.45	0.935	1.07	1.19	1.41	2.37

Table G-6A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in BRC/TIMET/Environ McCullough Range Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	101	1	3740	6820	8470	9130	11400	15300
Antimony	101	0.43	0.0394	0.21	0.33	0.275	0.33	0.5
Arsenic	101	1	2.1	3.4	3.9	4.11	4.9	7.2
Barium	101	1	73	141	175	182	216	465
Beryllium	101	1	0.16	0.45	0.54	0.581	0.72	0.89
Boron	95	0.36	3.2	3.45	4.4	5	5.9	11.6
Cadmium	101	0.059	0.095	0.129	0.129	0.128	0.129	0.16
Calcium	95	1	9440	18400	24500	29000	36400	82800
Chloride	95	0.72	0.25	1.6	16.3	128	150	1110
Chromium	101	1	2.6	6.9	9	9.03	11.1	16.7
Chromium-hexavalent	95	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	101	1	3.7	7.1	8.8	8.67	9.9	16.3
Copper	101	1	10.1	14.7	17.6	17.5	19.9	25.9
Fluoride	95	0.14	0.051	0.051	0.051	0.404	0.65	2.5
Iron	101	1	5410	10700	13500	13200	15500	19700
Lead	101	1	3	6.2	7.3	8.47	9.4	35.1
Lithium	95	1	7.5	10.8	12.9	14	16.8	26.5
Magnesium	101	1	4690	8450	10200	10200	12300	17500
Manganese	101	1	151	339	409	416	489	863
Mercury	101	0.78	0.0072	0.0092	0.014	0.019	0.023	0.11
Molybdenum	101	1	0.17	0.39	0.48	0.533	0.6	2
Nickel	101	1	7.9	13	16	15.9	18.1	30
Niobium	95	0	1.01	1.01	1.3	1.43	1.7	2.8
Nitrate	95	0.87	0.1	0.295	0.9	8.27	3.6	102
Nitrite	95	0.053	0.061	0.061	0.061	0.0656	0.061	0.21
Palladium	95	1	0.16	0.3	0.42	0.48	0.575	1.5
Phosphorus	95	1	862	1260	1490	1470	1680	2010
Platinum	95	0.053	0.0435	0.0435	0.0435	0.0449	0.0435	0.099
Potassium	95	1	625	1180	1580	1750	2170	3890
Selenium	101	0.39	0.1	0.158	0.158	0.215	0.27	0.6
Silicon	95	1	335	556	721	1010	1110	4150
Silver	101	0.059	0.043	0.261	0.261	0.249	0.261	0.261
Sodium	95	1	128	230	487	498	688	1320
Strontium	95	1	75.5	144	192	232	264	808
Sulfate	95	0.79	0.612	4.4	29.2	196	124	4130
Thallium	101	0.27	0.13	0.44	0.543	0.709	0.98	1.8
Thorium	6	1	5.3	5.42	6.3	6.25	6.95	7.3
Tin	95	1	0.24	0.41	0.51	0.498	0.565	0.8
Titanium	101	1	262	446	533	552	651	1010
Tungsten	95	0	0.49	0.89	1.1	1.2	1.5	2.5
Uranium	94	1	0.62	0.843	0.97	1.03	1.1	2.7
Vanadium	101	1	20.2	32.6	36.9	38.3	44.9	59.1
Zinc	101	1	15.4	31.1	38.9	38.5	43.8	121
Zirconium	95	1	86.1	116	129	131	146	179

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Actinium-228	101	1.18	1.61	1.81	1.87	2.05	3.4
Bismuth-212	101	0.29	0.81	0.99	1.03	1.3	1.82
Bismuth-210	95	-0.5	0.2	0.6	0.632	0.905	2.2
Bismuth-211	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Bismuth-214	101	0.6	0.85	0.96	0.985	1.12	1.62
Cobalt-57	95	-0.045	-0.0095	0.001	0.000414	0.012	0.04
Cobalt-60	95	-0.073	-0.0175	0.003	0.000611	0.021	0.071
Lead-210	101	-0.5	0.3	0.6	0.693	1.1	2.2
Lead-211	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Lead-212	101	1.08	1.37	1.58	1.55	1.73	2.11
Lead-214	101	0.69	0.86	0.96	1	1.1	1.72
Polonium-210	95	-0.5	0.2	0.6	0.632	0.905	2.2
Polonium-212	95	0.19	0.515	0.63	0.66	0.835	1.17
Polonium-214	95	0.6	0.845	0.95	0.984	1.13	1.62
Polonium-215	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Polonium-216	95	1.08	1.37	1.61	1.56	1.74	2.11
Polonium-218	95	0.494	0.956	1.09	1.15	1.27	2.36
Potassium-40	101	17.8	22.6	24.1	24.3	25.8	30.5
Protactinium-234	95	-0.34	-0.14	-0.08	-0.0789	-0.01	0.13
Radium-226	95	0.494	0.956	1.09	1.15	1.27	2.36
Radium-228	81	0.946	1.66	1.93	1.89	2.14	2.92
Radium-223	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Radium-224	95	1.08	1.37	1.61	1.56	1.74	2.11
Thallium-207	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Thallium-208	101	0.37	0.48	0.57	0.554	0.61	0.72
Thorium-227	95	-0.52	-0.195	-0.05	-0.0391	0.13	0.4
Thorium-228	101	1.15	1.52	1.78	1.74	1.93	2.28
Thorium-230	101	0.73	1.05	1.21	1.29	1.46	3.01
Thorium-231	95	0	0.043	0.059	0.0663	0.0885	0.21
Thorium-232	101	1.22	1.45	1.66	1.66	1.84	2.23
Thorium-234	101	-0.53	0.85	1.35	1.27	1.71	2.5
Uranium-233/234	95	0.63	0.9	1.07	1.2	1.24	2.84
Uranium-234	6	0.8	0.85	0.92	0.935	1	1.11
Uranium-235	101	0	0.043	0.059	0.0672	0.09	0.21
Uranium-238	101	0.65	0.92	1.05	1.16	1.31	2.37

Table G-7A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in BRC/TIMET/Environ River Mountain Background Soil Samples

Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	8	1	6820	7470	8940	9000	10100	12000
Antimony	8	0	0.0394	0.0394	0.0394	0.0394	0.0394	0.0394
Arsenic	8	1	2.6	3.1	3.35	3.36	3.58	4.3
Barium	8	1	322	346	372	392	401	561
Beryllium	8	1	0.25	0.287	0.3	0.32	0.347	0.43
Cadmium	8	1	0.052	0.0732	0.0955	0.0943	0.113	0.14
Chromium	8	1	4.3	7.05	7.6	7.88	8.47	12.4
Cobalt	8	1	3.9	4.05	4.15	4.39	4.62	5.6
Copper	8	1	7.8	8.1	8.6	9.54	9.15	16.3
Iron	8	1	7520	8640	9320	9410	10200	11800
Lead	8	1	7	13.6	18	17.5	23.4	23.5
Magnesium	8	1	4630	4830	5240	5700	6260	7810
Manganese	8	1	223	368	410	424	532	546
Mercury	8	1	0.013	0.0187	0.02	0.02	0.0225	0.024
Molybdenum	8	1	0.22	0.25	0.275	0.292	0.328	0.42
Nickel	8	1	7.8	8.62	9.65	10.2	10.9	15.4
Selenium	8	0.62	0.0467	0.0467	0.105	0.0963	0.115	0.18
Silver	8	1	0.019	0.033	0.0365	0.0424	0.0473	0.076
Thallium	8	1	0.1	0.13	0.14	0.141	0.152	0.18
Thorium	8	1	4.6	4.97	5.25	5.66	6.3	7.7
Titanium	8	1	235	277	298	310	310	473
Vanadium	8	1	14.6	15.5	16.3	16.5	17.6	18.6
Zinc	8	1	23	26.8	29.4	30.5	32.9	40.6

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-228	8	1.11	1.27	1.36	1.45	1.57	1.9
Bismuth-212	8	0.31	0.75	0.82	0.836	0.968	1.27
Bismuth-214	8	0.57	0.7	0.765	0.765	0.848	0.93
Lead-210	8	0.7	0.855	1.45	1.39	1.82	2.2
Lead-212	8	0.94	1.04	1.09	1.13	1.24	1.36
Lead-214	8	0.62	0.675	0.75	0.752	0.85	0.86
Potassium-40	8	24.9	26.4	29.3	28.8	29.8	34.4
Thallium-208	8	0.33	0.355	0.455	0.434	0.492	0.54
Thorium-228	8	1.07	1.26	1.42	1.37	1.5	1.52
Thorium-230	8	0.9	0.95	1.14	1.1	1.21	1.35
Thorium-232	8	1.1	1.21	1.37	1.35	1.49	1.58
Thorium-234	8	-0.002	0.182	0.365	0.368	0.575	0.71
Uranium-234	8	0.53	0.568	0.66	0.65	0.713	0.81
Uranium-235	8	0.016	0.0437	0.056	0.0592	0.076	0.103
Uranium-238	8	0.45	0.555	0.67	0.674	0.8	0.92

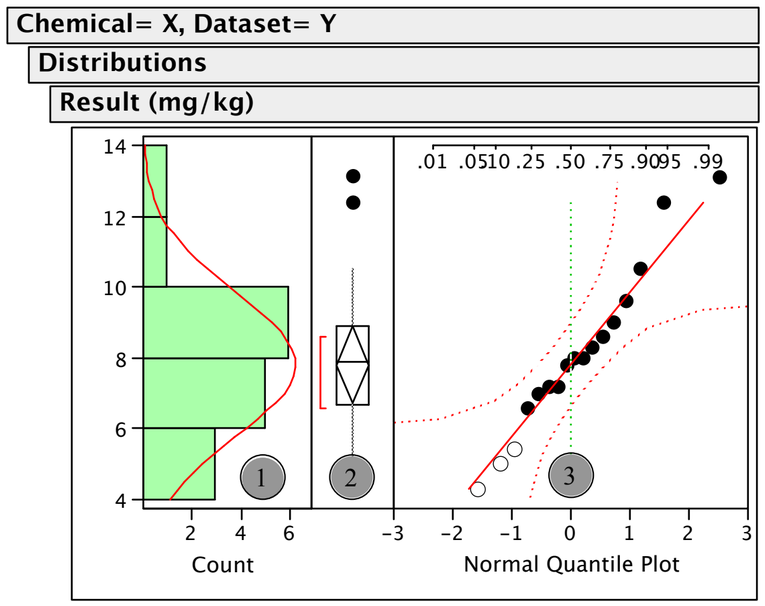
Table G-8A. Descriptive Summary Statistics for Metals, Anions and Radionuclides in BRC/TIMET/Environ Mixed Mountain Range Background Soil Samples

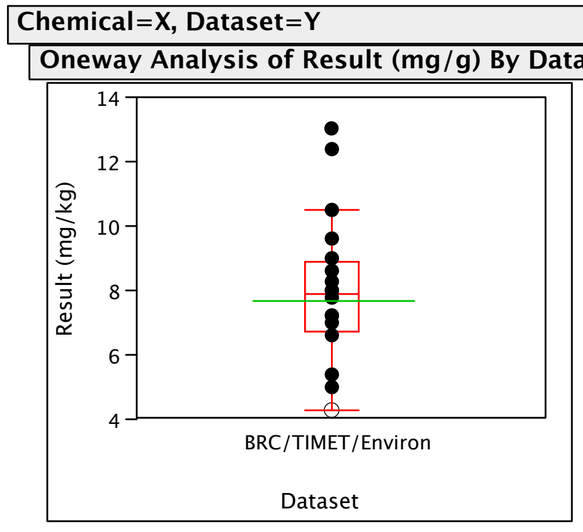
Analyte	Sample Size	Detection Frequency	Min	Q1	Median	Mean	Q3	Max
Aluminum	11	1	4840	5500	6180	6700	6340	10900
Antimony	11	0.55	0.0394	0.13	0.22	0.222	0.33	0.44
Arsenic	11	1	2.9	4.55	5.3	4.87	5.6	5.9
Barium	11	1	211	358	424	468	588	836
Beryllium	11	1	0.38	0.445	0.52	0.504	0.55	0.62
Boron	9	0	3.2	3.2	3.4	3.64	4	4.4
Cadmium	11	0.18	0.11	0.129	0.129	0.128	0.129	0.14
Calcium	9	1	8160	10900	16100	18600	26600	36400
Chloride	9	0.44	0.86	0.96	1.7	11.3	20	37.7
Chromium	11	1	5	7.85	8.8	8.86	10	11.7
Chromium-hexavalent	9	0	0.251	0.251	0.251	0.251	0.251	0.251
Cobalt	11	1	5.1	5.4	6.1	6.91	7.15	12.3
Copper	11	1	11.1	15.9	18.3	18.6	20.9	30.5
Fluoride	9	0	0.051	0.051	0.051	0.051	0.051	0.051
Iron	11	1	9180	10900	11200	11700	13400	14000
Lead	11	1	8.9	9.25	9.9	12.6	14.9	21
Lithium	9	1	9.1	10.9	11.7	11.8	13.2	14.9
Magnesium	11	1	4580	5170	5450	6060	6760	9090
Manganese	11	1	345	418	469	507	498	1090
Mercury	11	0.55	0.0072	0.0072	0.0097	0.0118	0.016	0.019
Molybdenum	11	1	0.22	0.78	0.9	0.859	1.03	1.3
Nickel	11	1	8.9	10.8	11.3	11.3	11.8	13.8
Niobium	9	0	1.01	1.01	1.01	1.3	1.5	2.4
Nitrate	9	0.78	0.1	0.11	0.2	0.372	0.59	1
Nitrite	9	0	0.061	0.061	0.061	0.061	0.061	0.061
Palladium	9	1	0.14	0.19	0.22	0.266	0.34	0.48
Phosphorus	9	1	636	727	804	798	842	984
Platinum	9	0	0.0435	0.0435	0.0435	0.0435	0.0435	0.0435
Potassium	9	1	1240	1240	1380	1470	1580	1840
Selenium	11	0.73	0.0467	0.164	0.26	0.28	0.395	0.59
Silicon	9	1	527	680	690	708	789	883
Silver	11	0.18	0.048	0.261	0.261	0.223	0.261	0.261
Sodium	9	1	111	146	265	352	432	901
Strontium	9	1	69	86.8	92	122	160	219
Sulfate	9	0.67	2.7	3.4	7.9	10.7	17.9	27.6
Thallium	11	0.64	0.12	0.885	0.95	0.894	1.1	1.4
Thorium	2	1	5.4	5.53	5.65	5.65	5.78	5.9
Tin	9	0.89	0.187	0.21	0.22	0.247	0.28	0.34
Titanium	11	1	200	220	244	272	306	398
Tungsten	9	0	0.68	0.78	0.9	0.937	0.99	1.5
Uranium	9	1	0.43	0.63	0.71	0.678	0.74	0.84
Vanadium	11	1	19.2	21.7	23.2	23	24.3	26
Zinc	11	1	21.4	23.9	25.2	30.7	35	52.4
Zirconium	9	1	60.1	66.1	69	75.2	85.6	92.9

Analyte	Sample Size	Min	Q1	Median	Mean	Q3	Max
Actinium-227	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Actinium-228	11	1.17	1.3	1.42	1.46	1.66	1.78
Bismuth-212	11	0.52	0.685	0.92	0.953	1.14	1.72
Bismuth-210	9	-0.6	-0.14	0.4	0.321	0.6	1.5
Bismuth-211	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Bismuth-214	11	0.52	0.705	0.73	0.754	0.78	1.14
Cobalt-57	9	-0.036	-0.008	-0.004	-0.00421	0.001	0.015
Cobalt-60	9	-0.031	-0.007	0.014	0.011	0.02	0.082
Lead-210	11	-0.6	0.08	0.4	0.528	1.06	1.5
Lead-211	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Lead-212	11	1.08	1.14	1.22	1.25	1.35	1.44
Lead-214	11	0.61	0.695	0.79	0.805	0.835	1.23
Polonium-210	9	-0.6	-0.14	0.4	0.321	0.6	1.5
Polonium-212	9	0.33	0.44	0.46	0.522	0.6	0.74
Polonium-214	9	0.52	0.71	0.73	0.72	0.76	0.8
Polonium-215	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Polonium-216	9	1.08	1.11	1.21	1.22	1.34	1.44
Polonium-218	9	0.583	0.63	0.756	0.735	0.835	0.926
Potassium-40	11	28.8	30.5	31	31.1	31.2	35
Protactinium-234	9	-0.17	-0.12	-0.06	-0.0733	-0.03	-0.01
Radium-226	9	0.583	0.63	0.756	0.735	0.835	0.926
Radium-228	3	2.14	2.28	2.42	2.5	2.68	2.94
Radium-223	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Radium-224	9	1.08	1.11	1.21	1.22	1.34	1.44
Thallium-207	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Thallium-208	11	0.39	0.47	0.5	0.495	0.53	0.59
Thorium-227	9	-0.57	-0.2	0.005	-0.0983	0.02	0.14
Thorium-228	11	1.17	1.31	1.44	1.46	1.57	1.9
Thorium-230	11	0.66	0.78	0.84	0.905	1.02	1.37
Thorium-231	9	0.021	0.046	0.053	0.0574	0.054	0.13
Thorium-232	11	1.05	1.27	1.44	1.42	1.47	1.93
Thorium-234	11	-0.15	0.54	0.82	0.795	1.29	1.44
Uranium-233/234	9	0.47	0.68	0.75	0.728	0.8	0.9
Uranium-234	2	0.76	0.767	0.775	0.775	0.782	0.79
Uranium-235	11	0.021	0.0405	0.053	0.0594	0.07	0.13
Uranium-238	11	0.57	0.615	0.66	0.719	0.815	0.94

KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-1

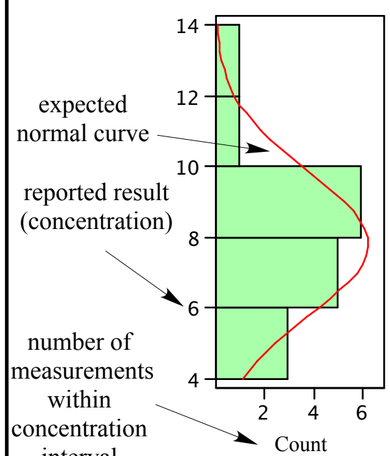
Example Figures From Appendix



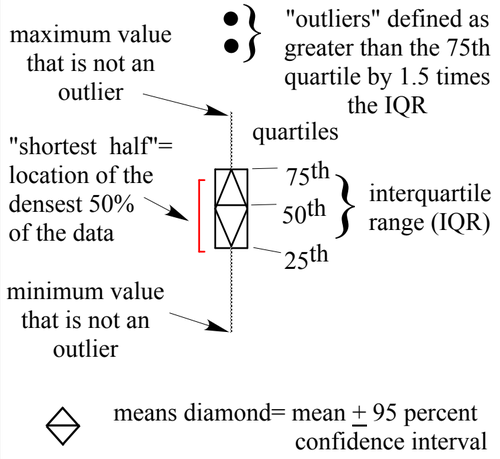


Keys to Individual Figure Panels

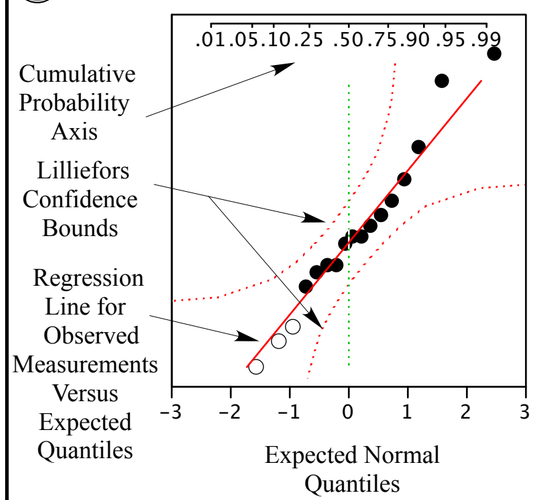
1 Frequency Histogram



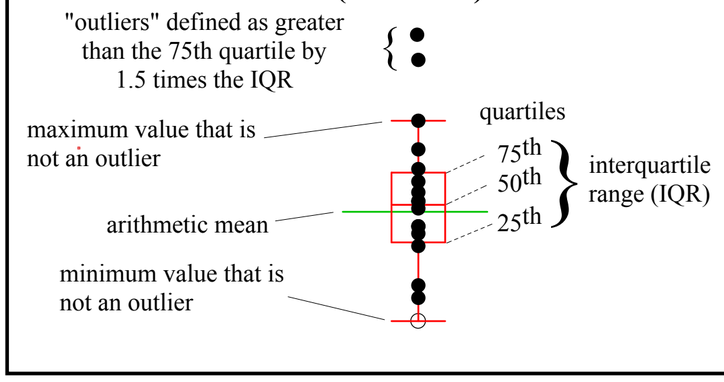
2 Outlier Box-Plot (Format 1)



3 Normal Quantile Plot



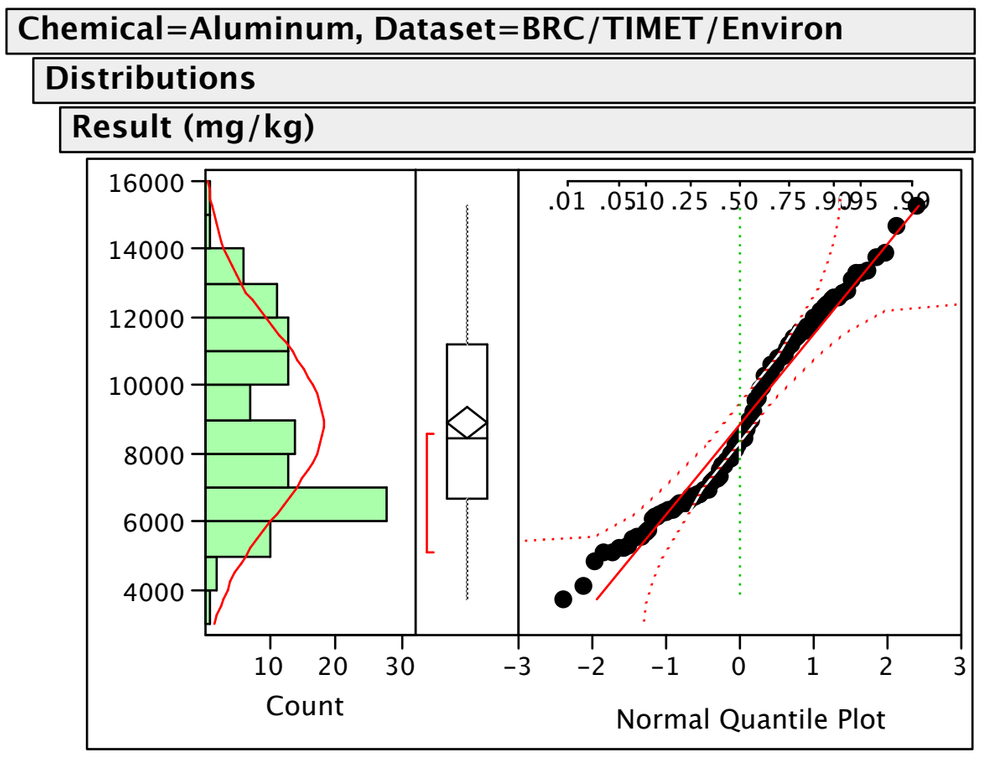
Outlier Box-Plot (Format 2)

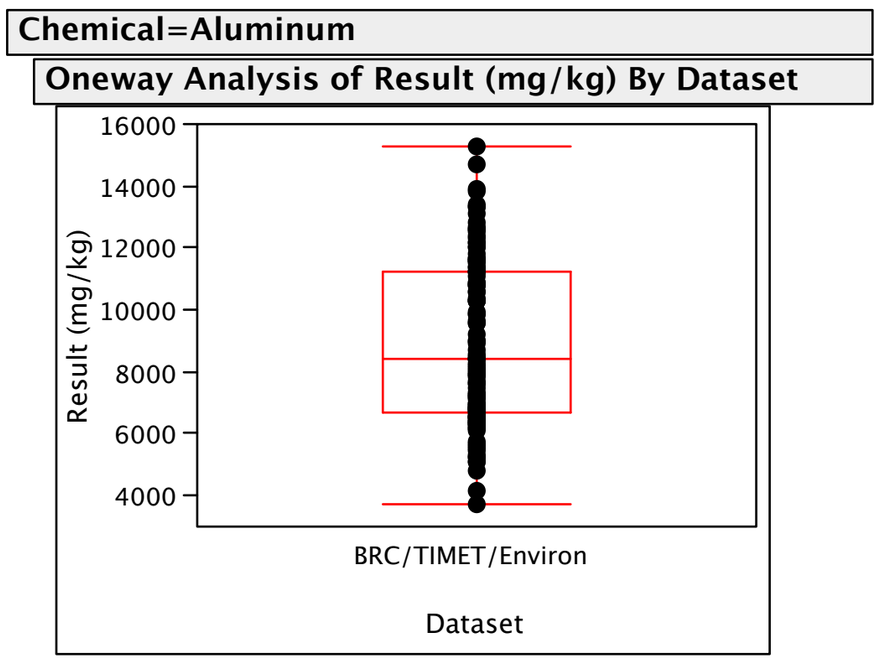


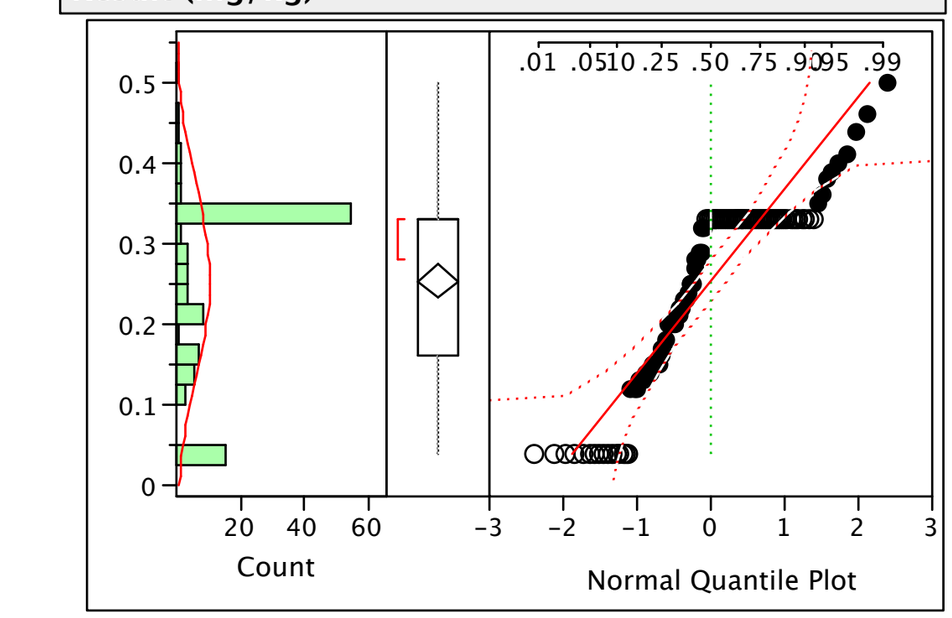
- ● detected result
- ○ censored result

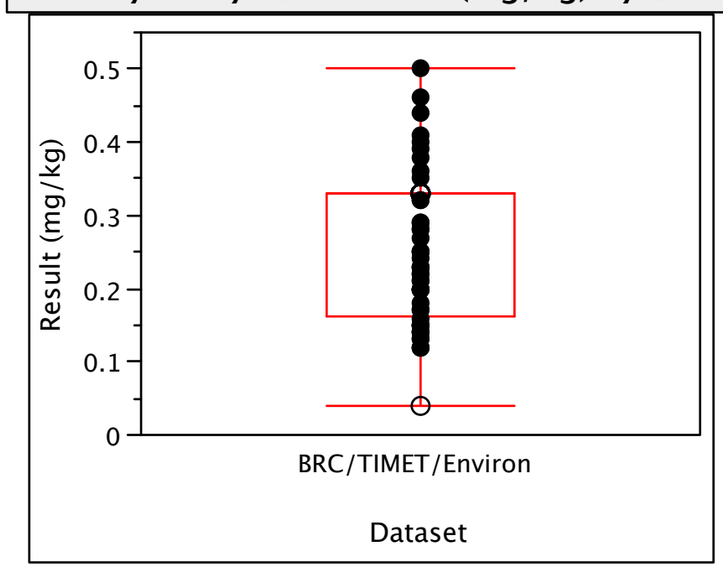
FIGURE G-1

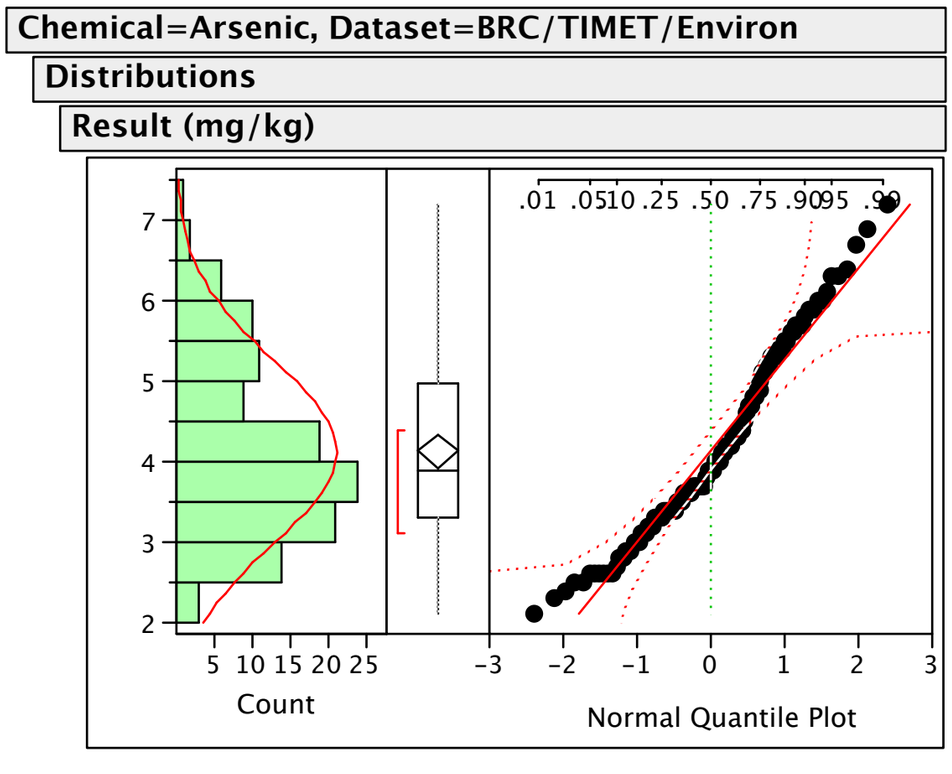
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











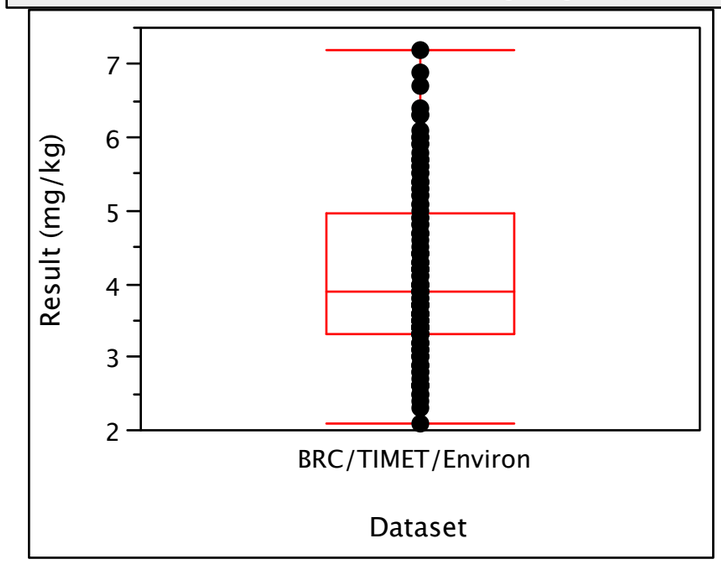
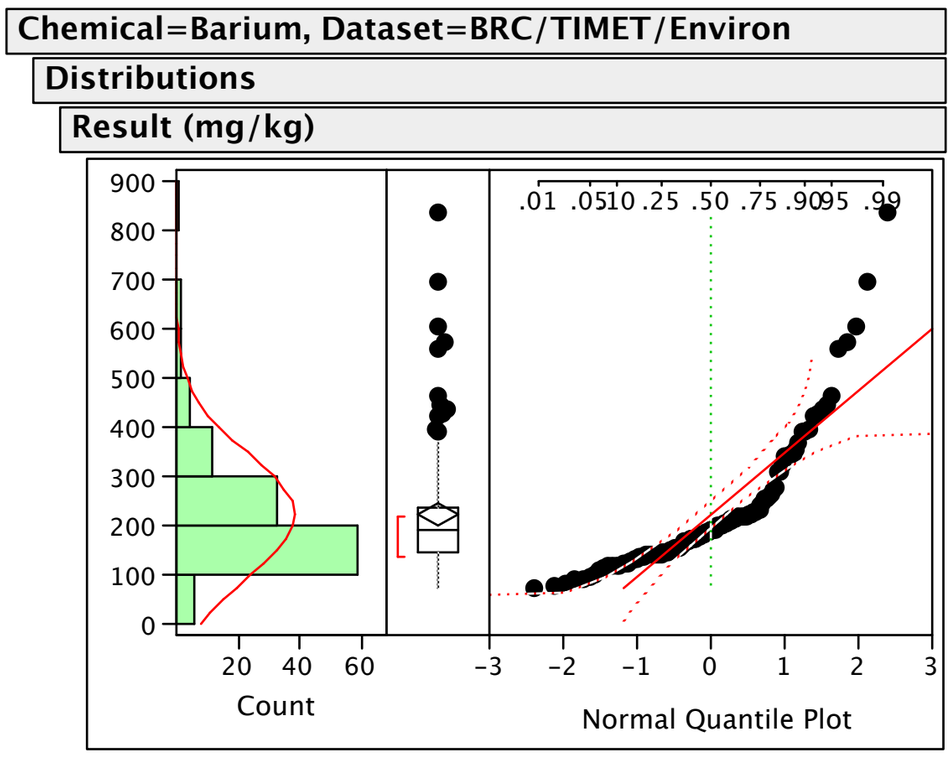
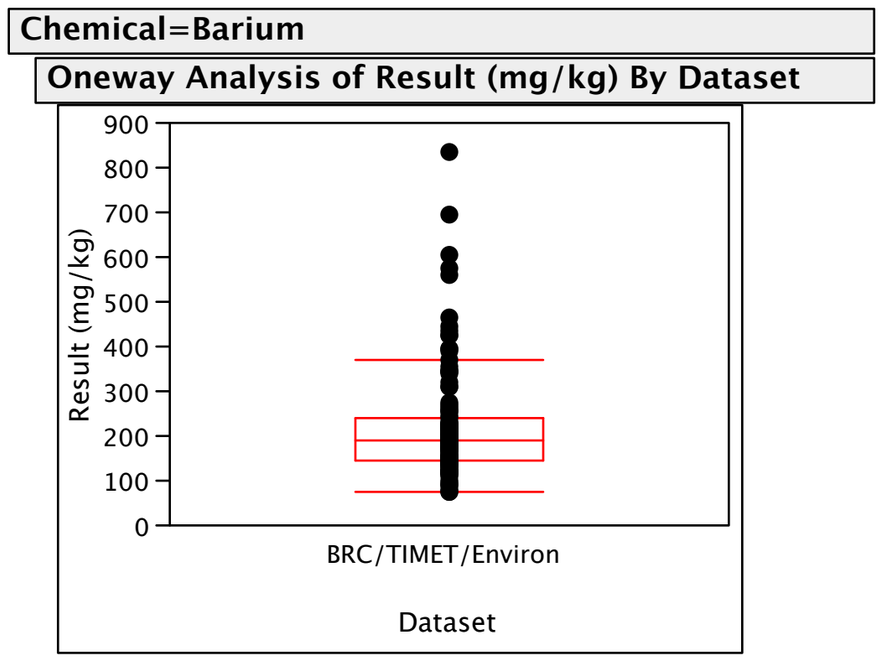
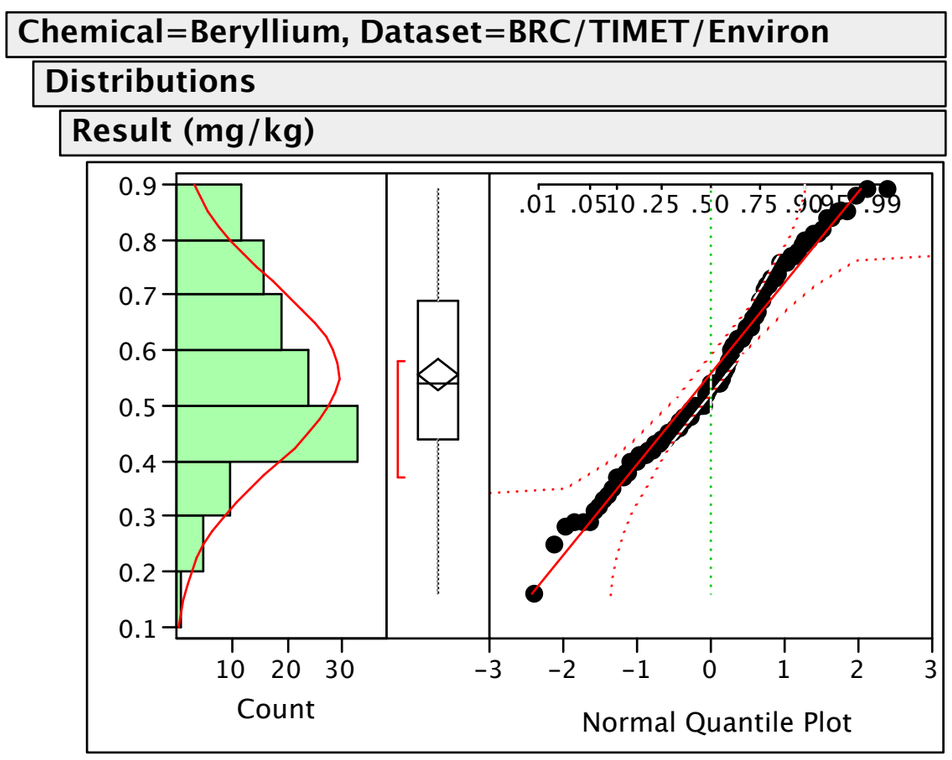


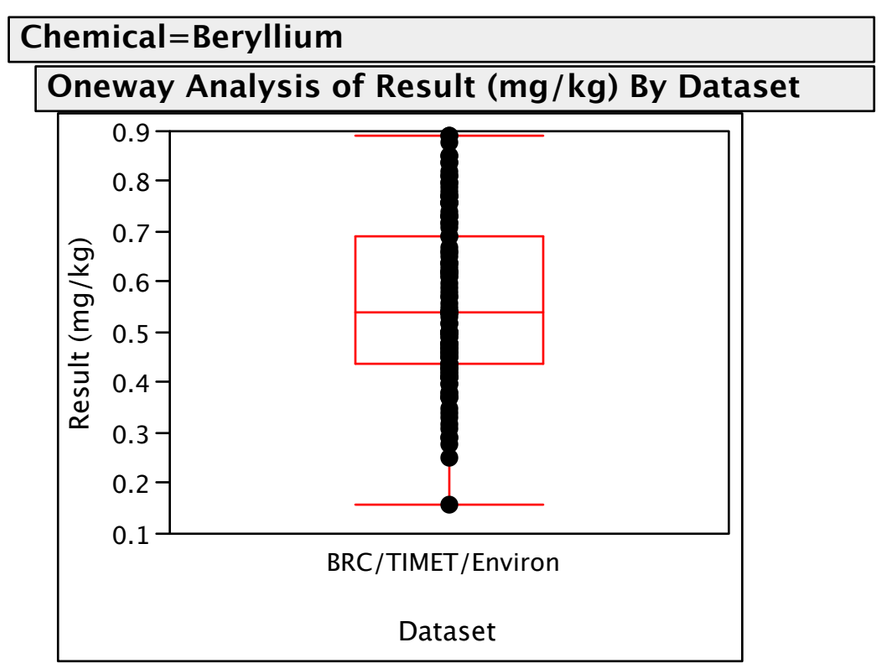
FIGURE G-1 (Continued)

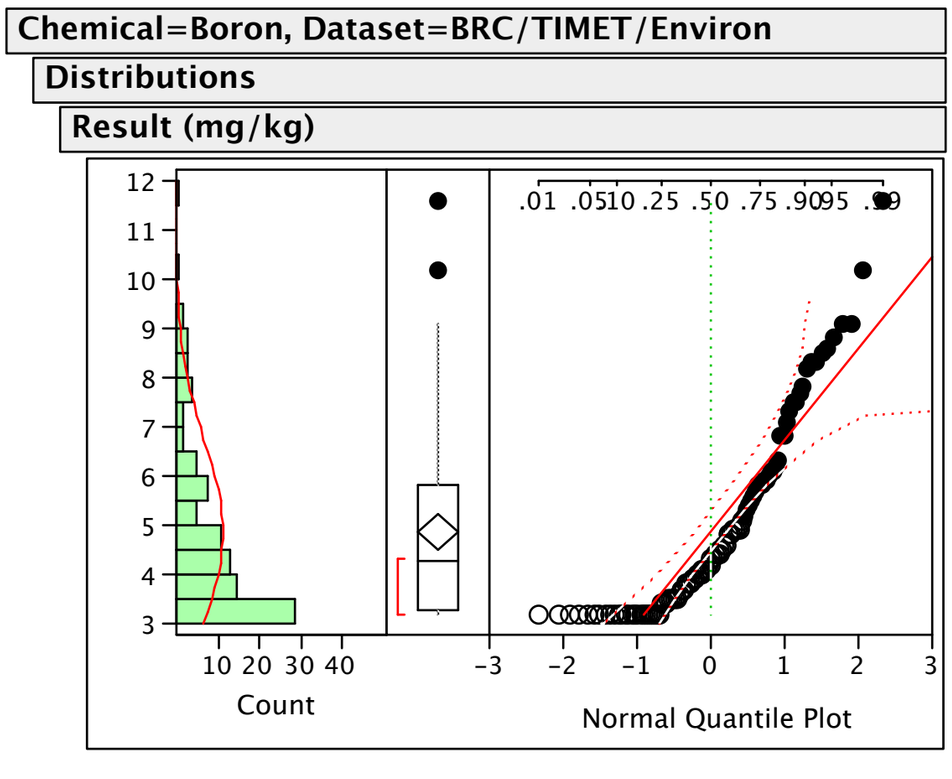
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











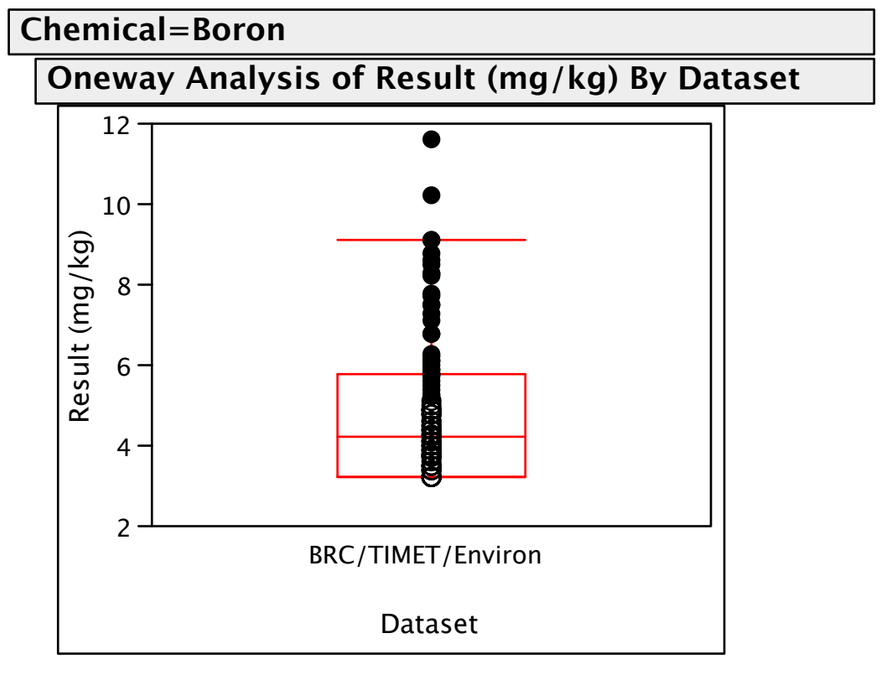
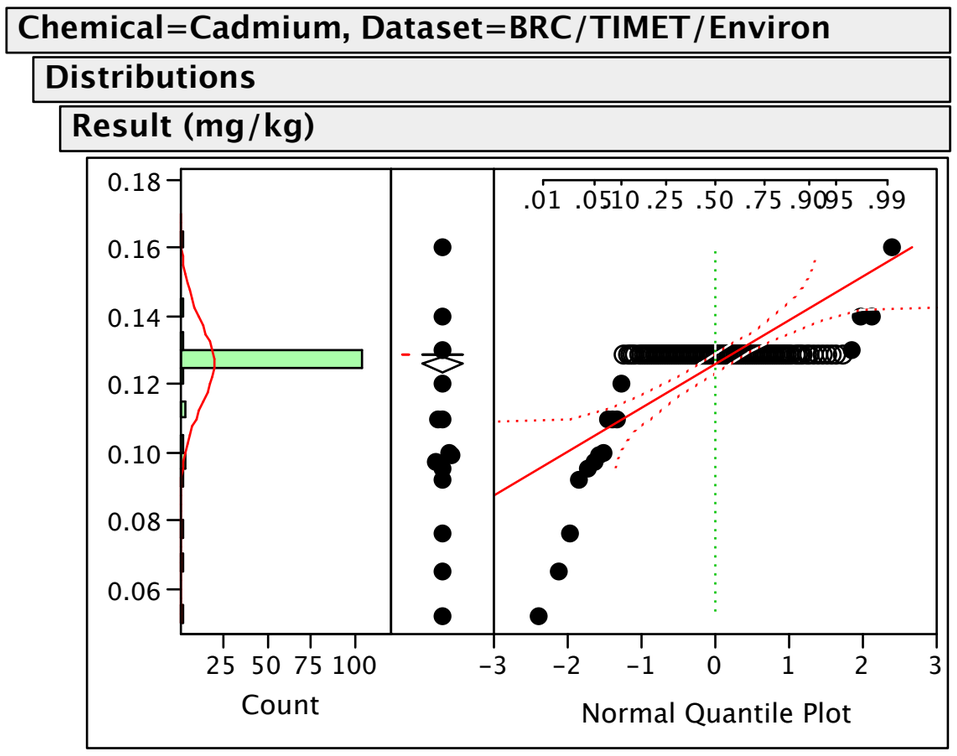
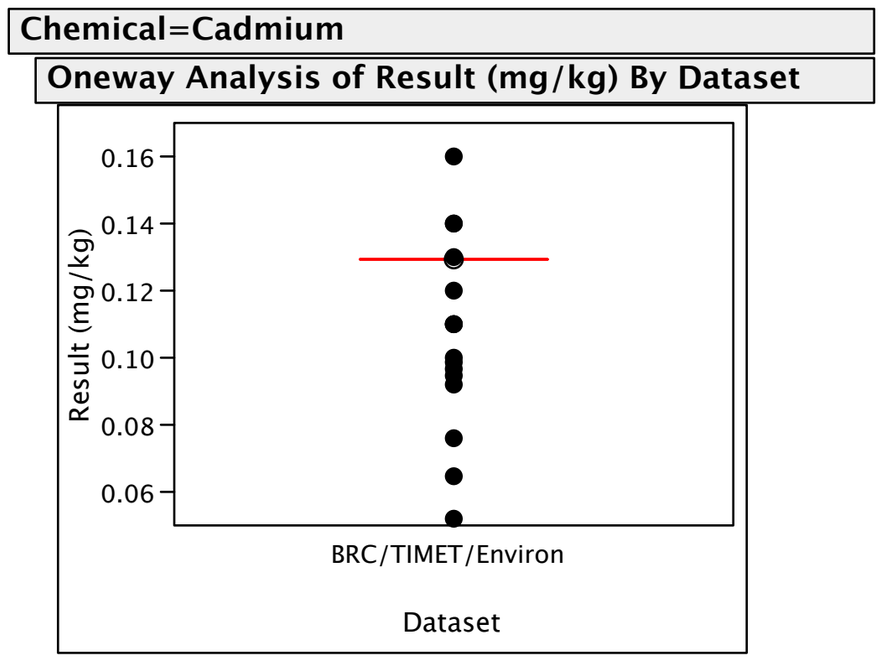
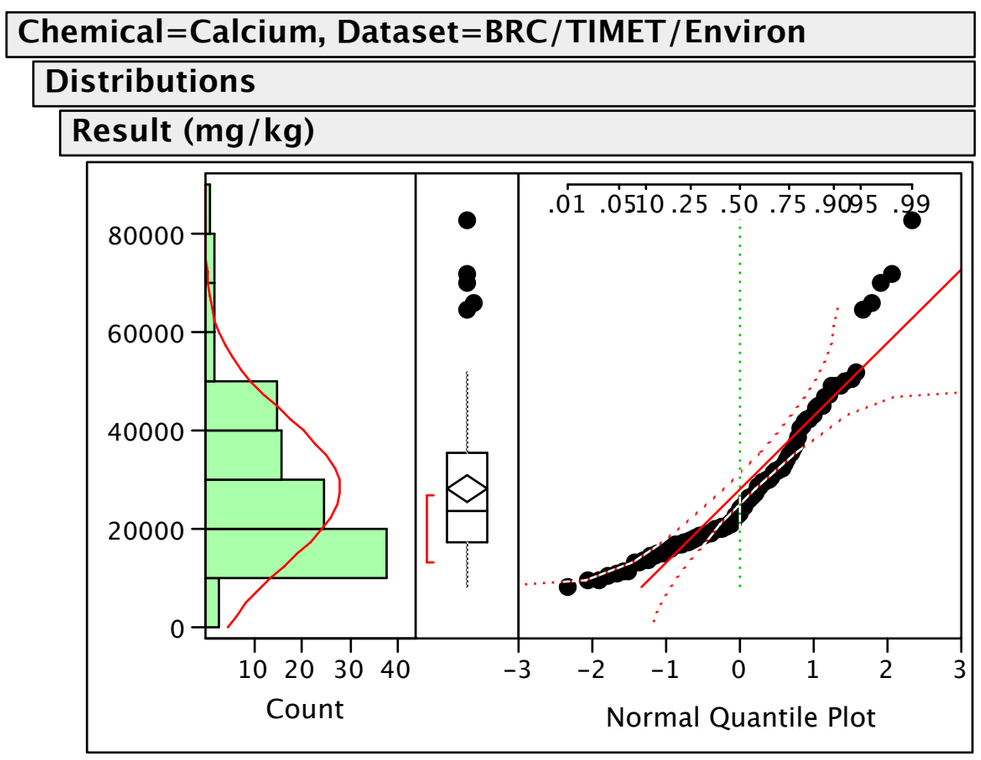


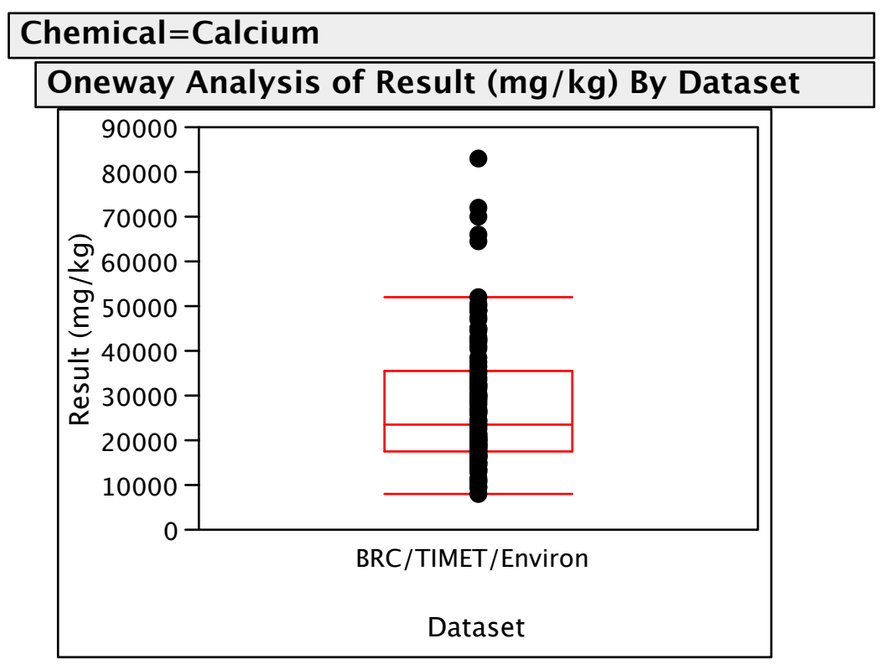
FIGURE G-1 (Continued)

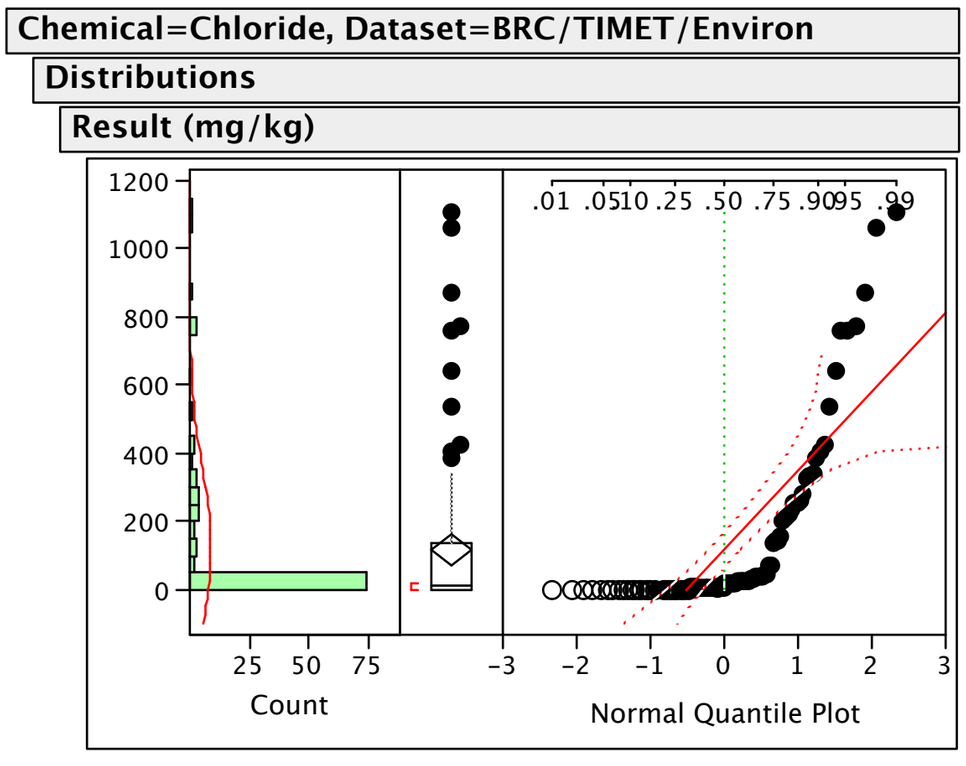
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











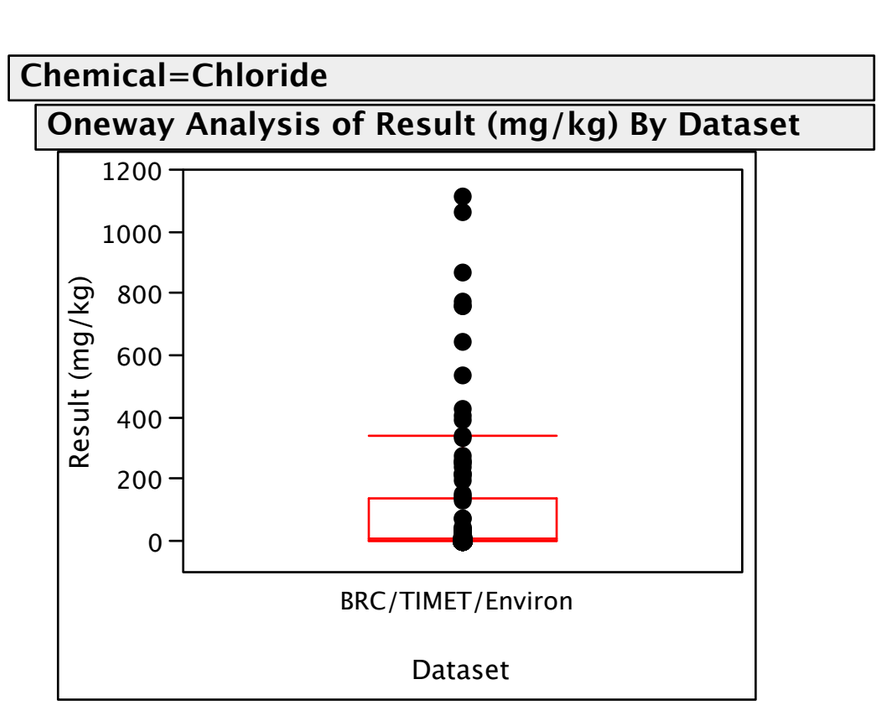
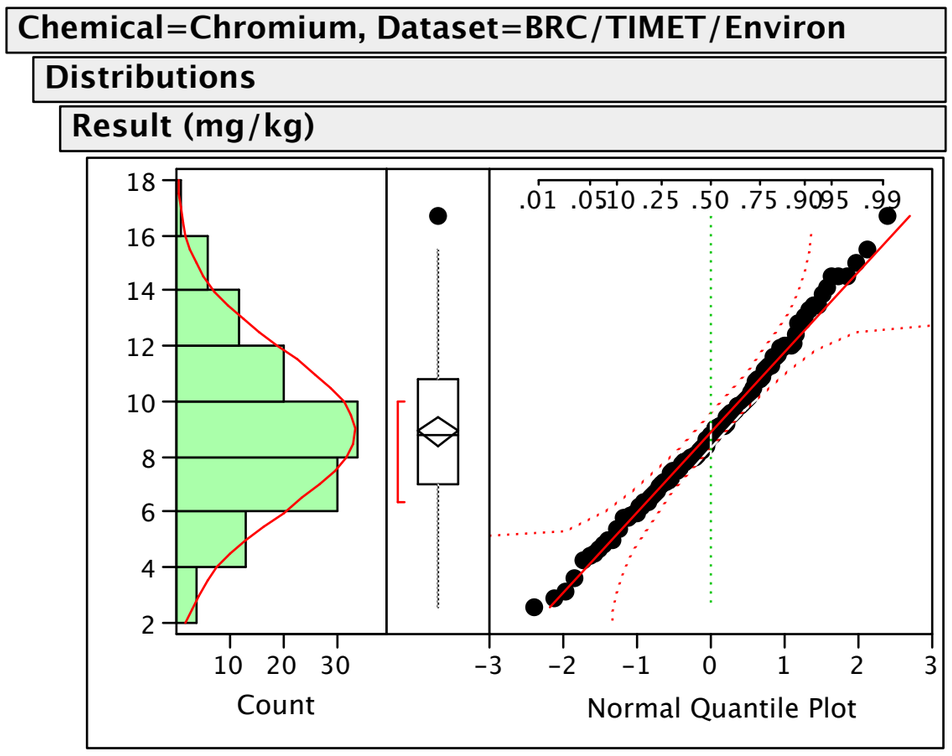
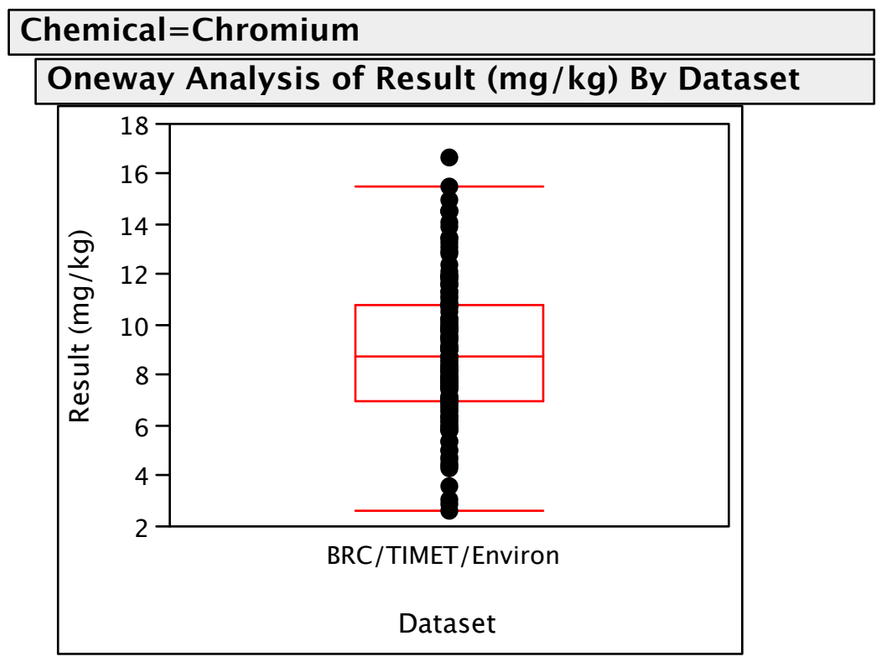
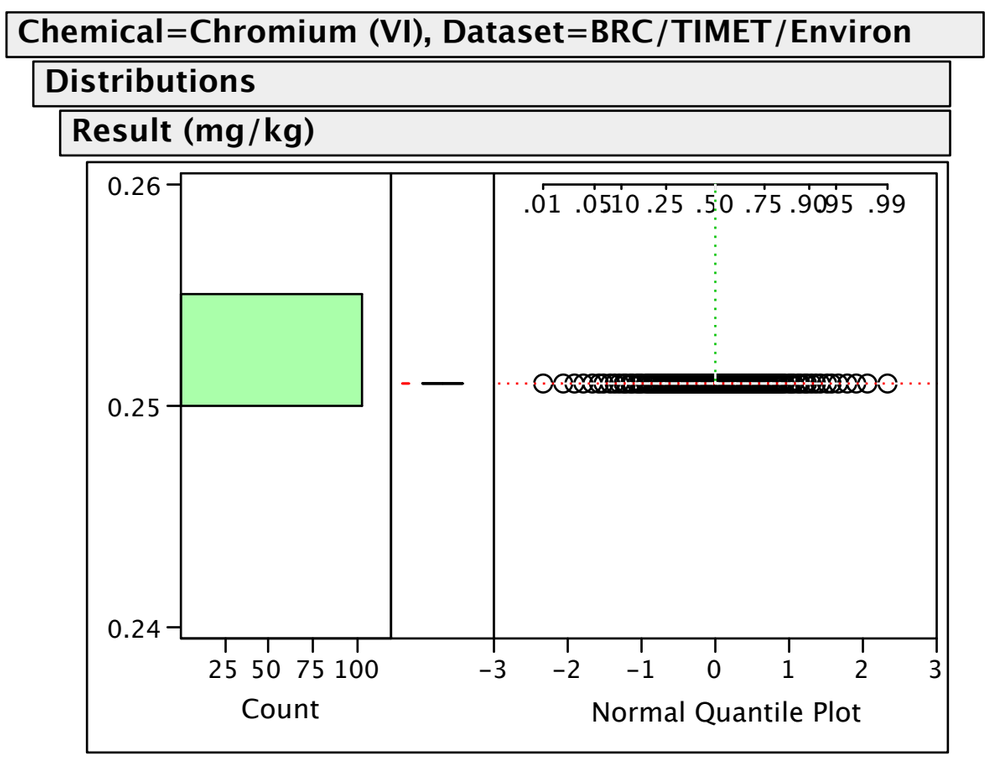


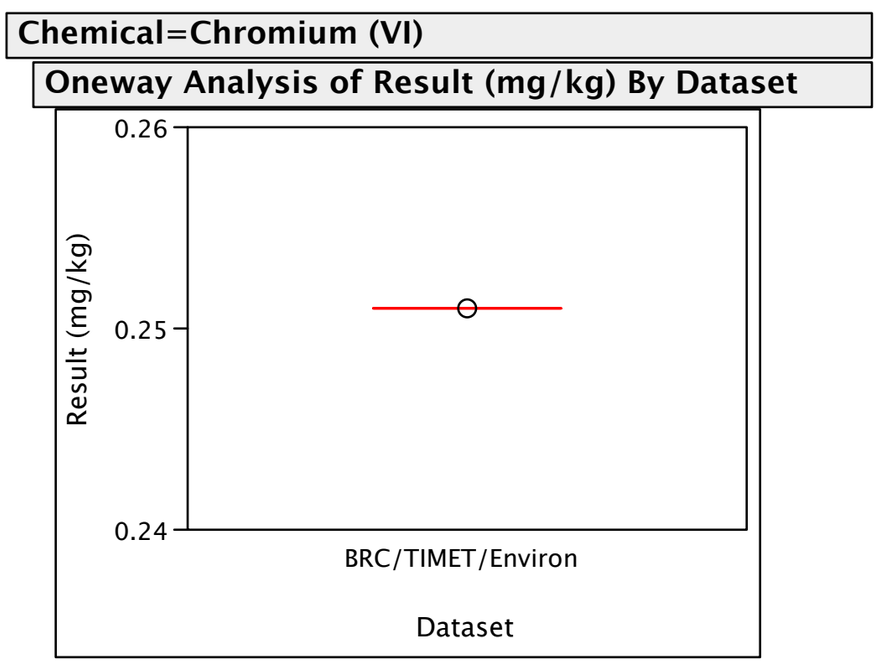
FIGURE G-1 (Continued)

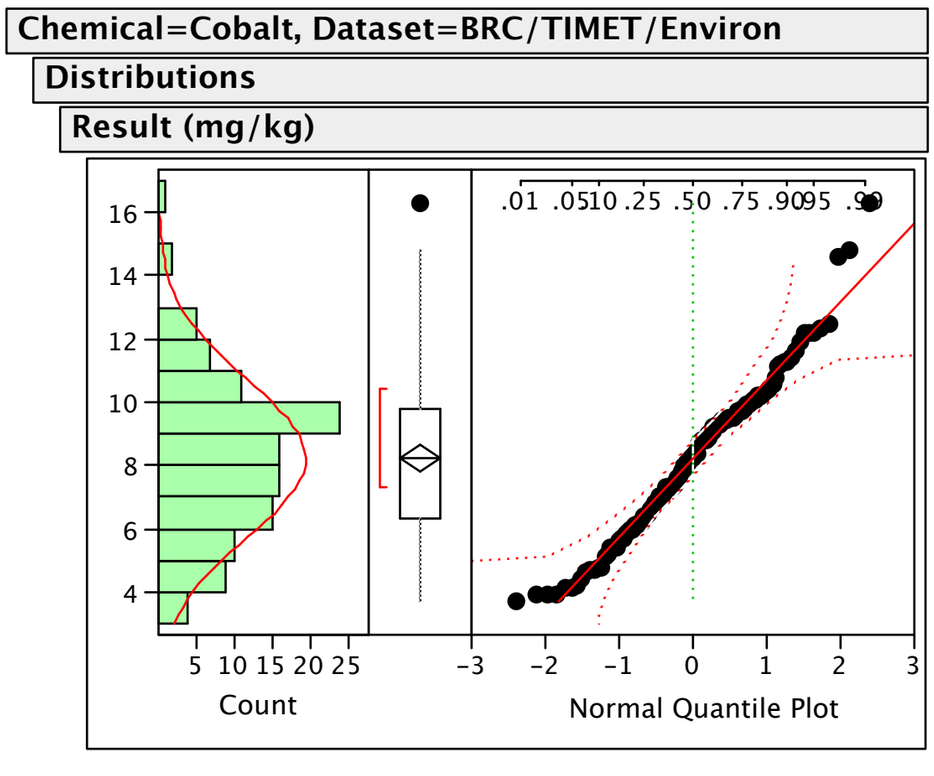
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











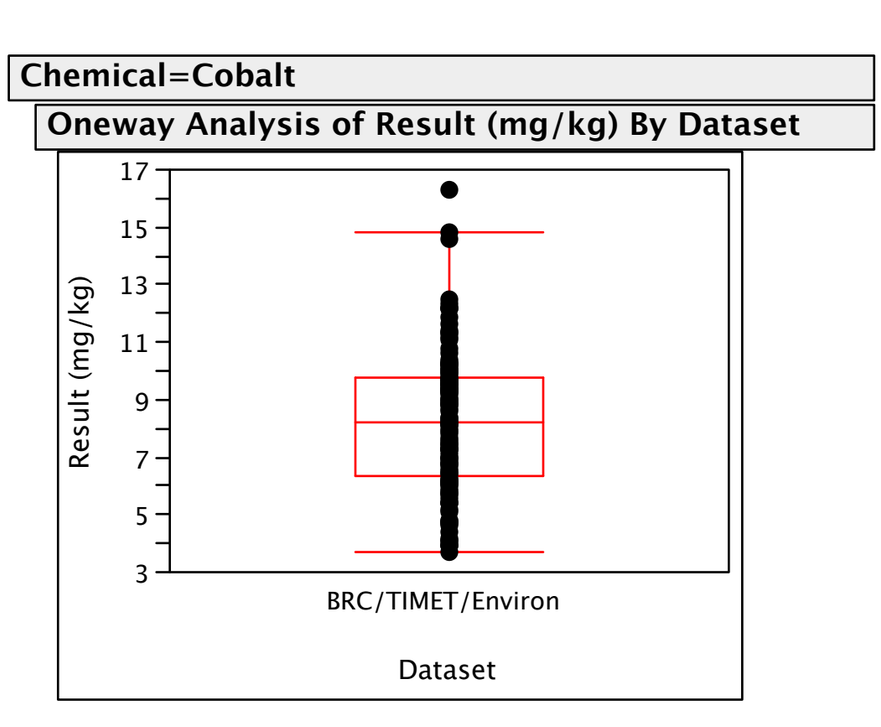
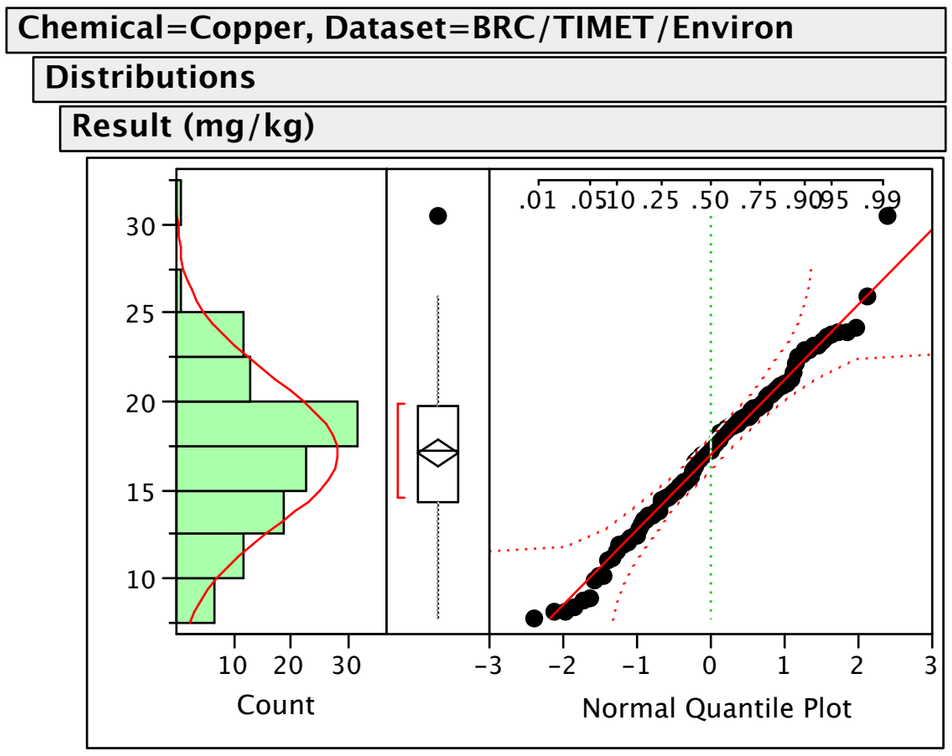
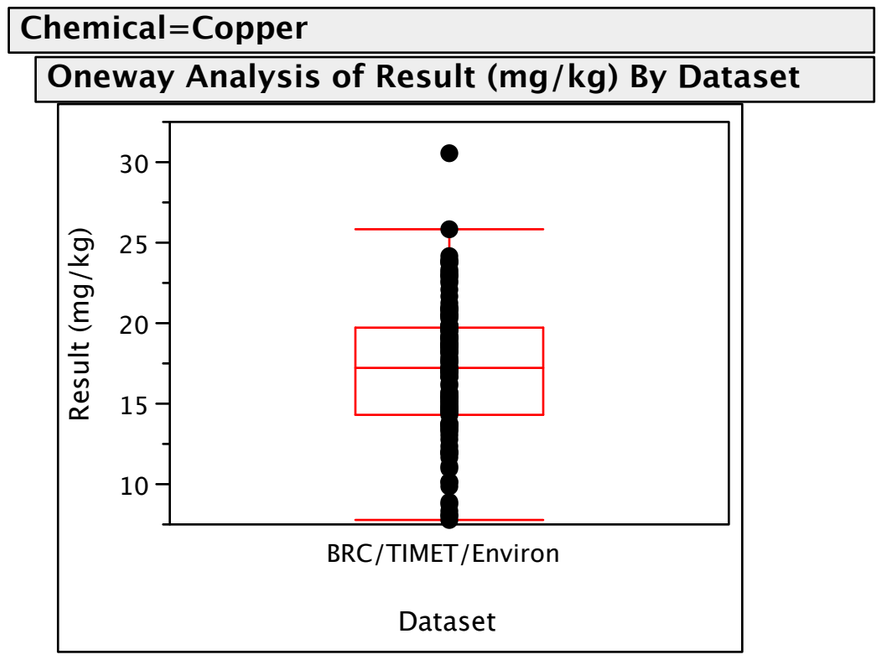
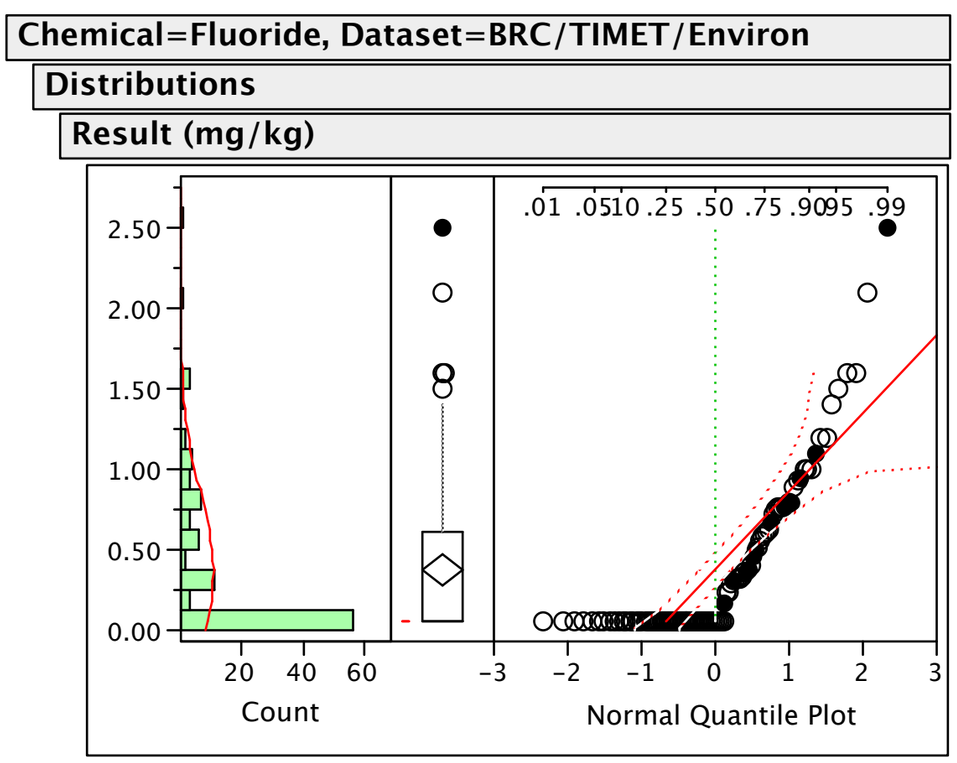


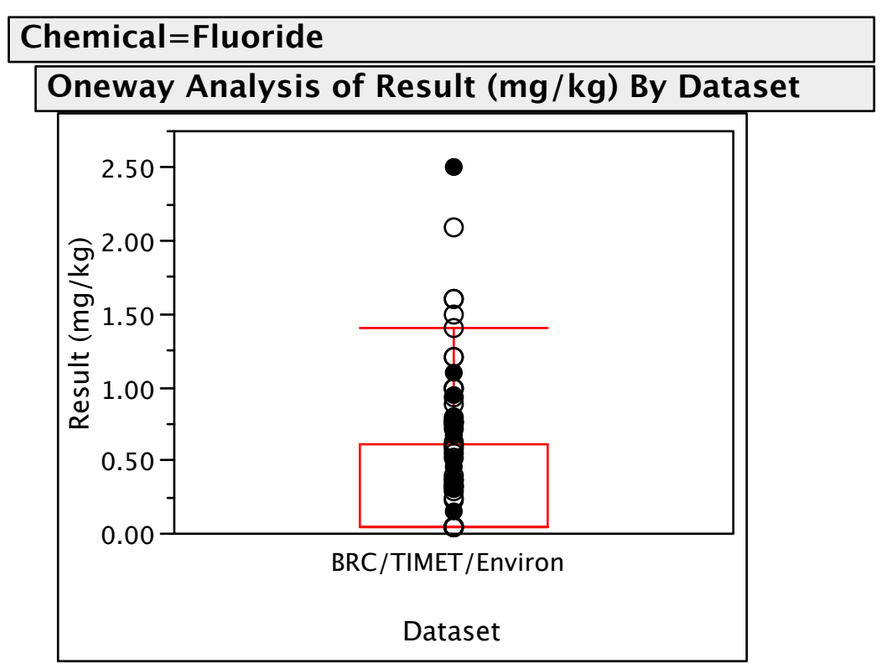
FIGURE G-1 (Continued)

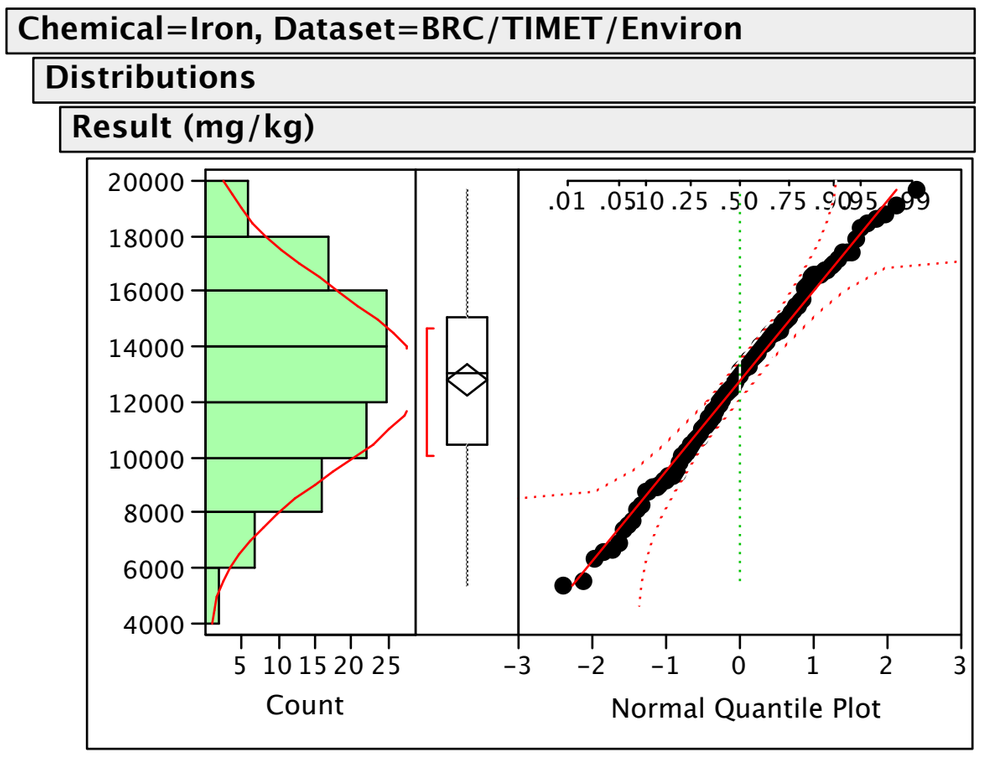
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











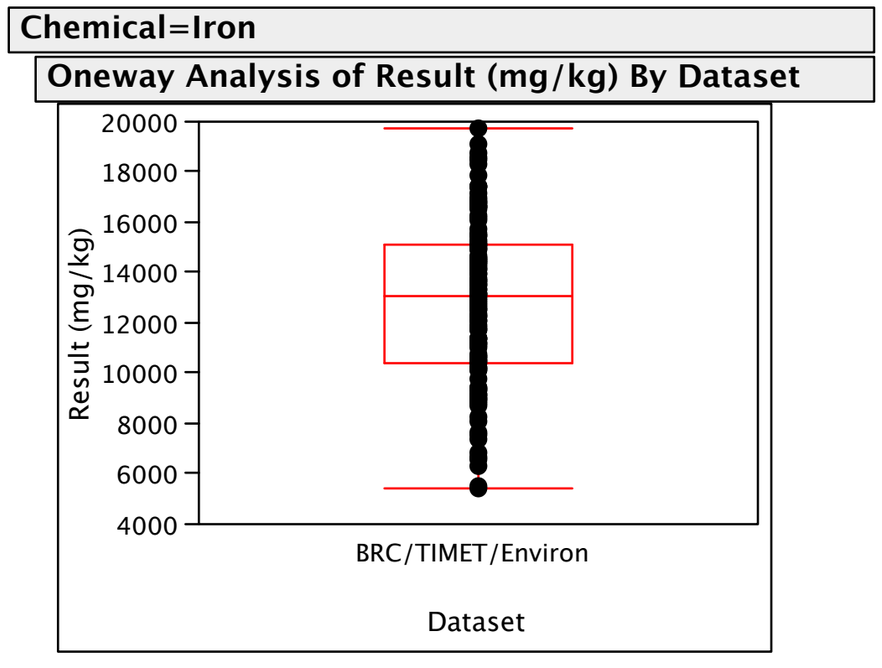
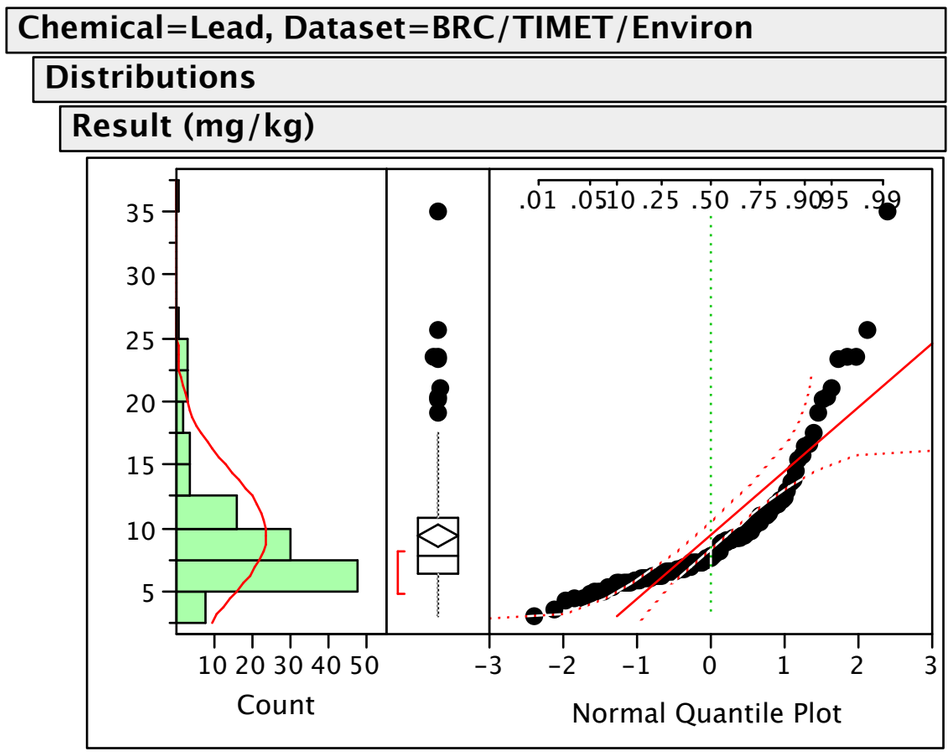
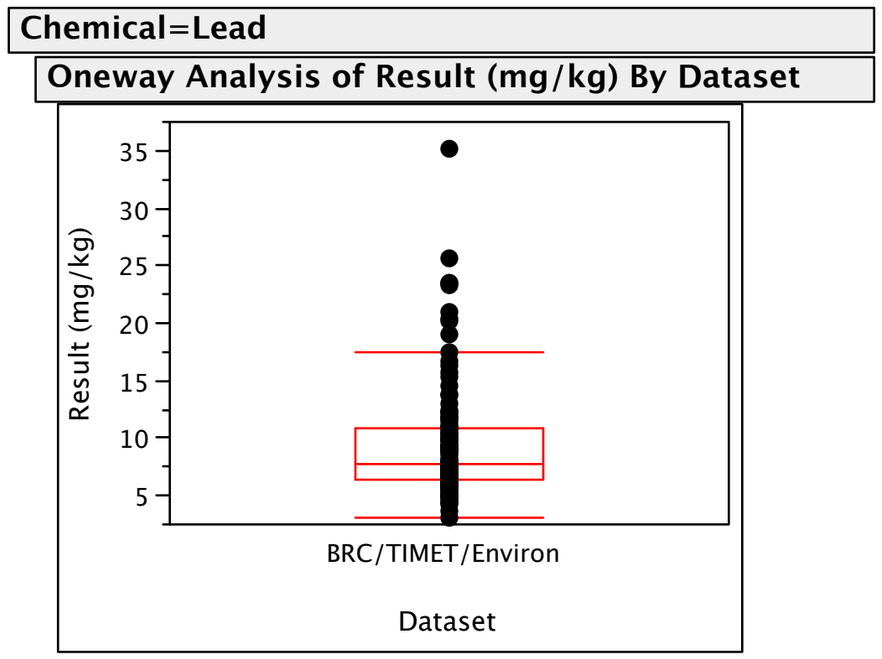
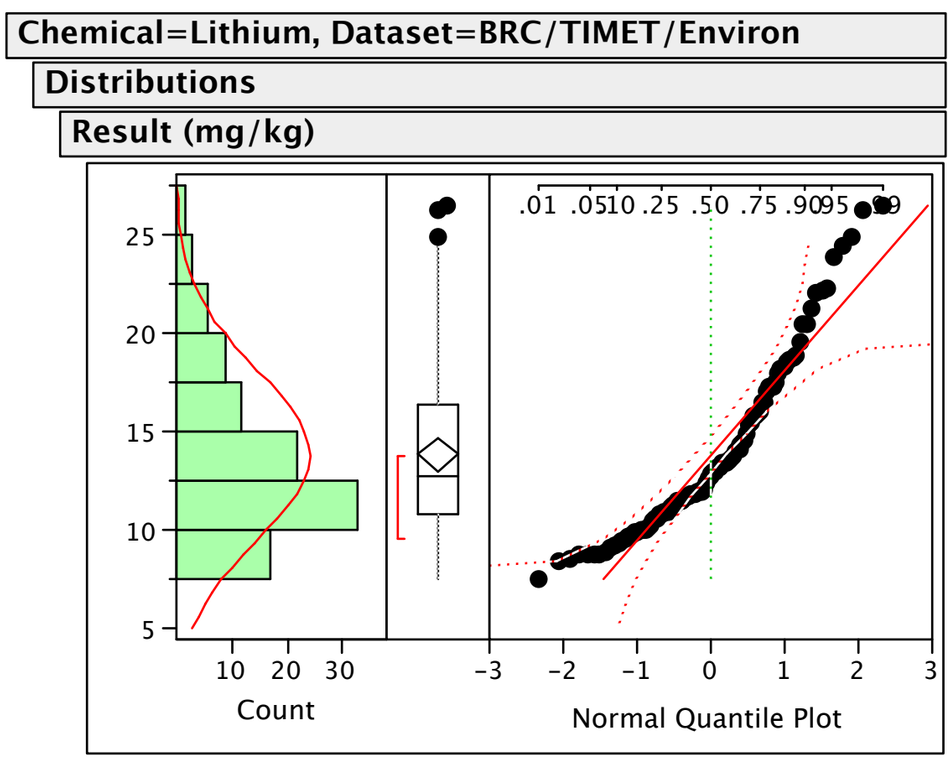


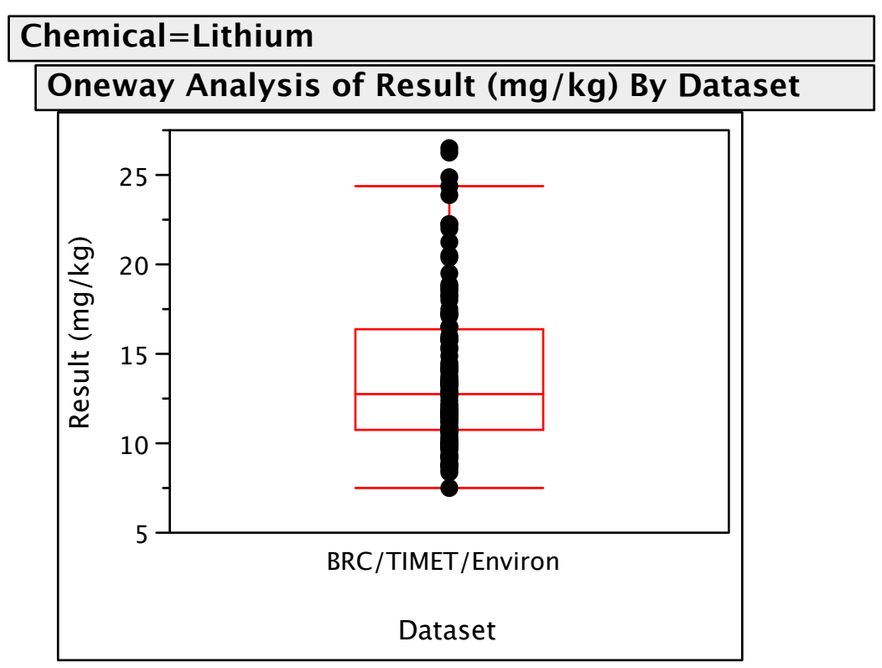
FIGURE G-1 (Continued)

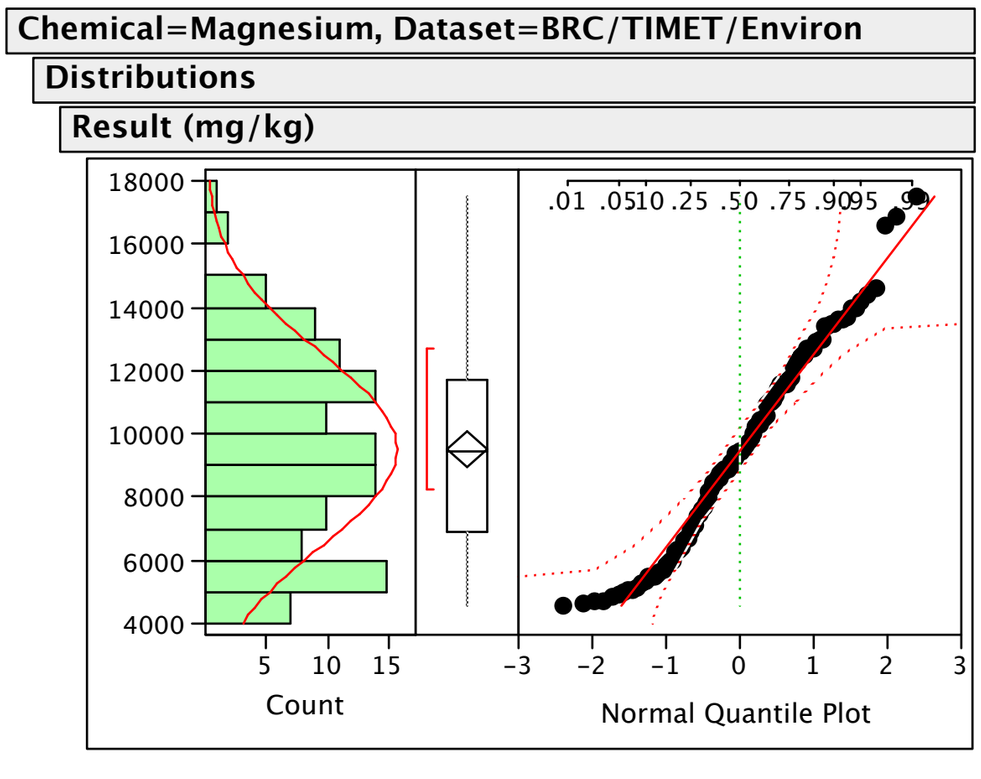
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











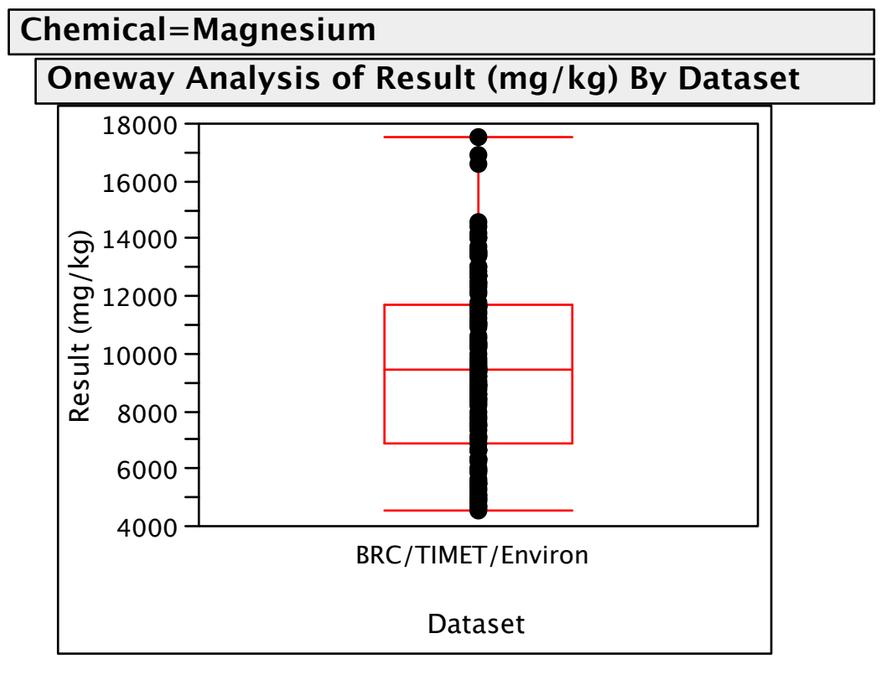
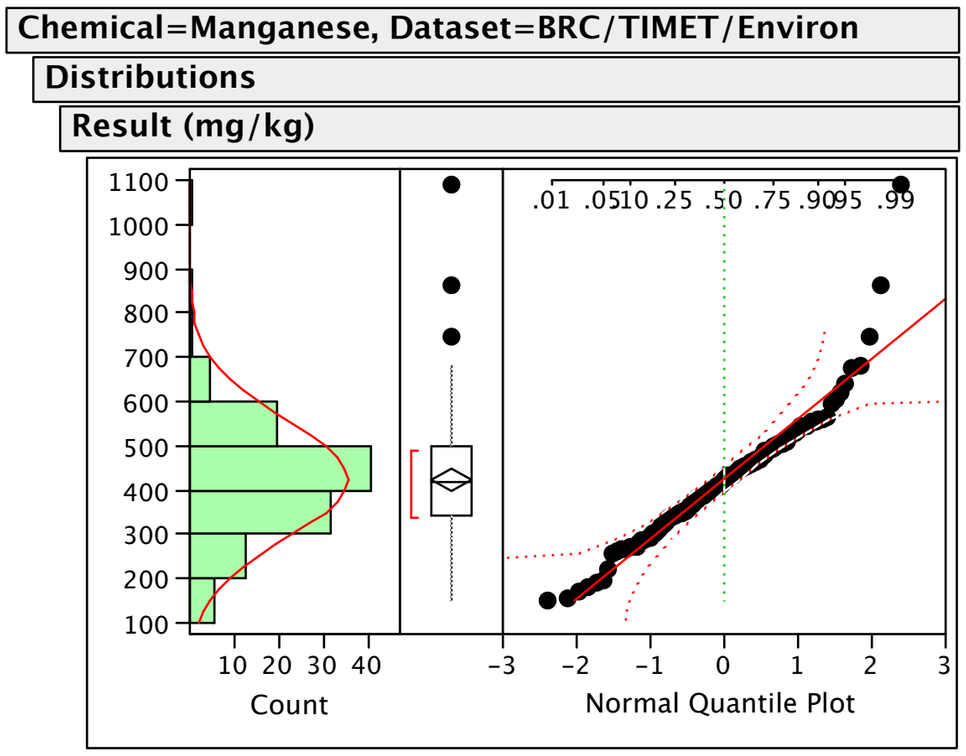
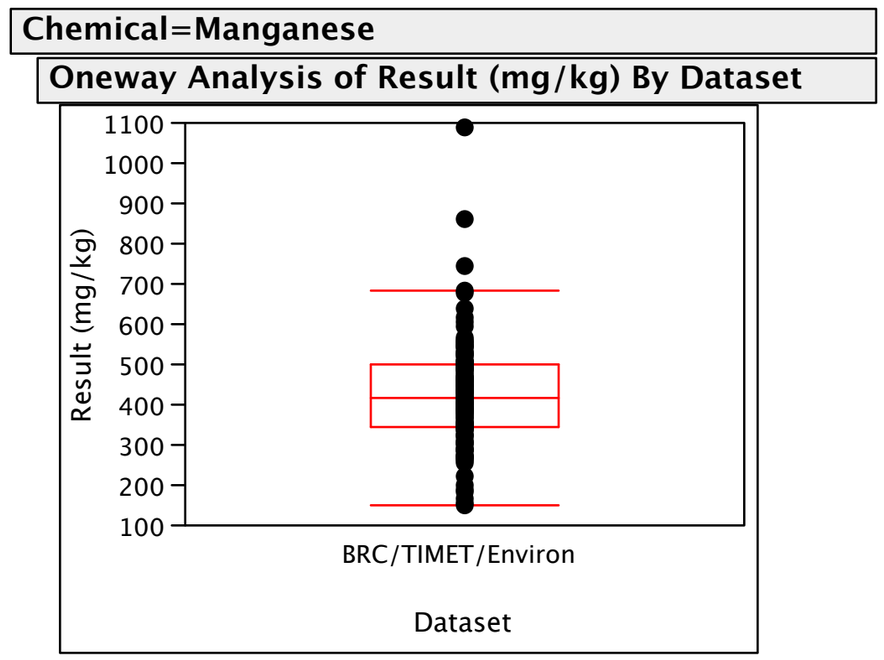
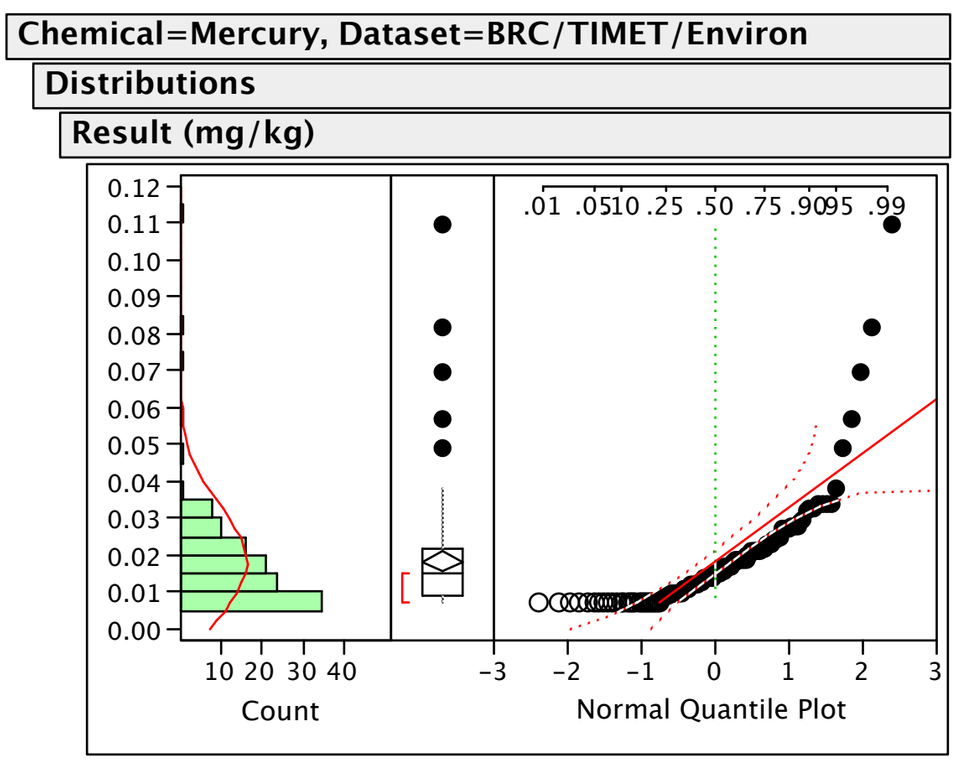


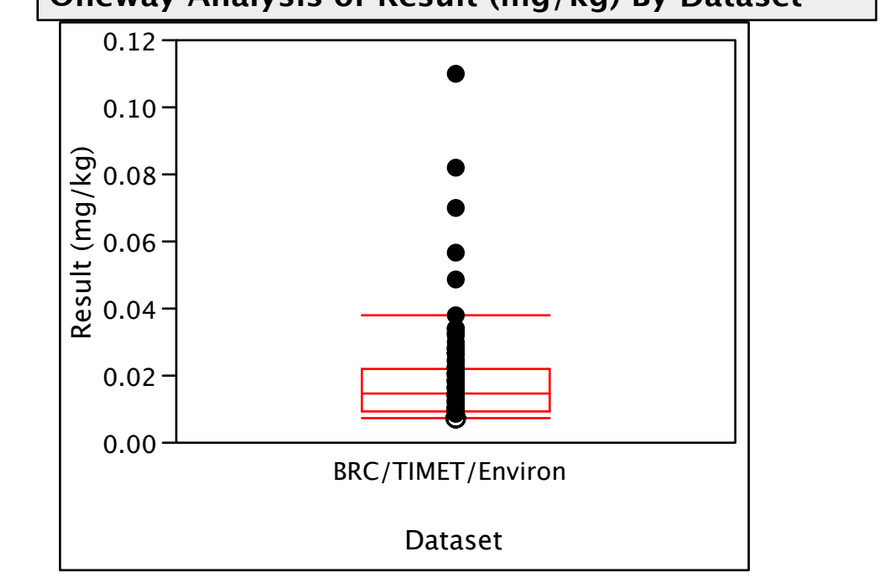
FIGURE G-1 (Continued)

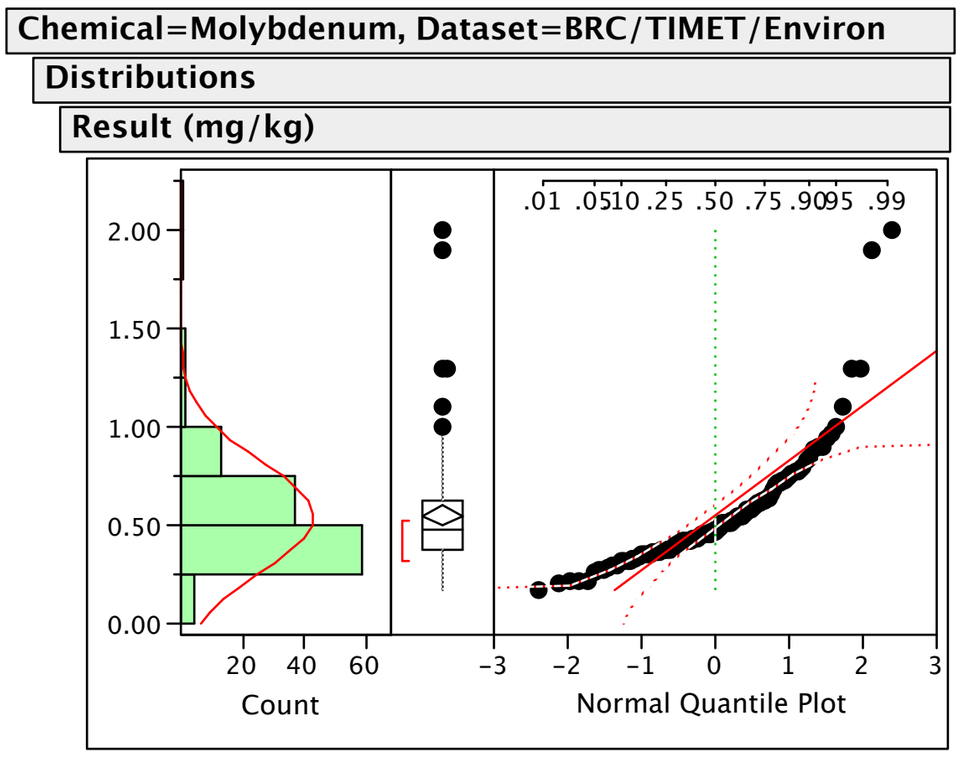
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











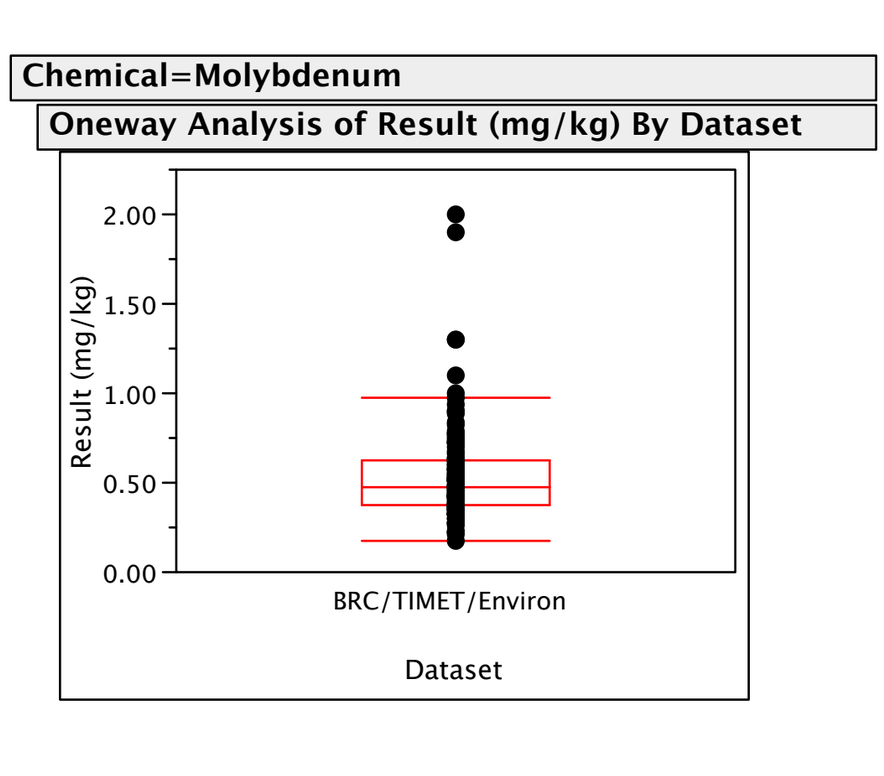
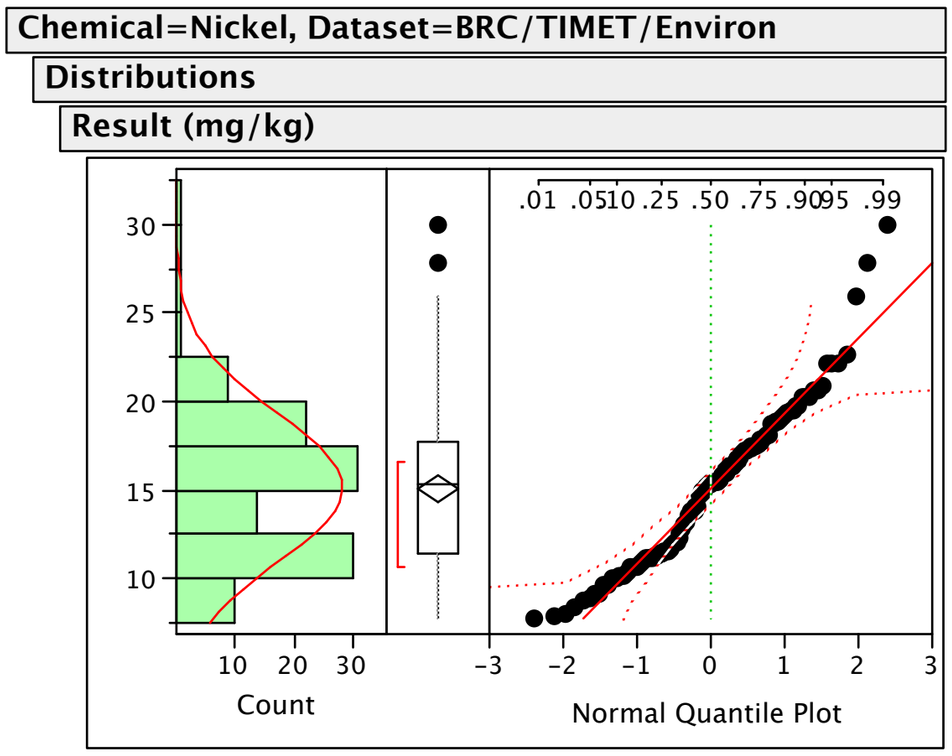
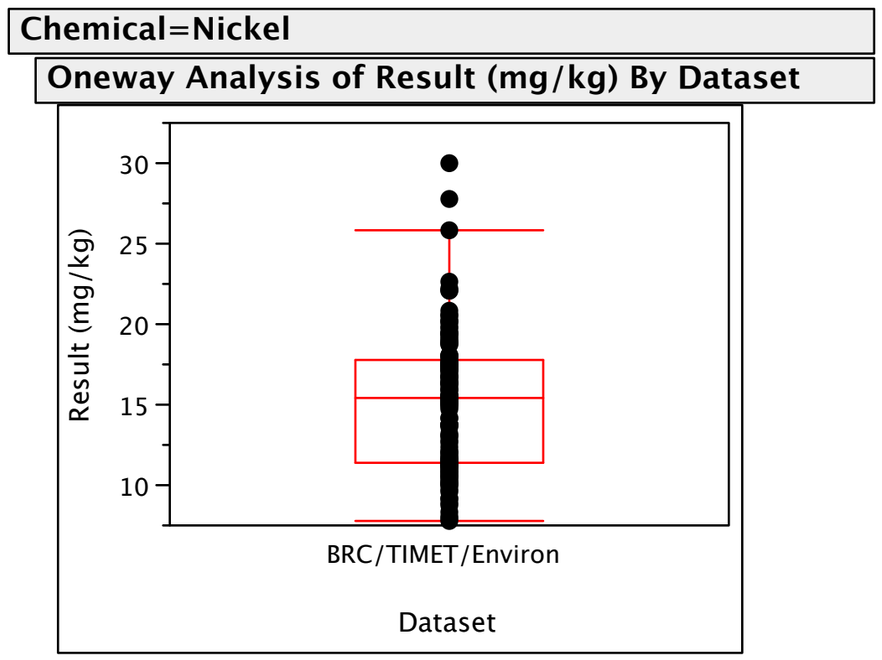
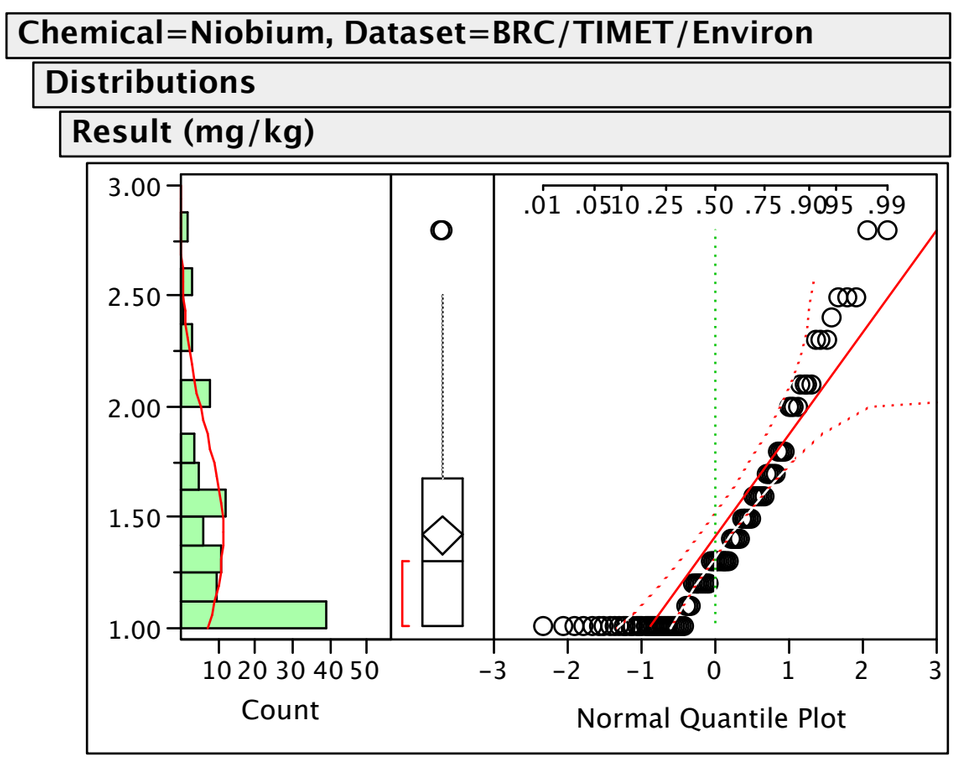


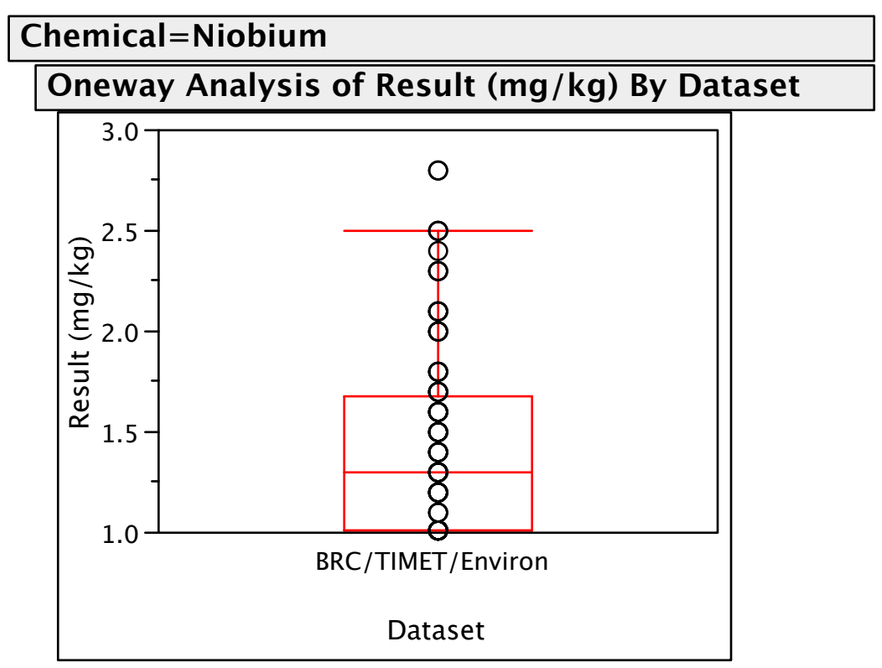
FIGURE G-1 (Continued)

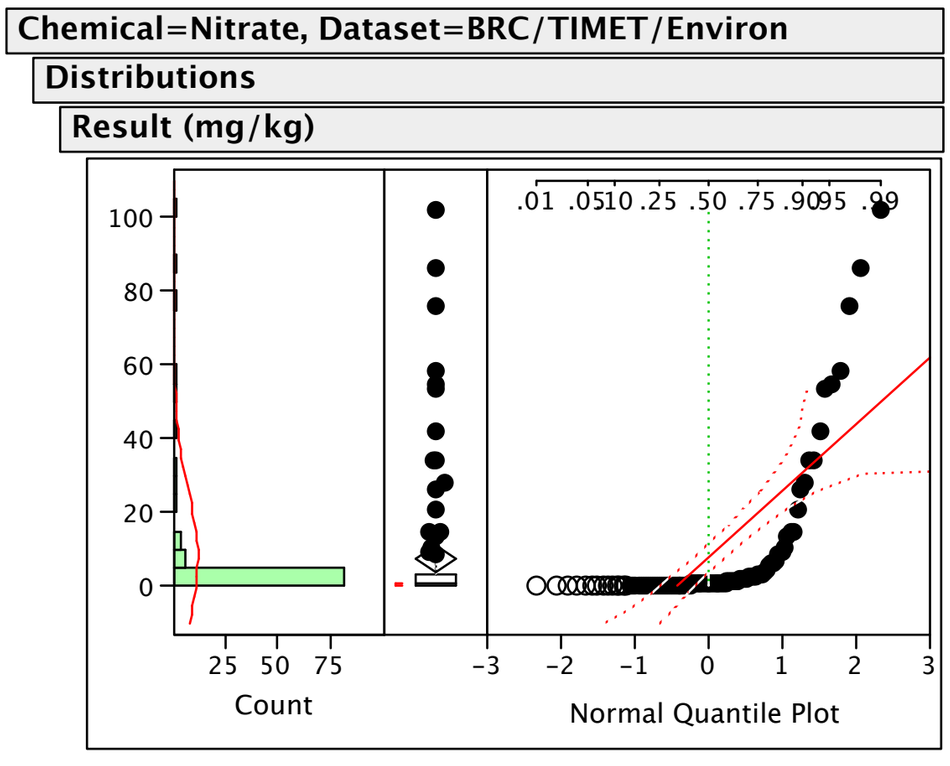
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











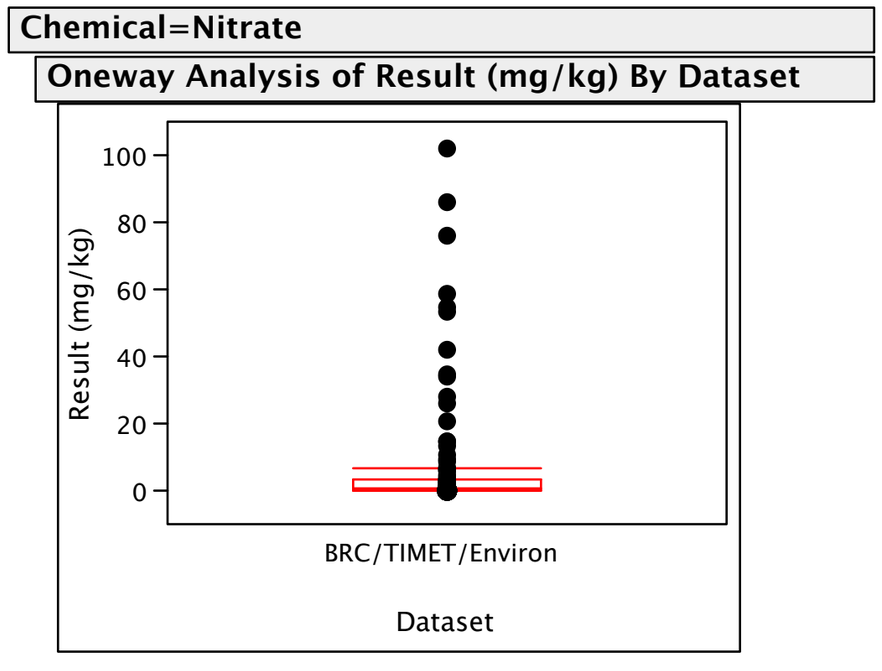
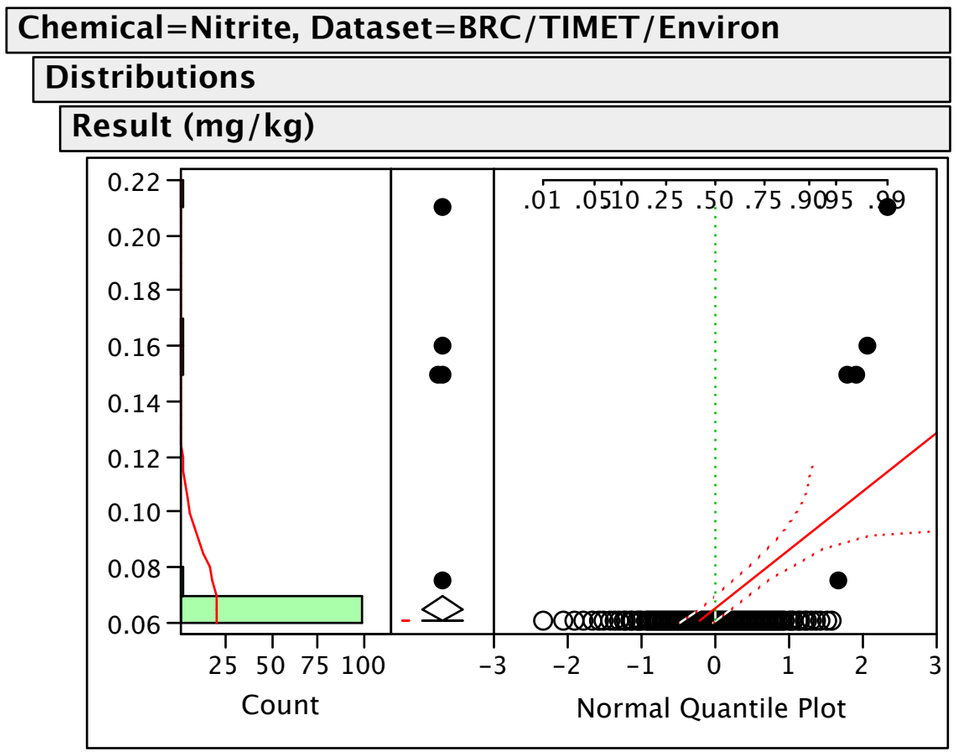
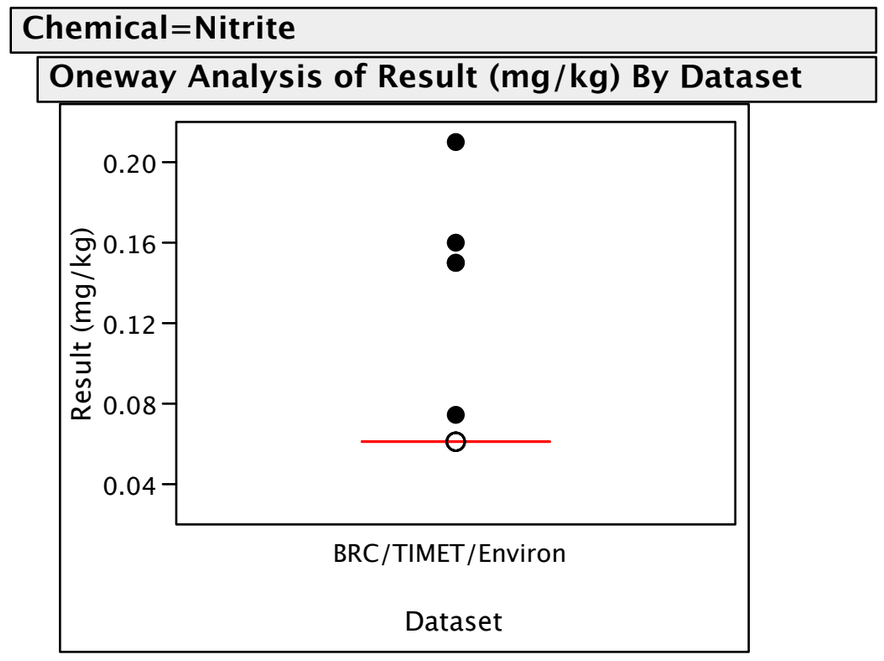
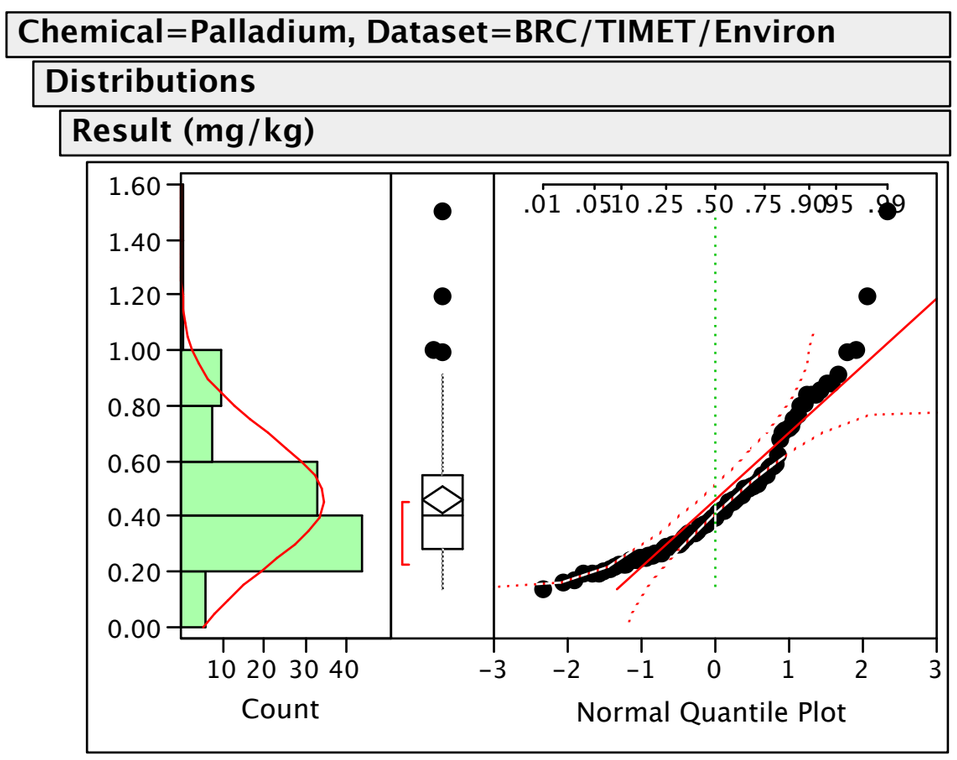


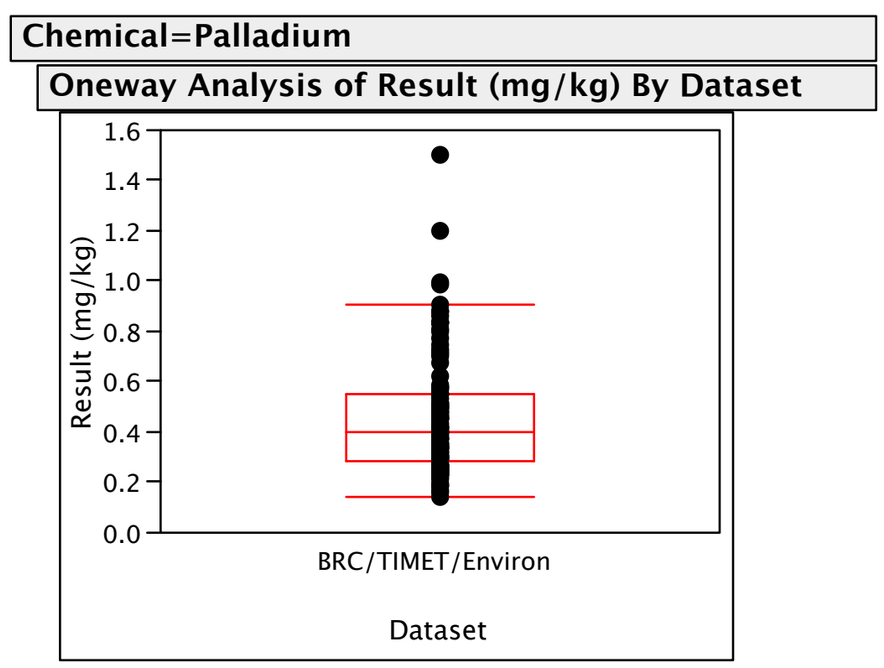
FIGURE G-1 (Continued)

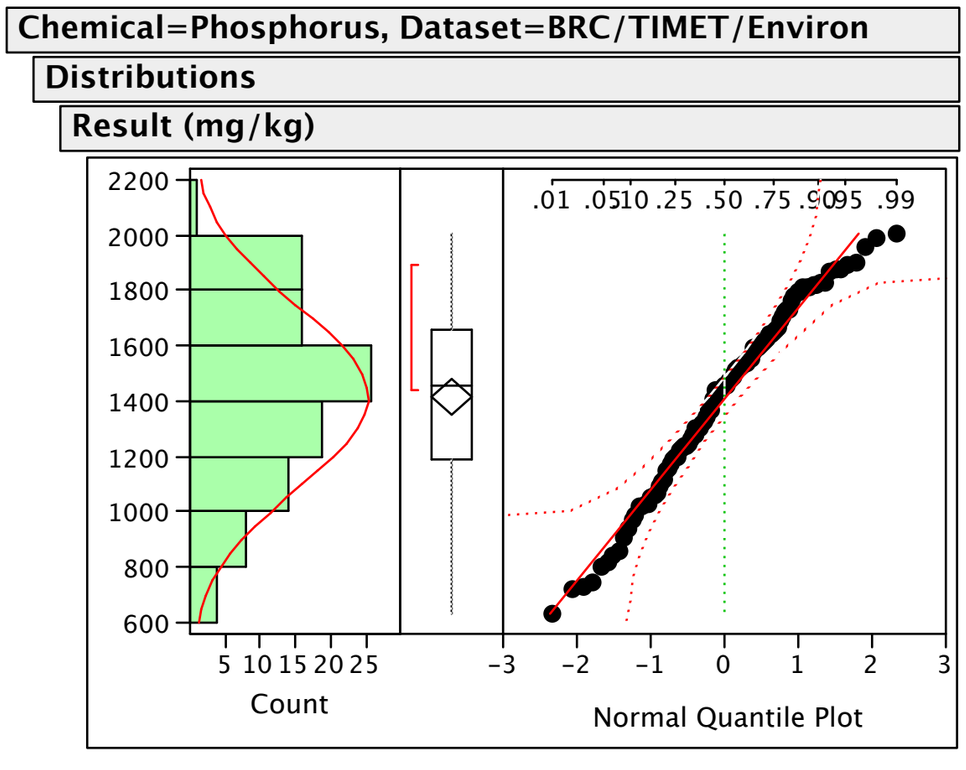
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











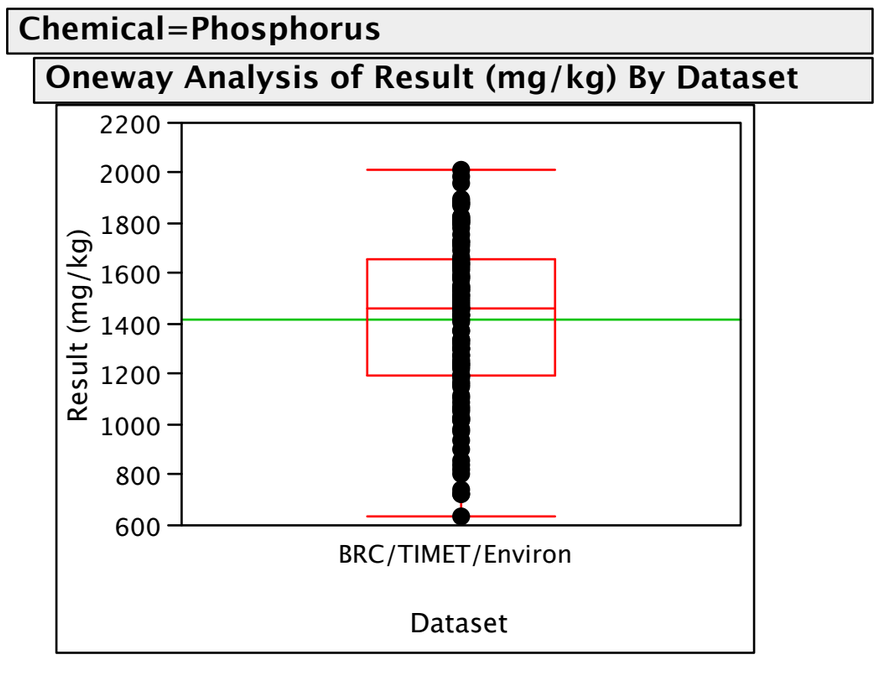
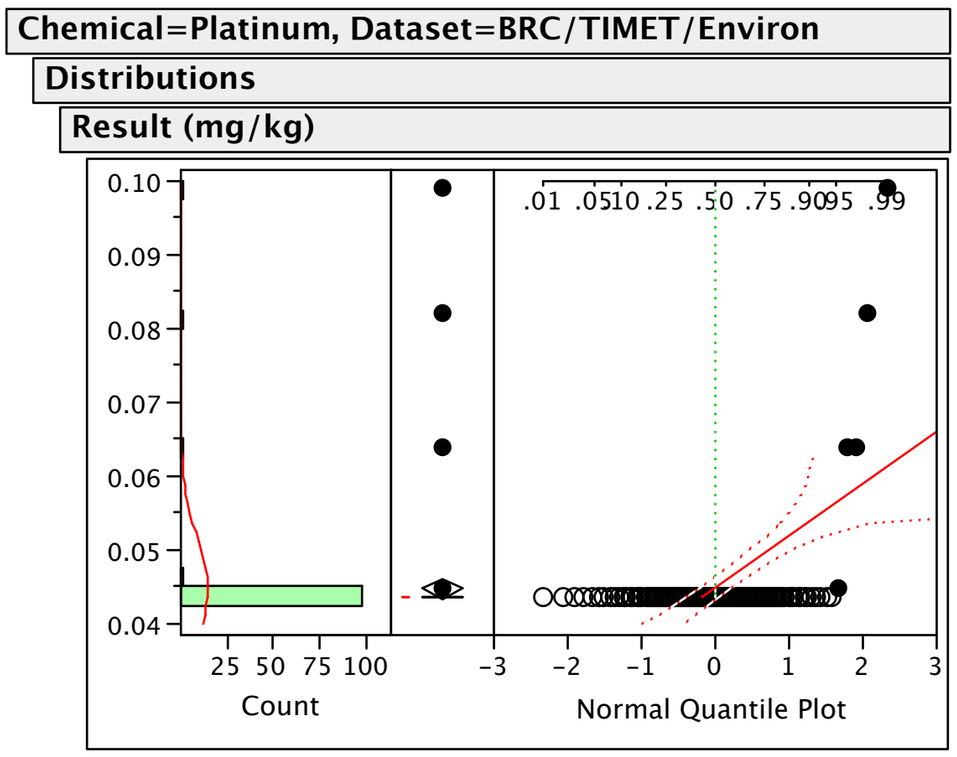
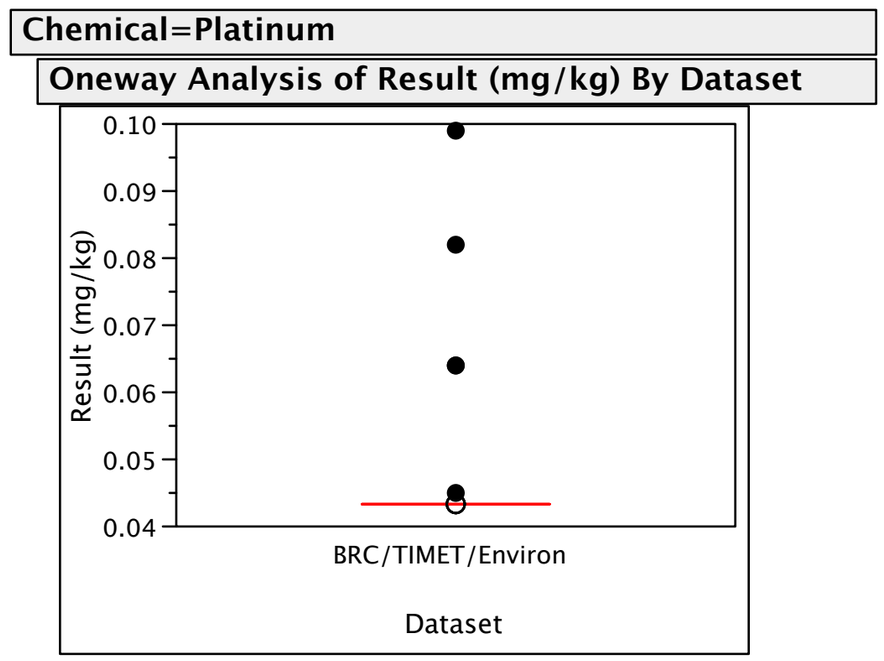
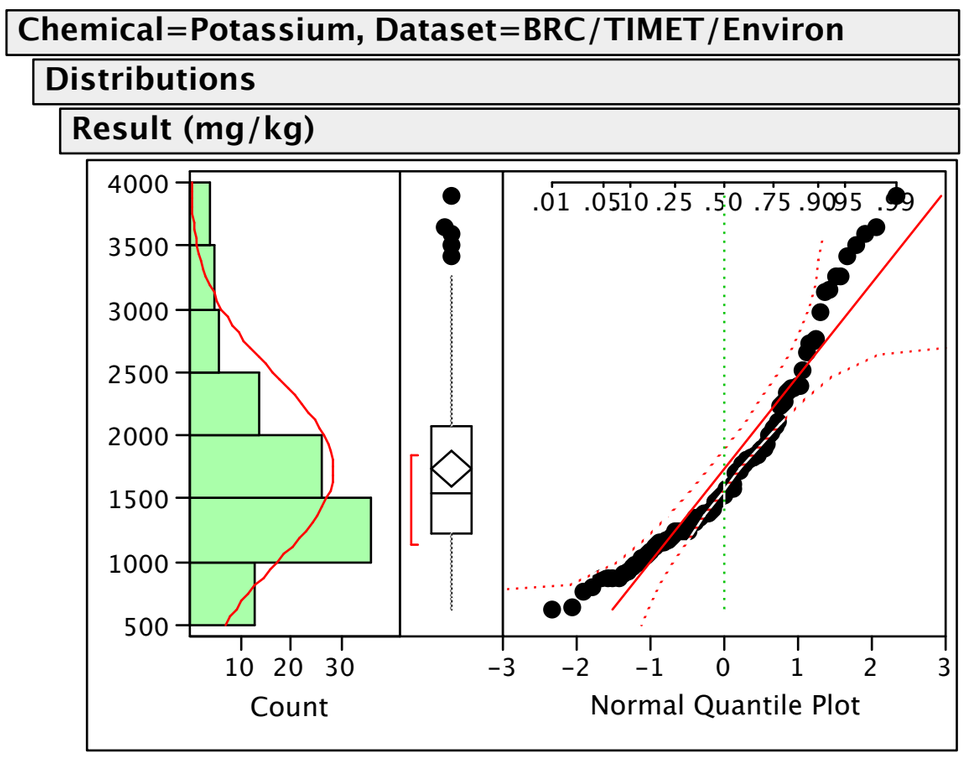


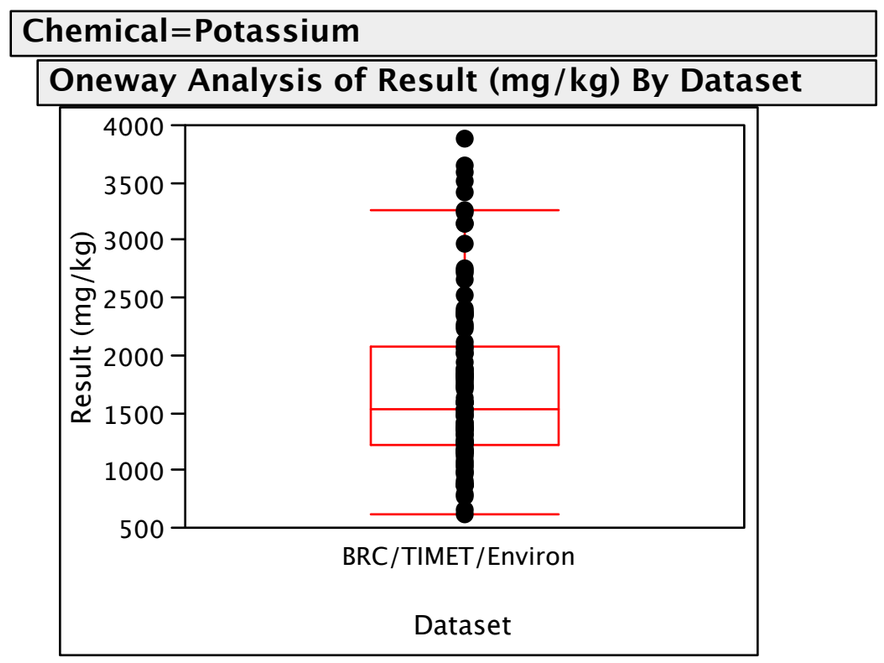
FIGURE G-1 (Continued)

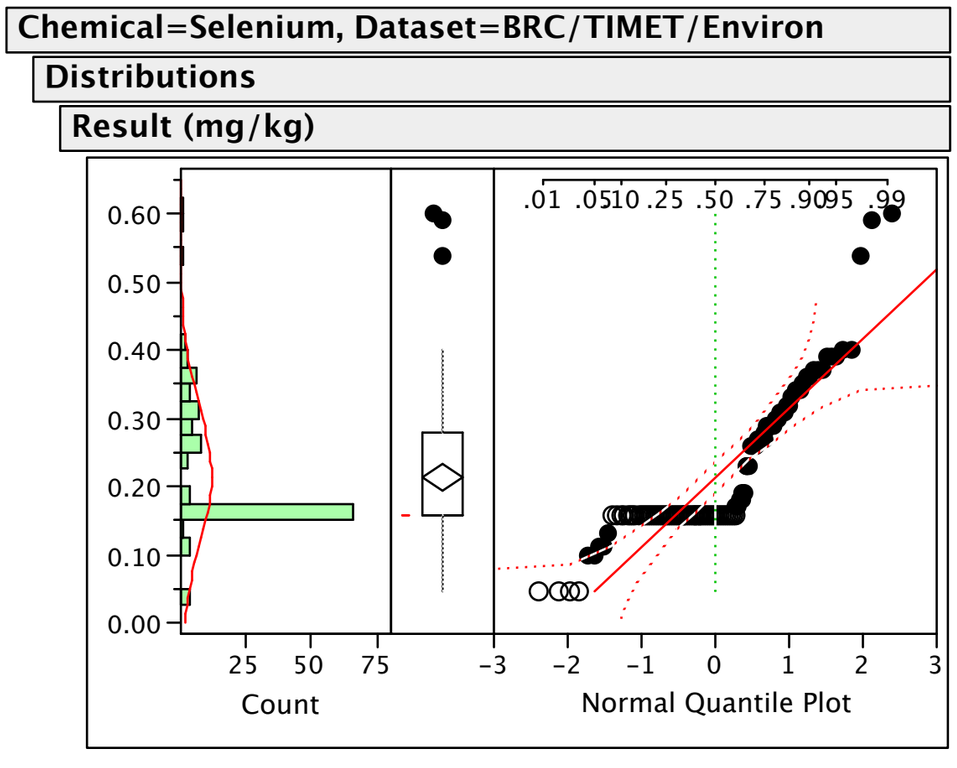
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











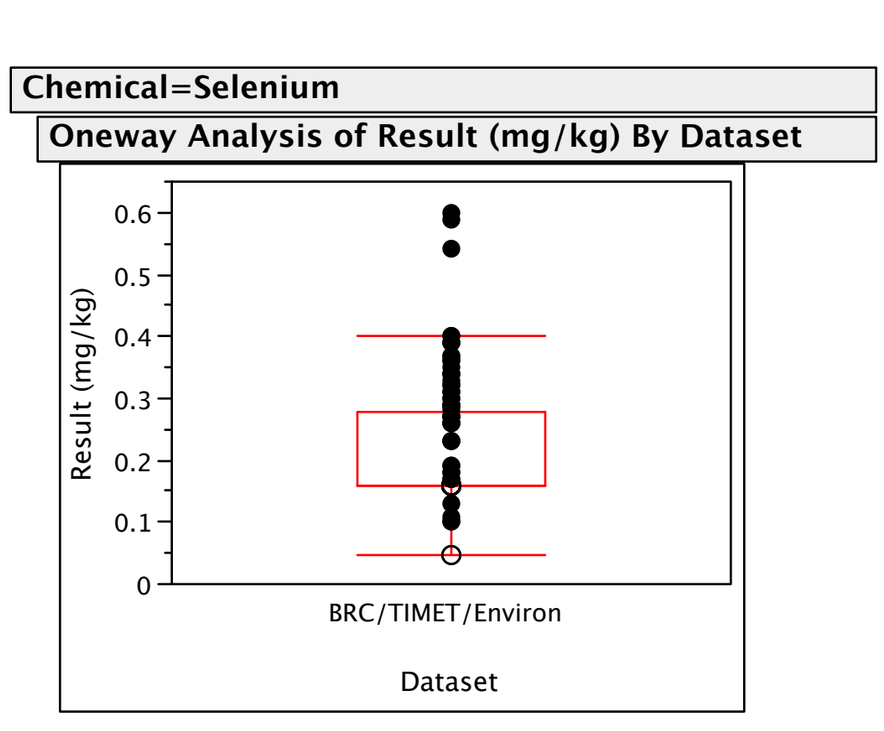
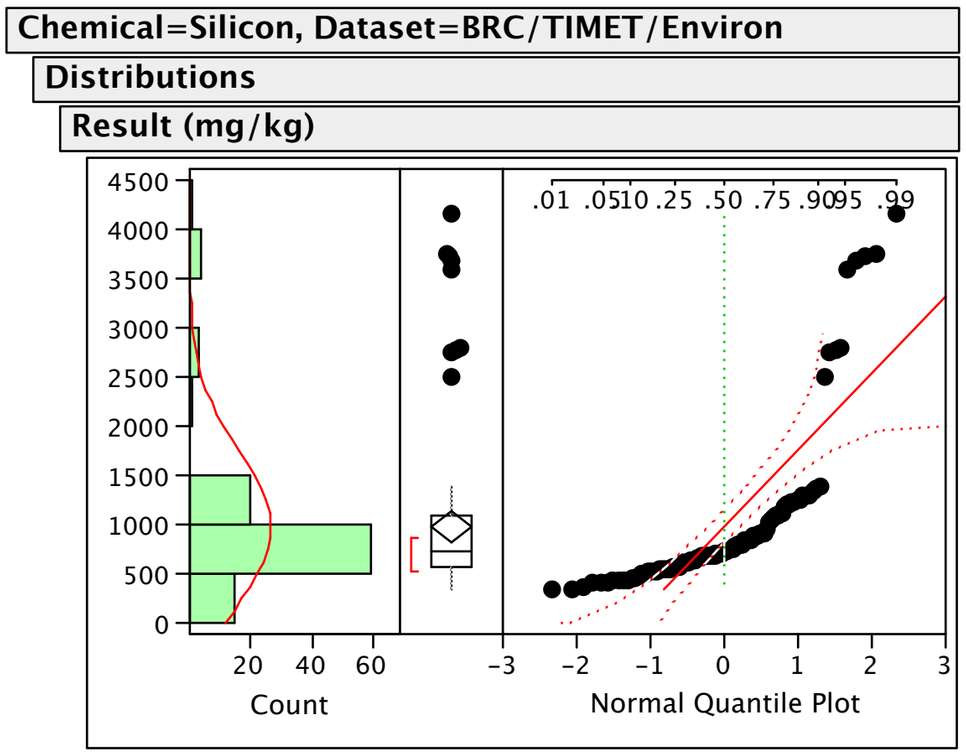
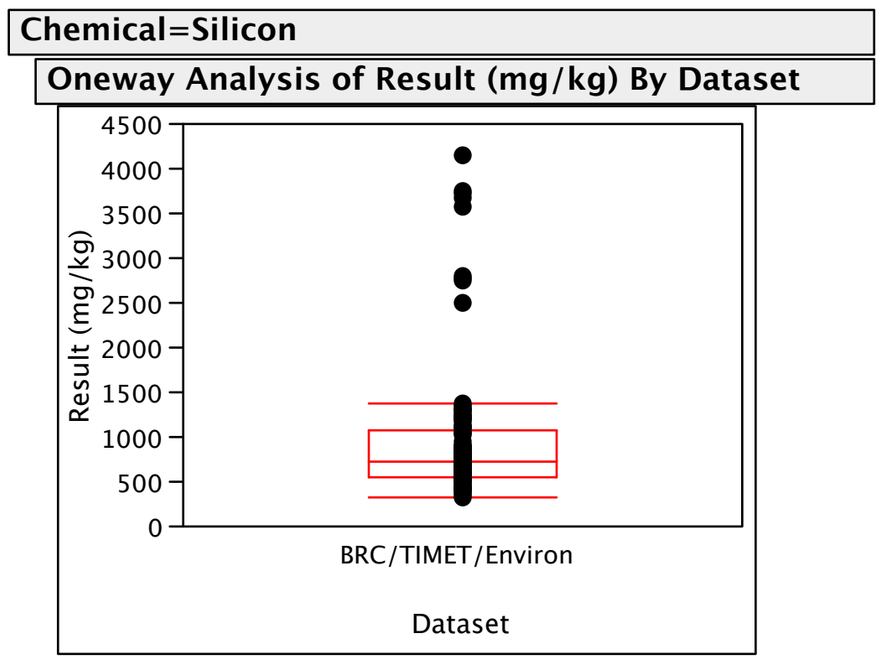
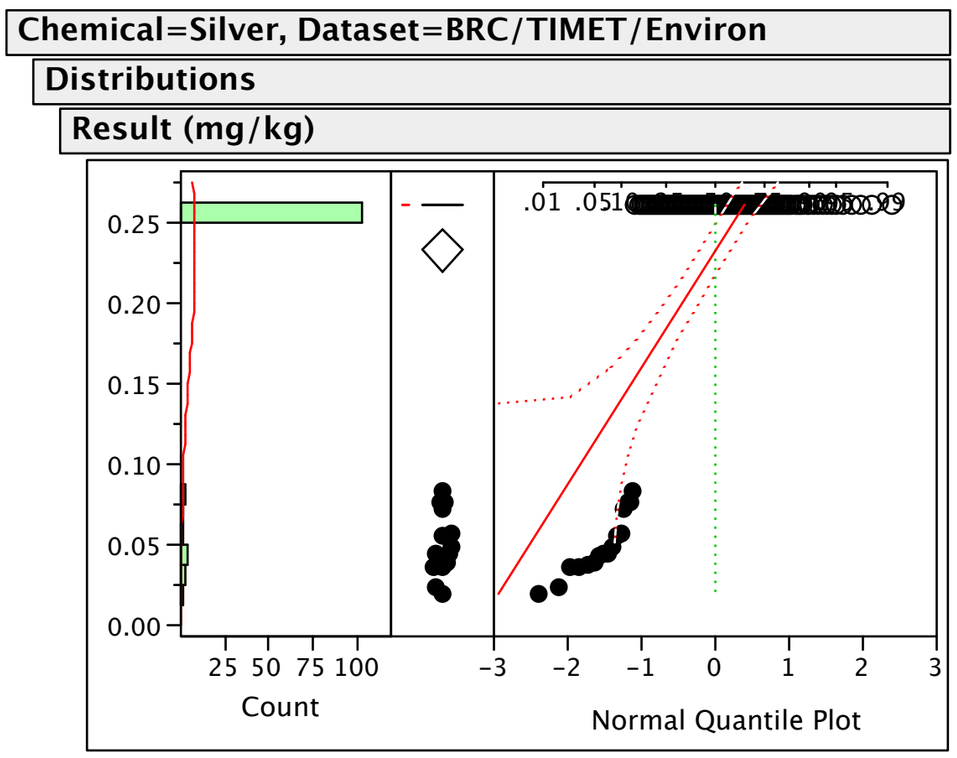


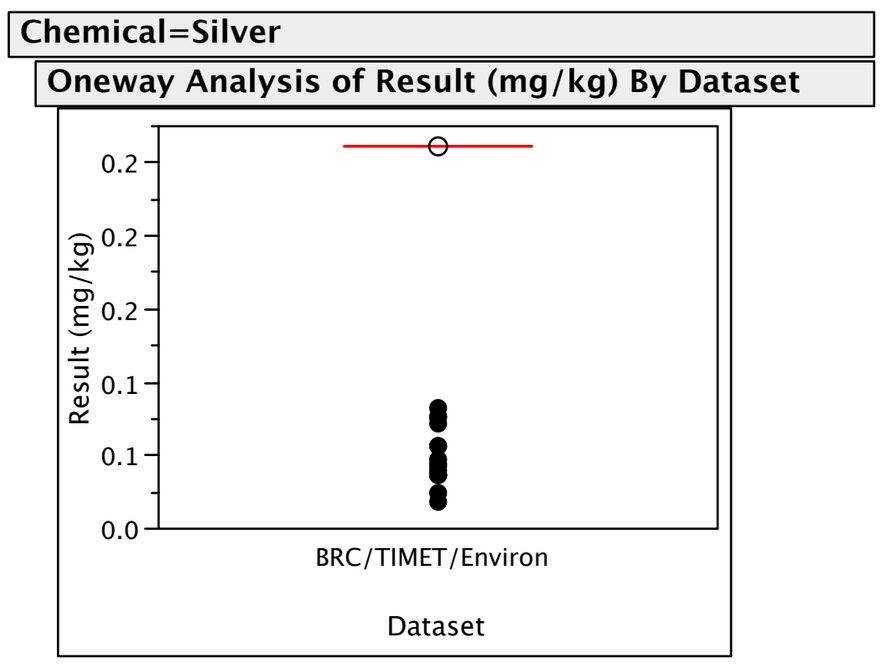
FIGURE G-1 (Continued)

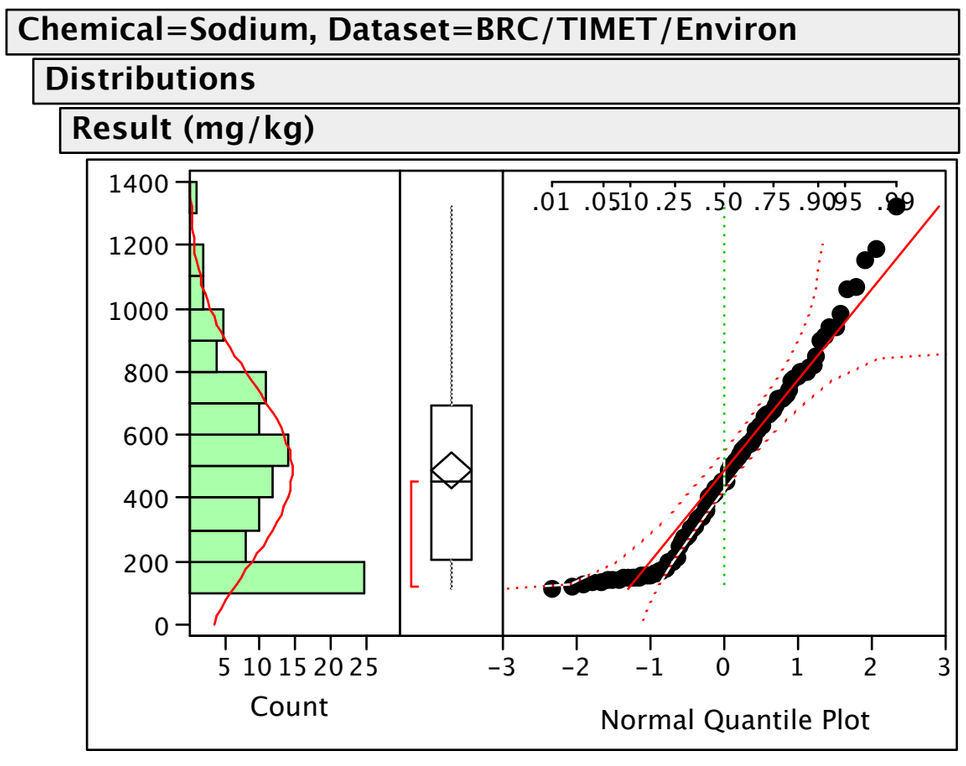
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











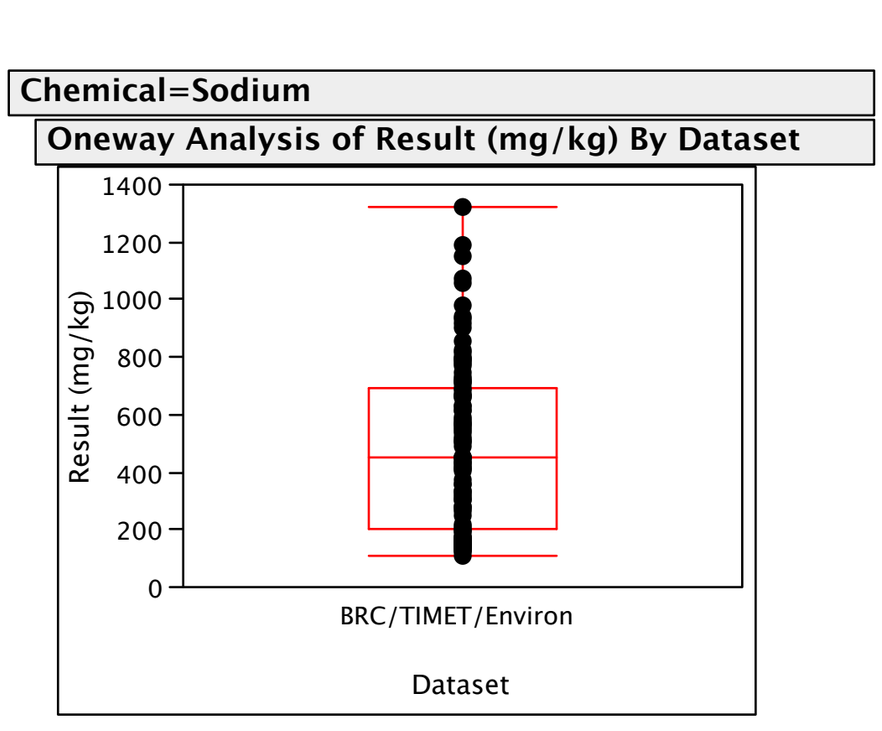
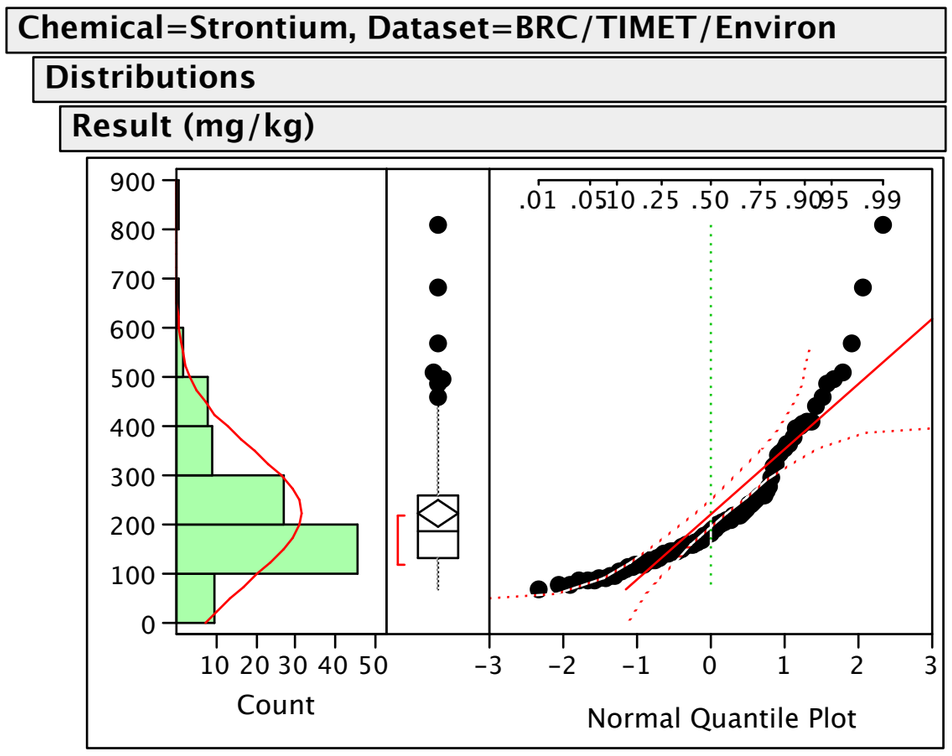
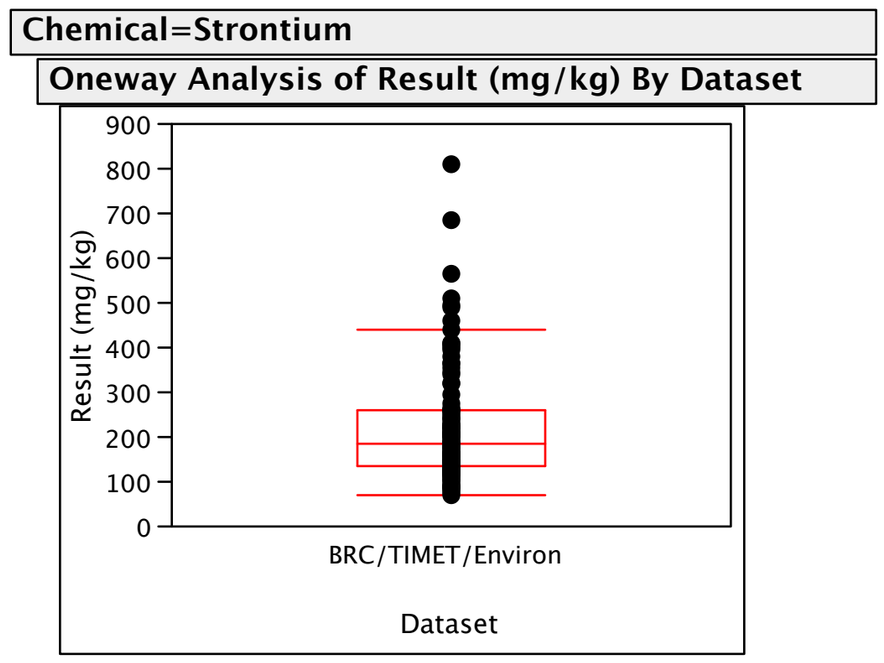
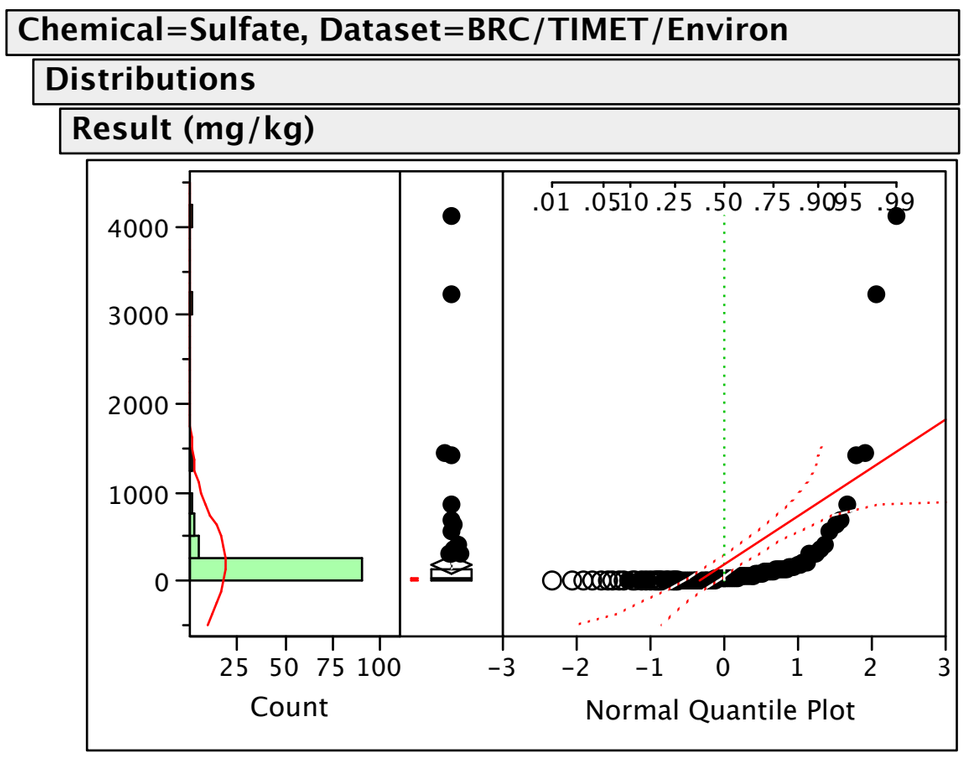


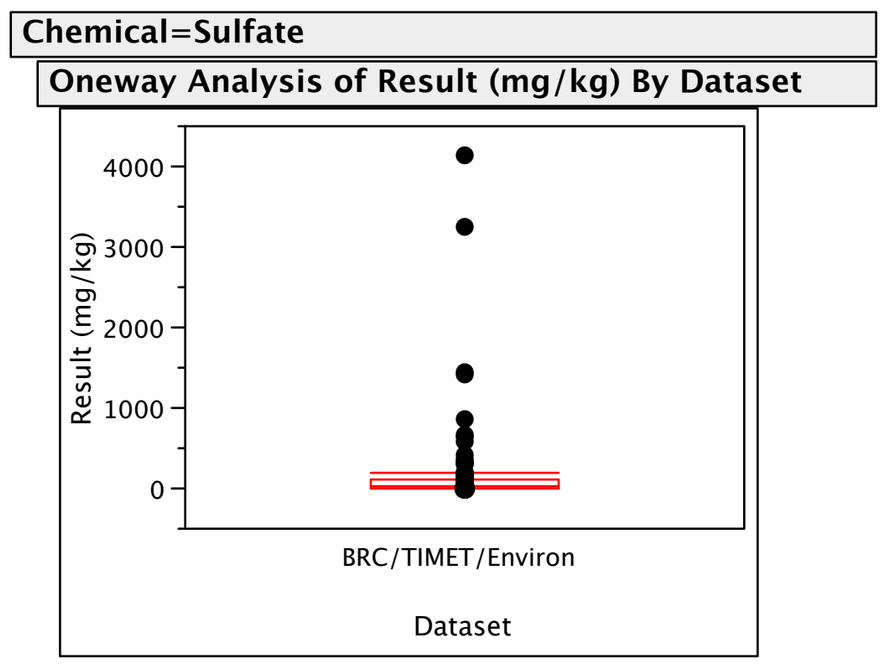
FIGURE G-1 (Continued)

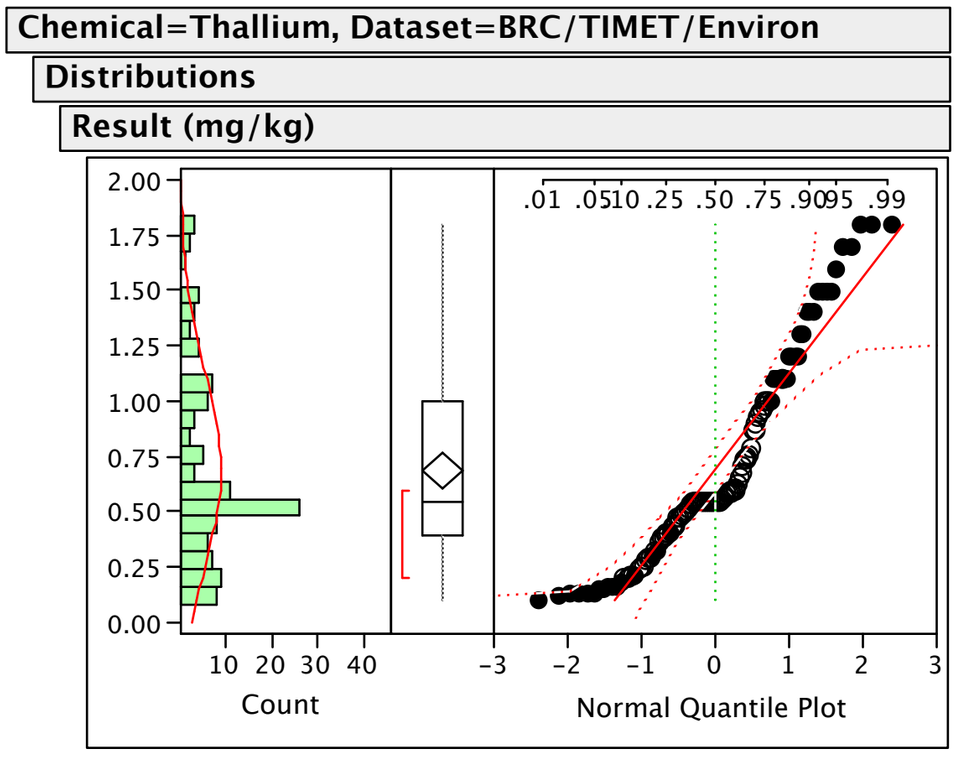
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











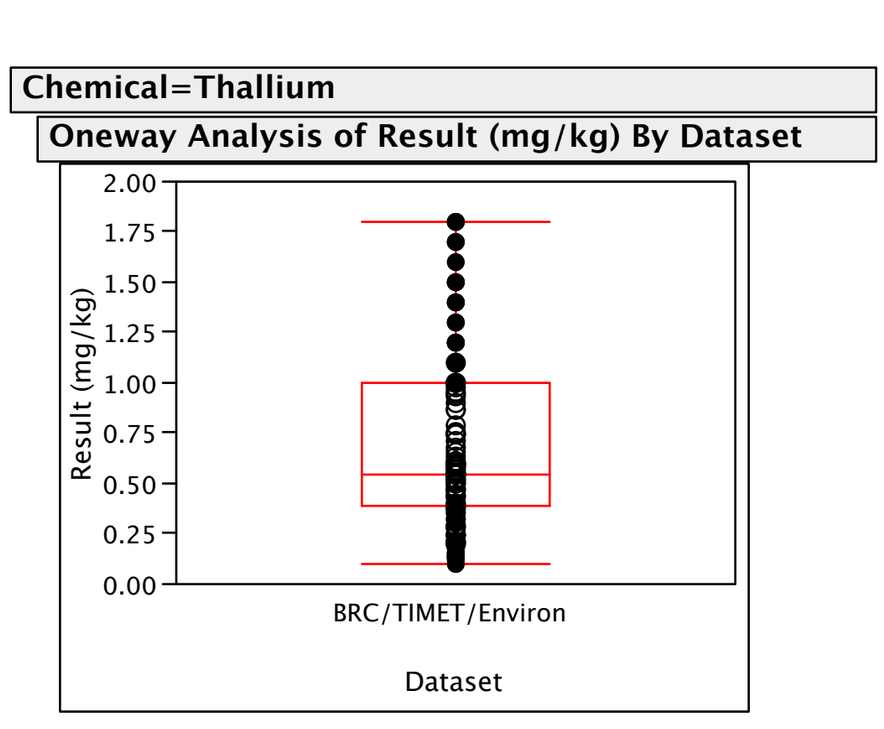
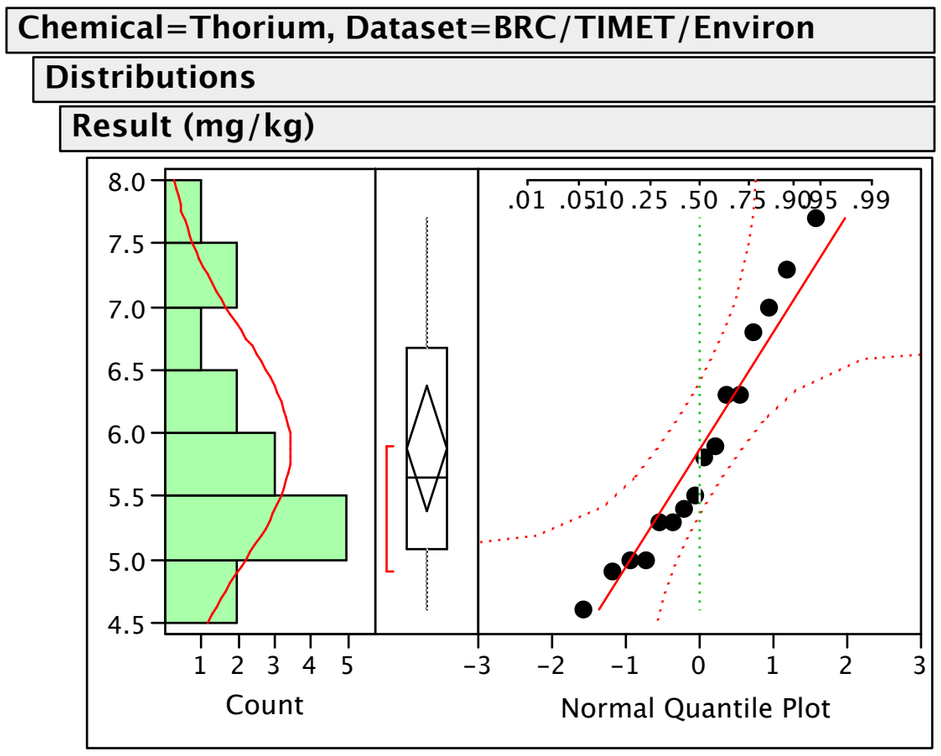
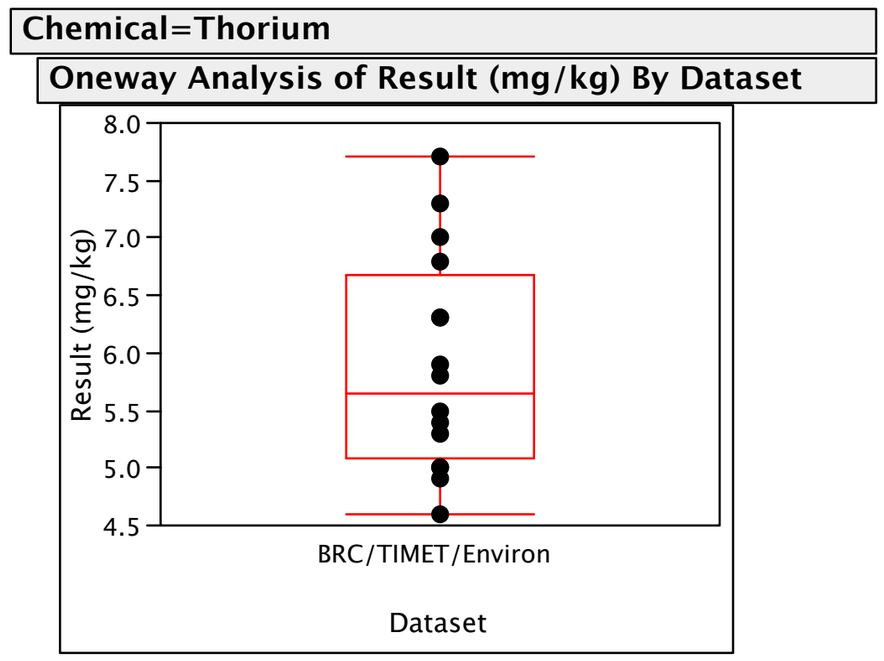
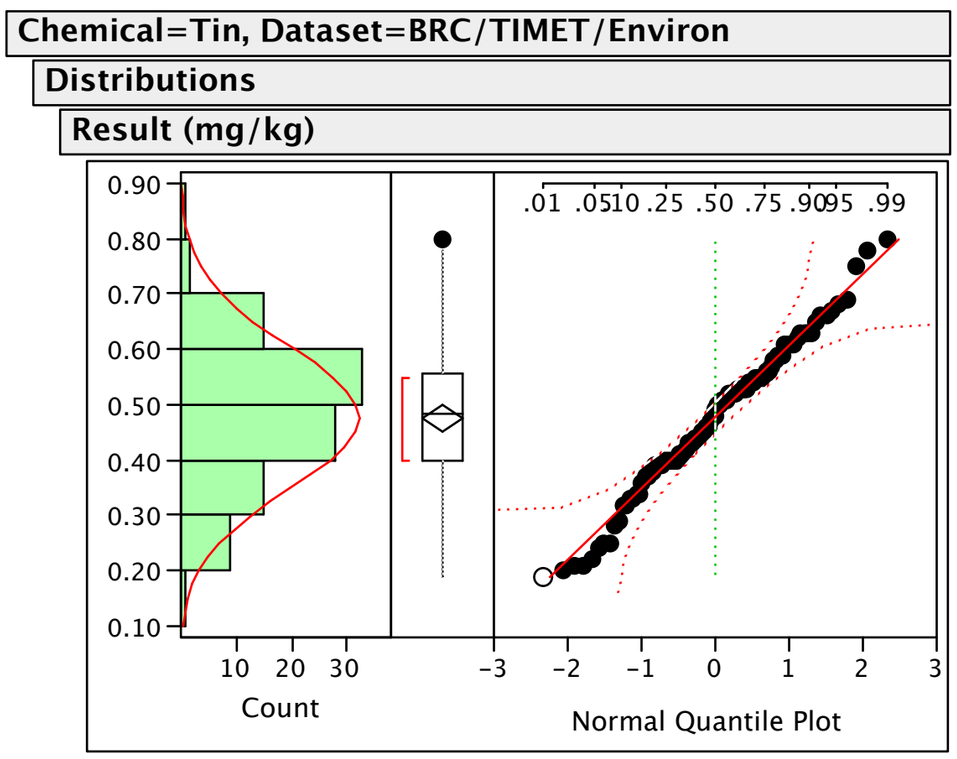


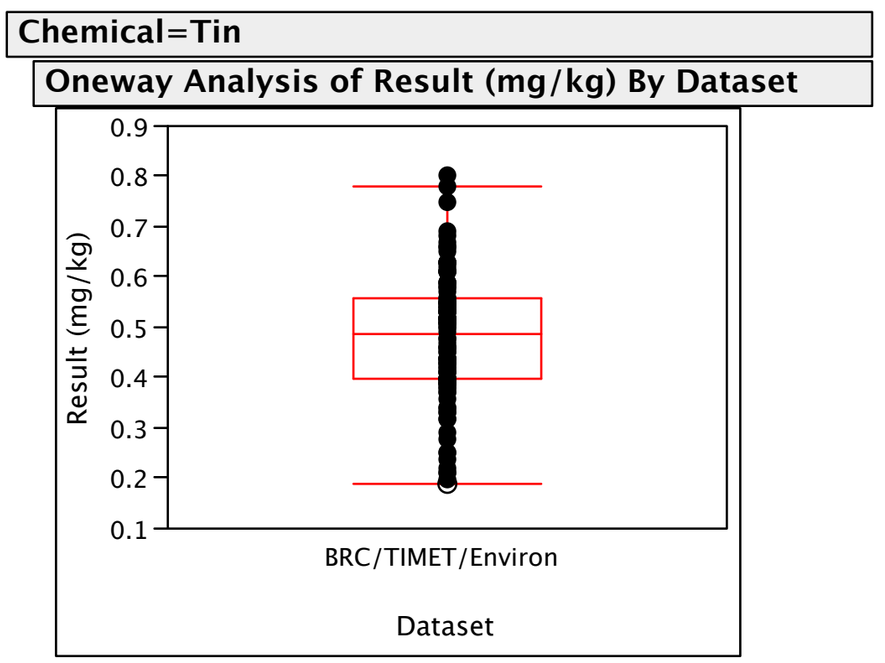
FIGURE G-1 (Continued)

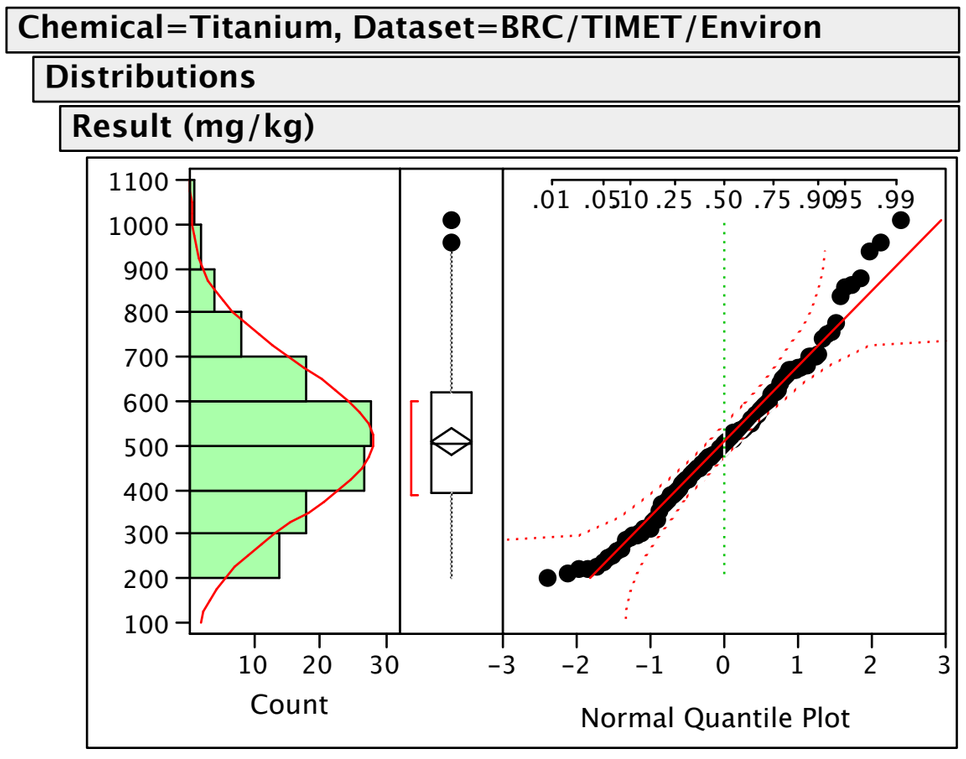
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











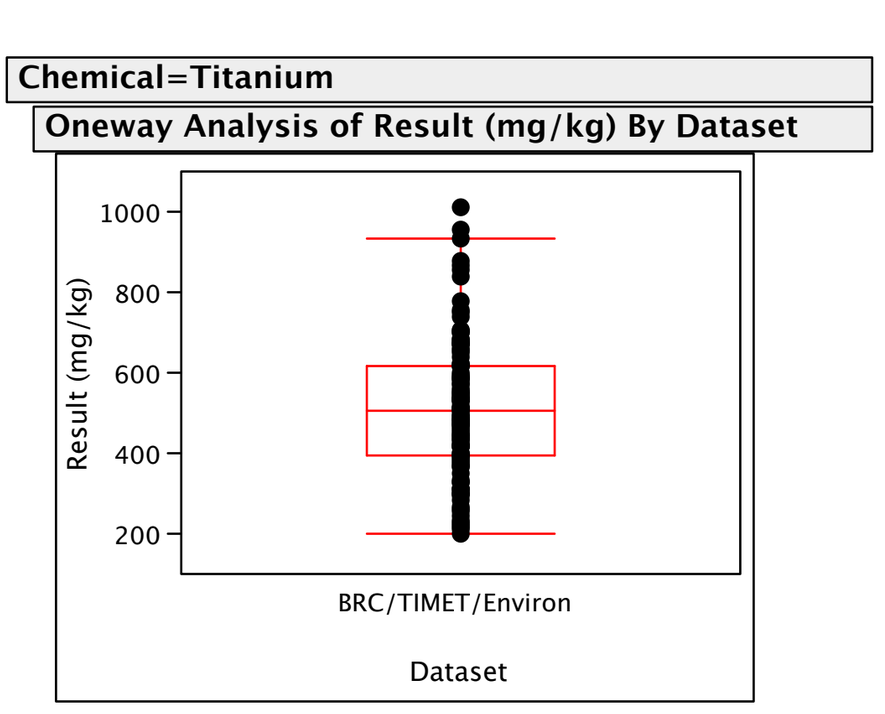
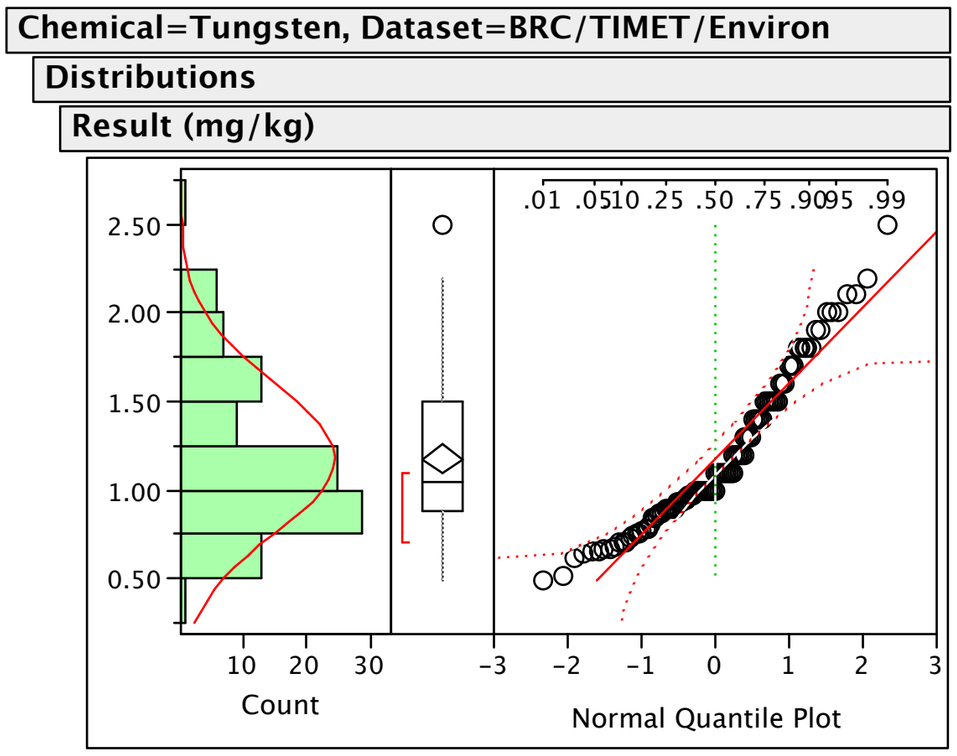
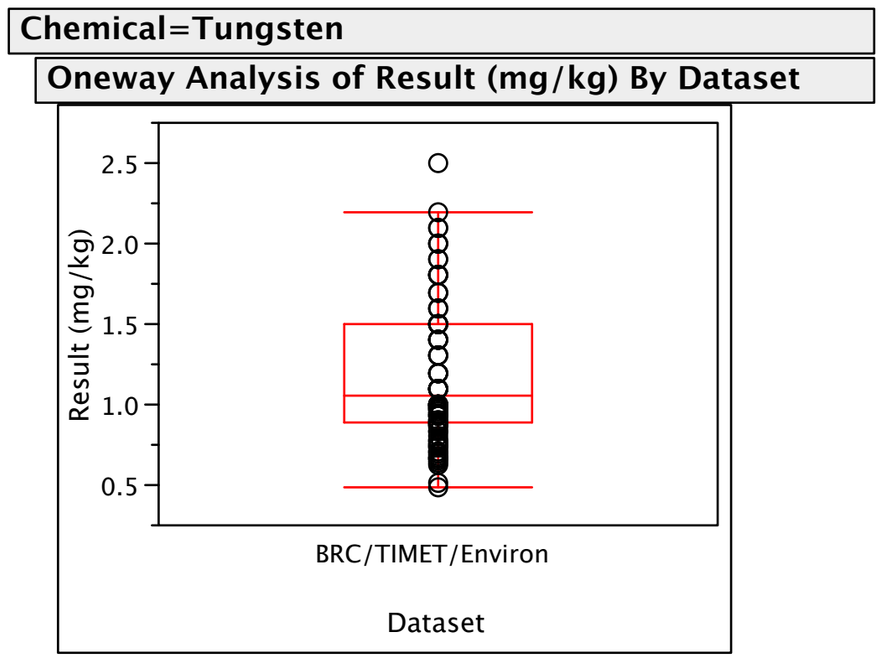
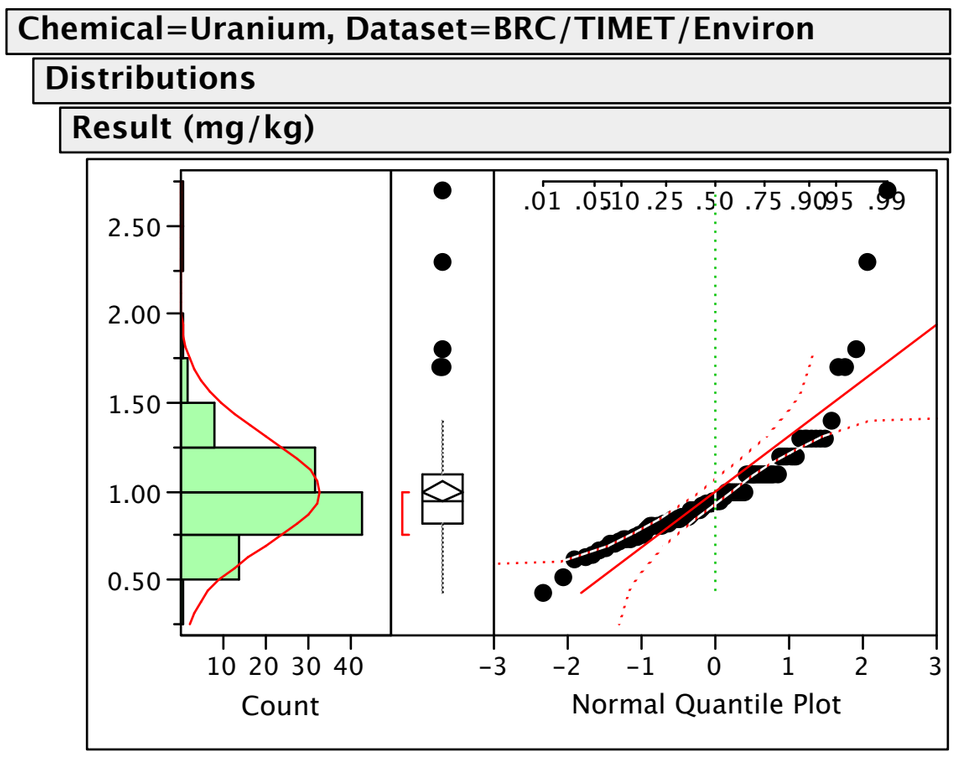


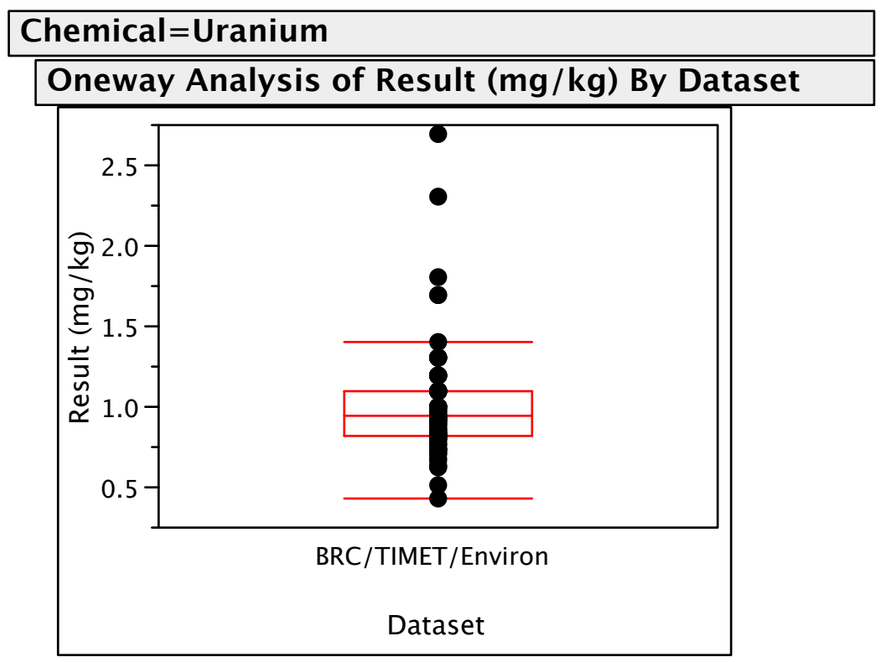
FIGURE G-1 (Continued)

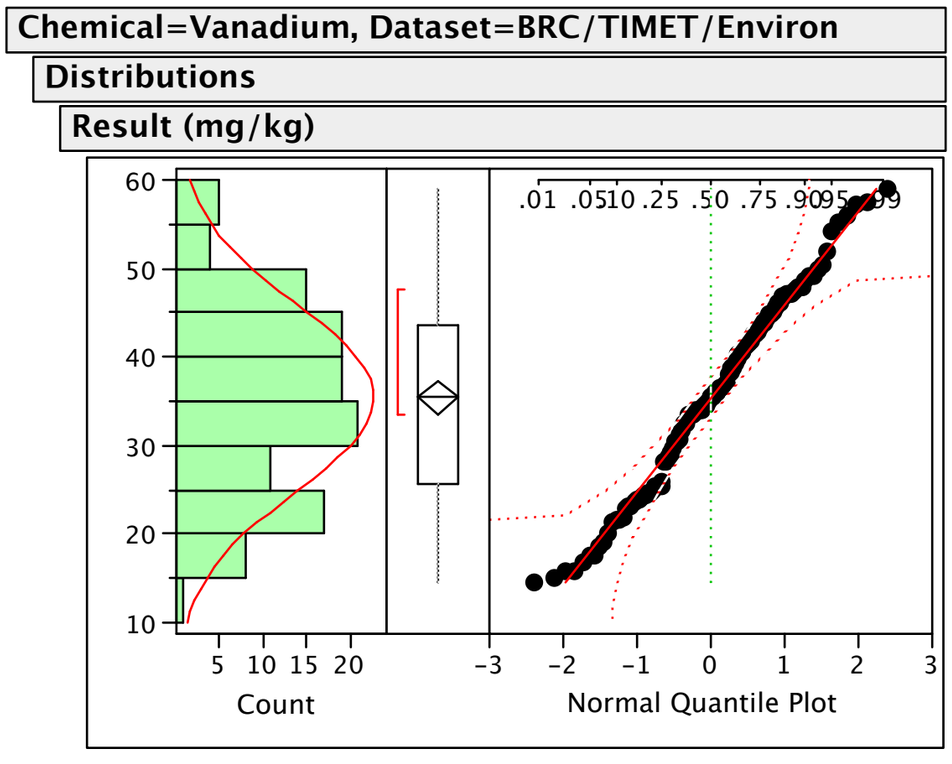
DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











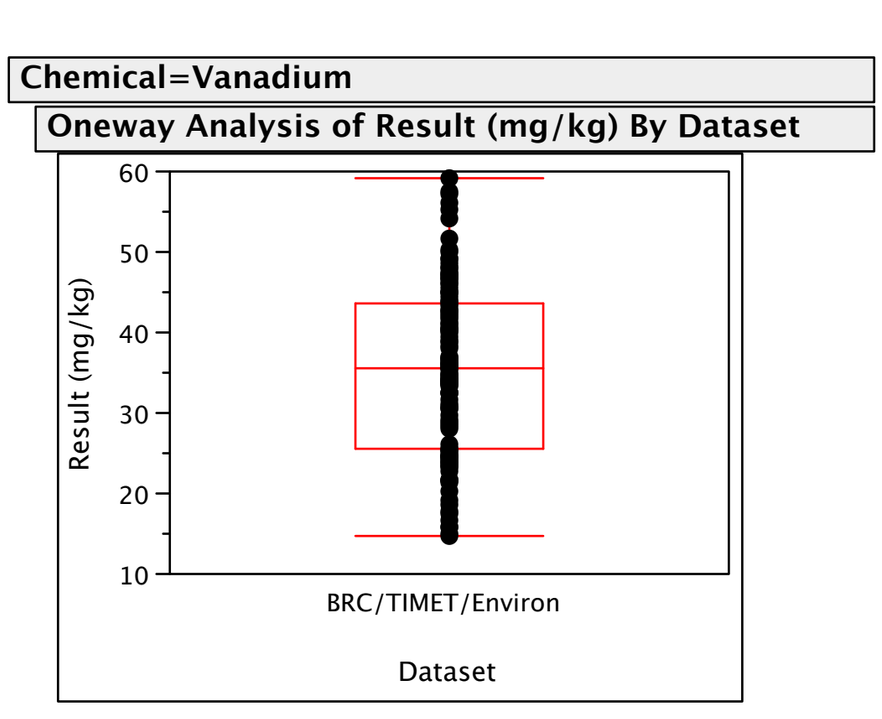
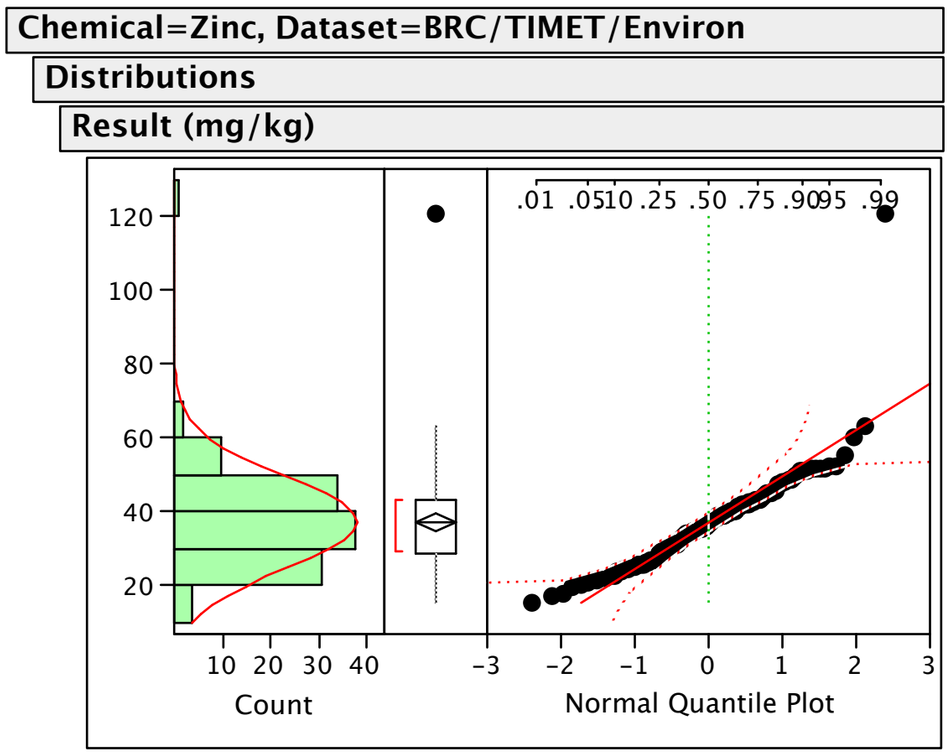
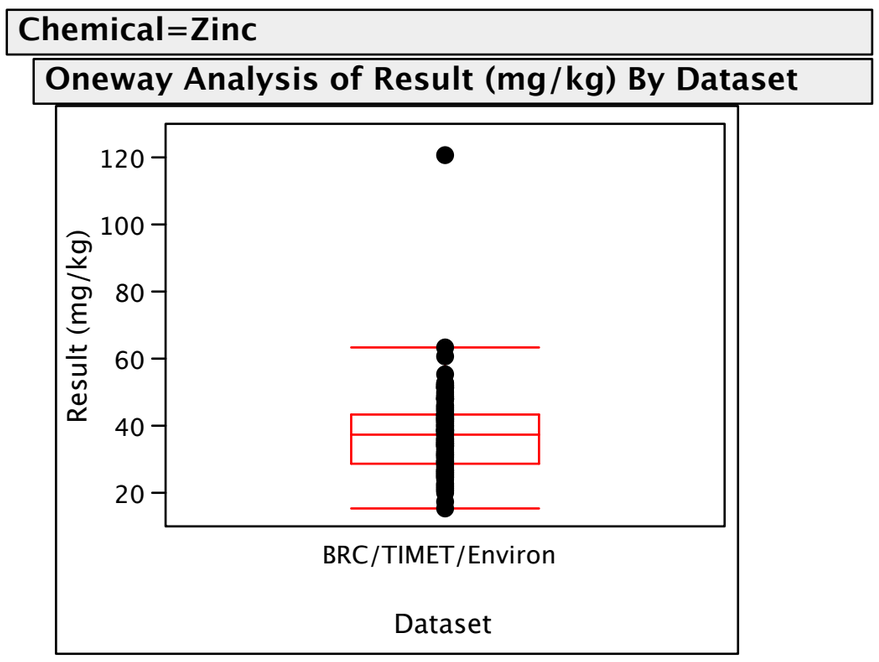
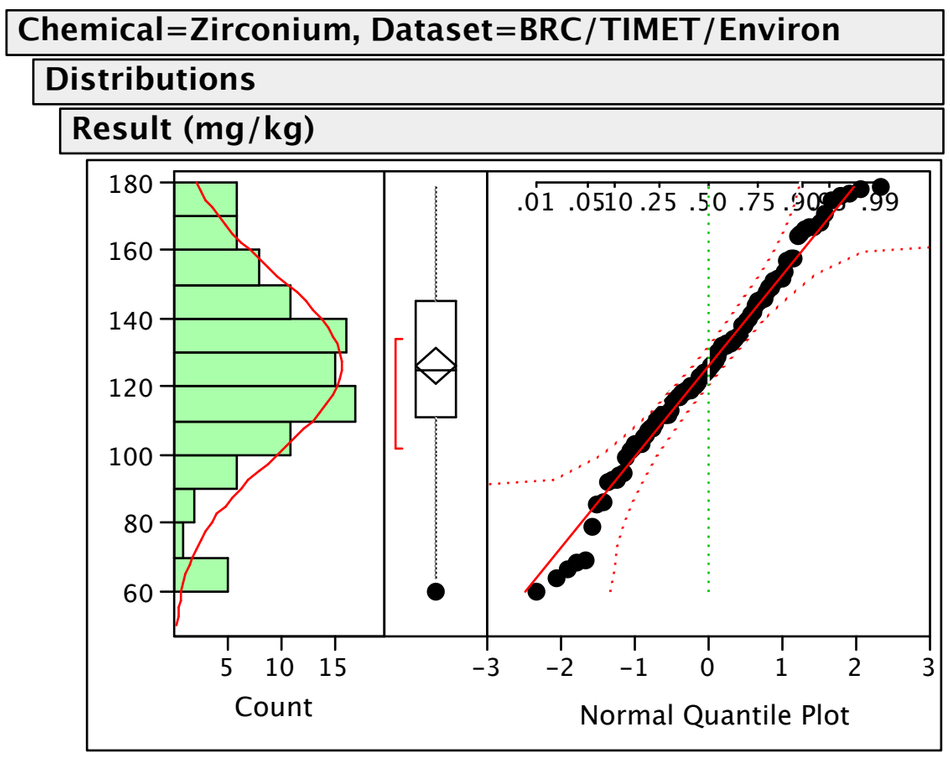


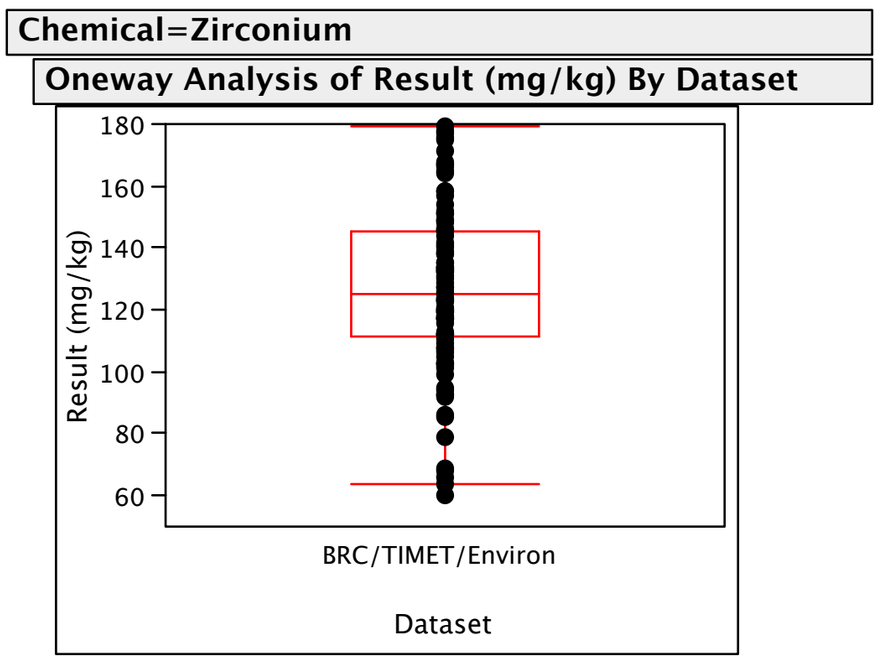
FIGURE G-1 (Continued)

DISTRIBUTION OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL



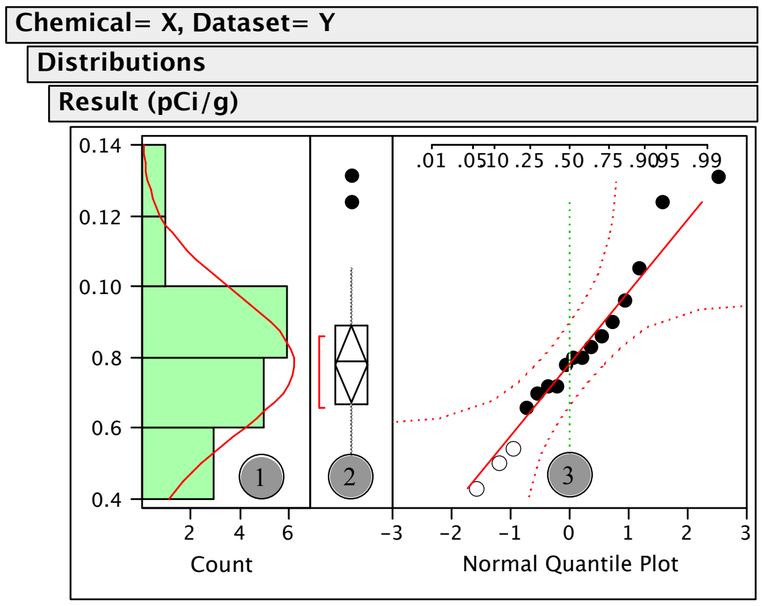


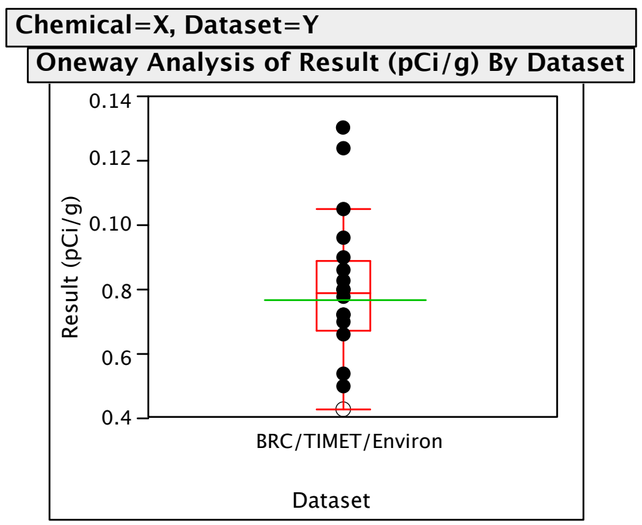




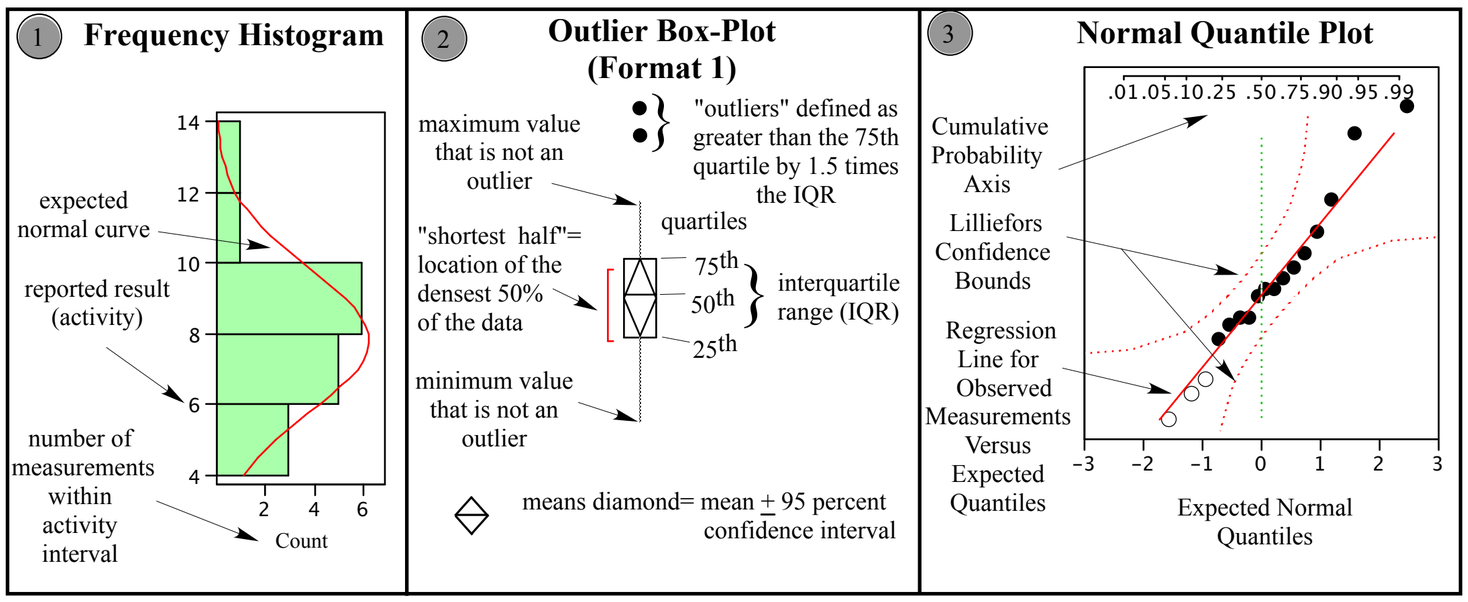
KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-2

Example Figures From Appendix





Keys to Individual Figure Panels



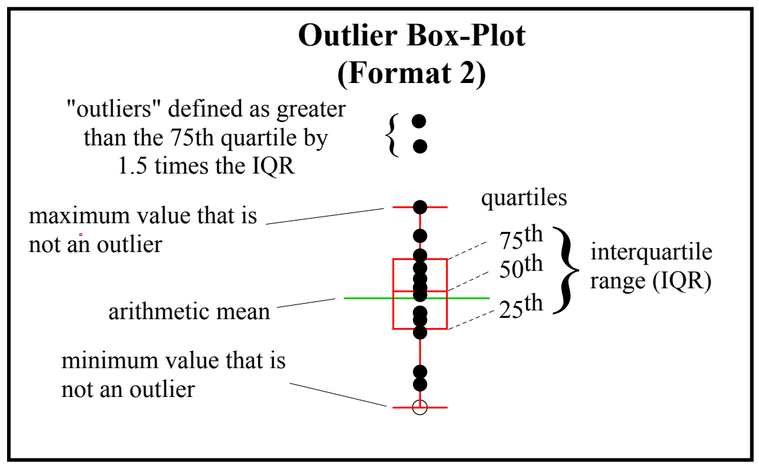


FIGURE G-2

DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL

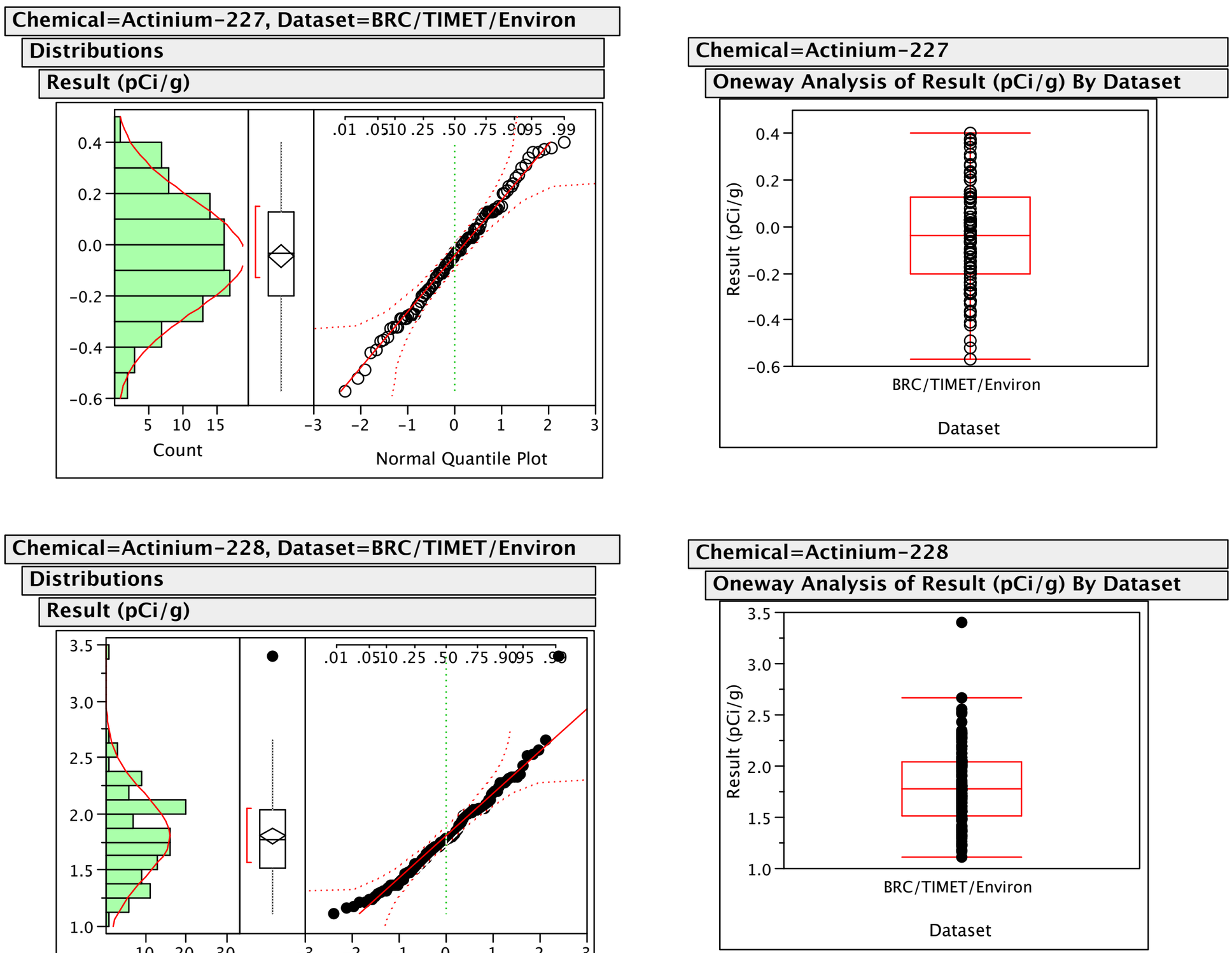
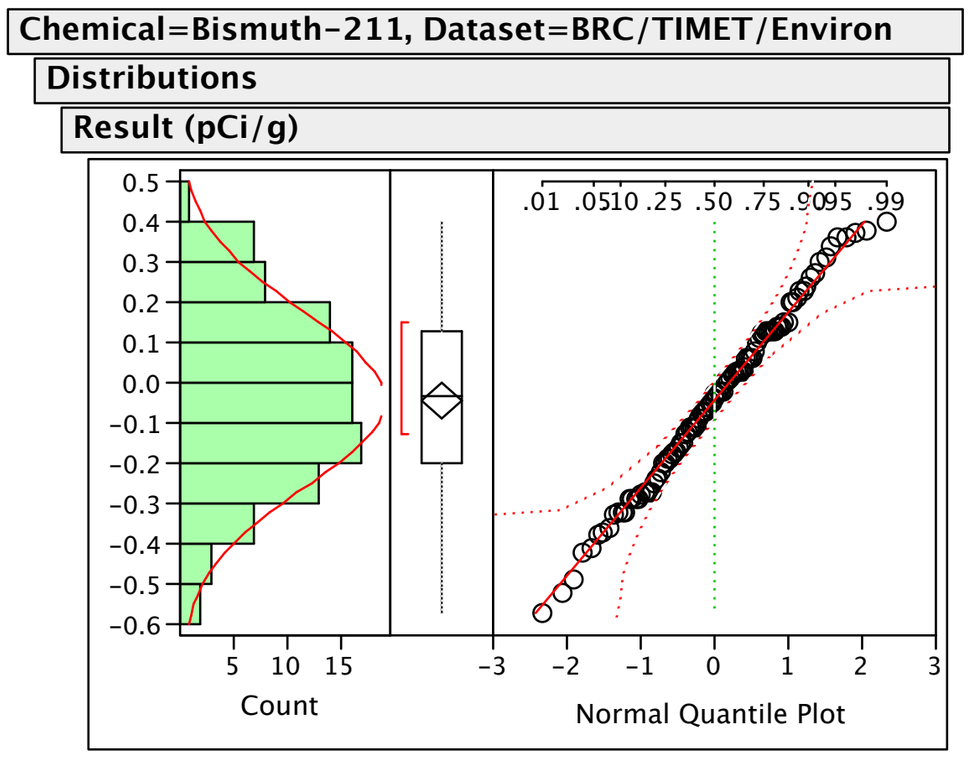
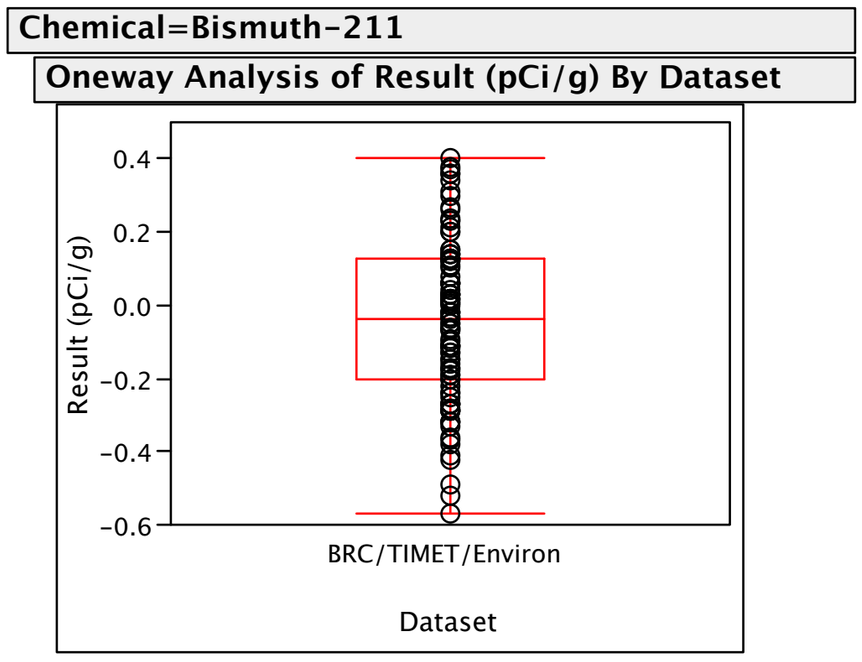
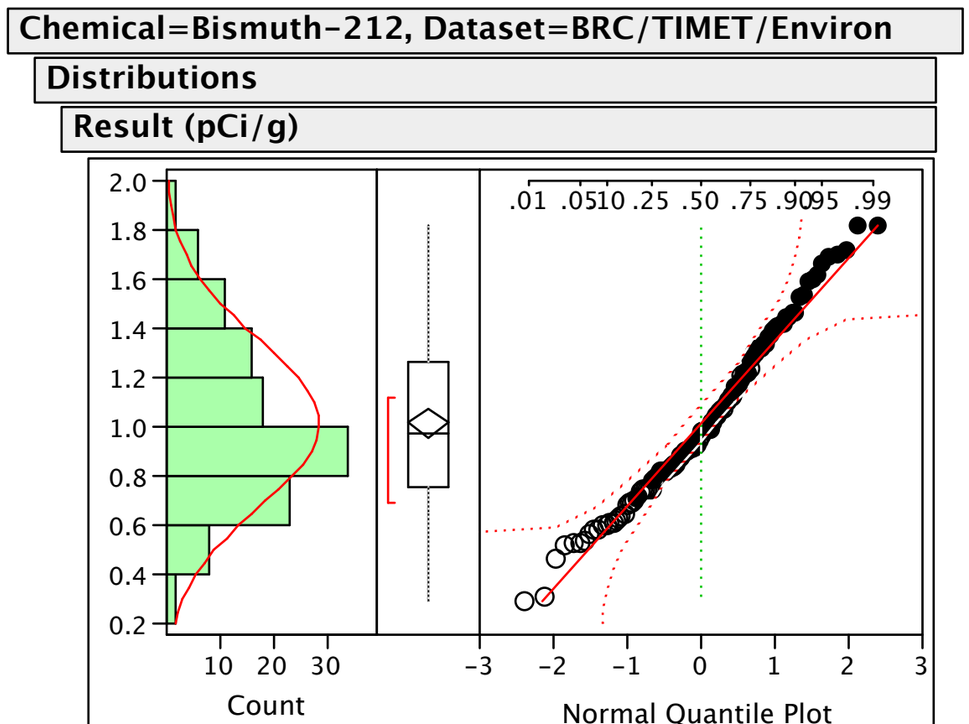


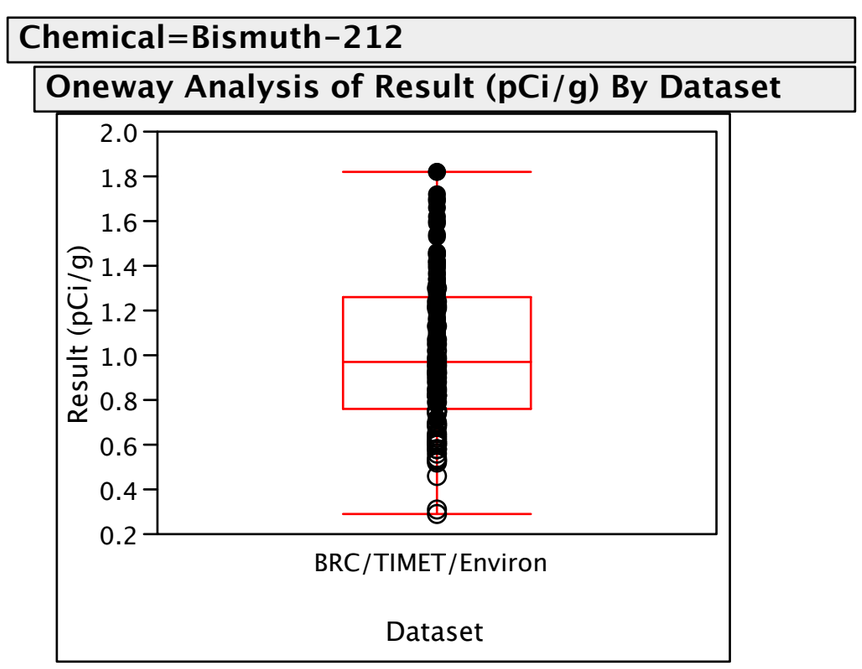
FIGURE G-2 (Continued)

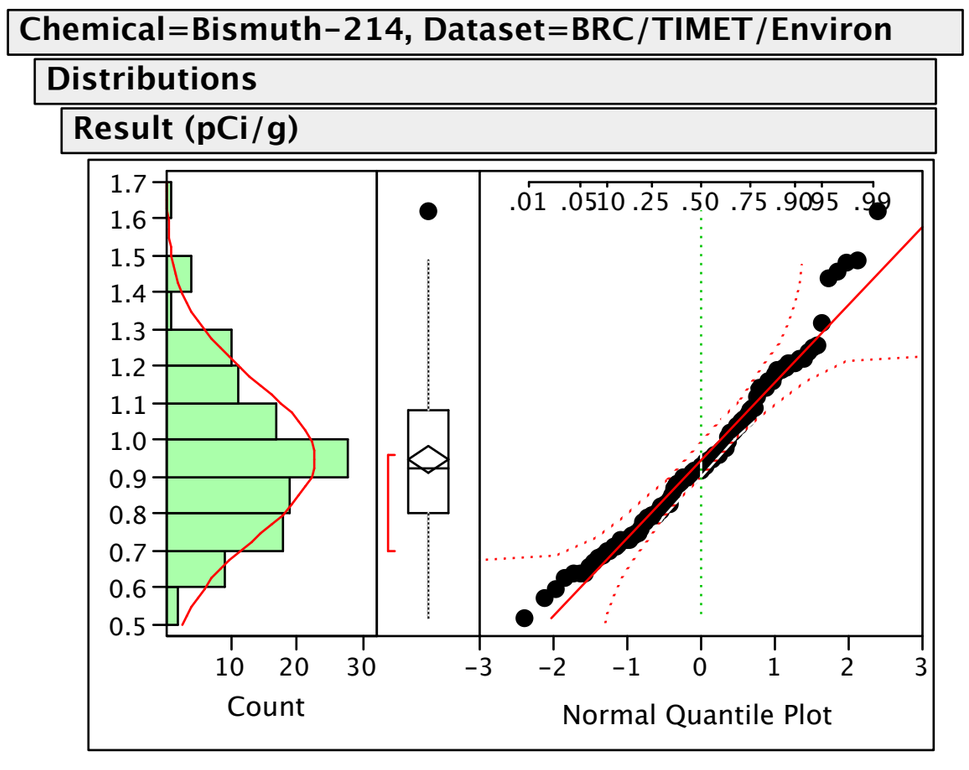
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











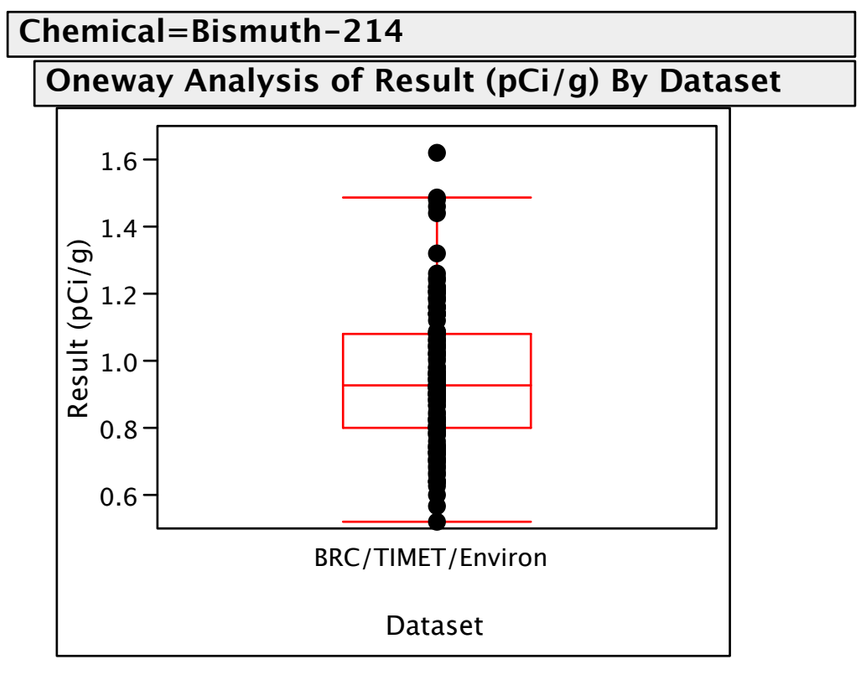
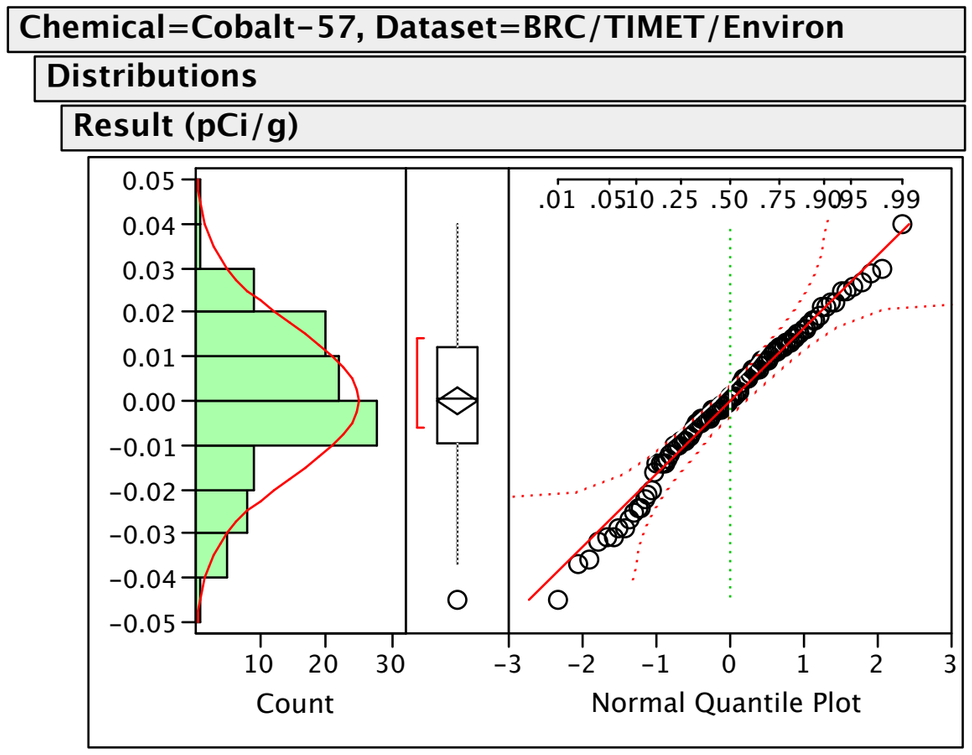
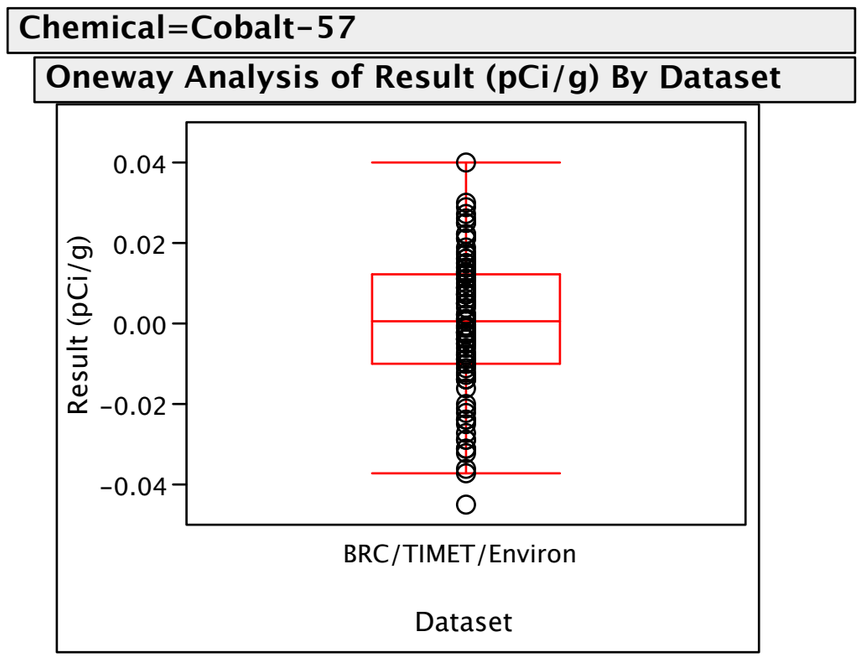
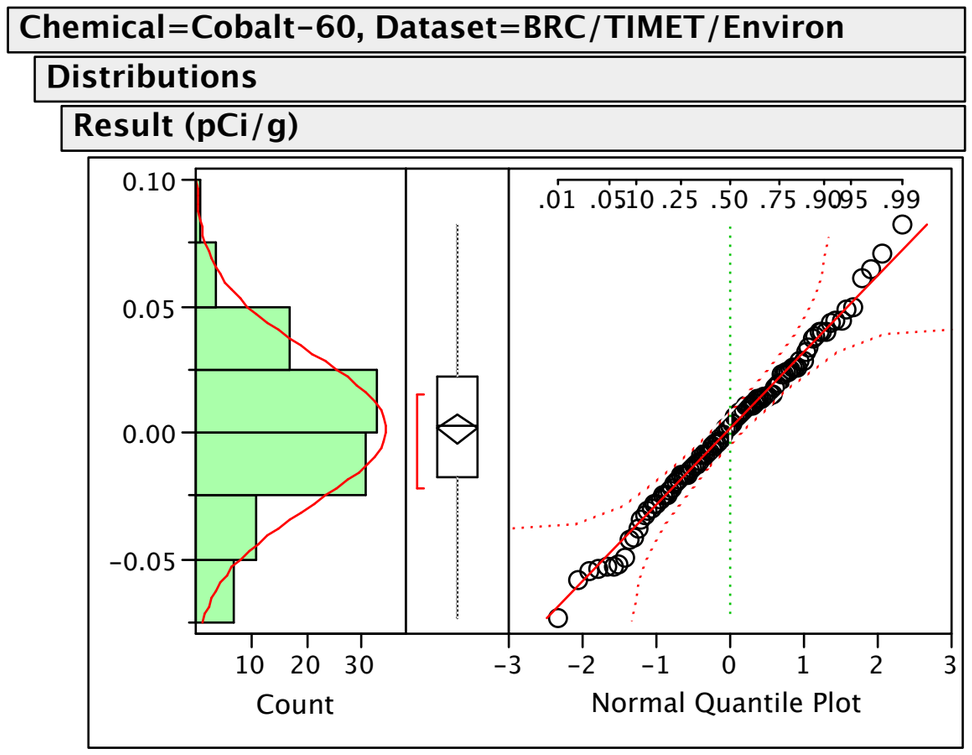


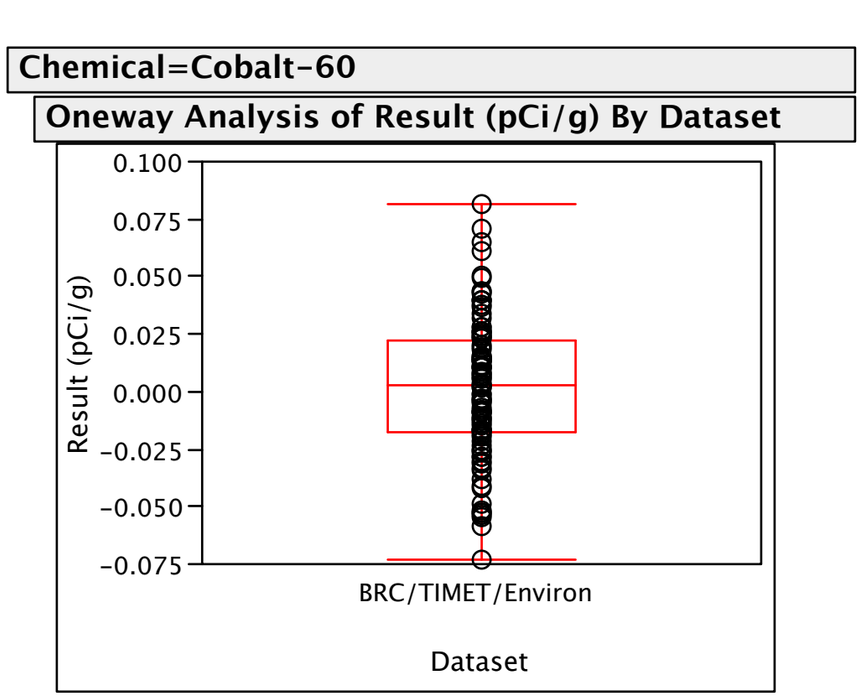
FIGURE G-2 (Continued)

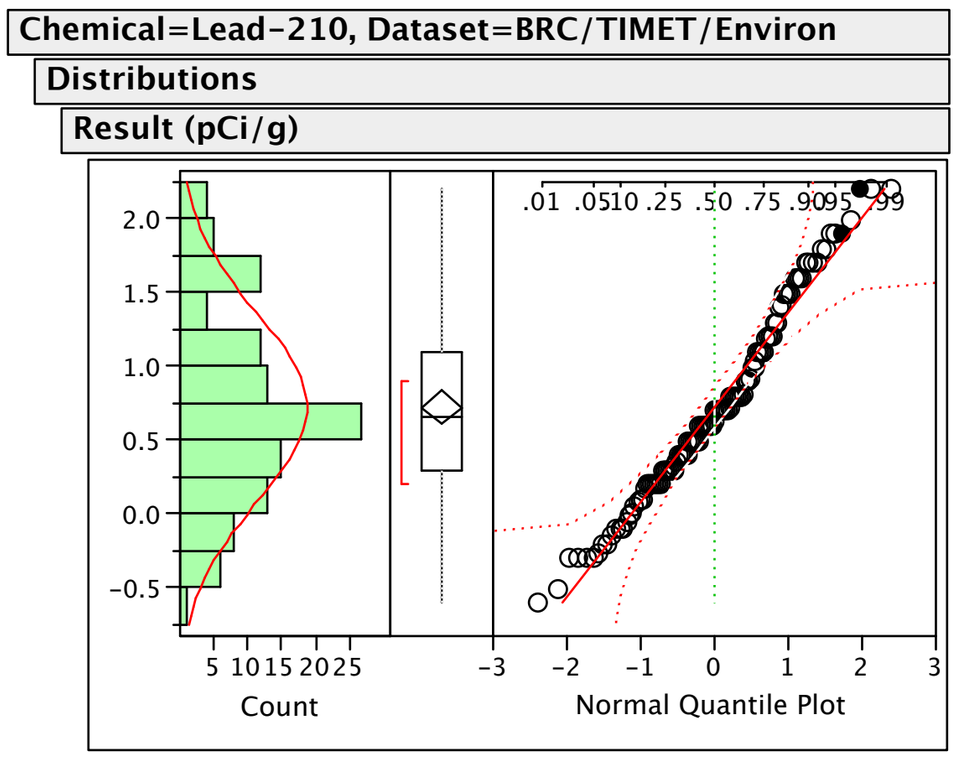
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











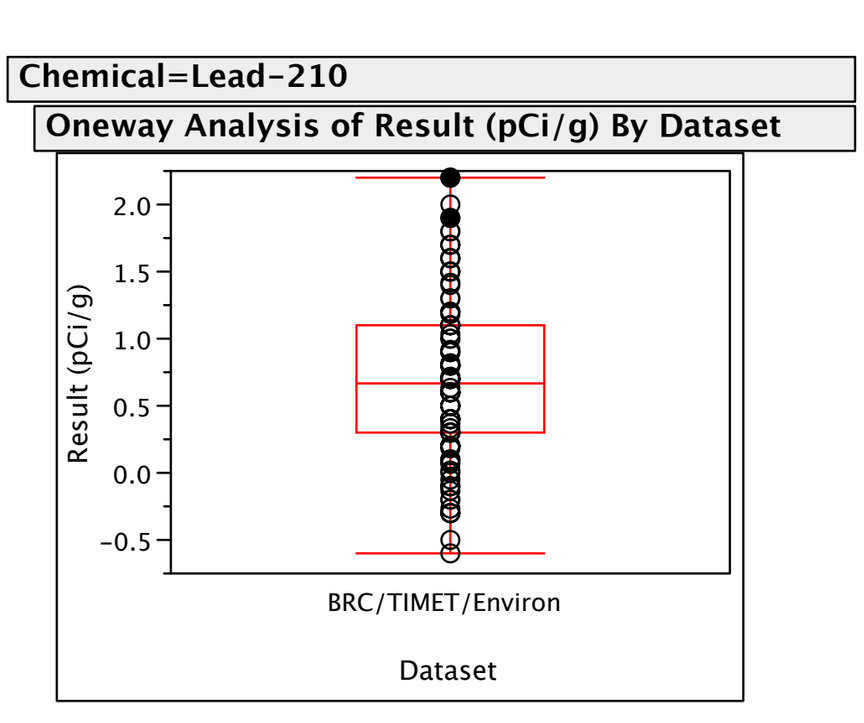
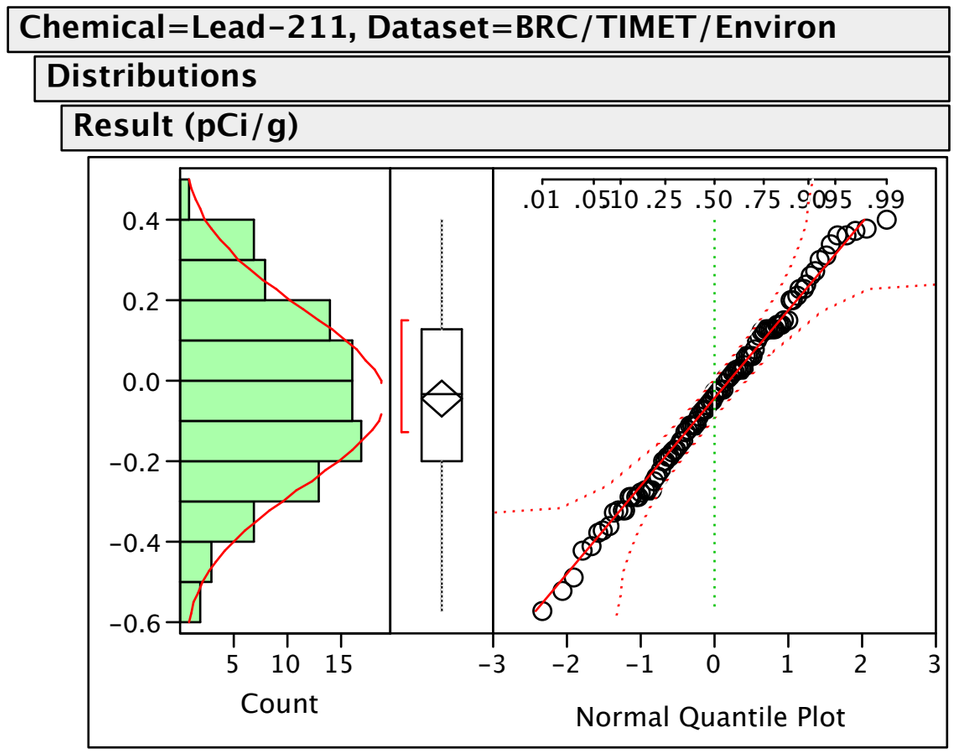
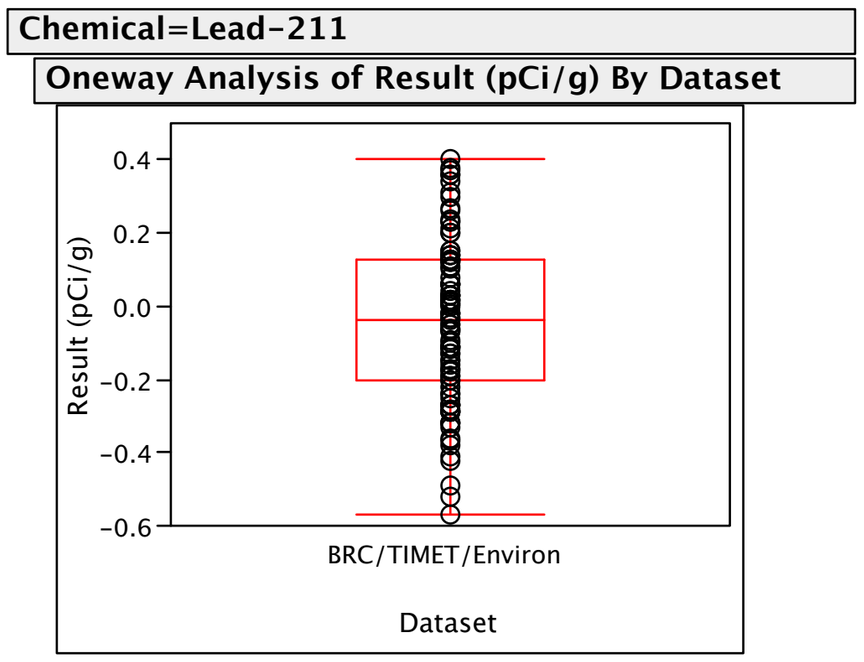
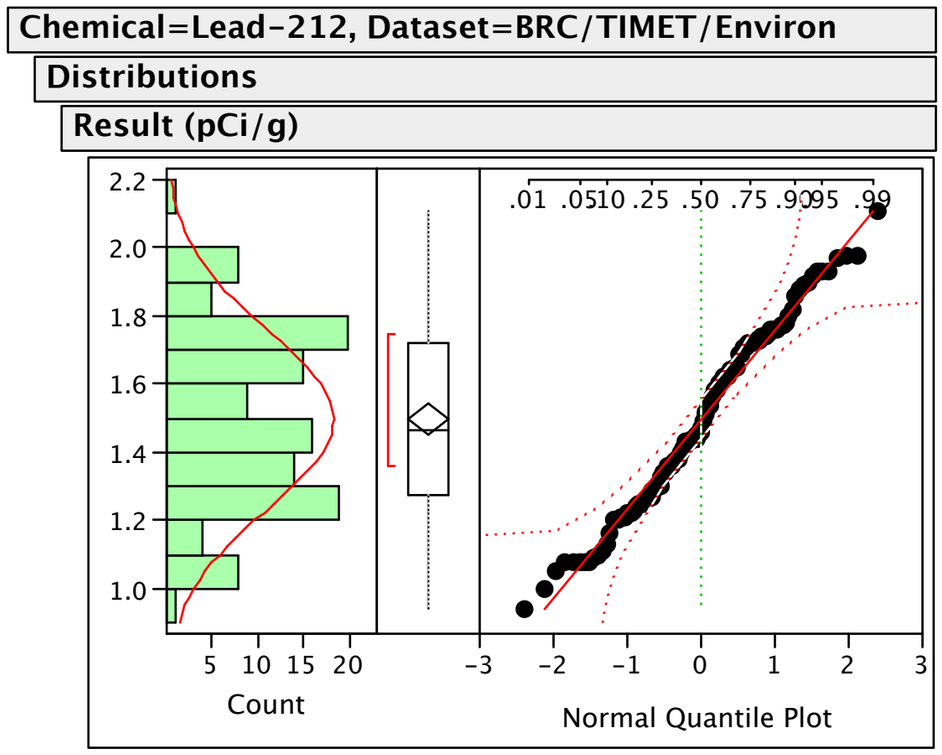


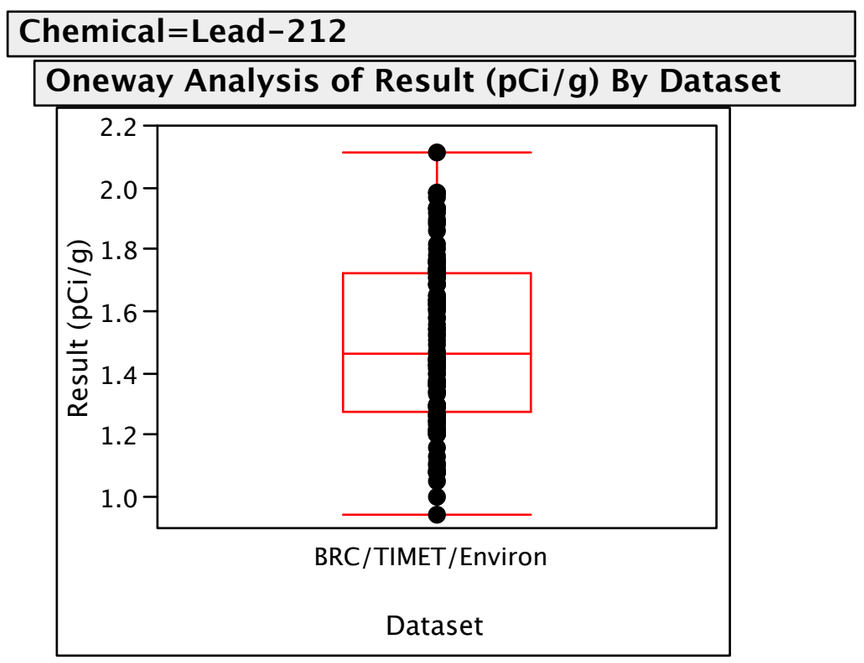
FIGURE G-2 (Continued)

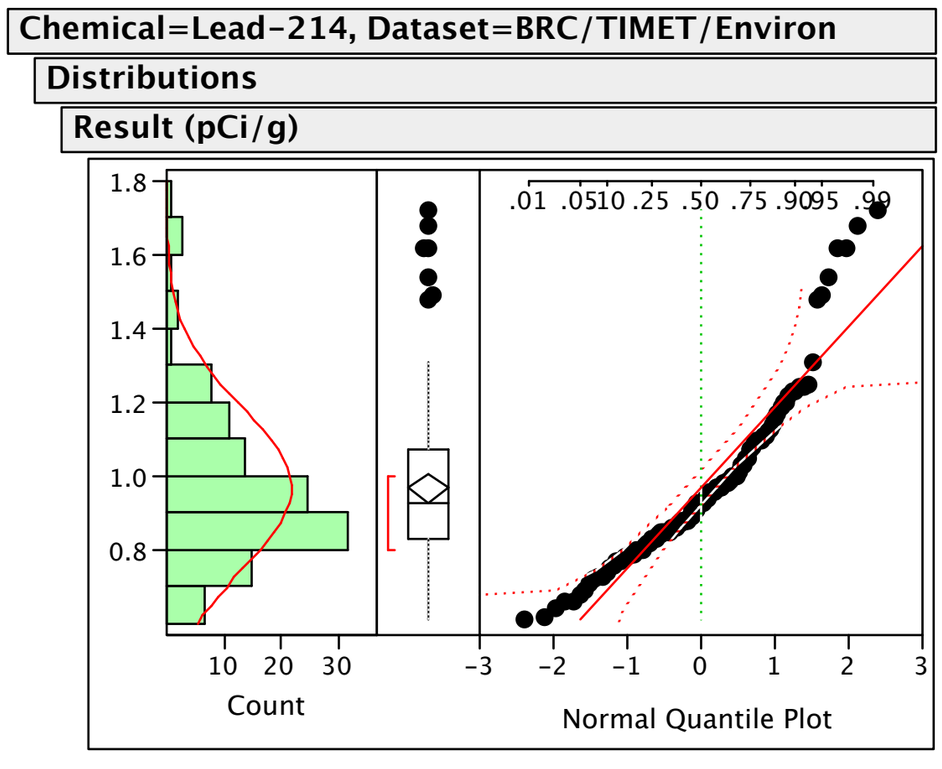
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











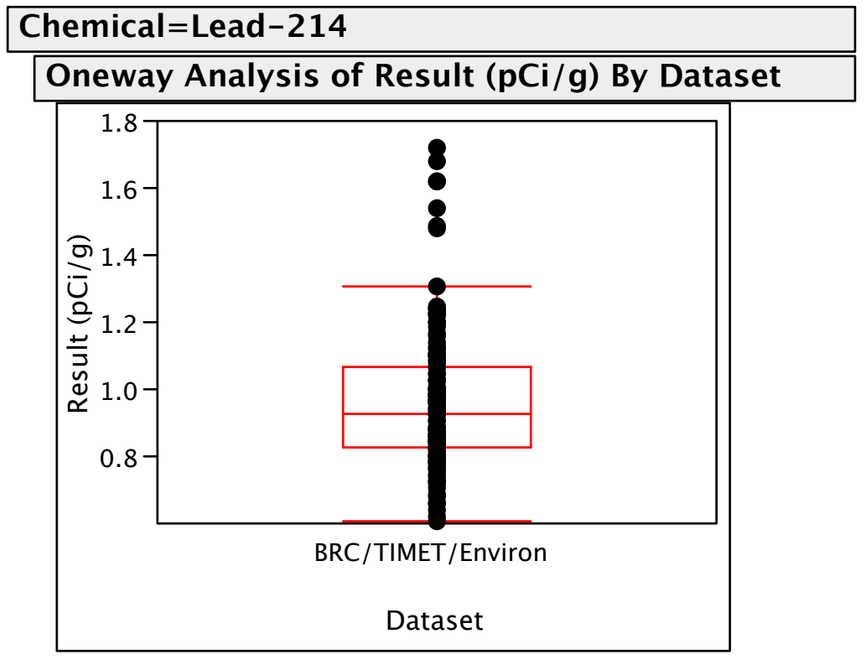


FIGURE G-2 (Continued)

DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL

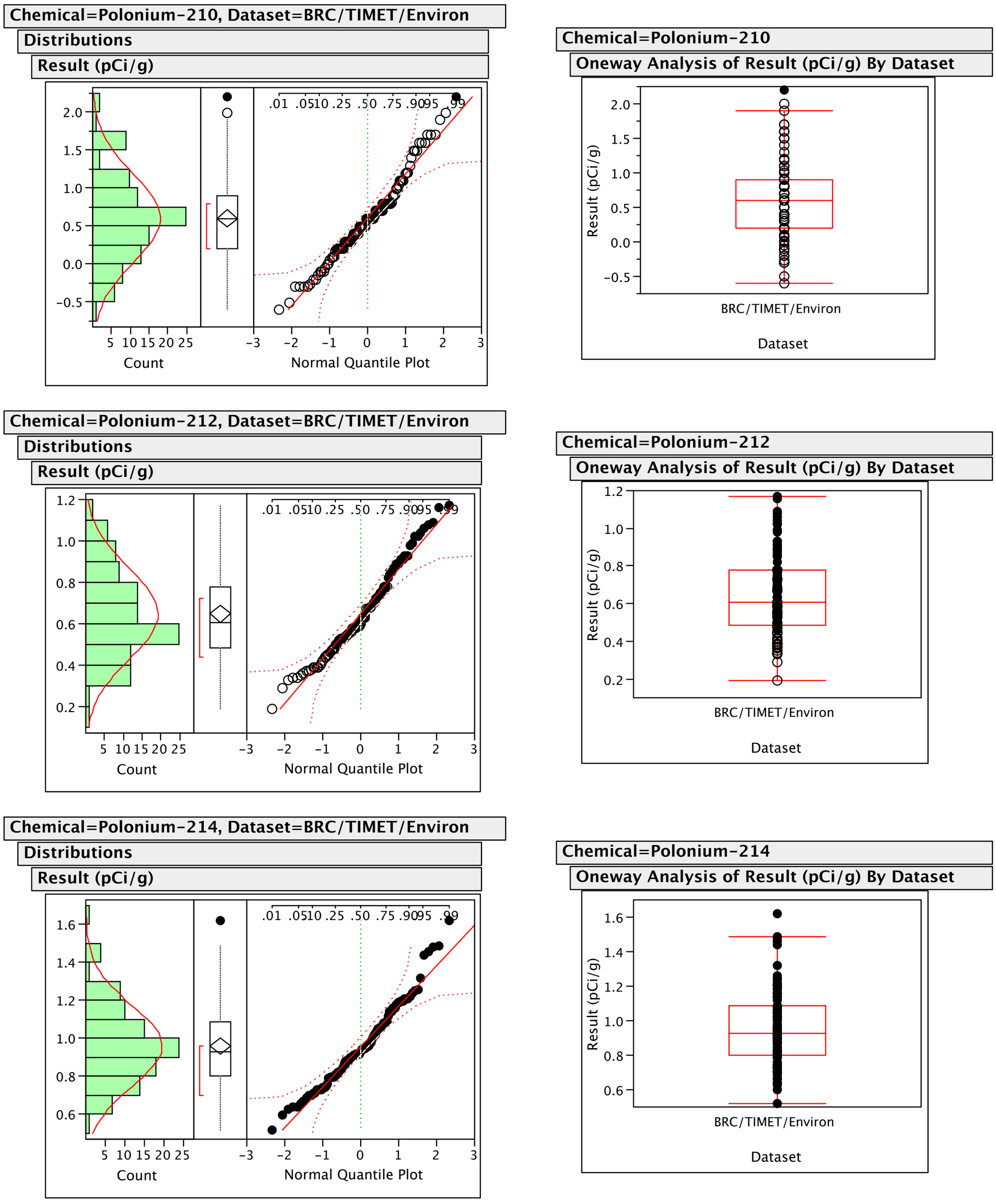


FIGURE G-2 (Continued)

DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL

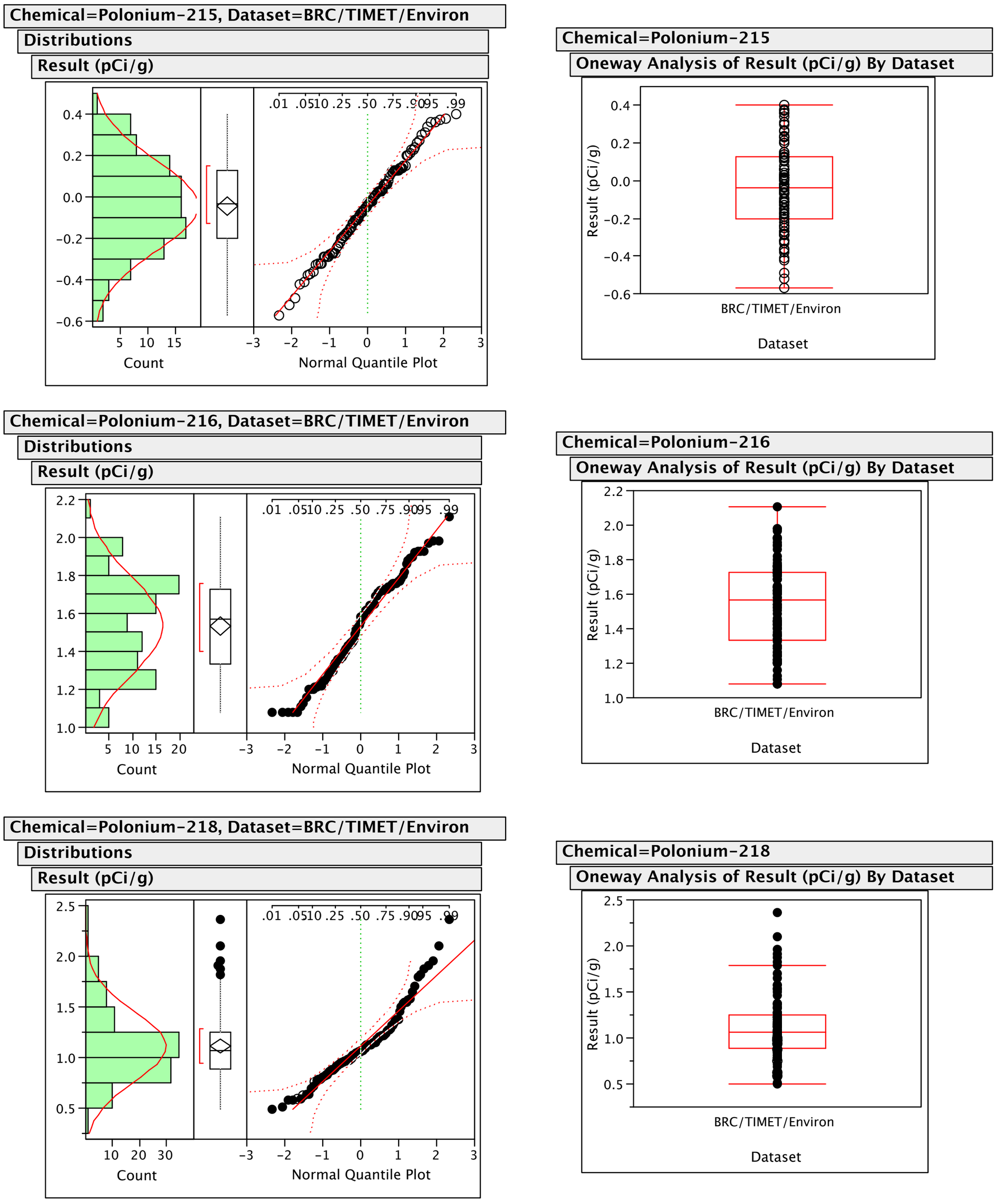


FIGURE G-2 (Continued)

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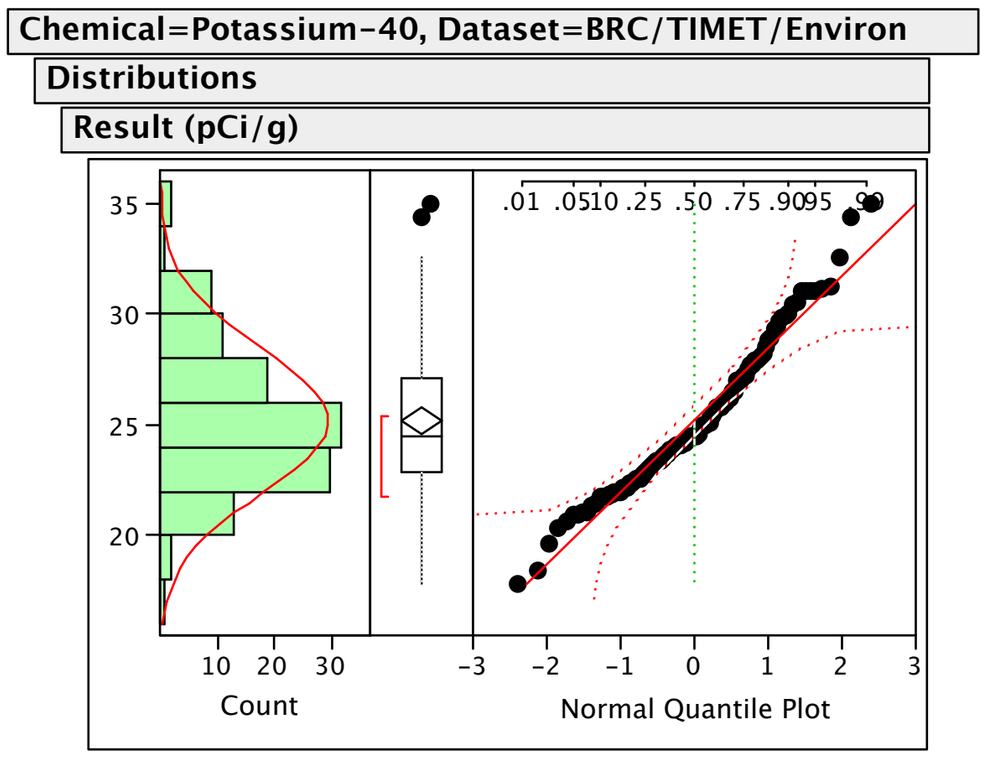
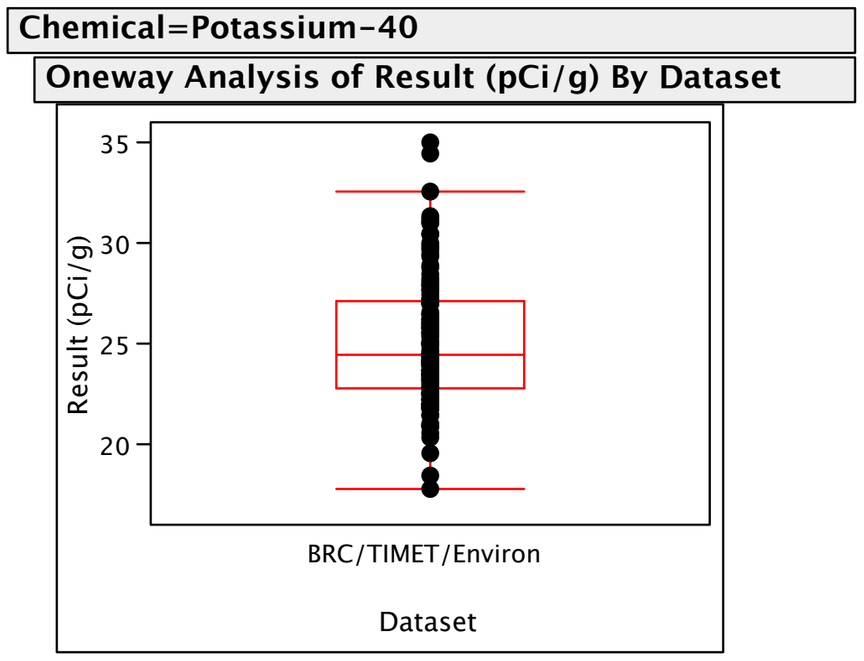
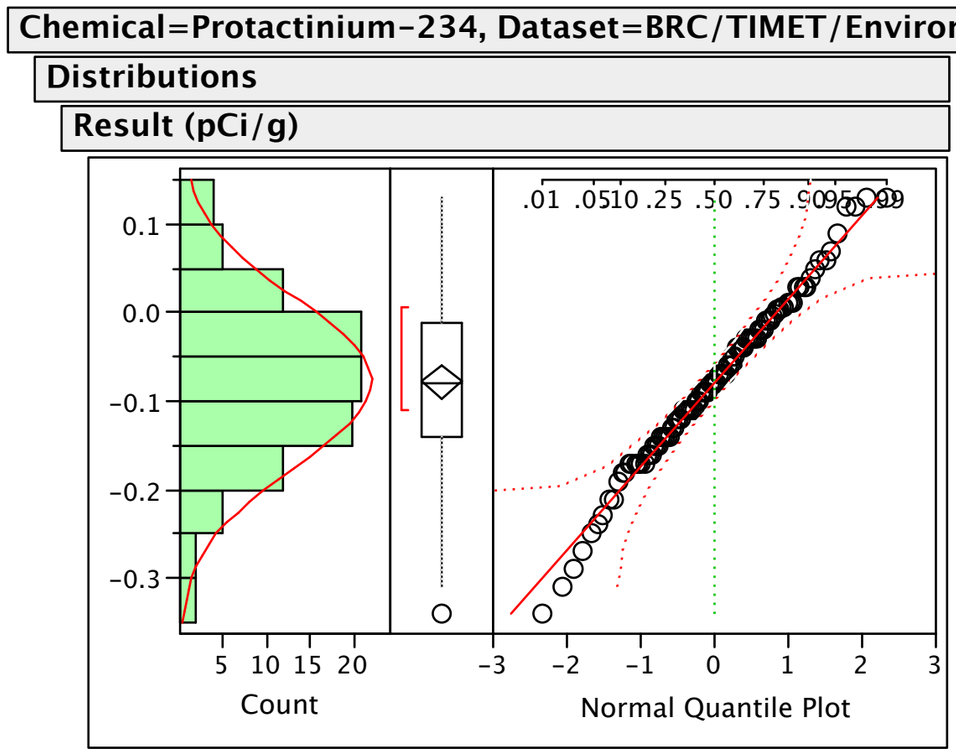
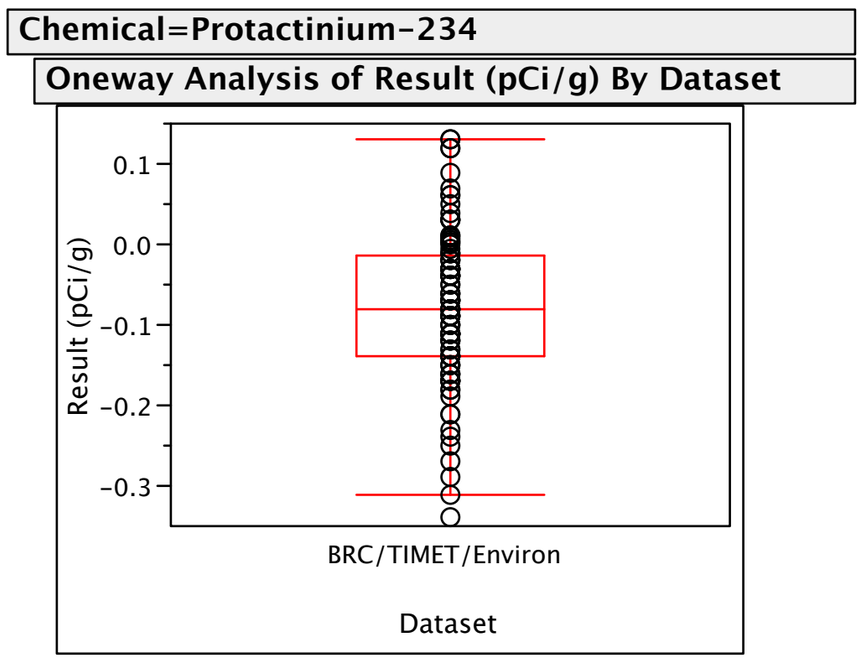
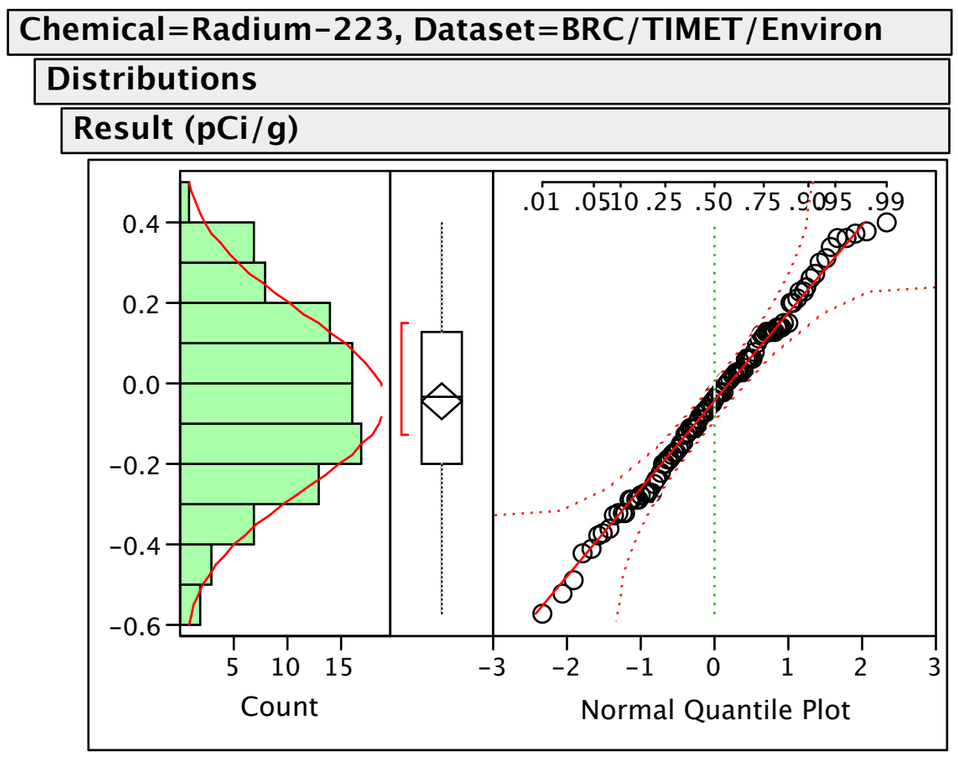










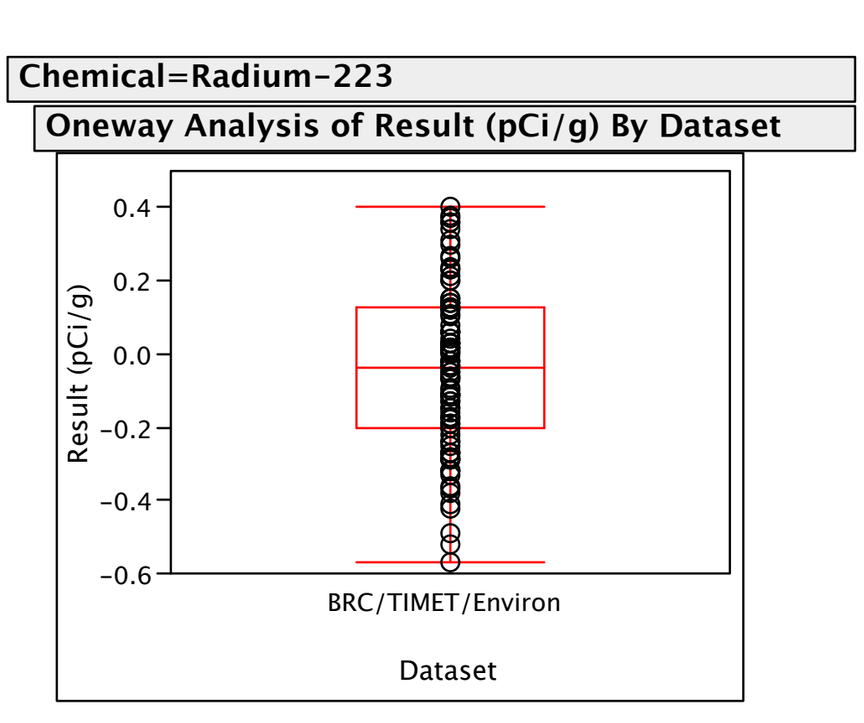
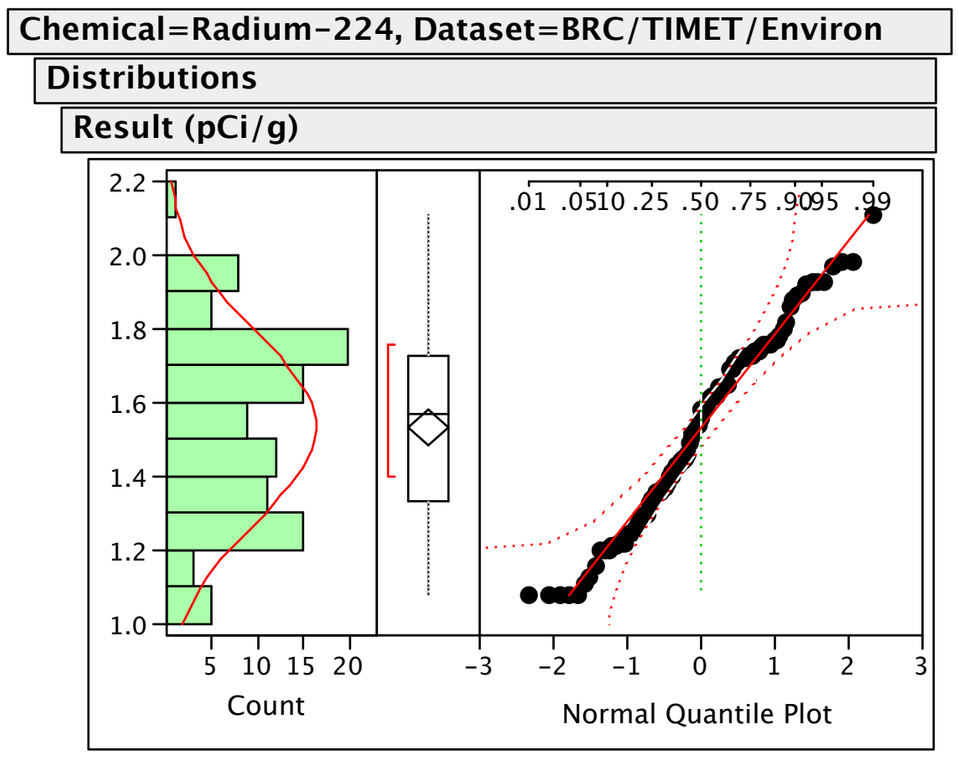
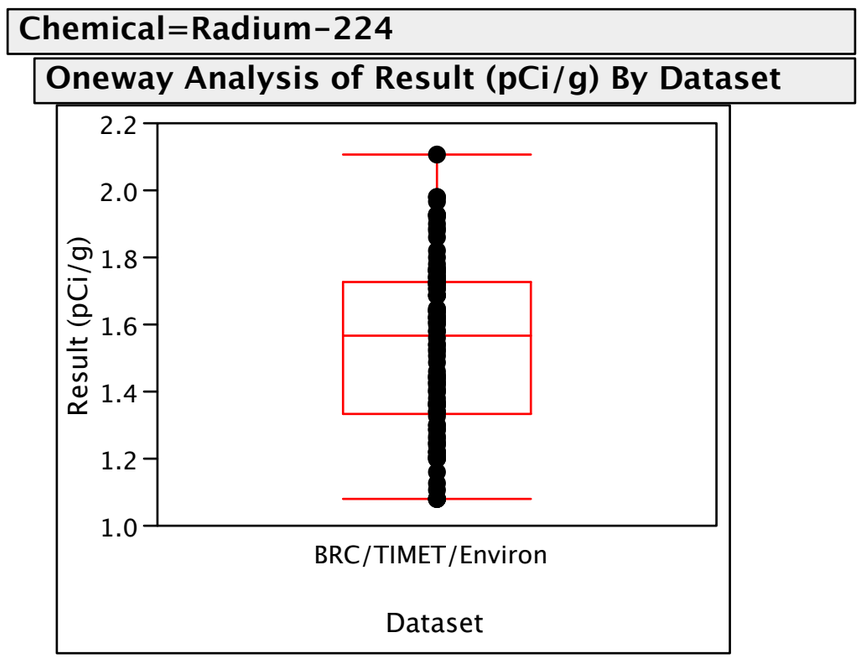
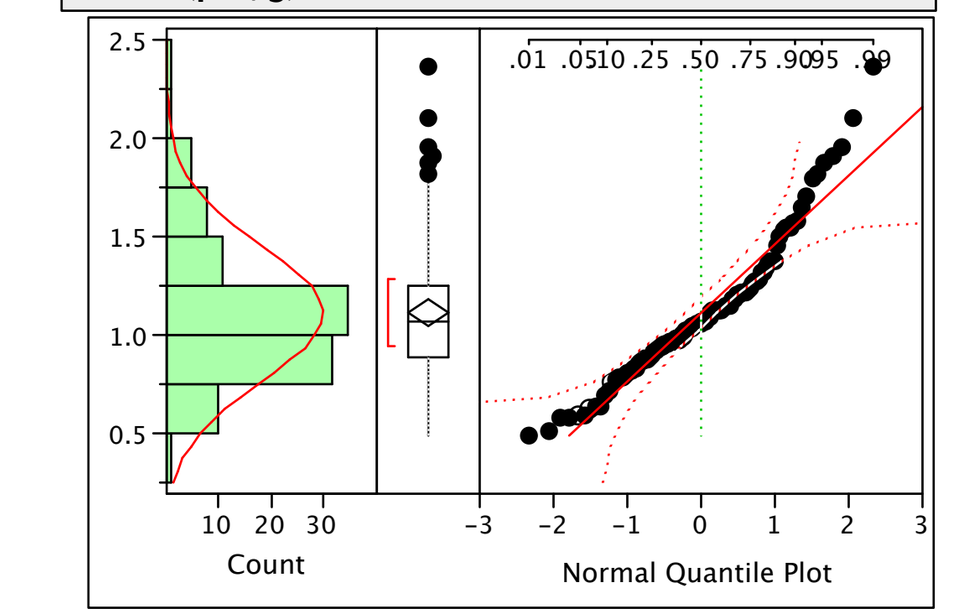


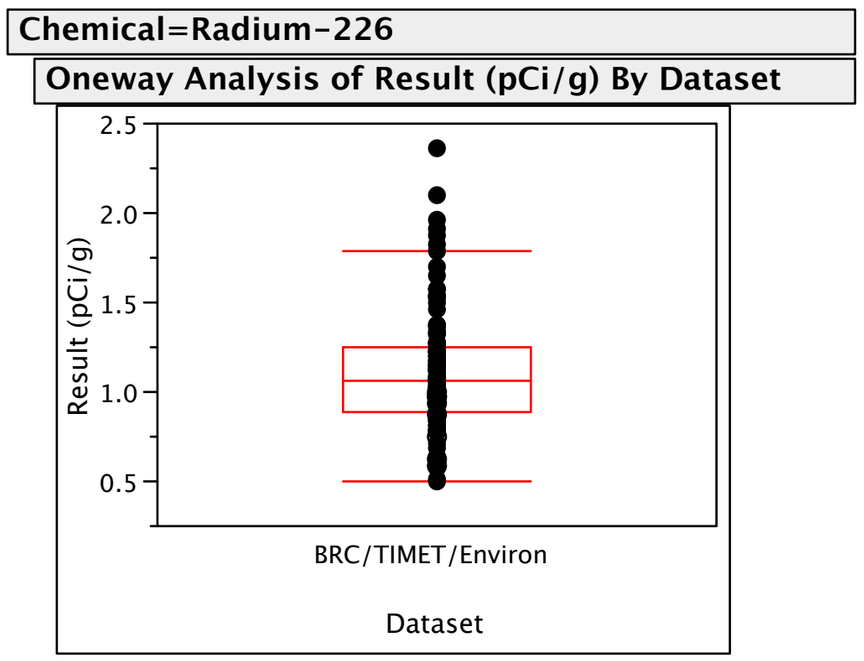
FIGURE G-2 (Continued)

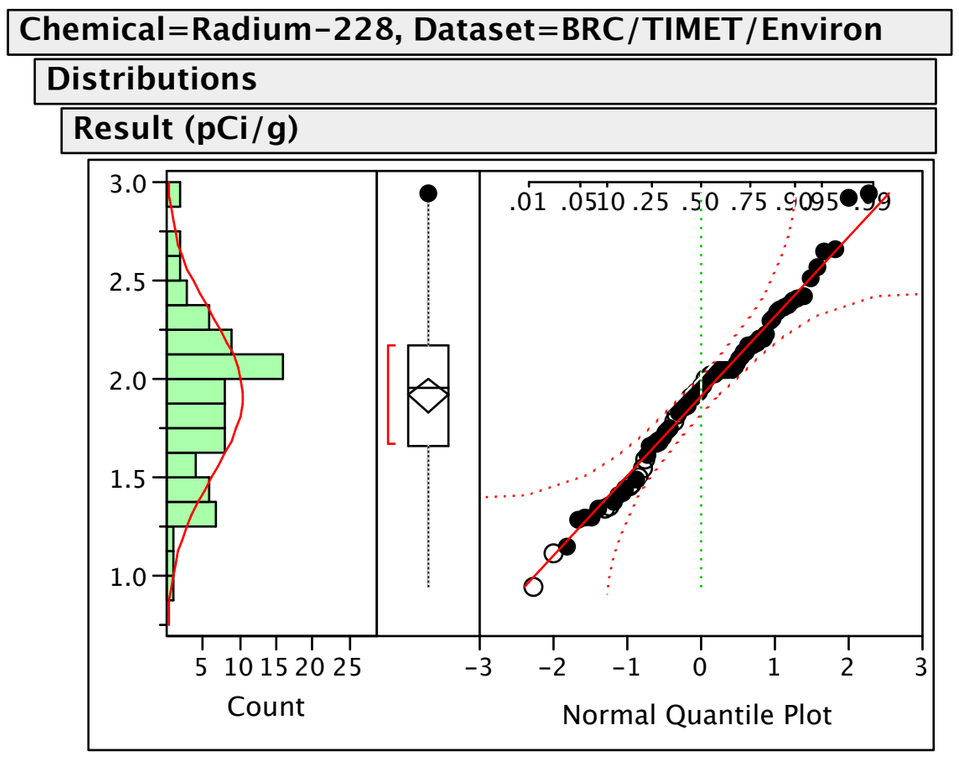
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











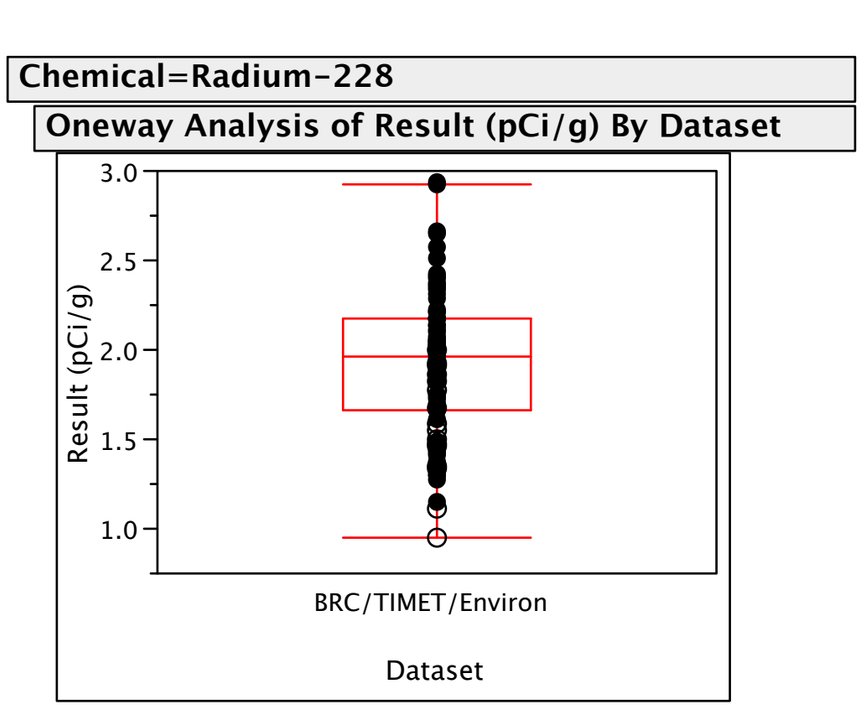


FIGURE G-2 (Continued)

DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL

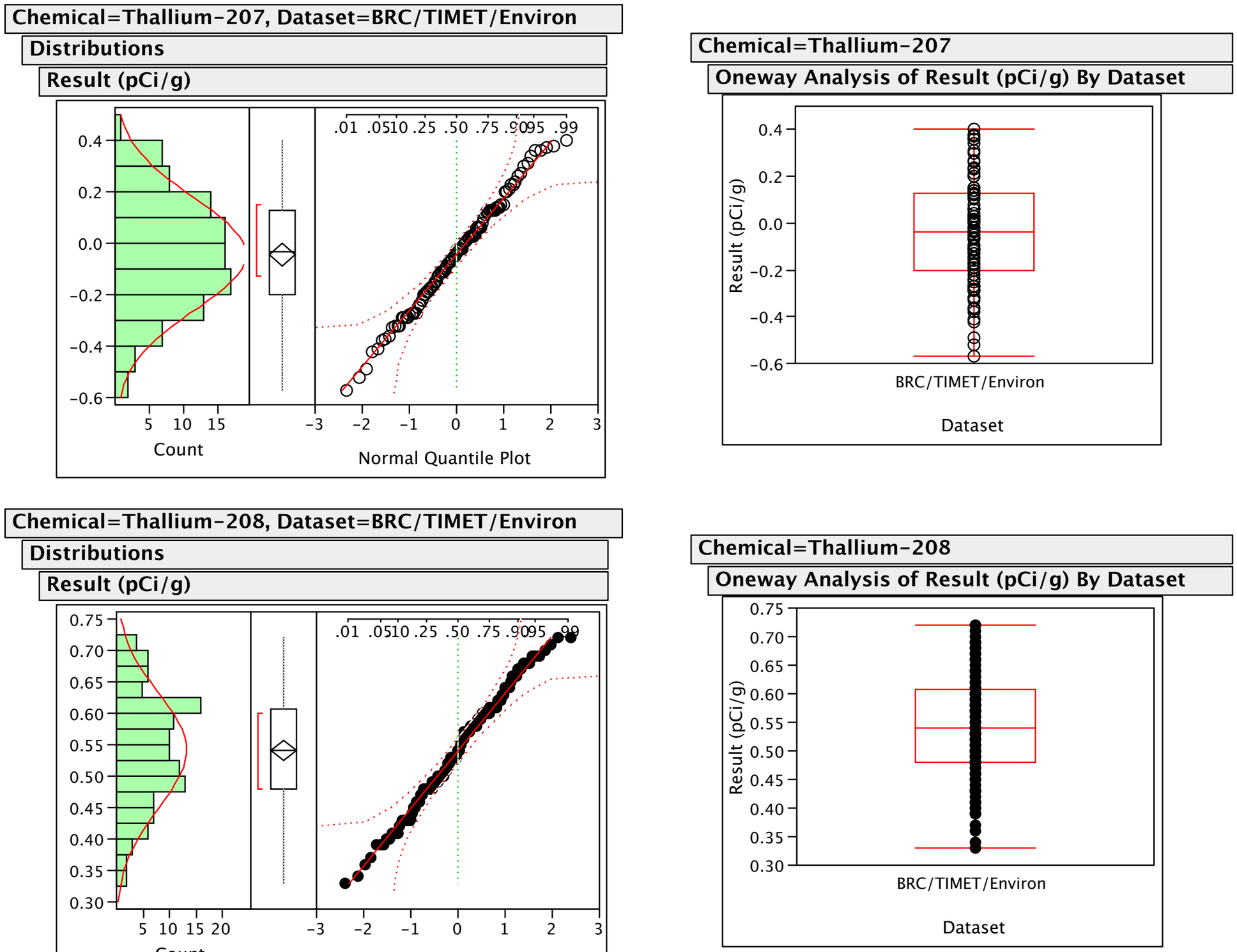
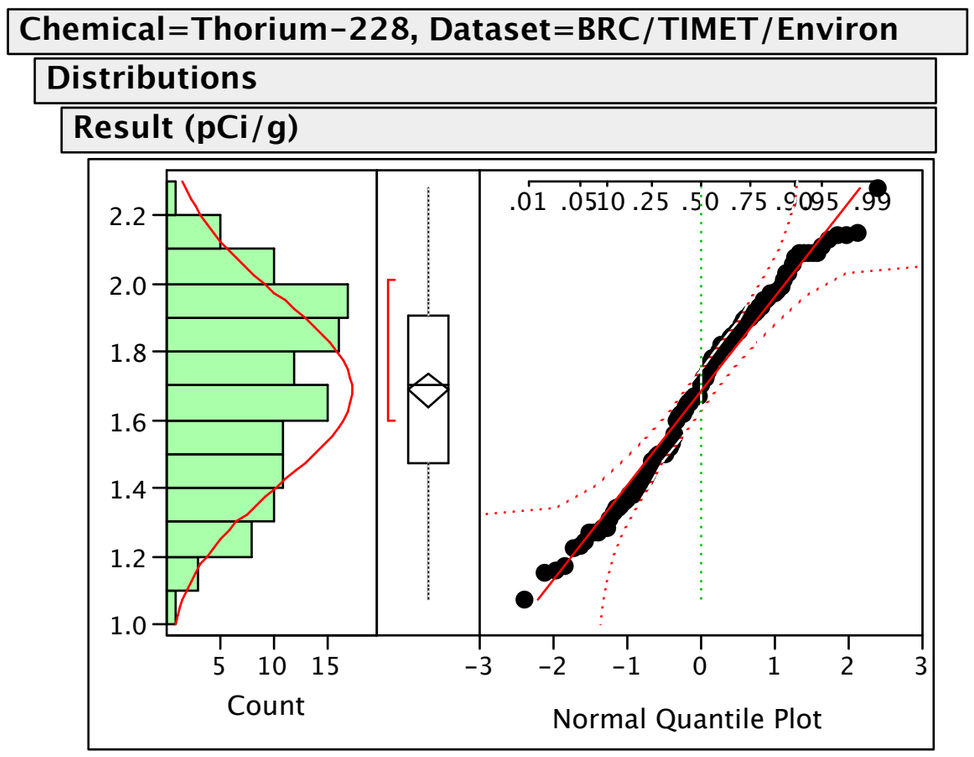
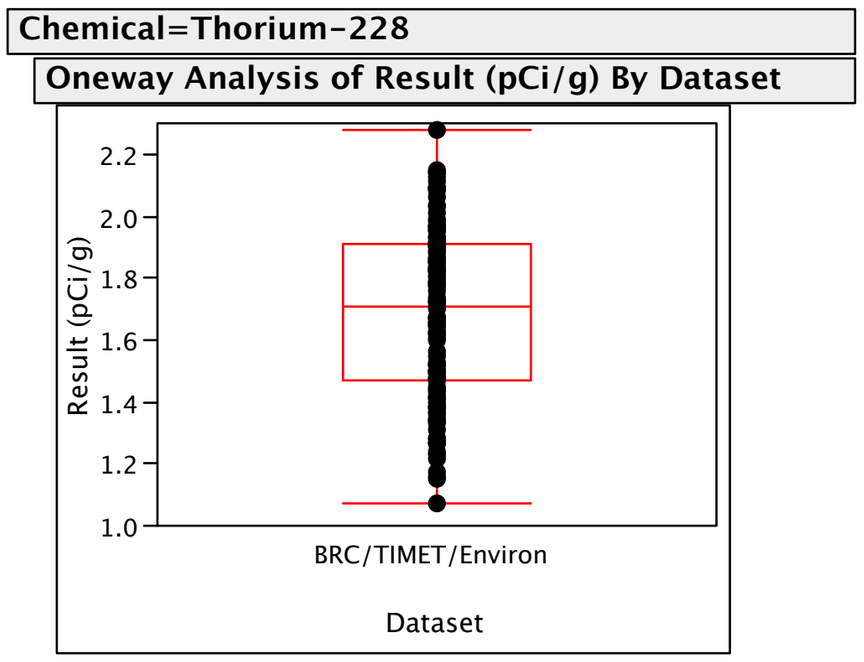
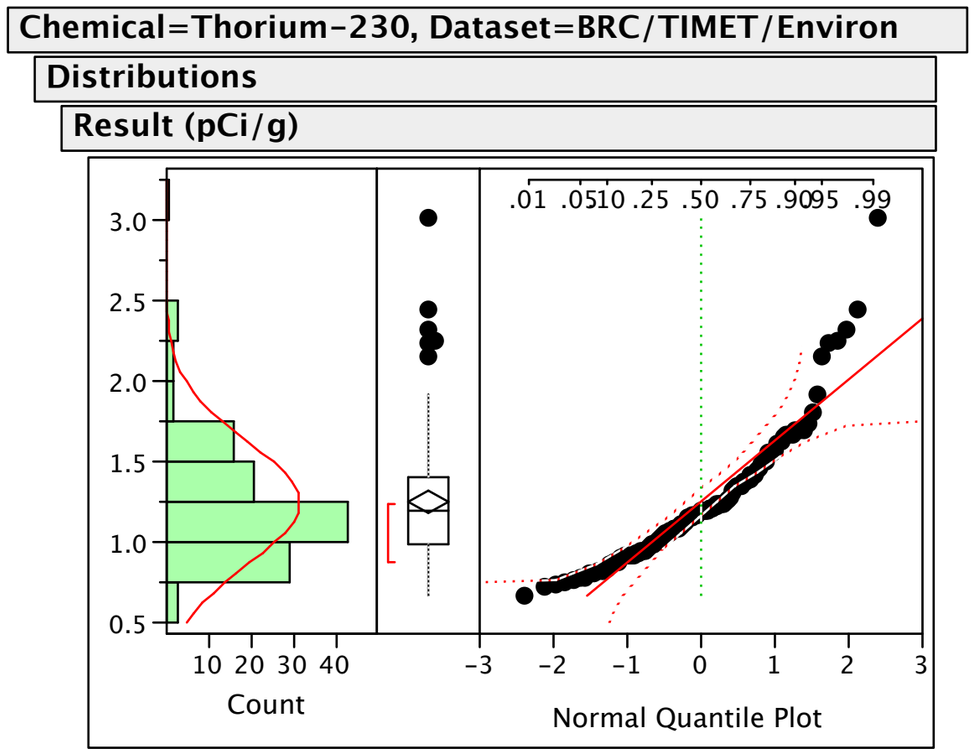


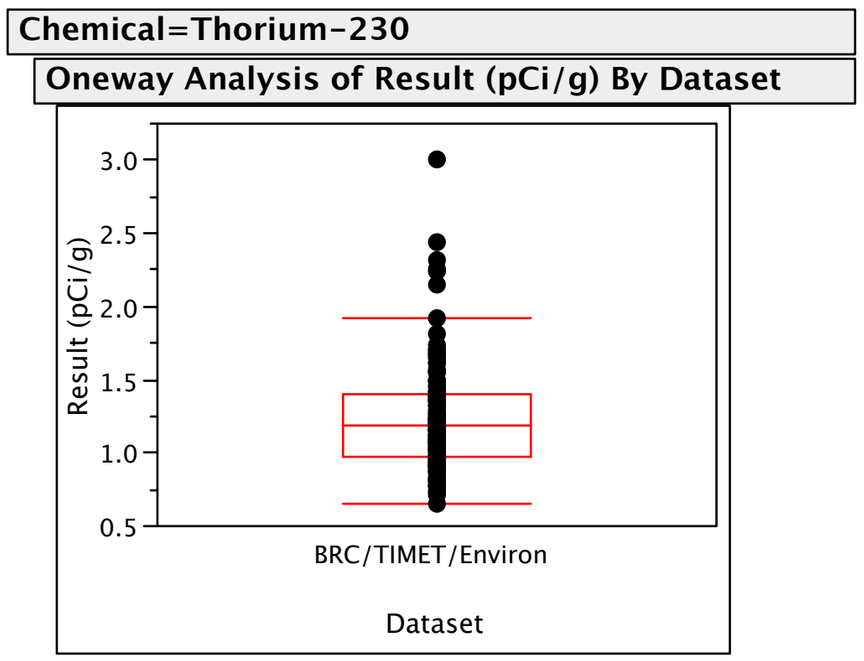
FIGURE G-2 (Continued)

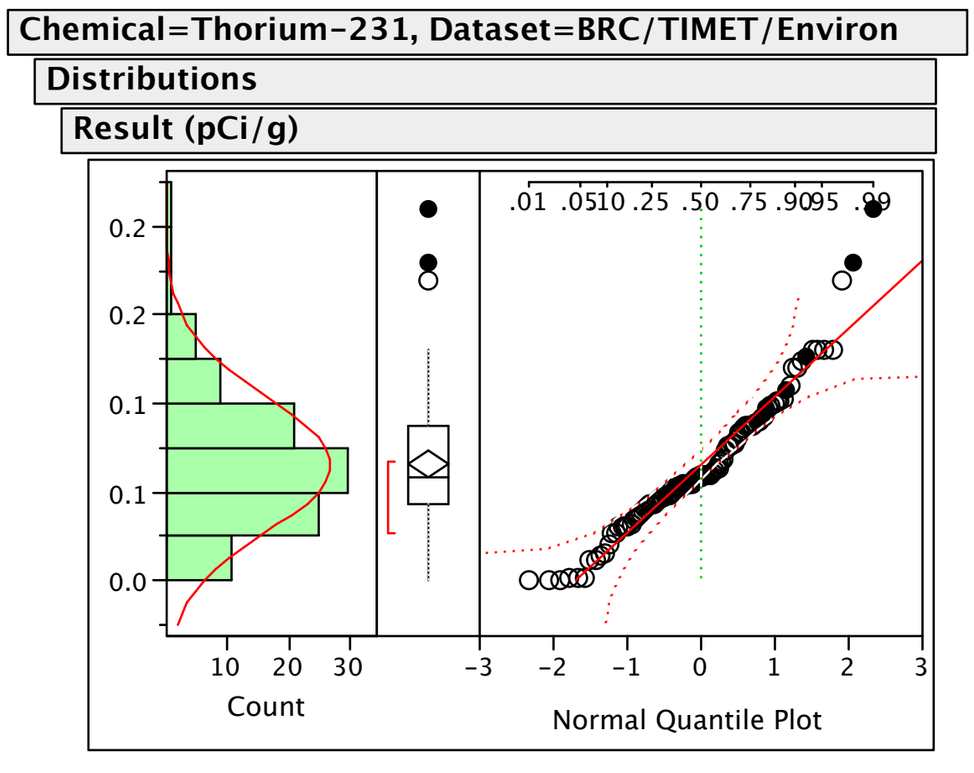
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











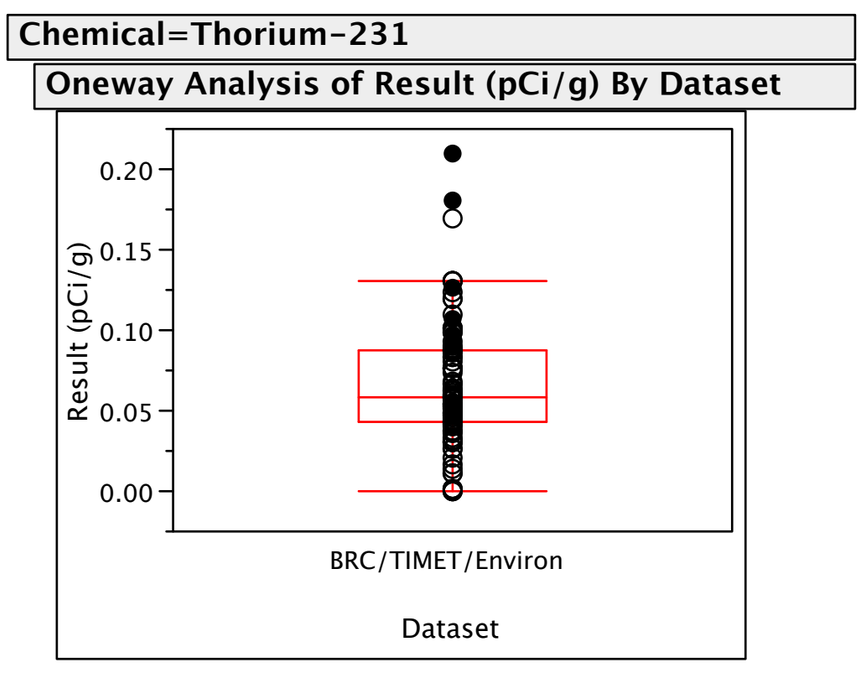
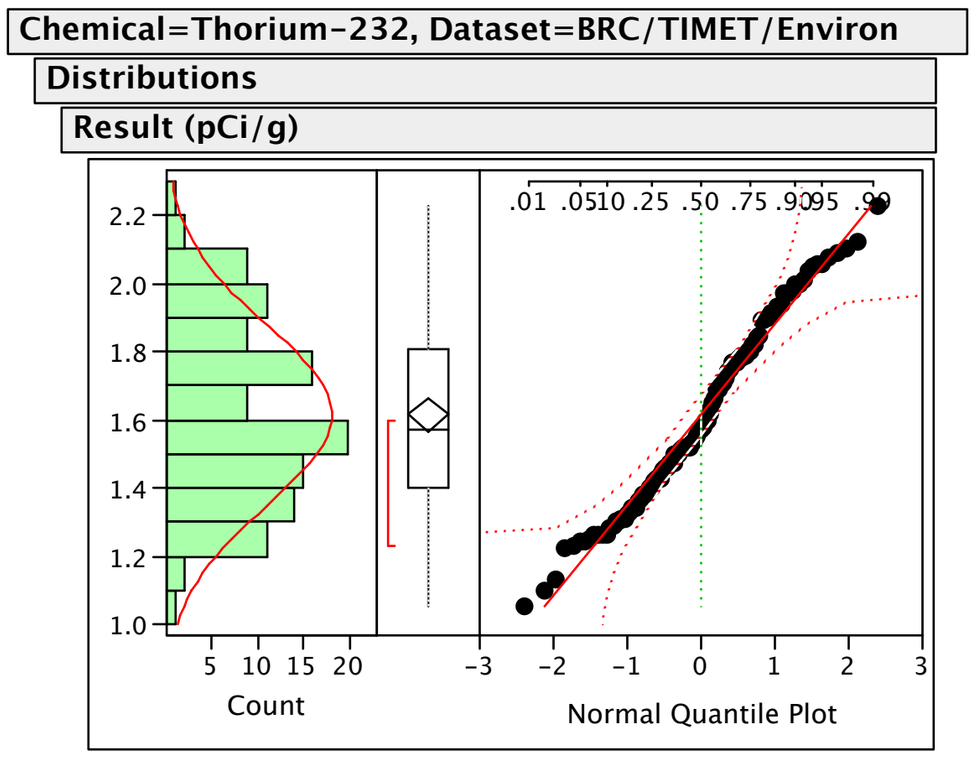
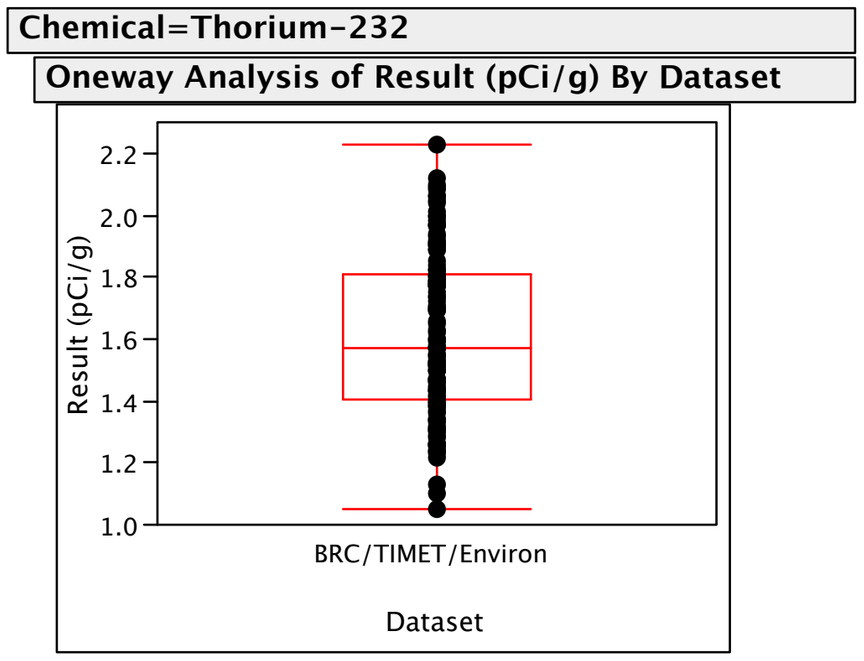
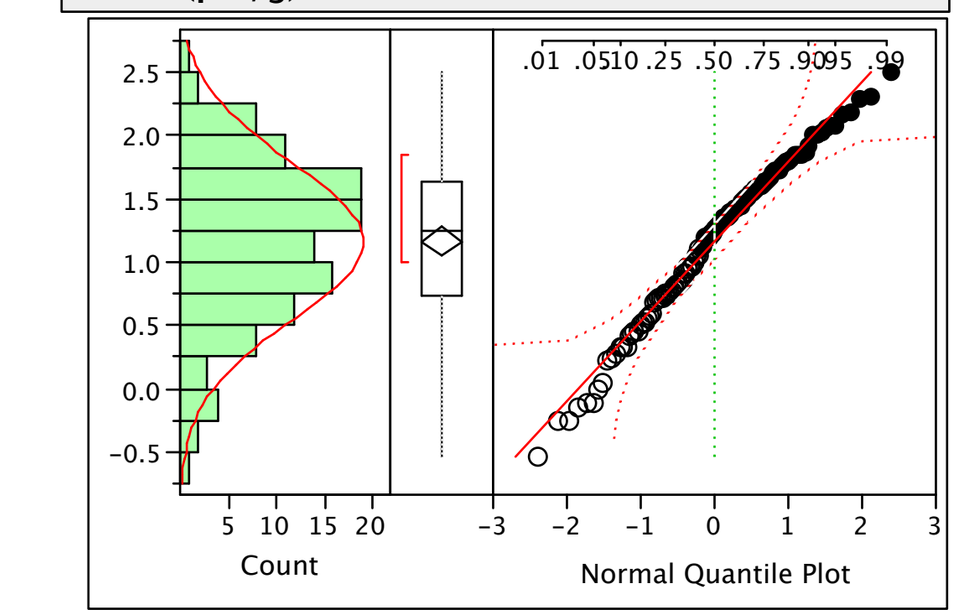


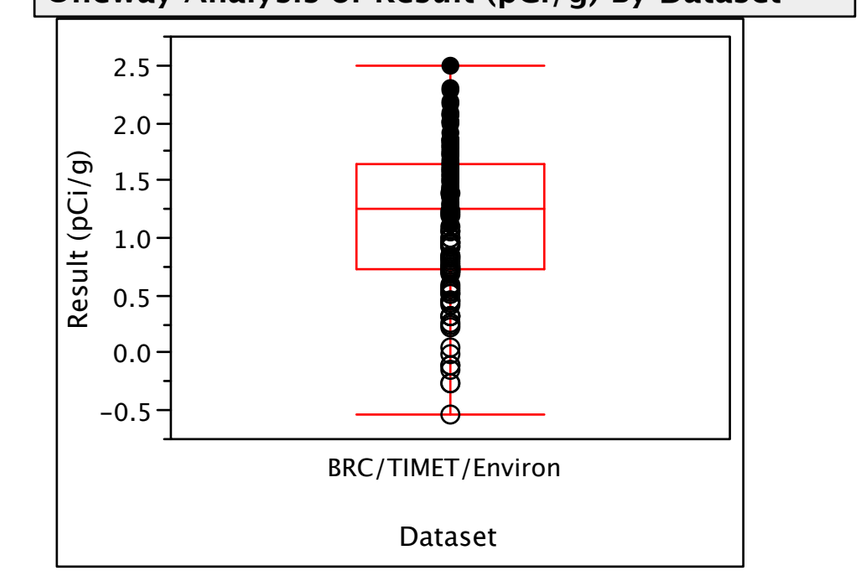
FIGURE G-2 (Continued)

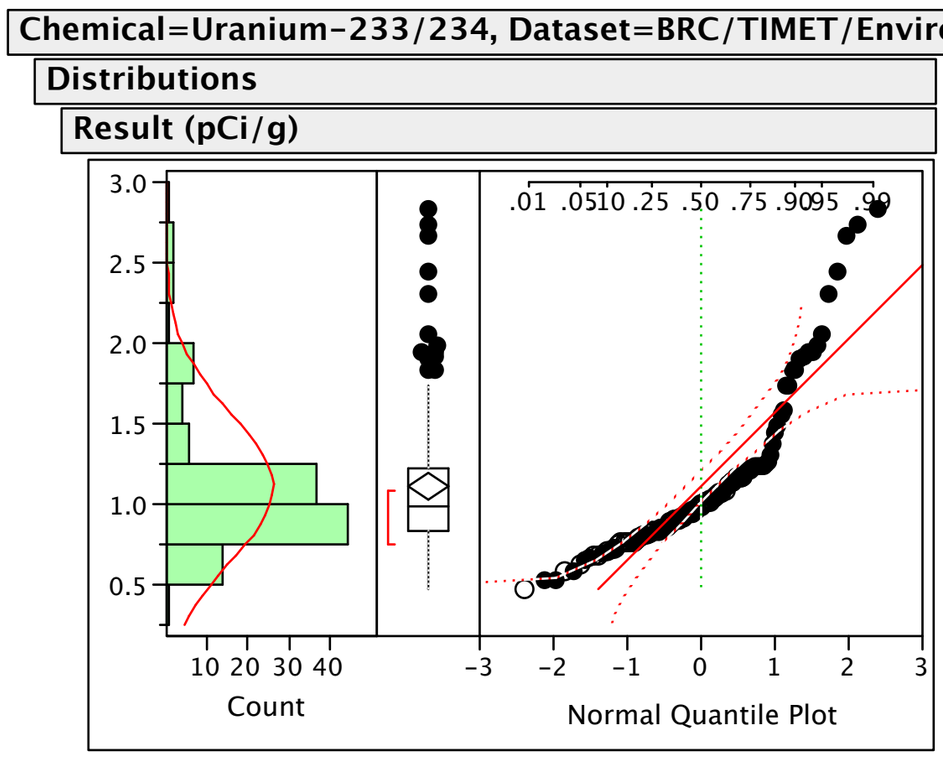
DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL











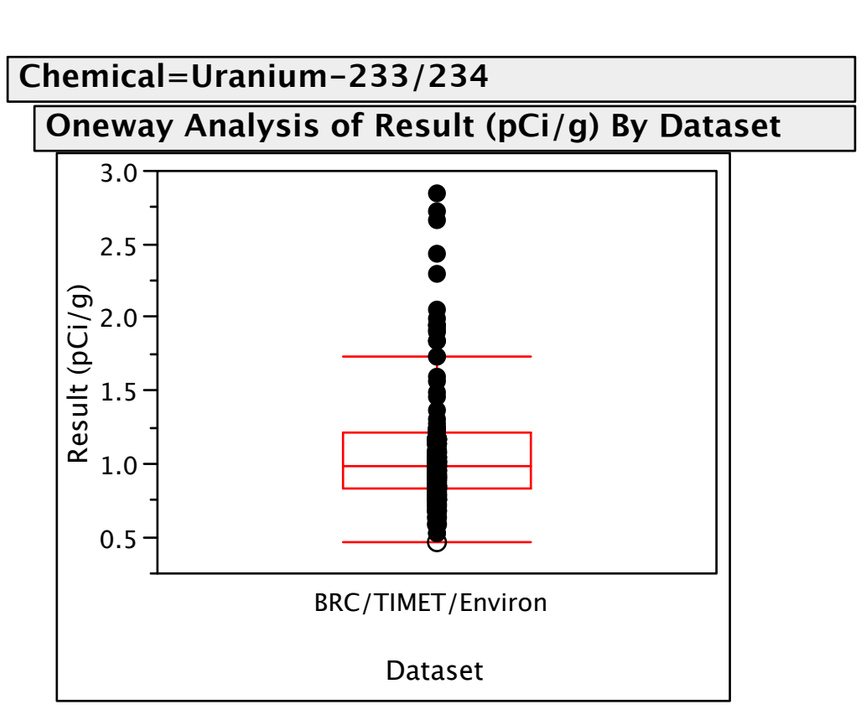
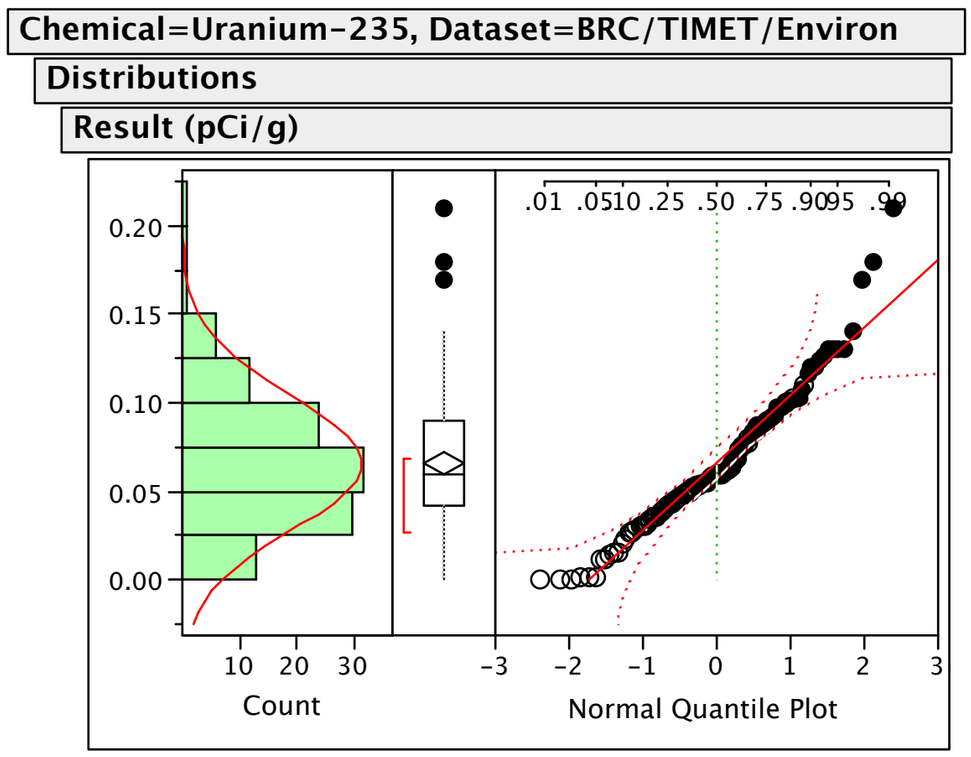
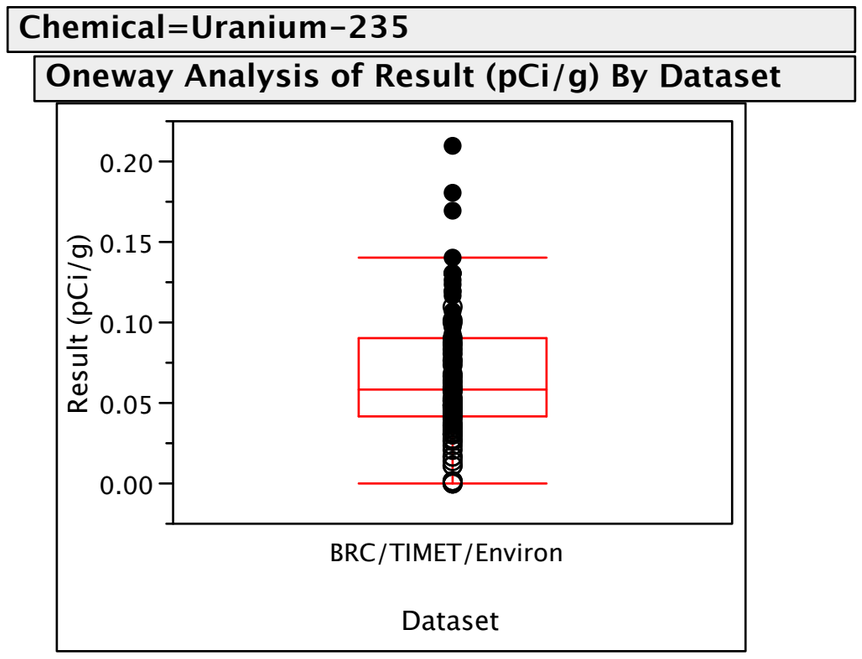
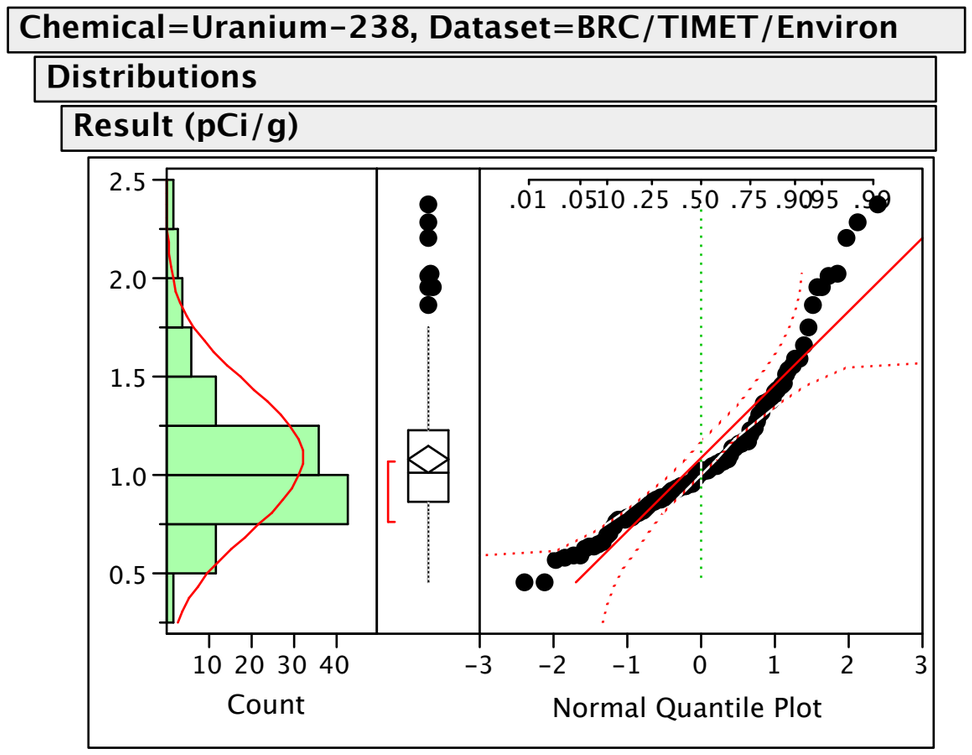


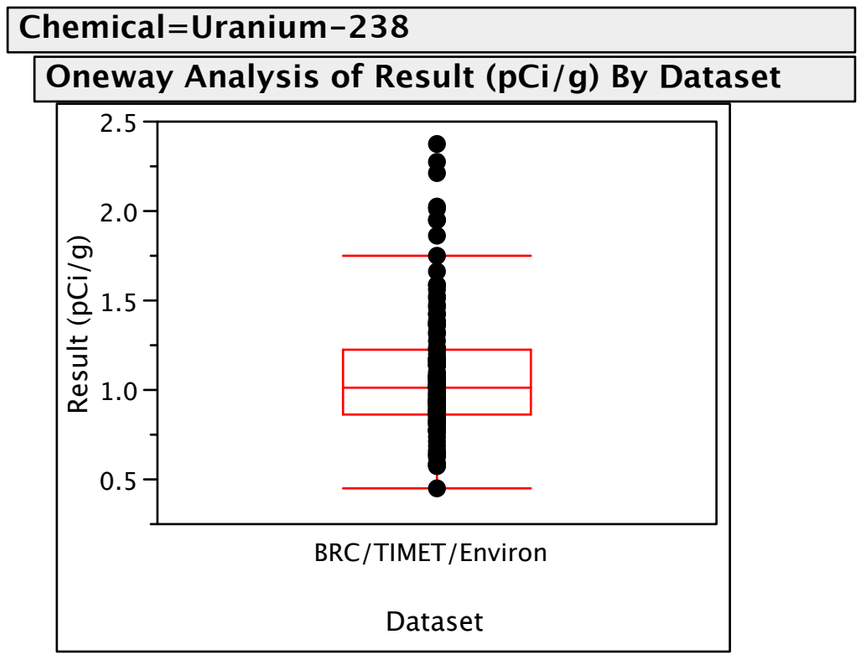
FIGURE G-2 (Continued)

DISTRIBUTION OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL



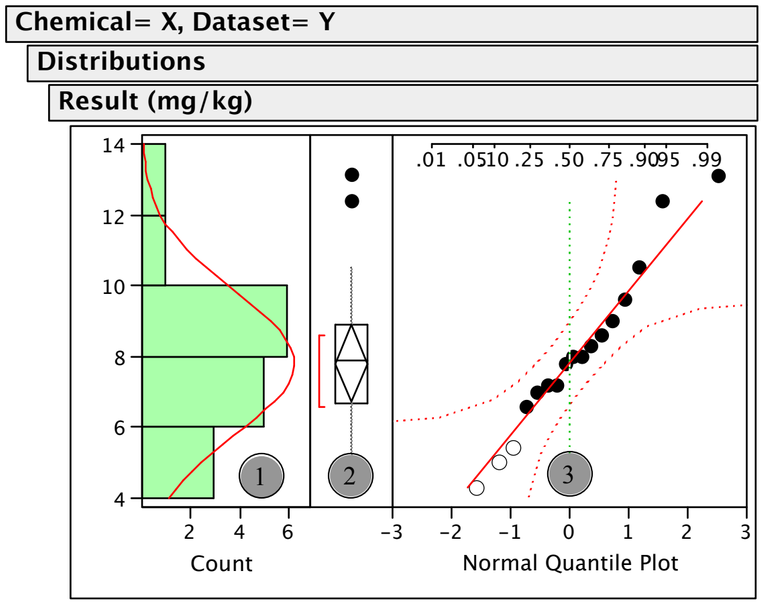


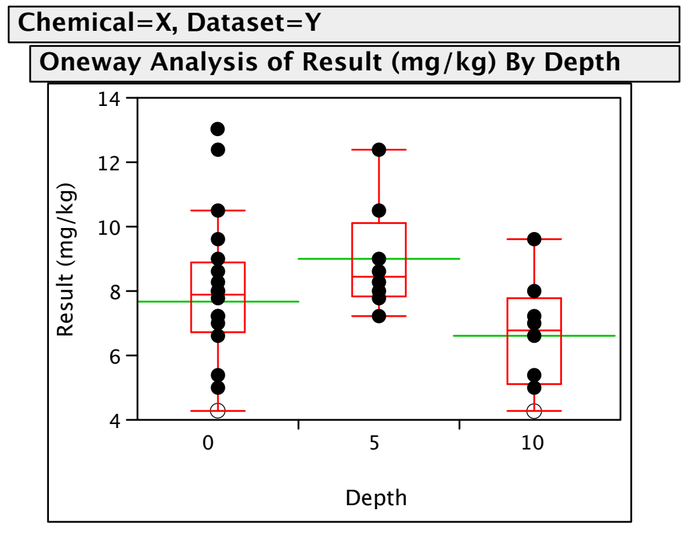




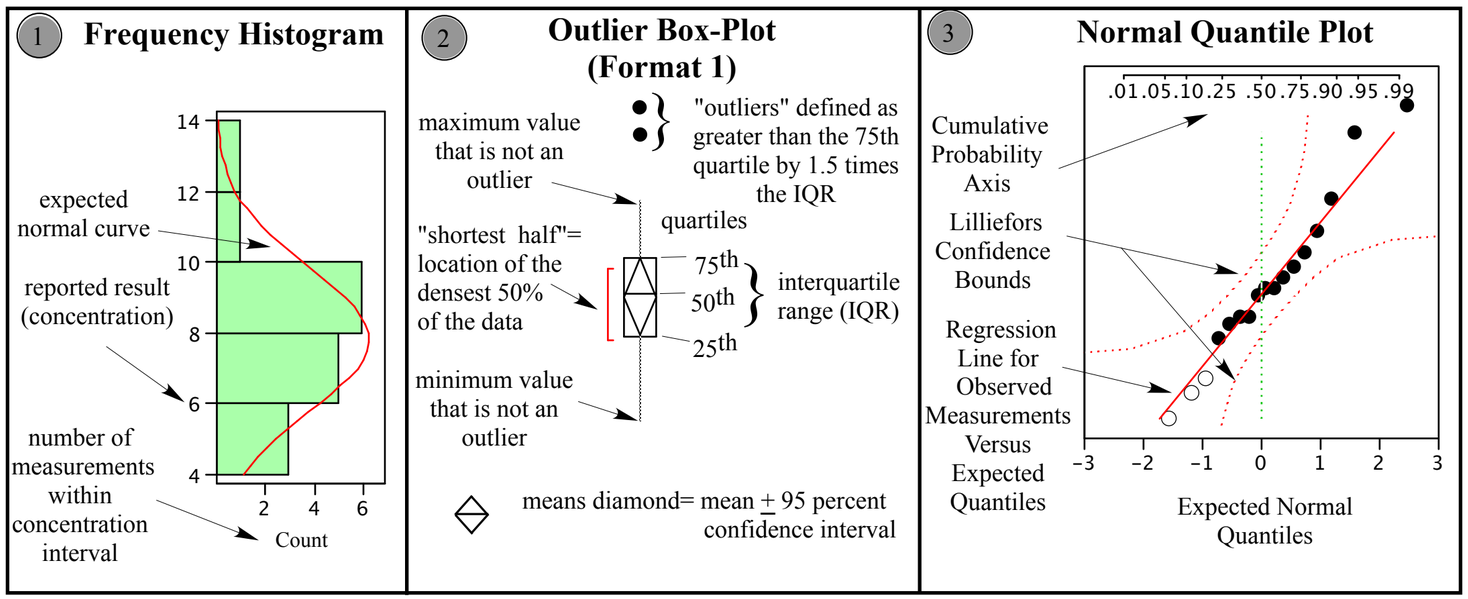
KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-3

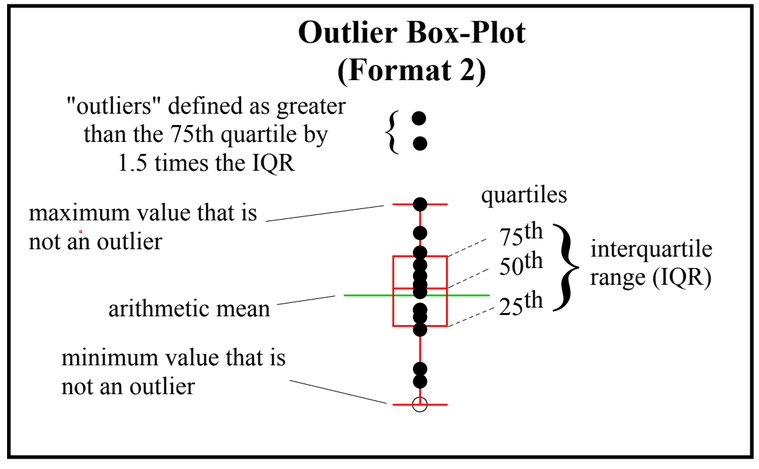
Example Figures From Appendix





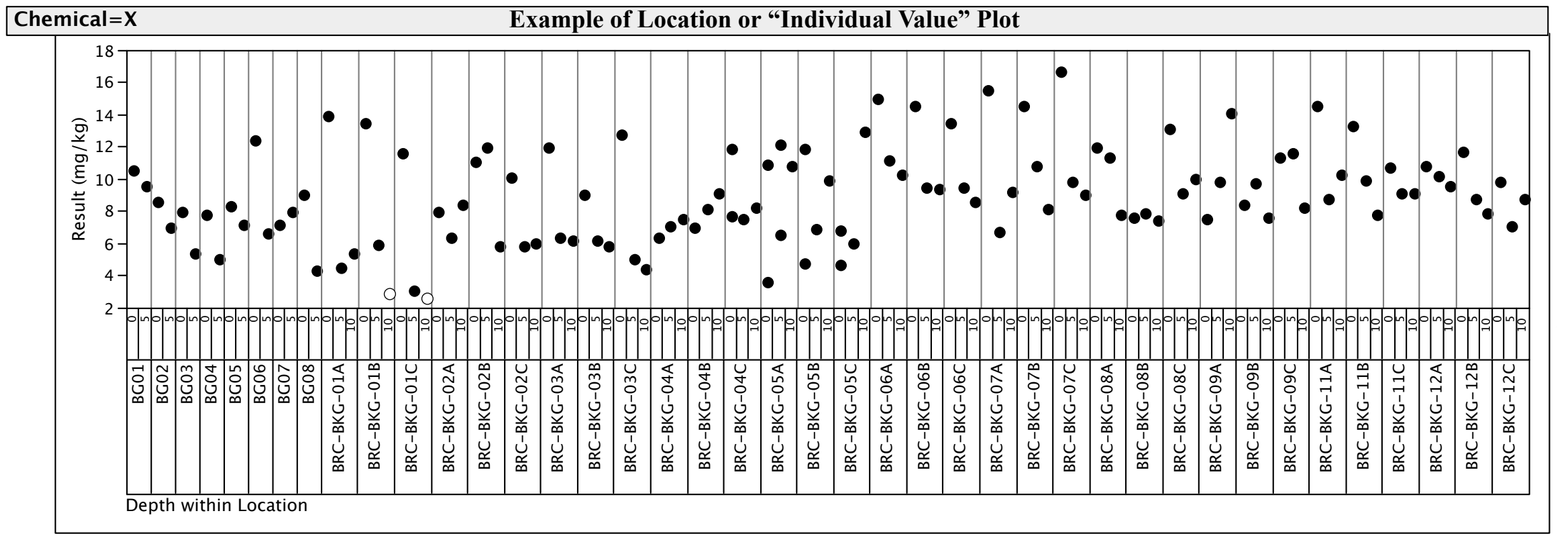
Keys to Individual Figure Panels





● detected result

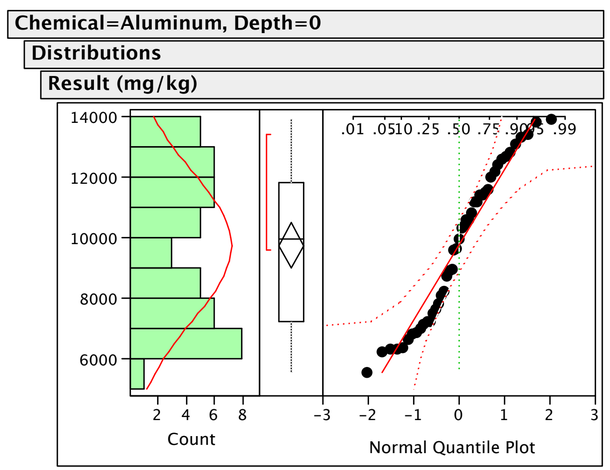
○ censored result

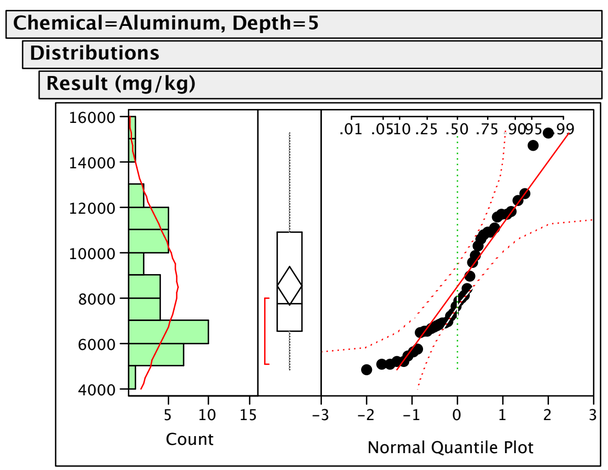


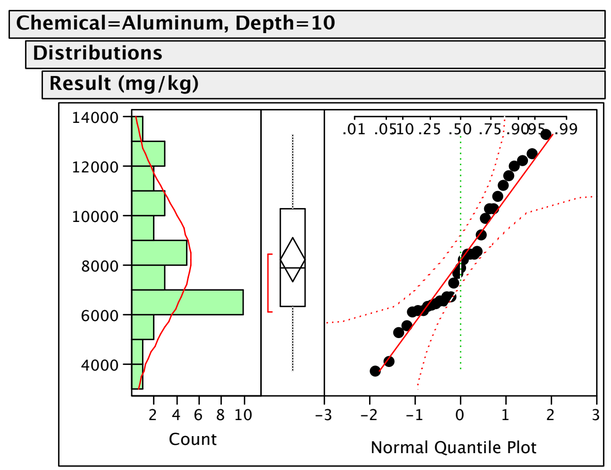
Results are Plottted for Individual Locations and Grouped by Soil Depth

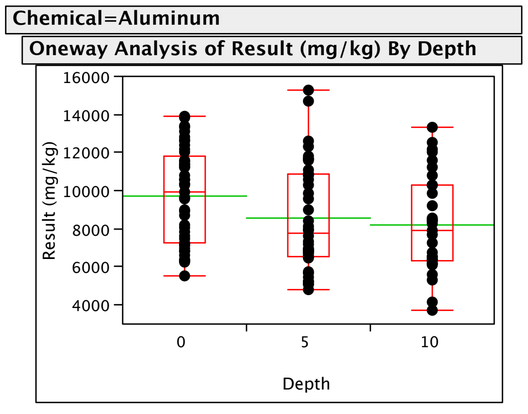
FIGURE G-3

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









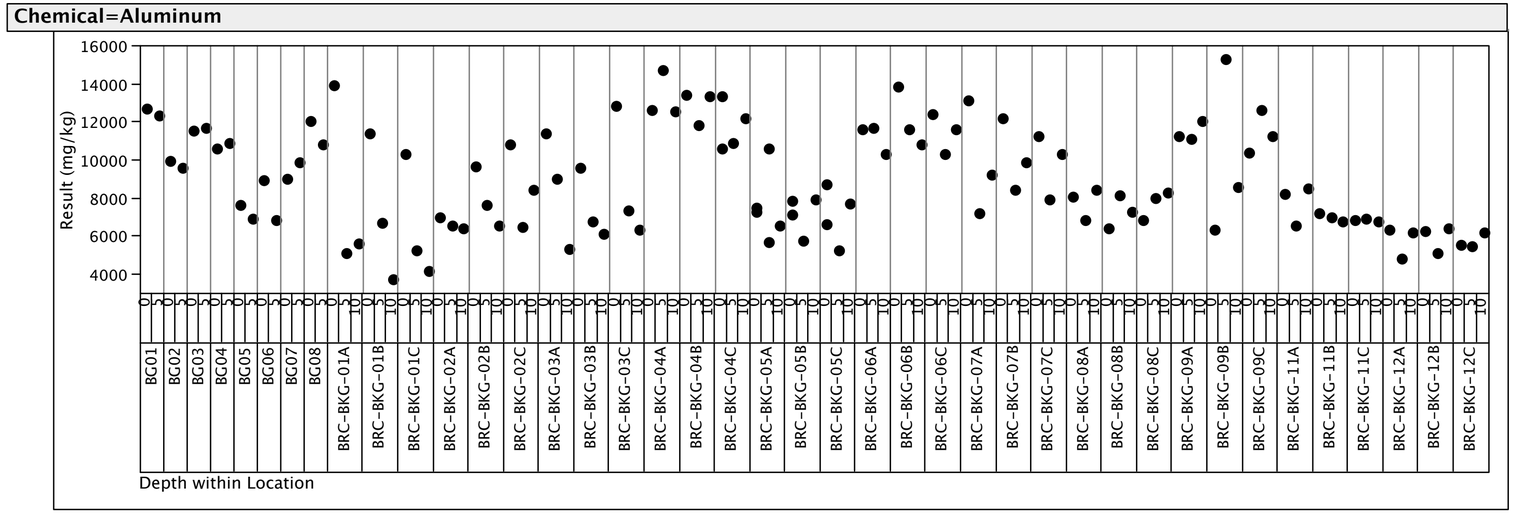
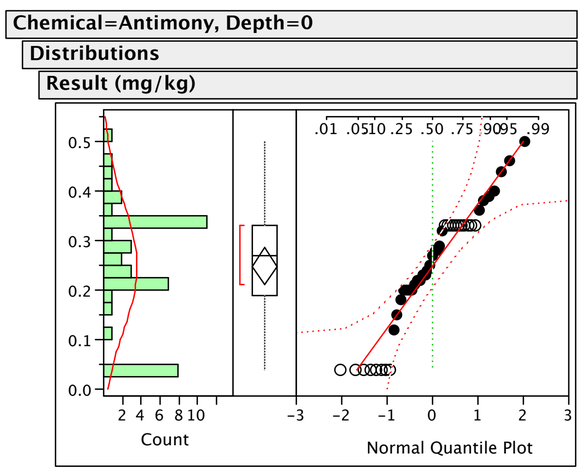
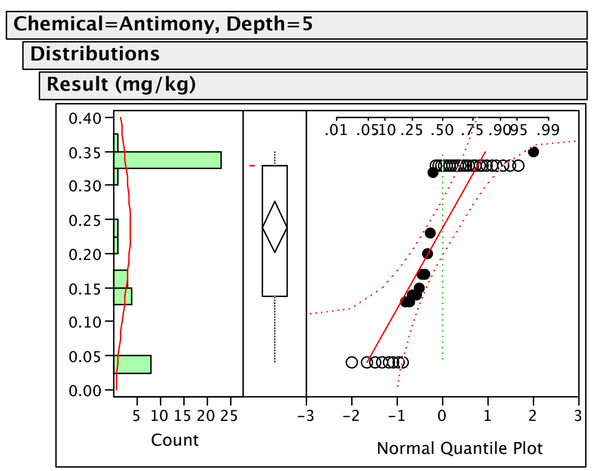
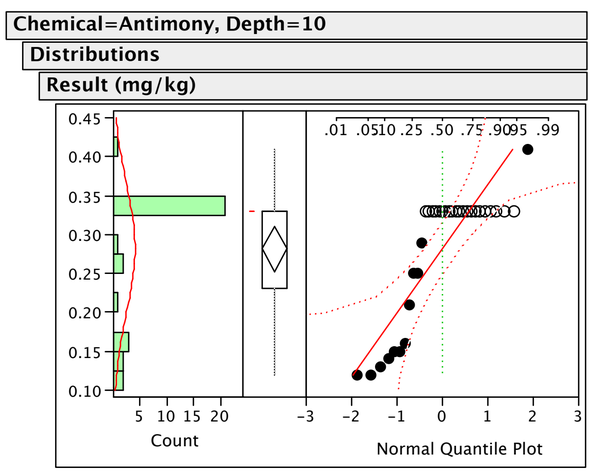


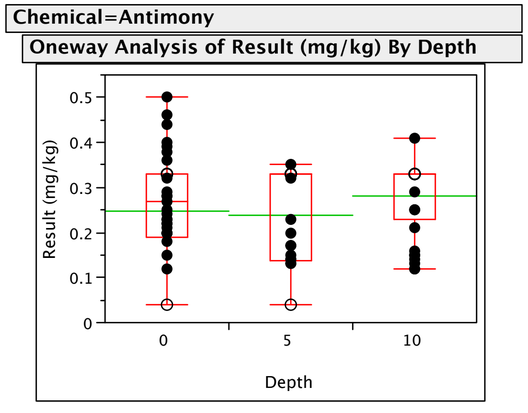
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









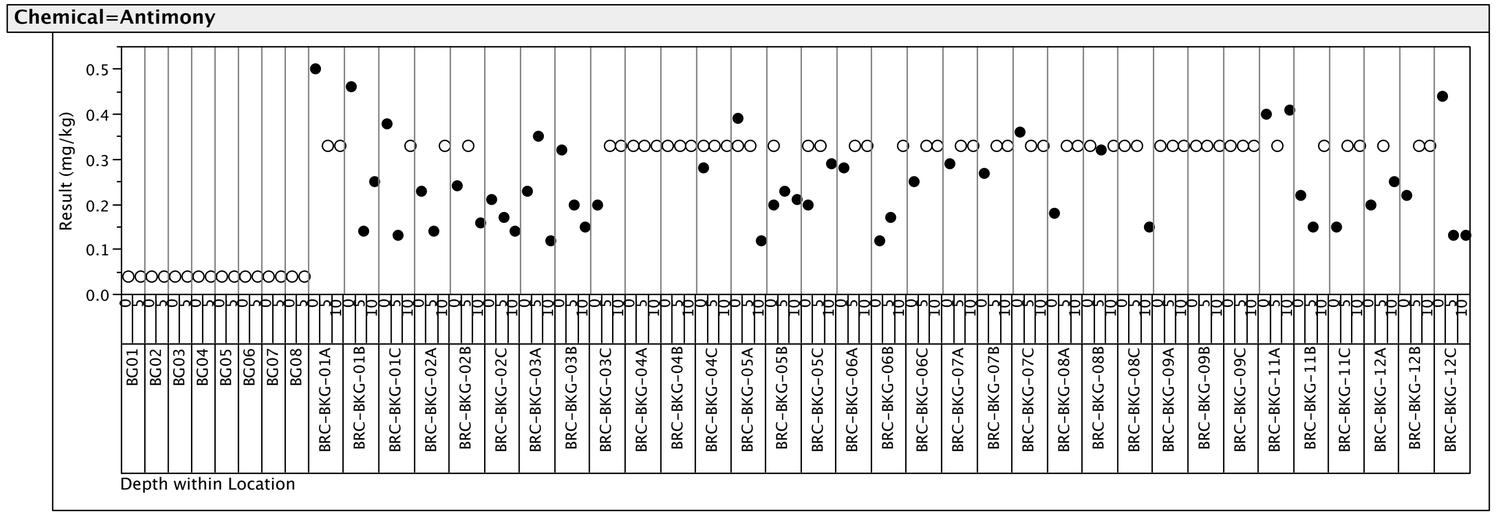
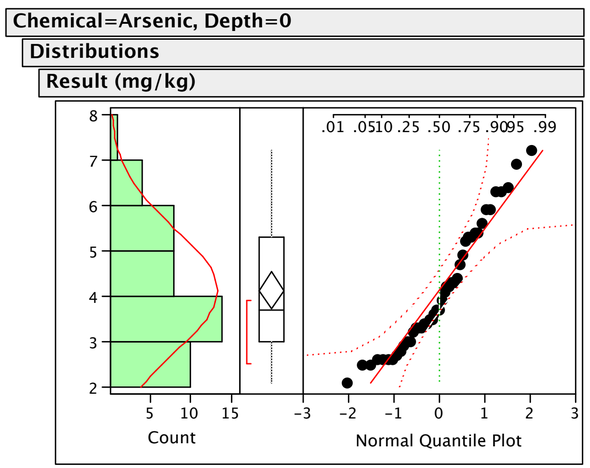
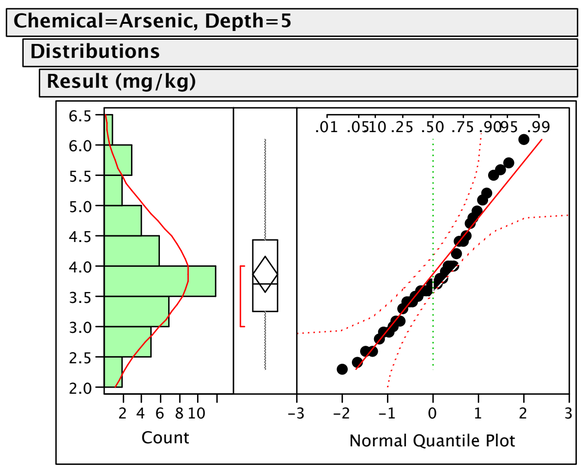
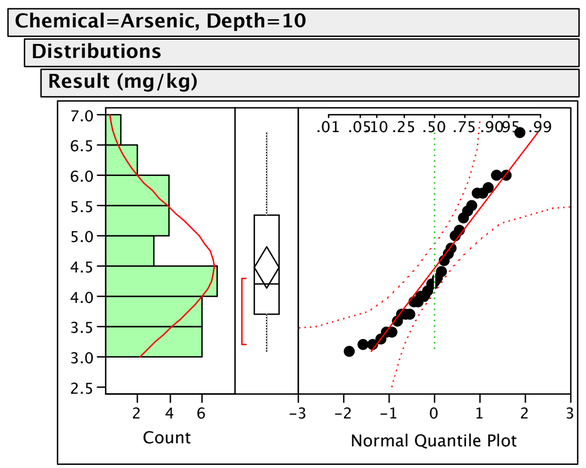


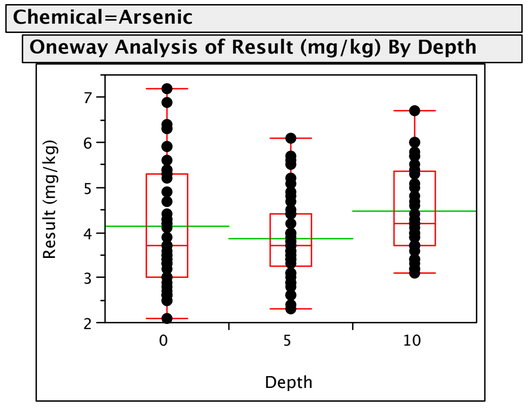
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









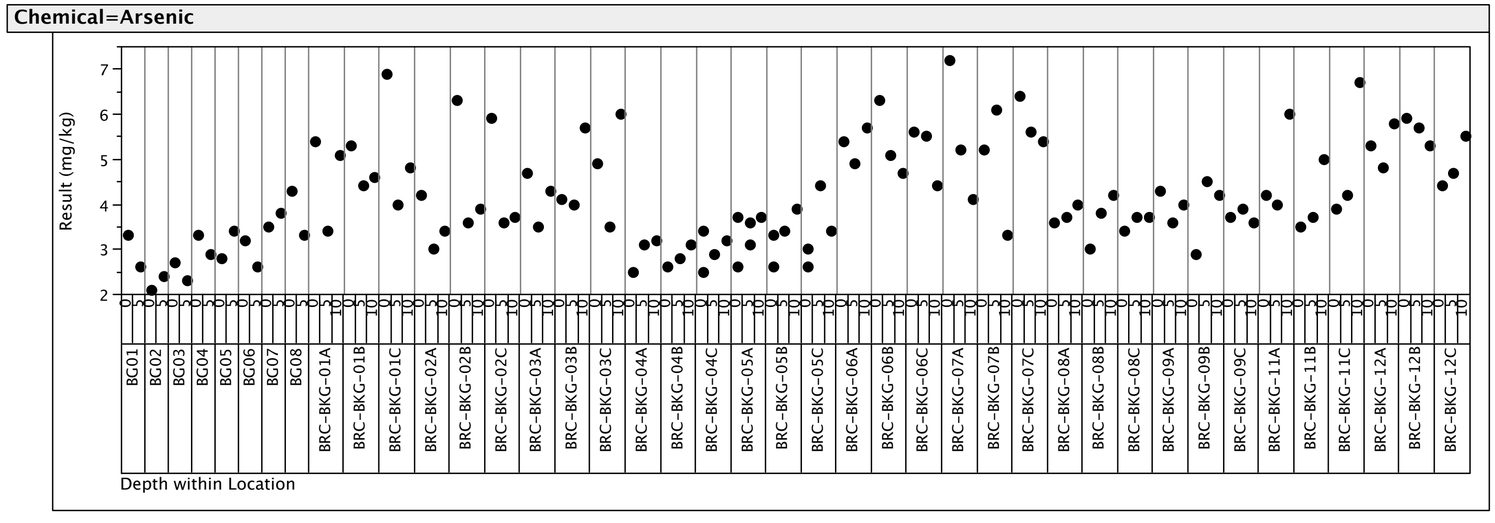
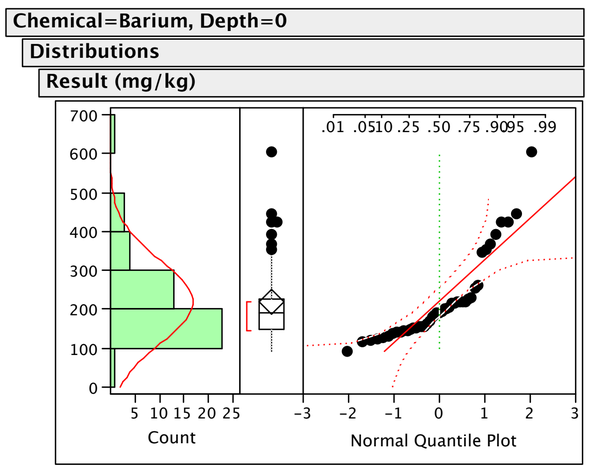
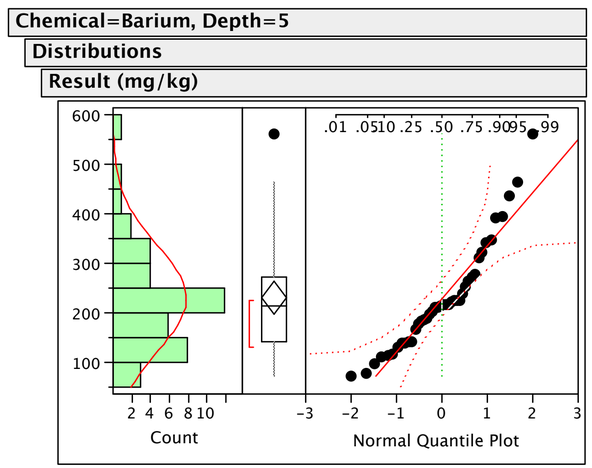
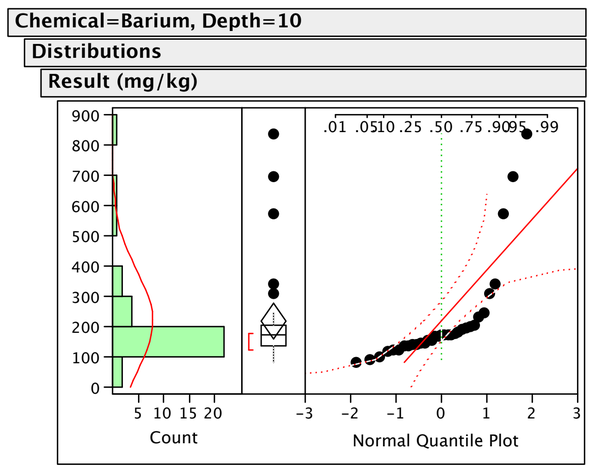


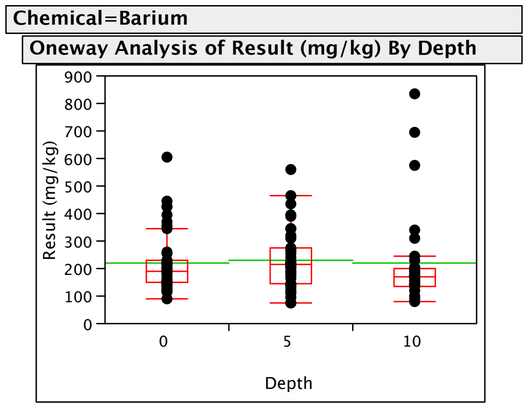
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









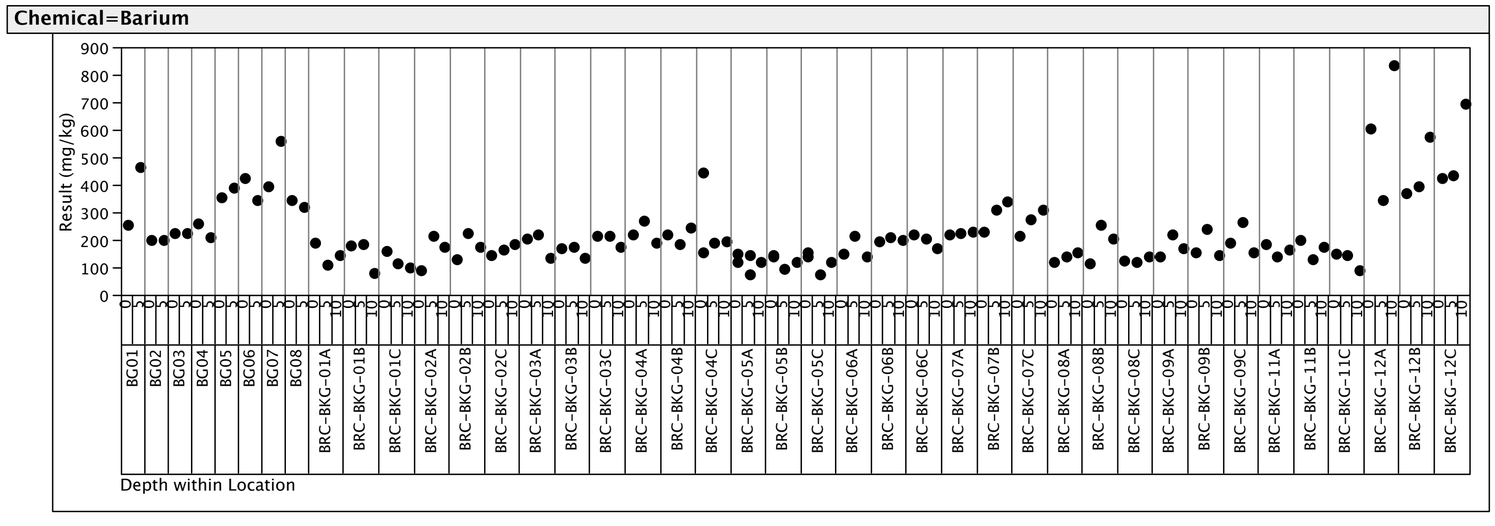
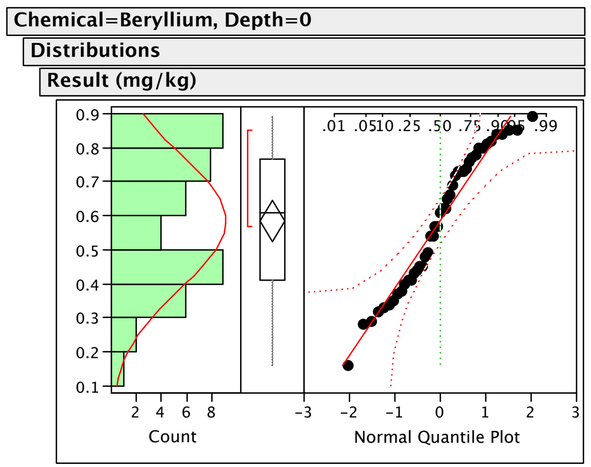
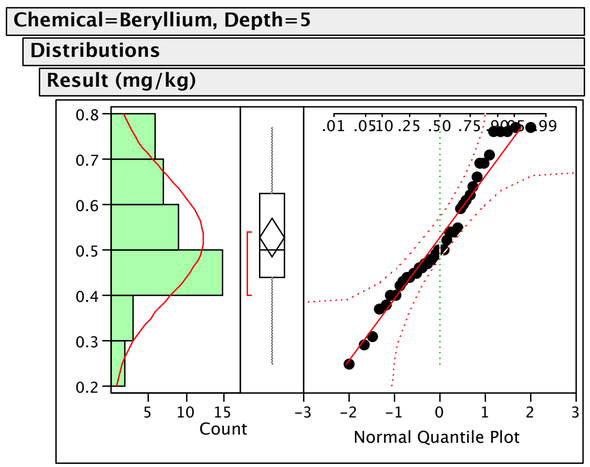
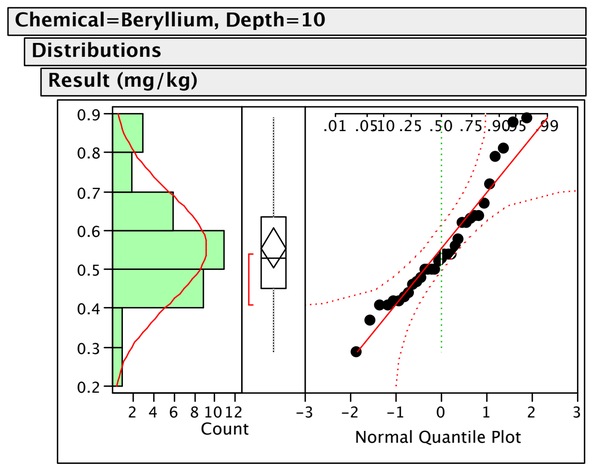


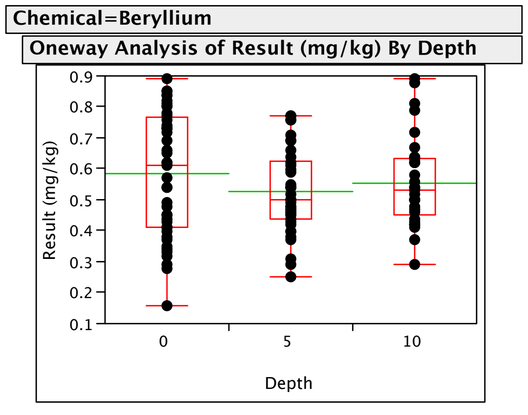
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









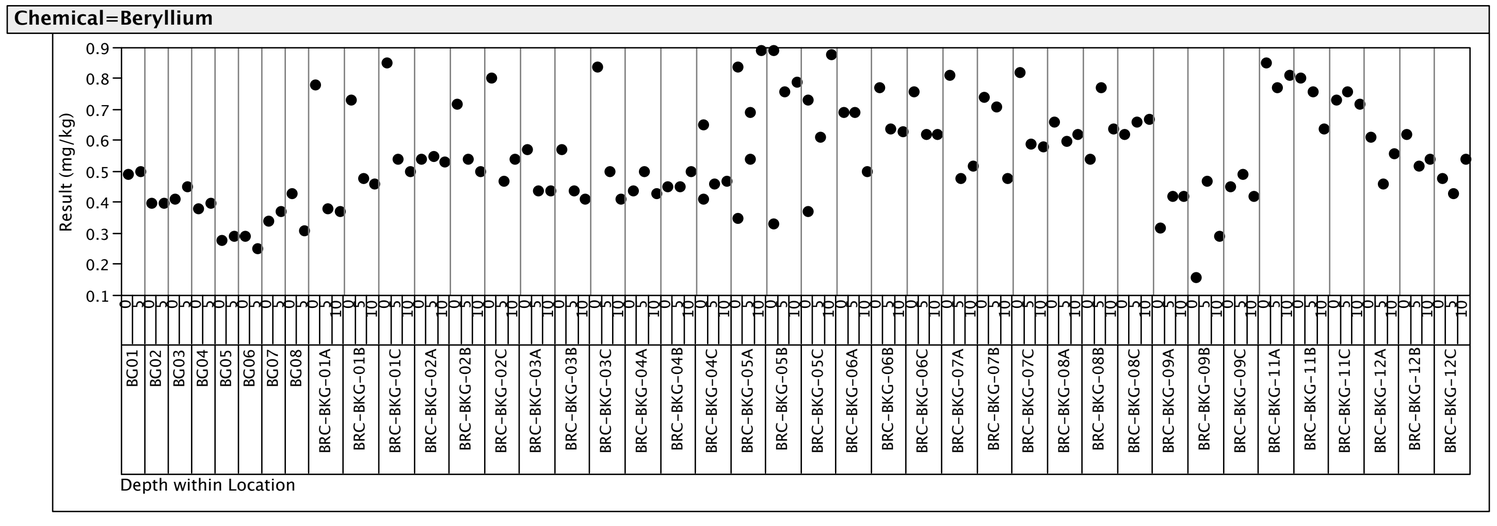
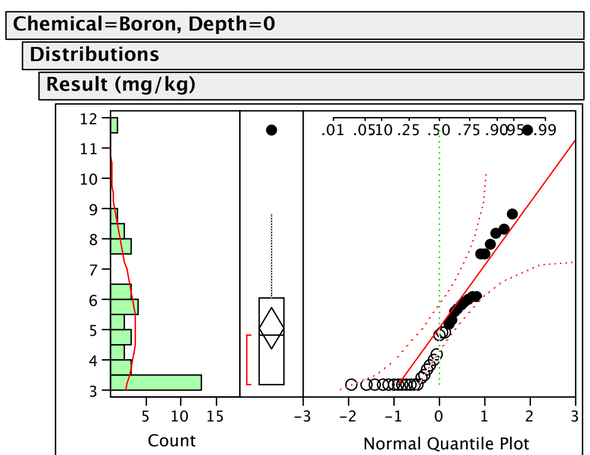
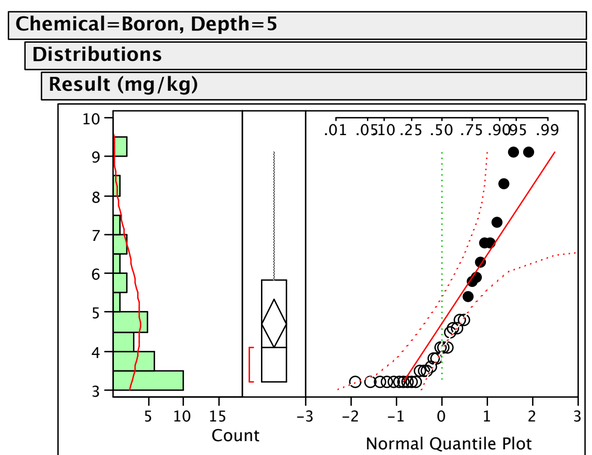
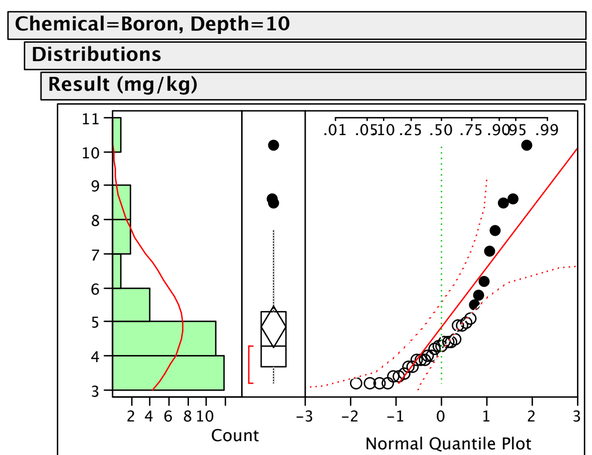


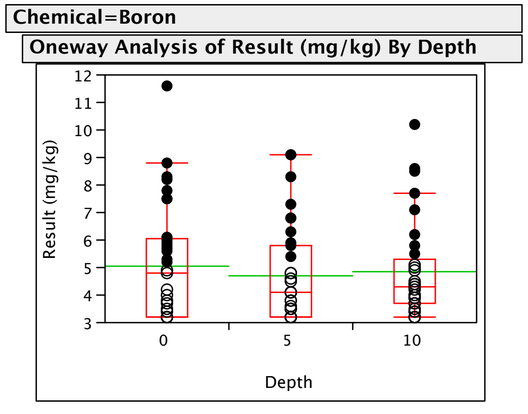
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









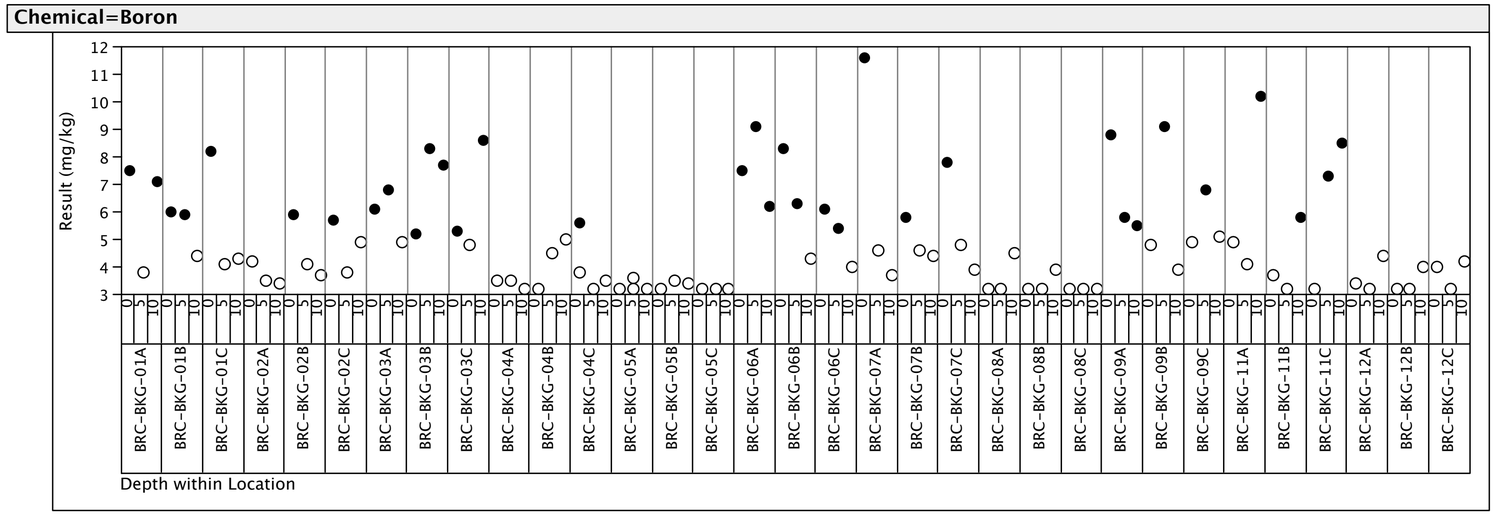
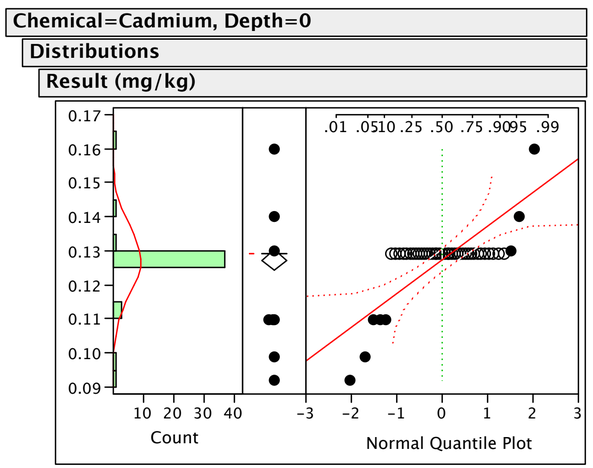
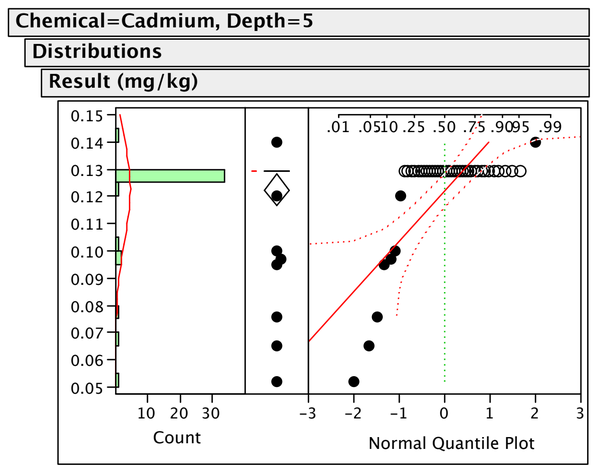
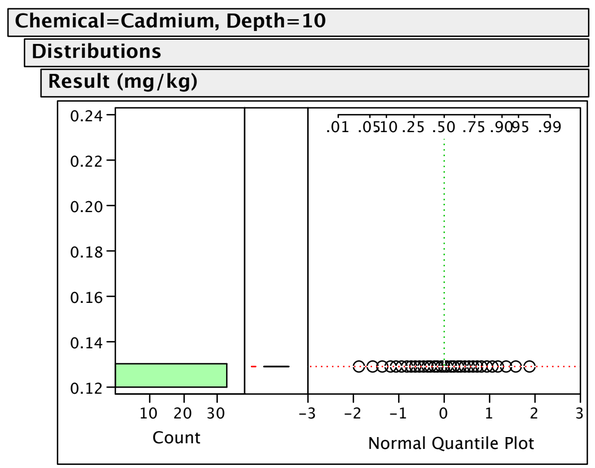


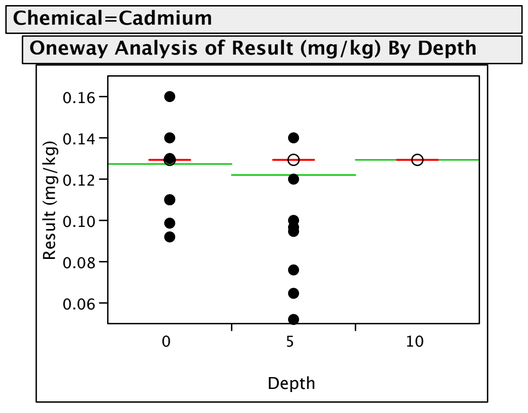
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









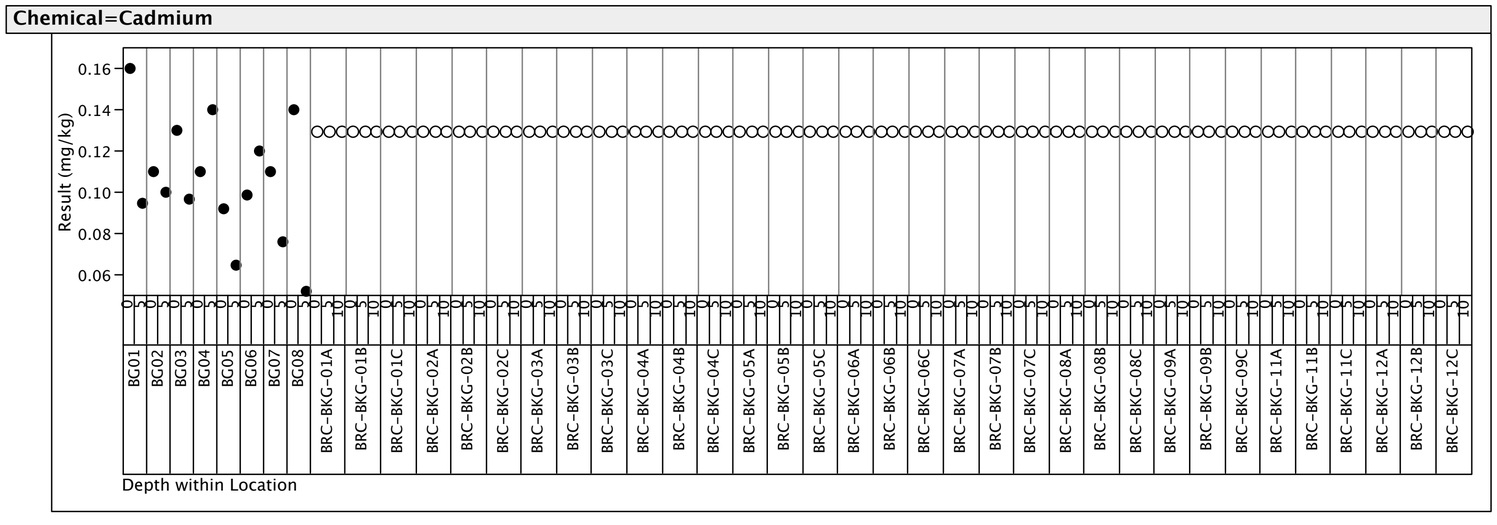
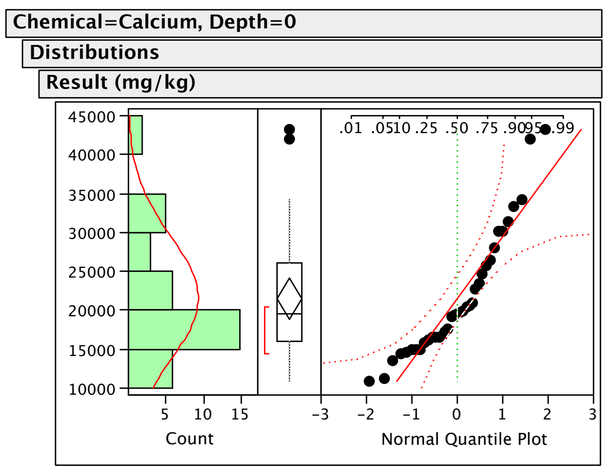
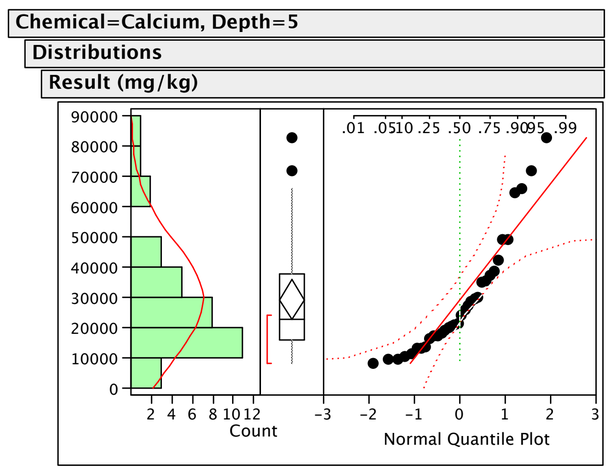
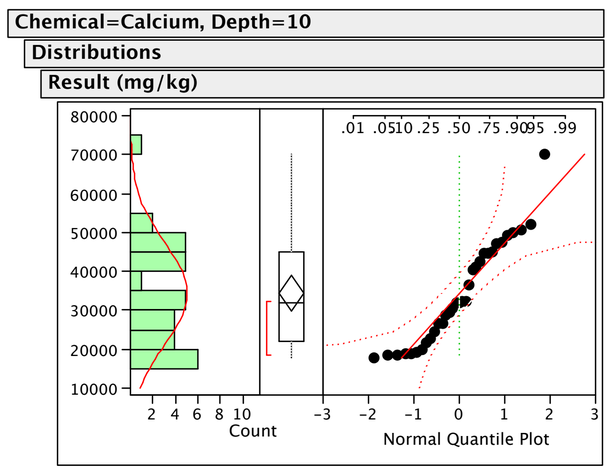


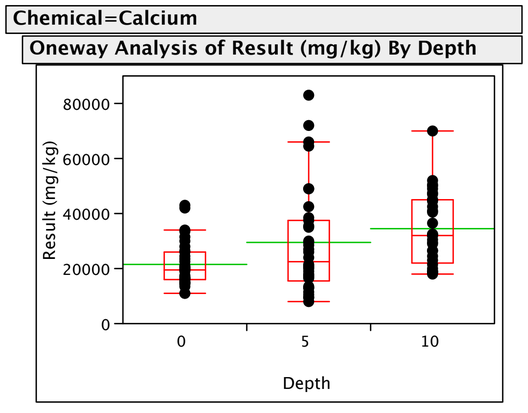
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









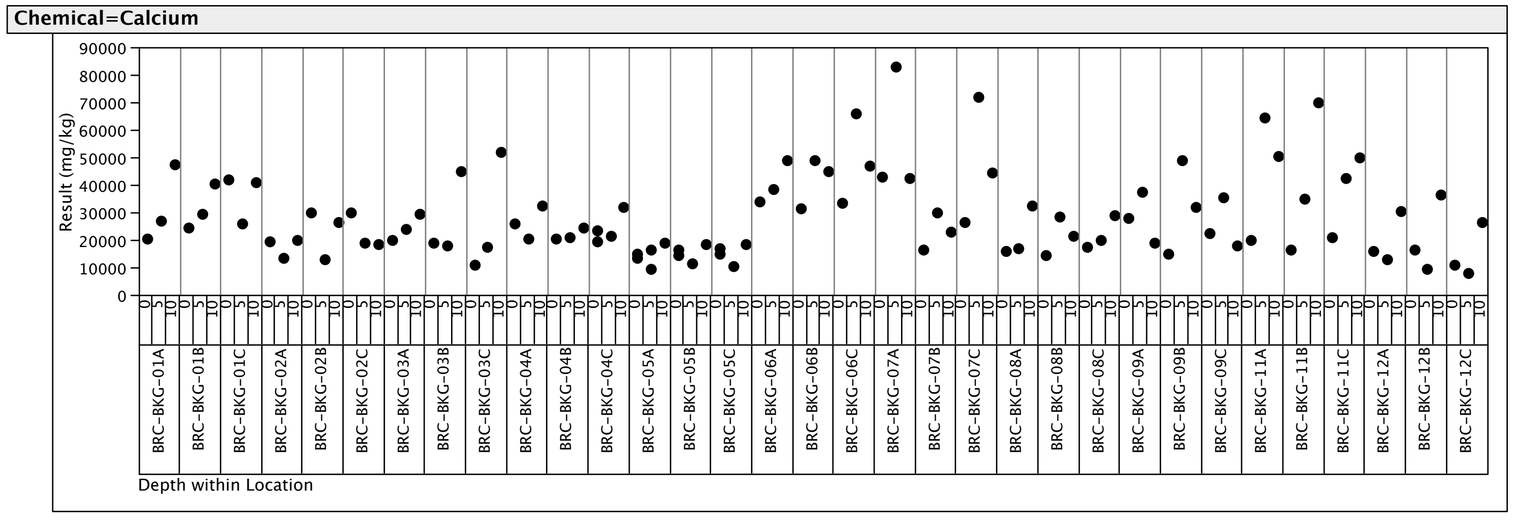
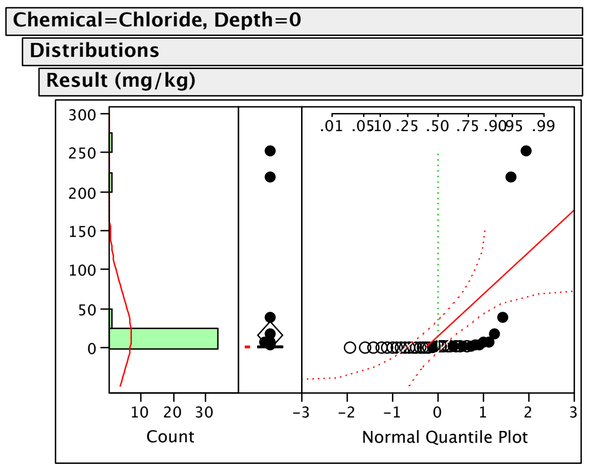
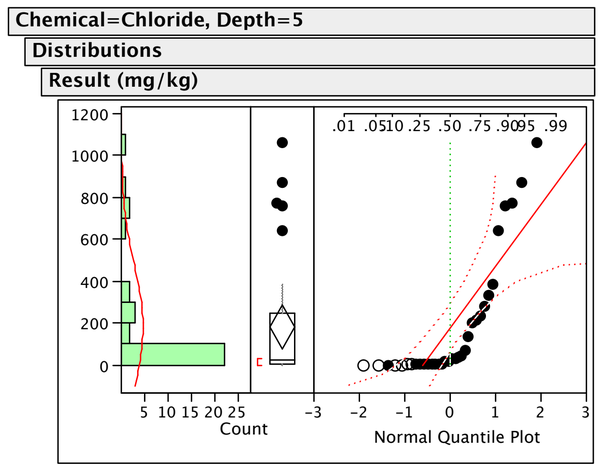
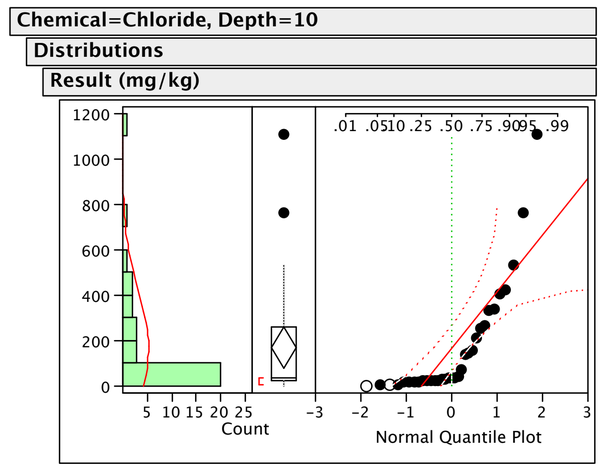


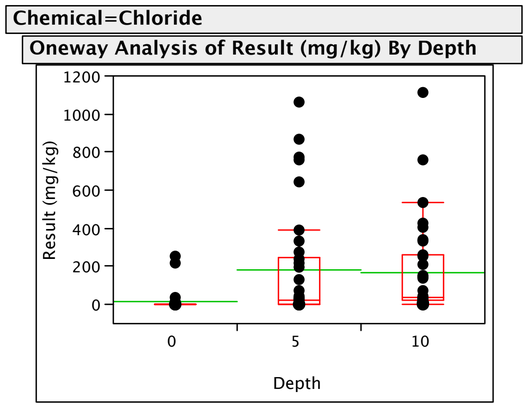
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









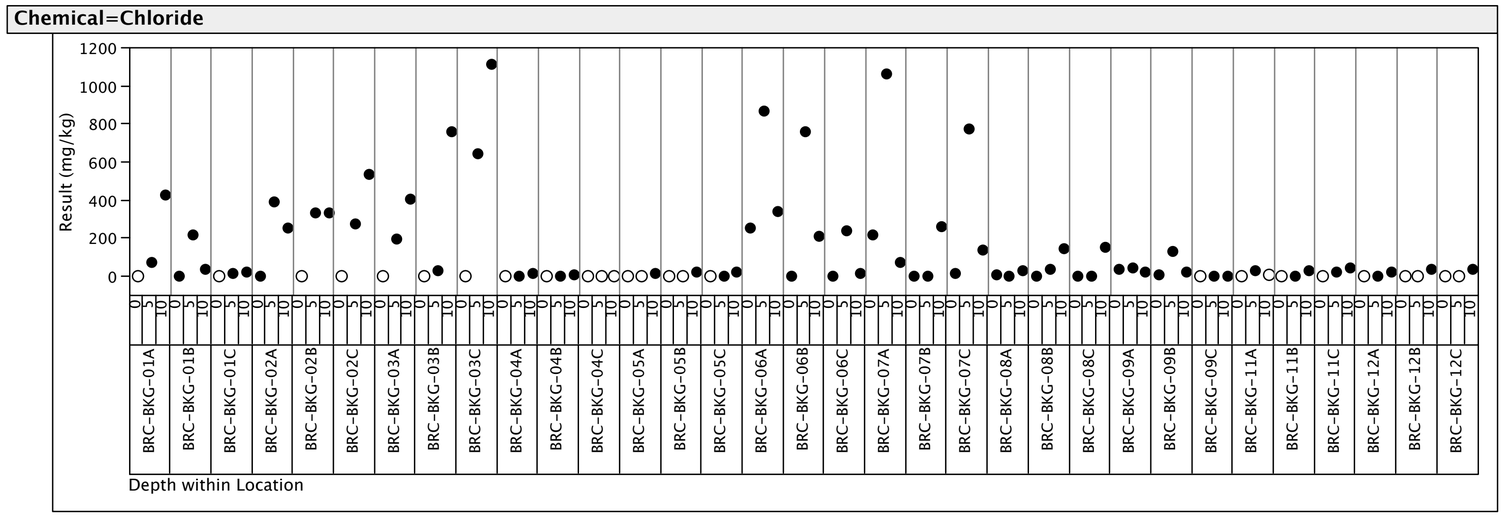
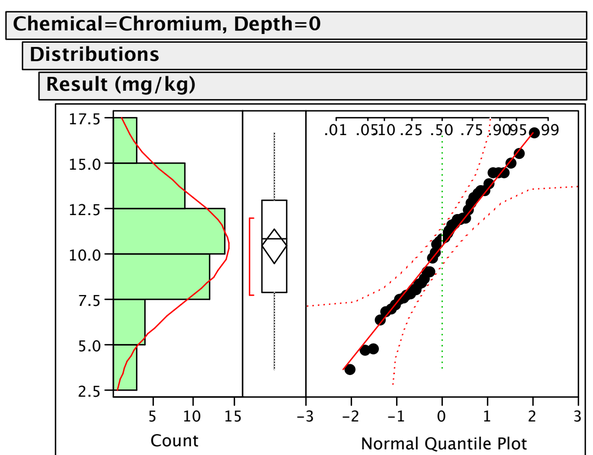
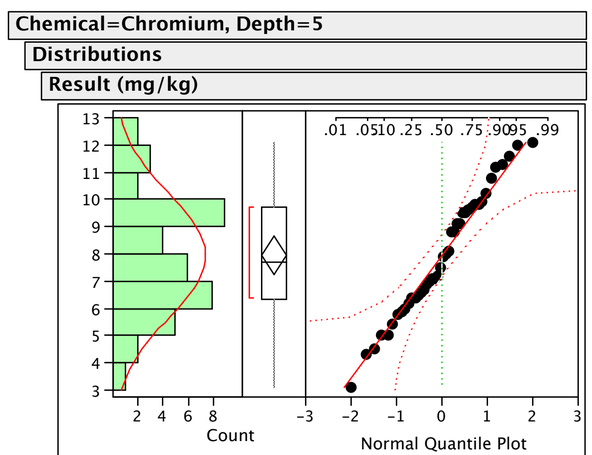
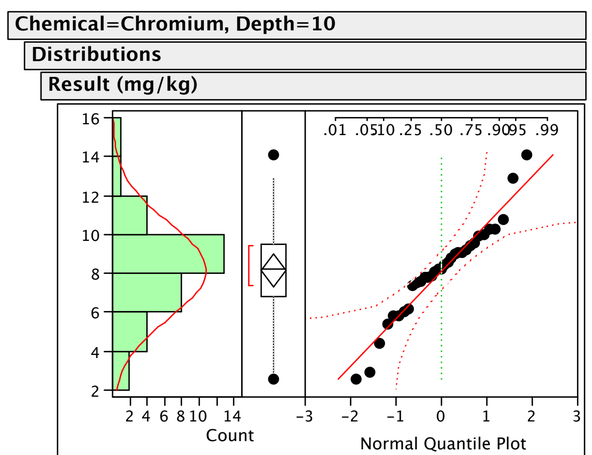


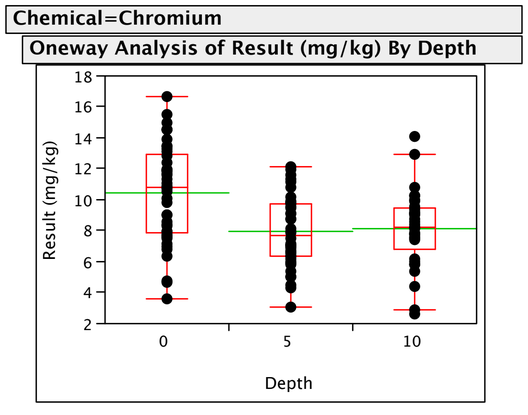
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









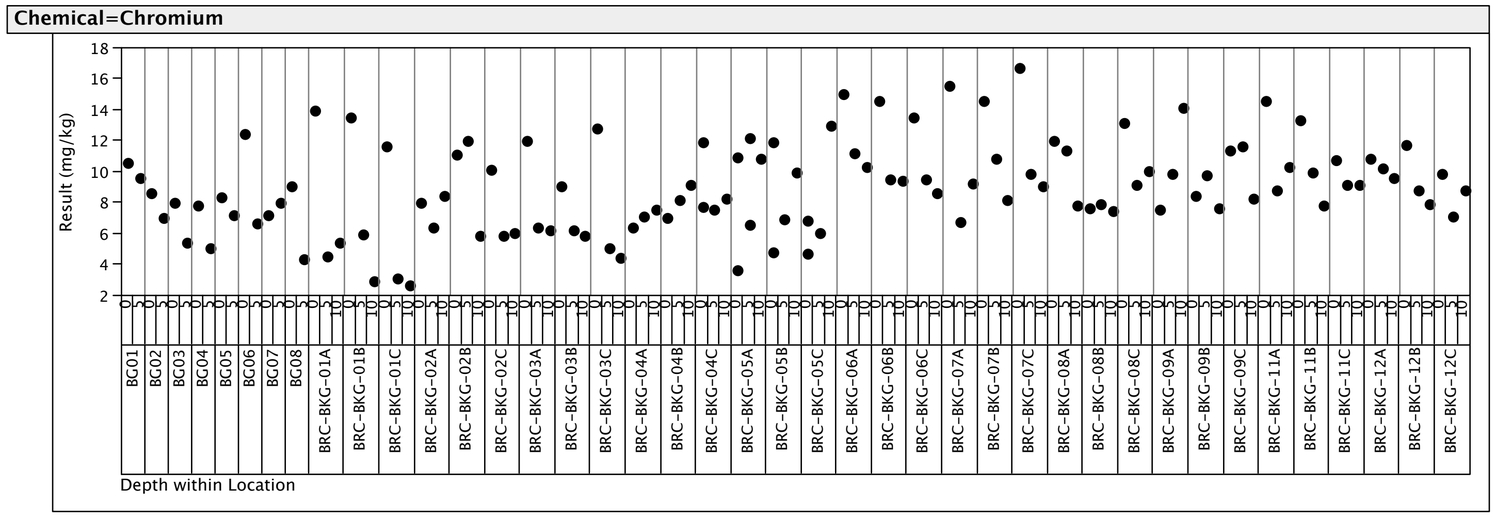
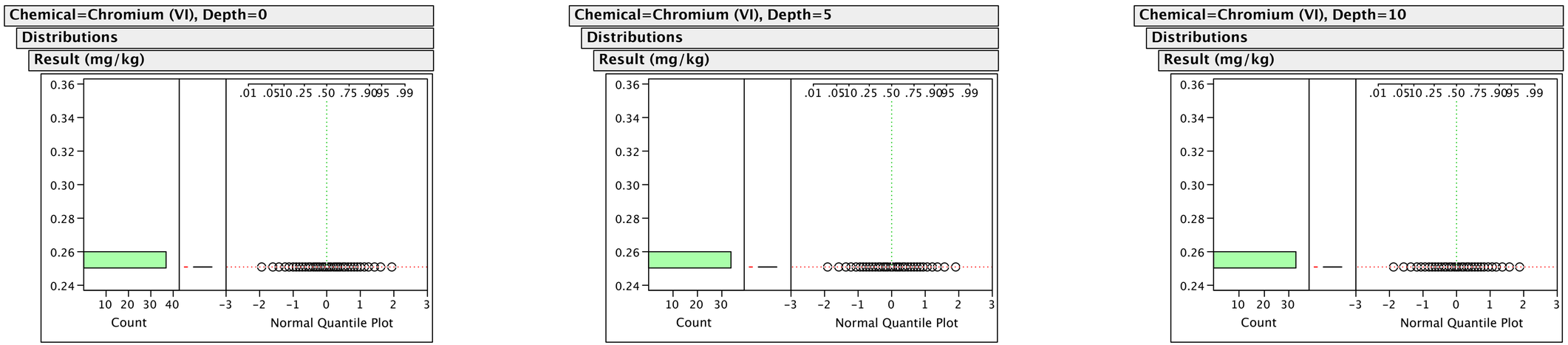
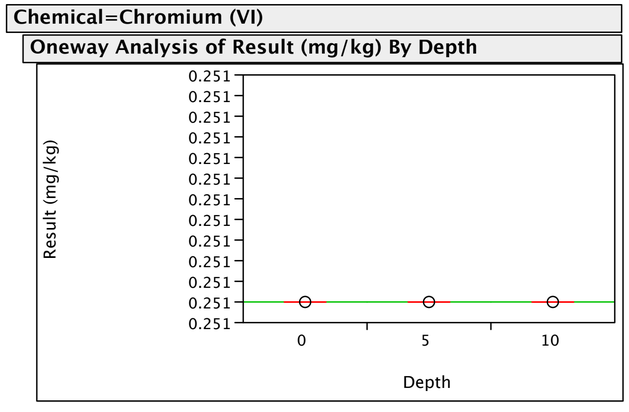


FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH





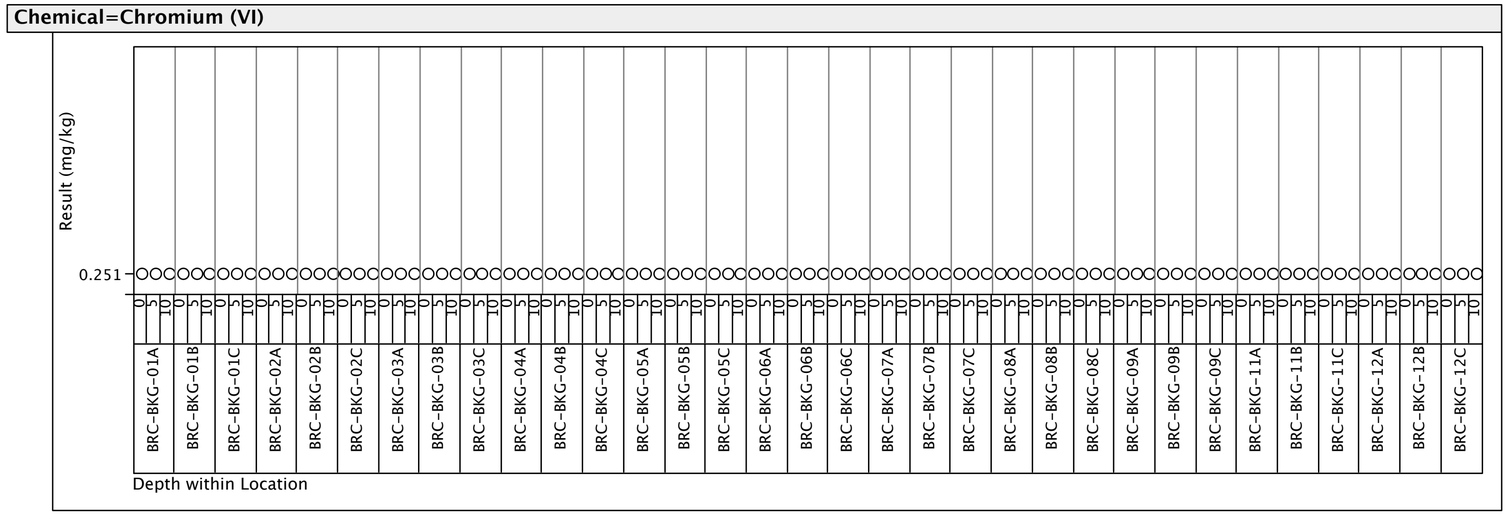
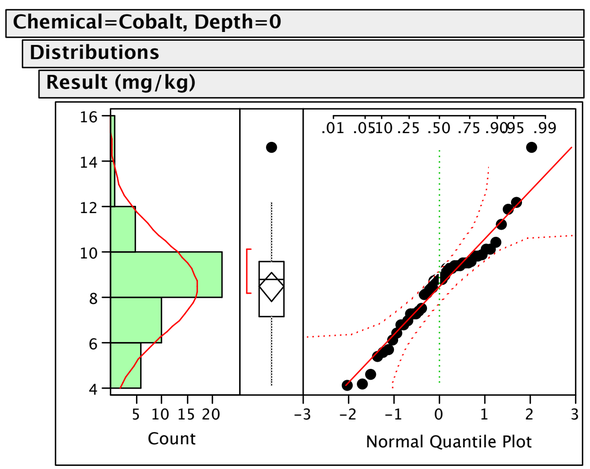
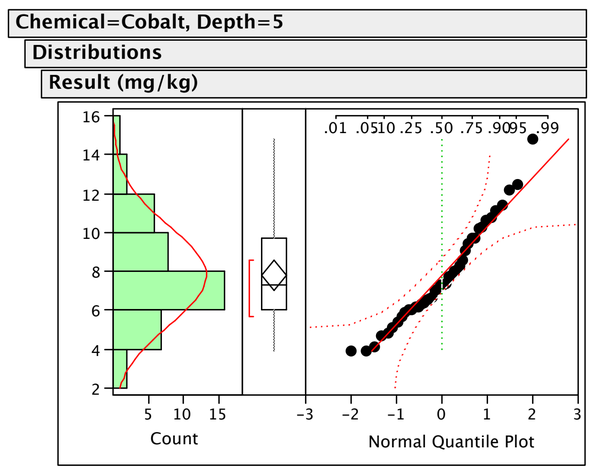
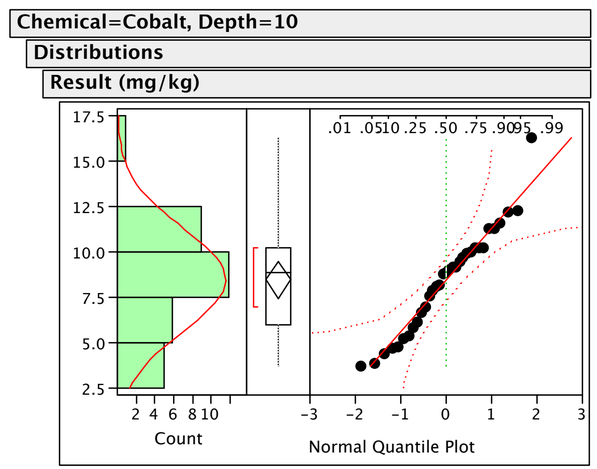


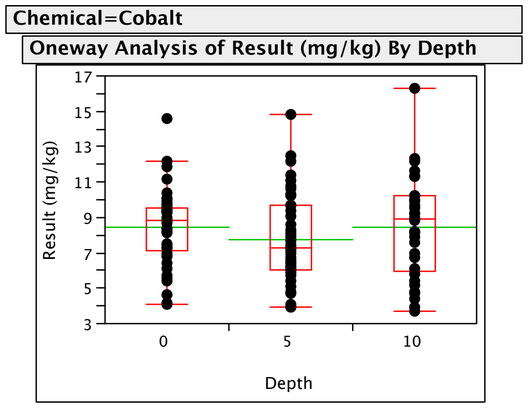
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









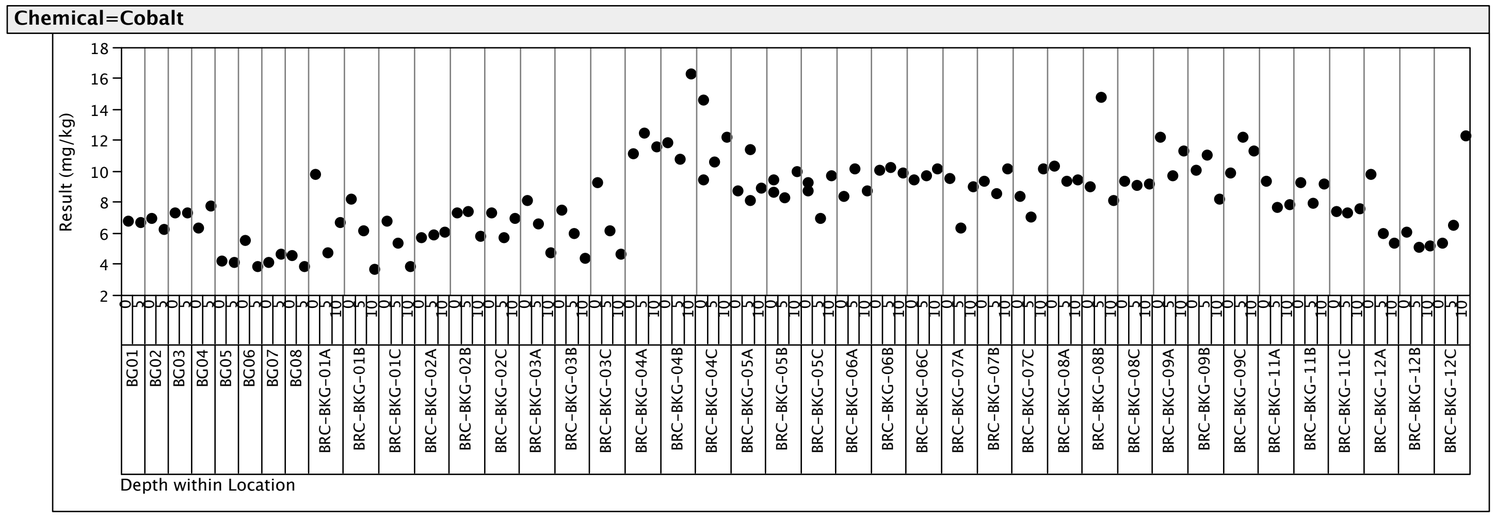
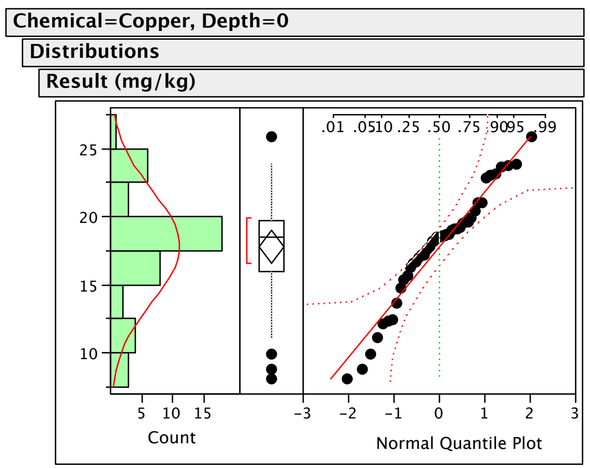
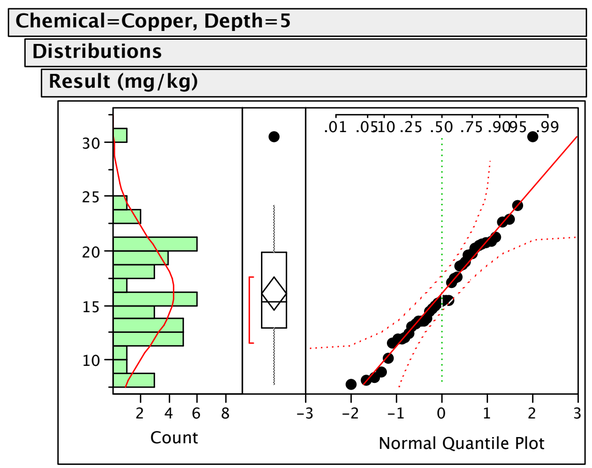
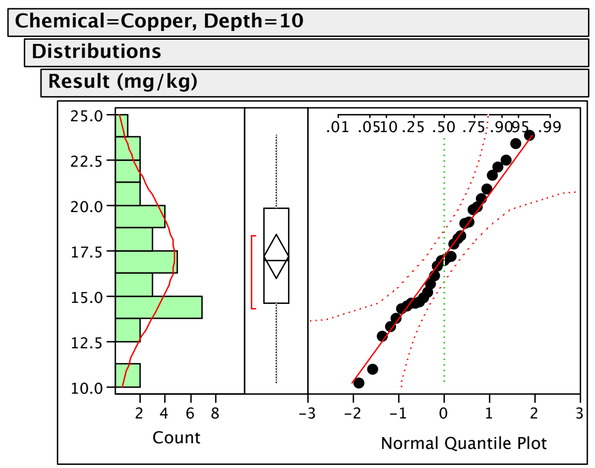


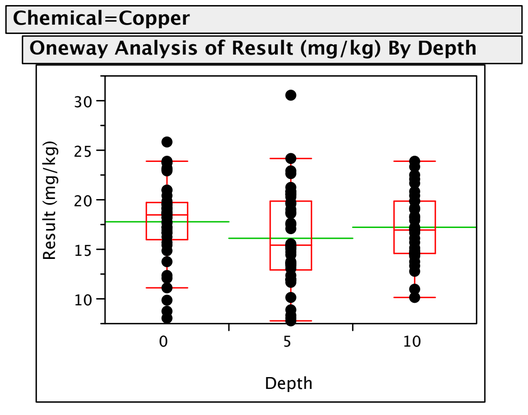
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









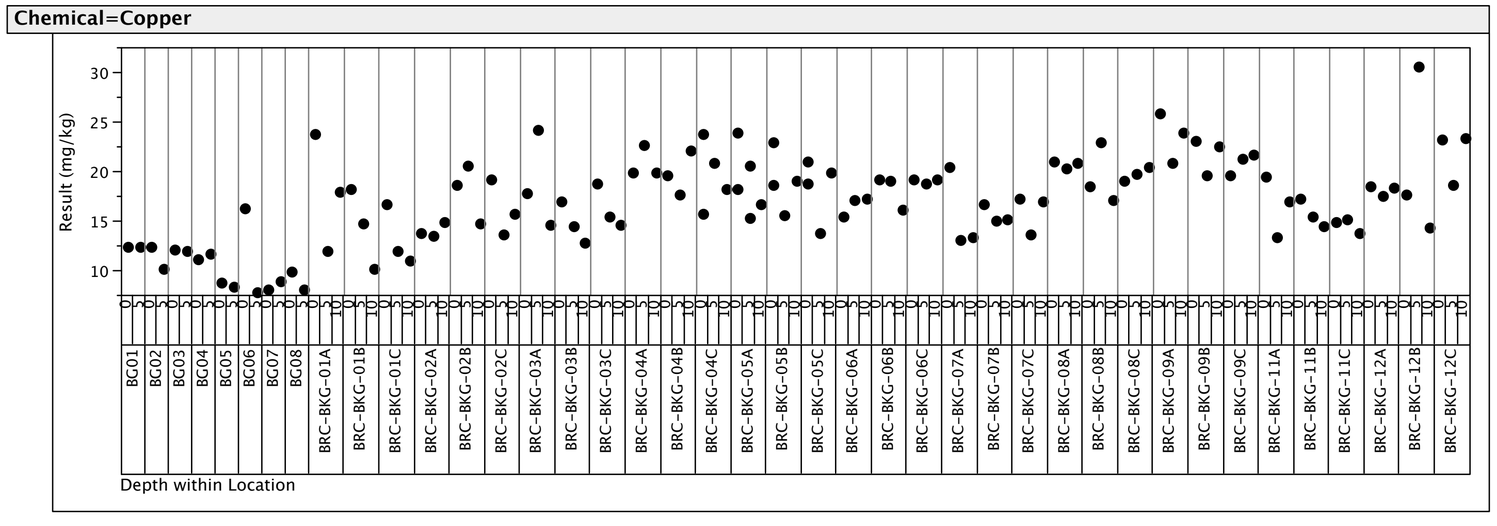
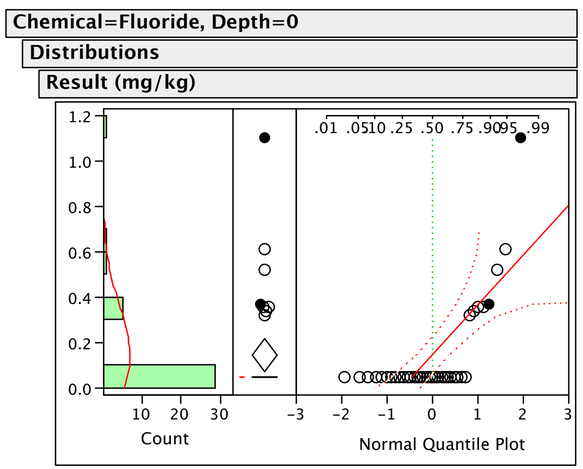
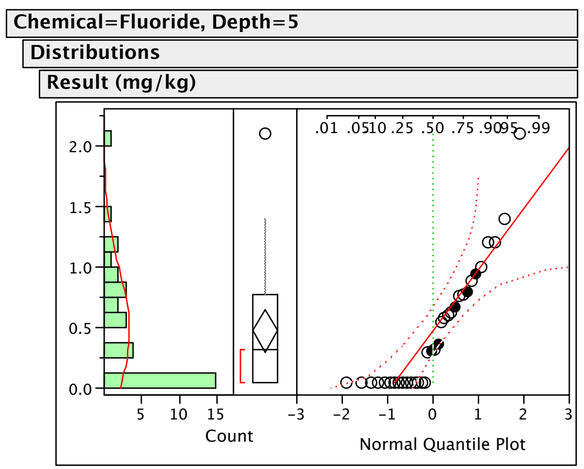
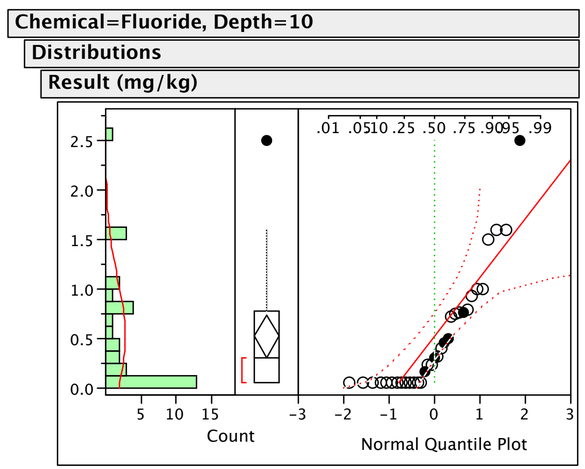


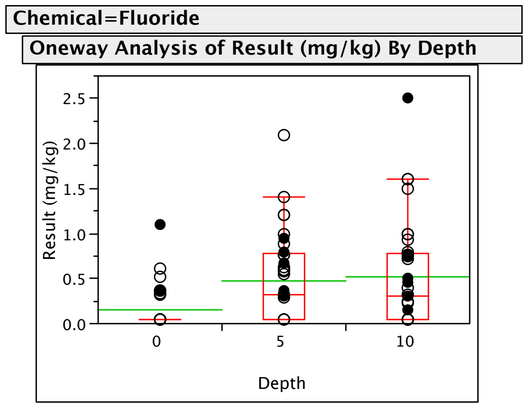
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









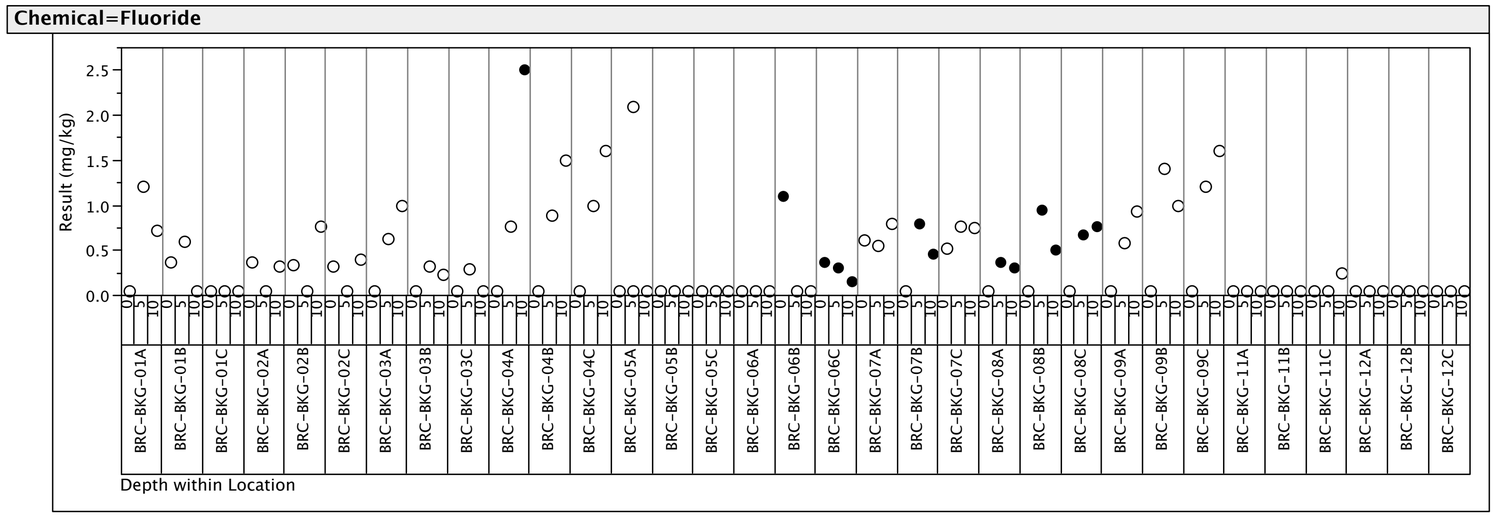
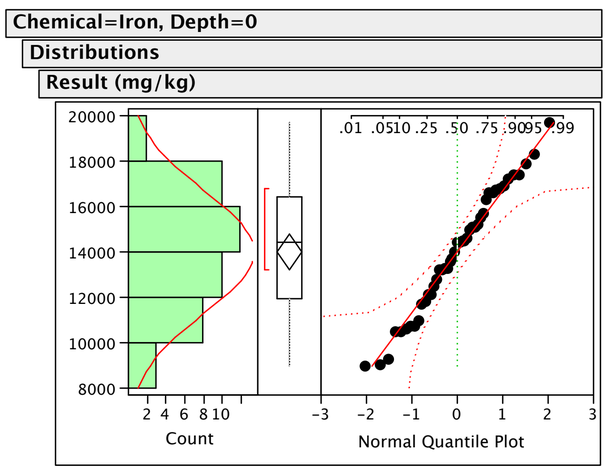
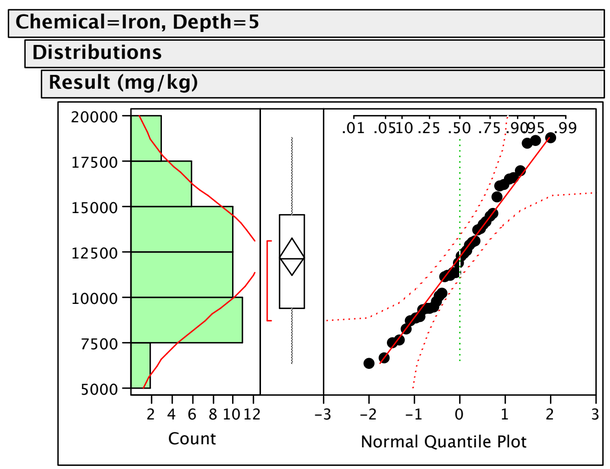
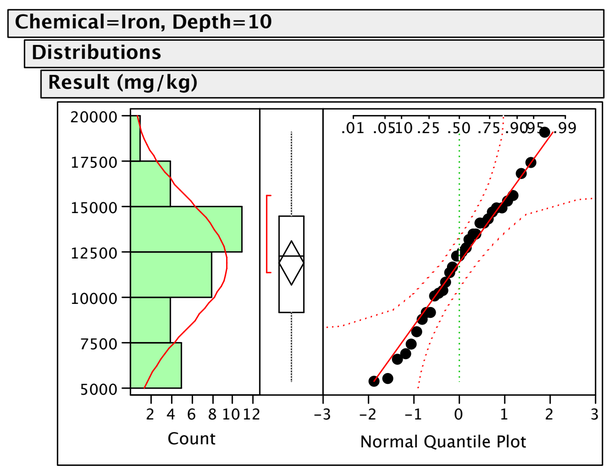


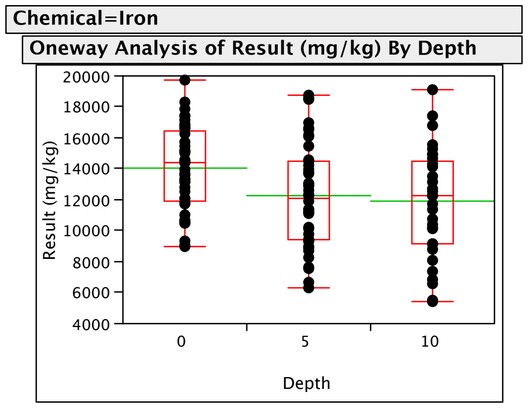
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









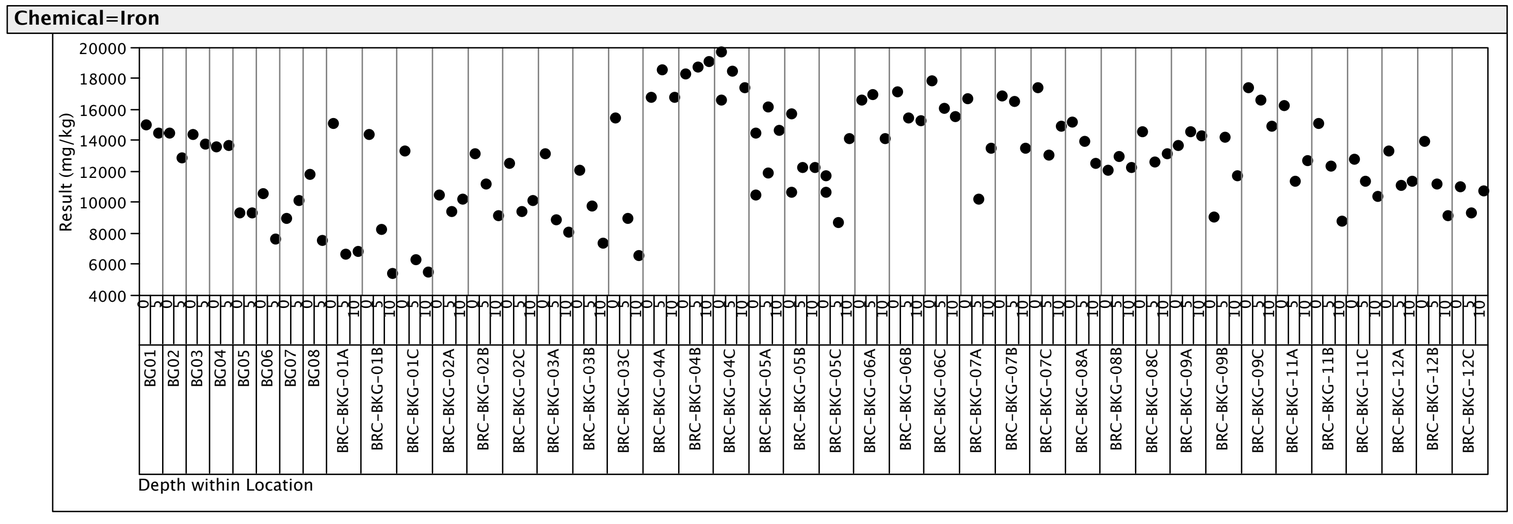
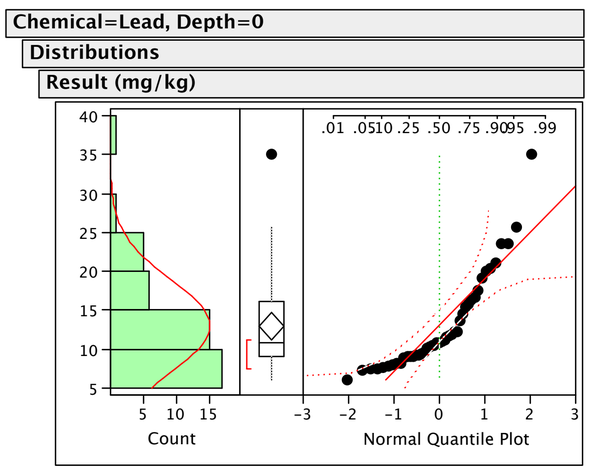
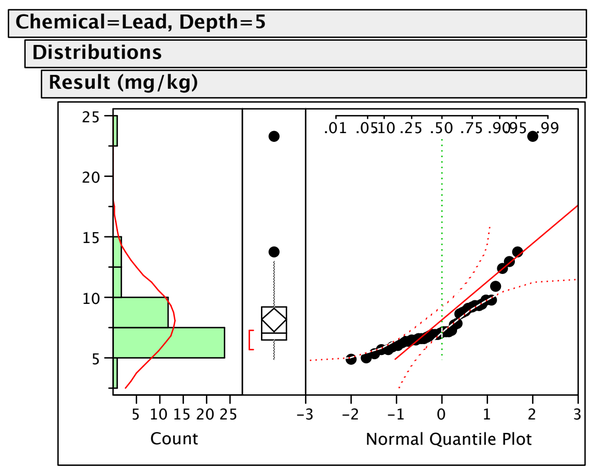
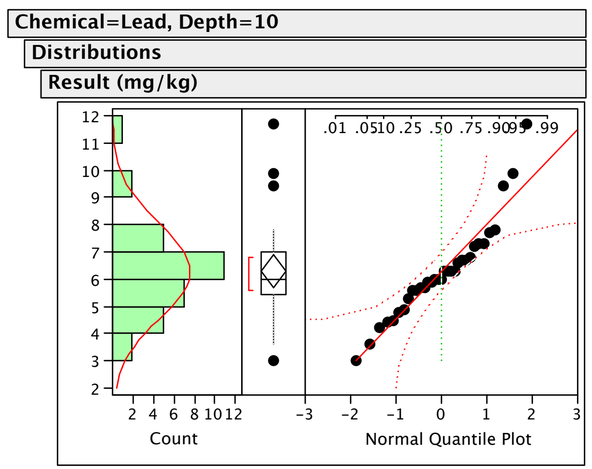


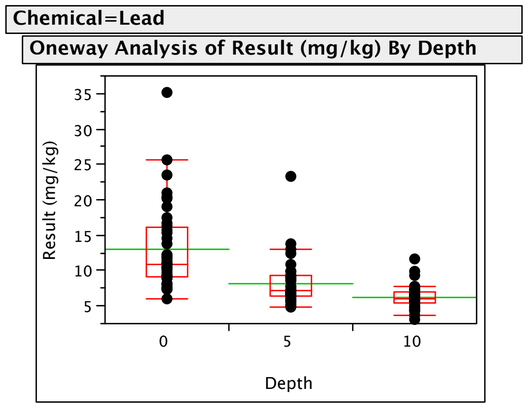
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









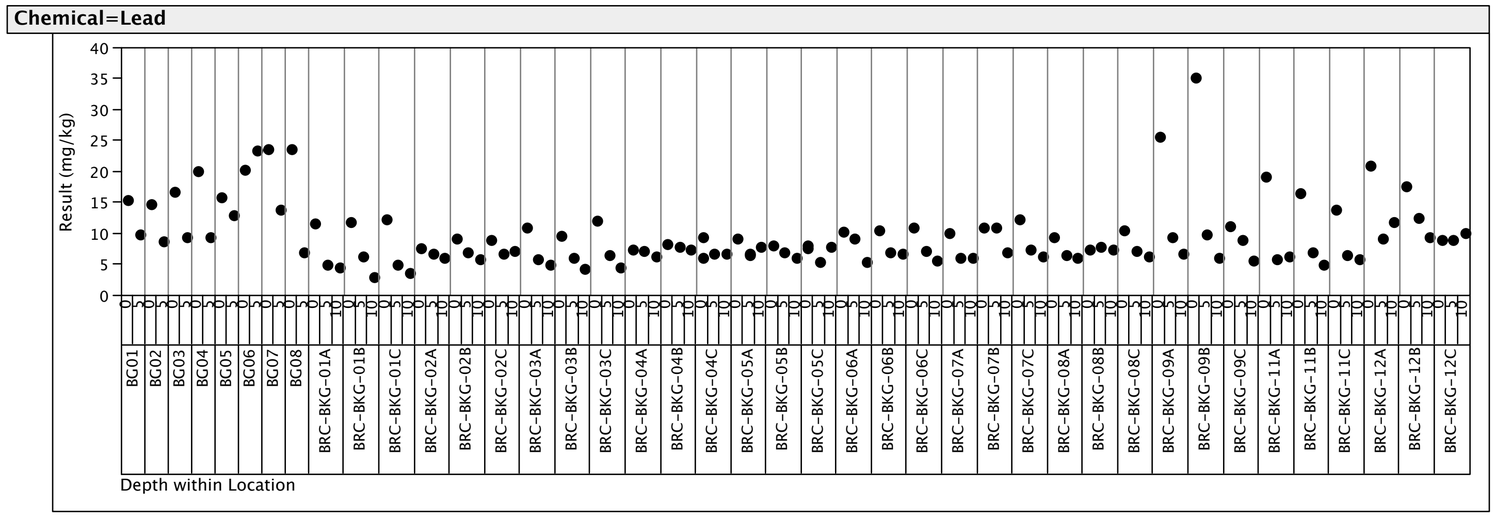
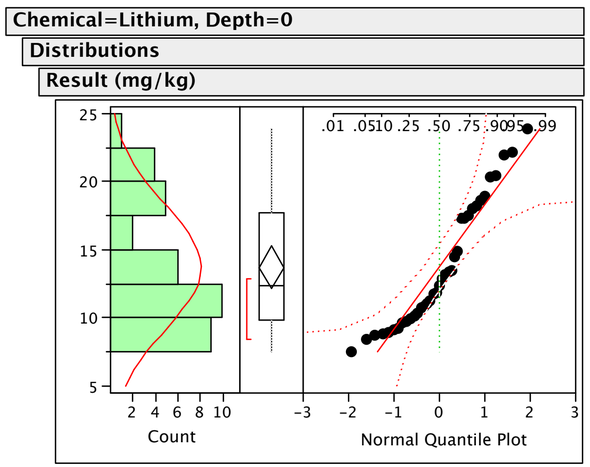
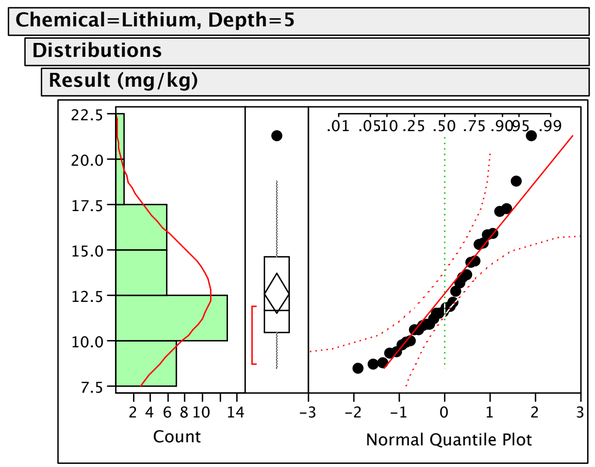
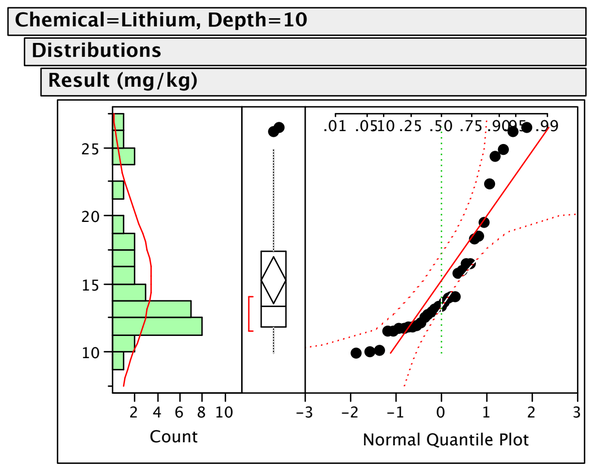


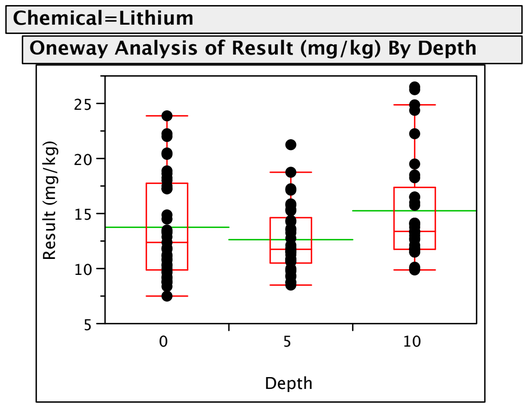
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









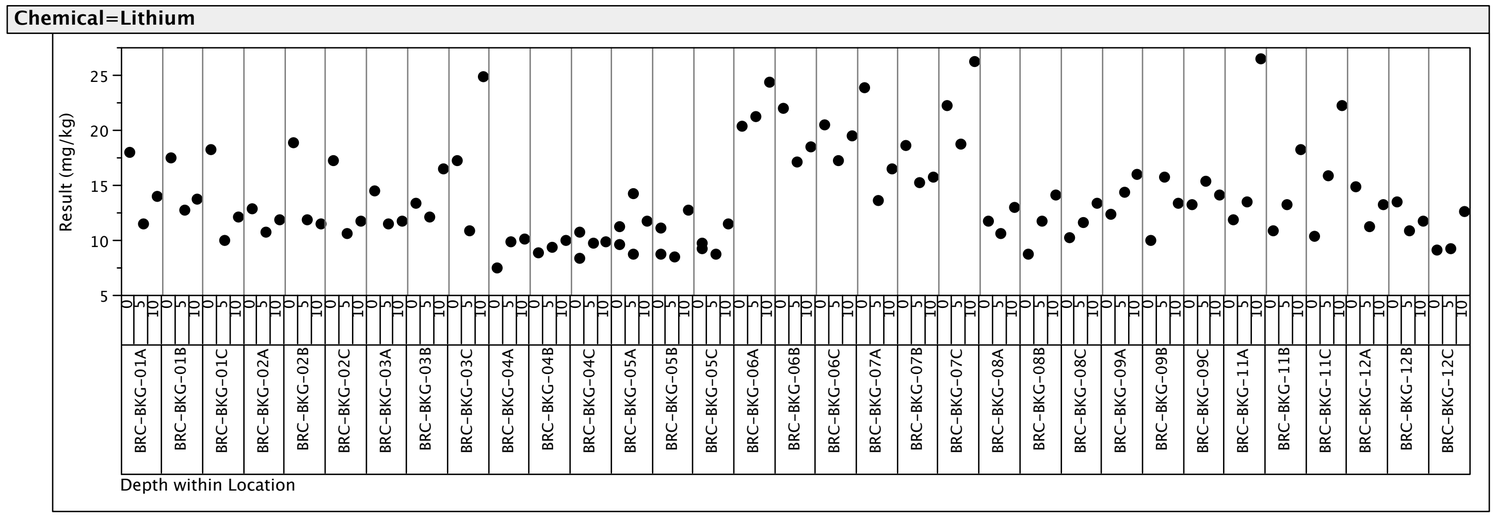
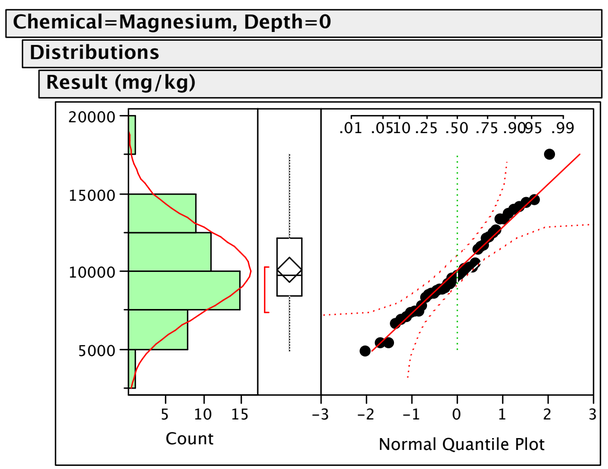
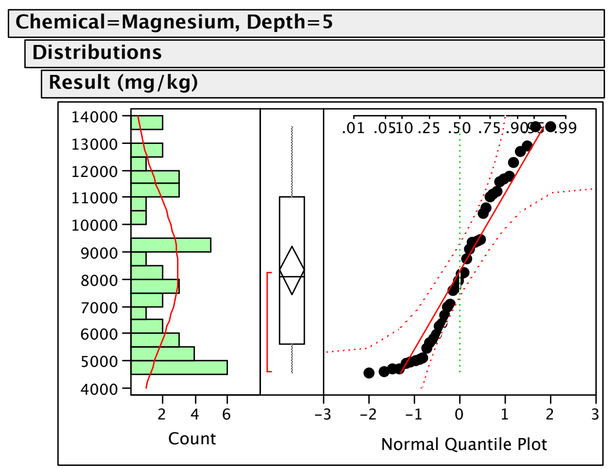
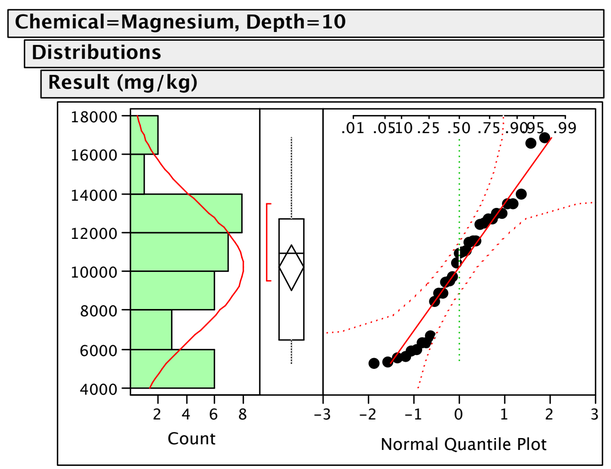


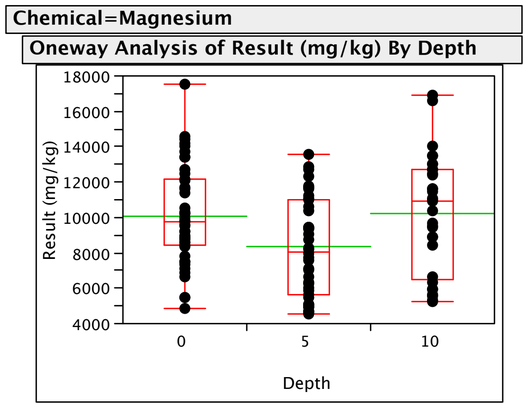
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









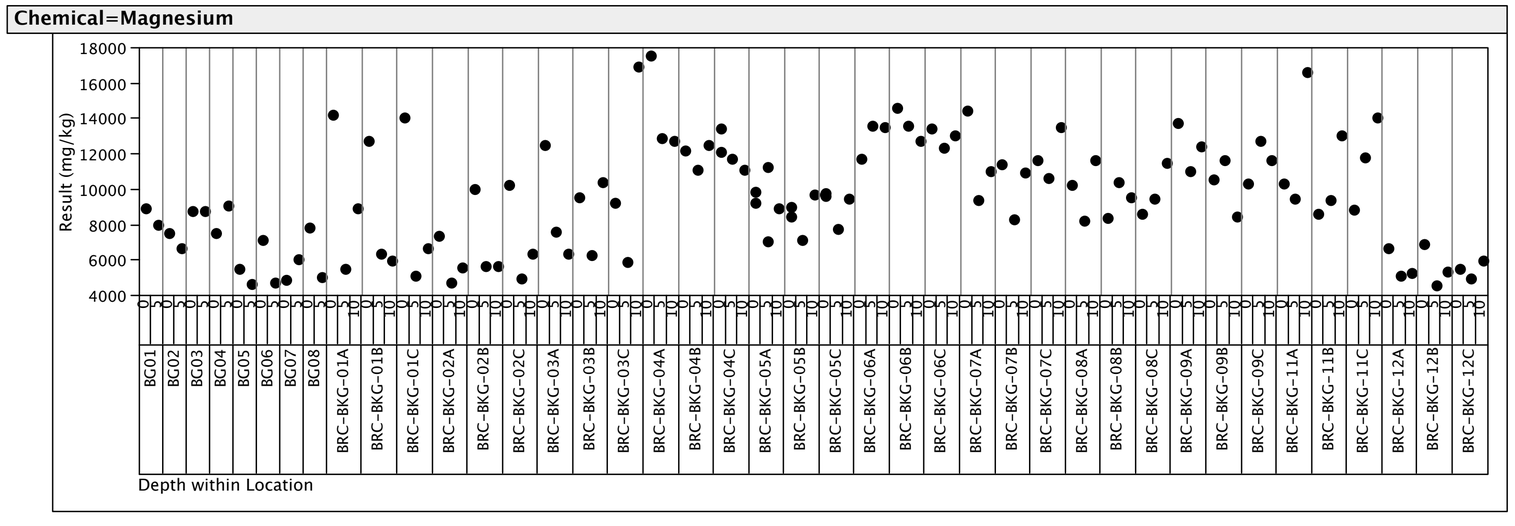
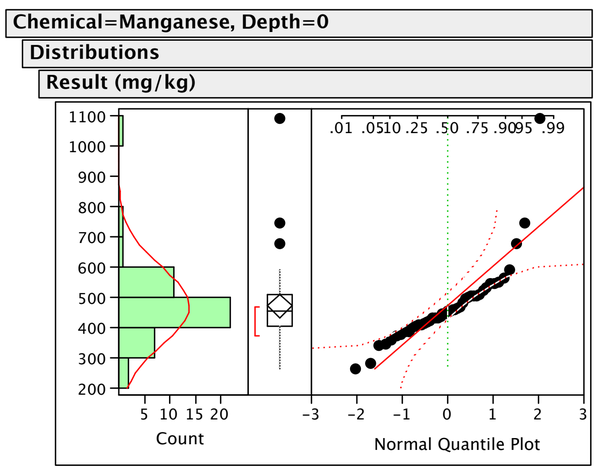
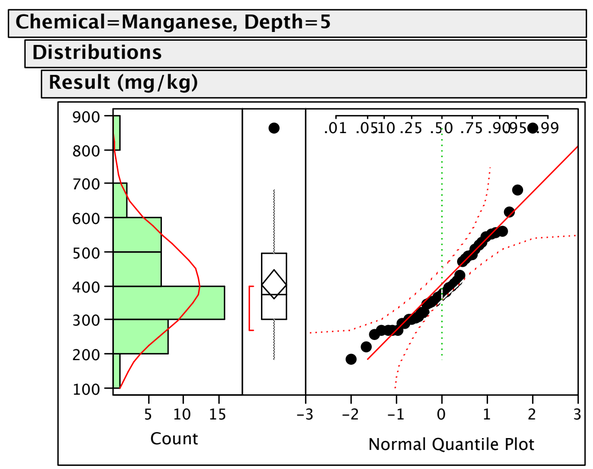
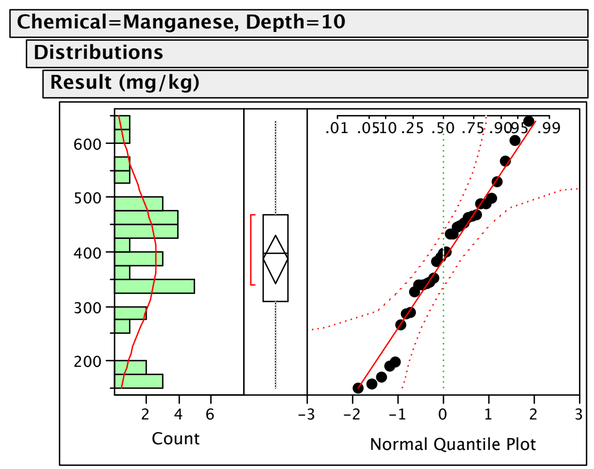


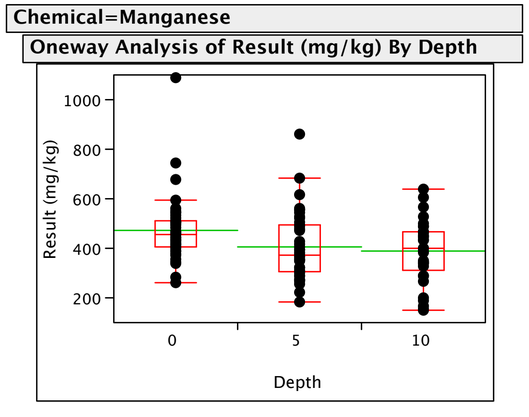
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









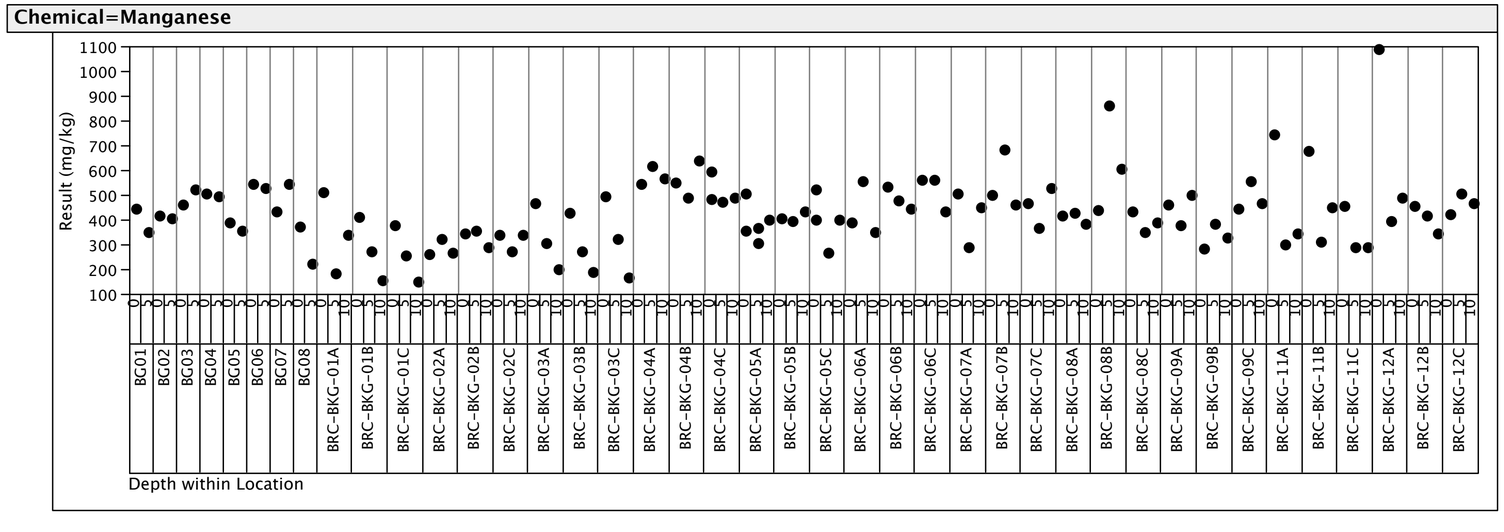
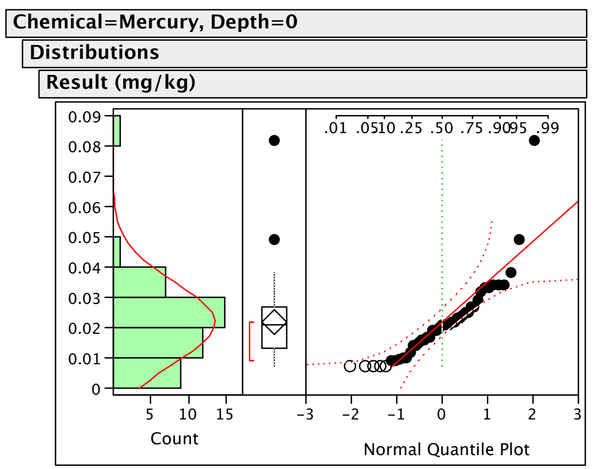
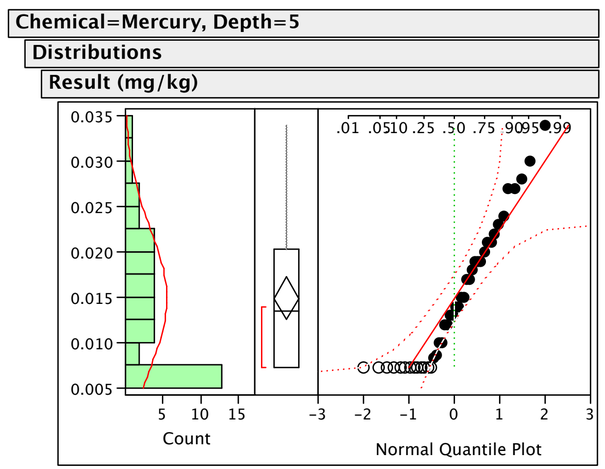
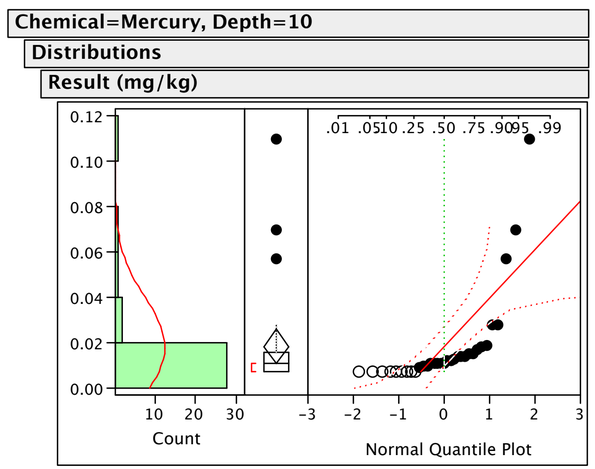


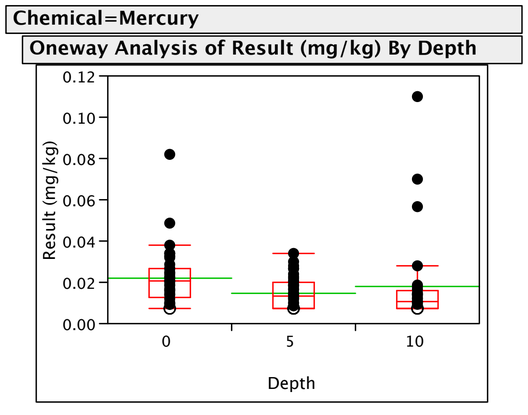
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









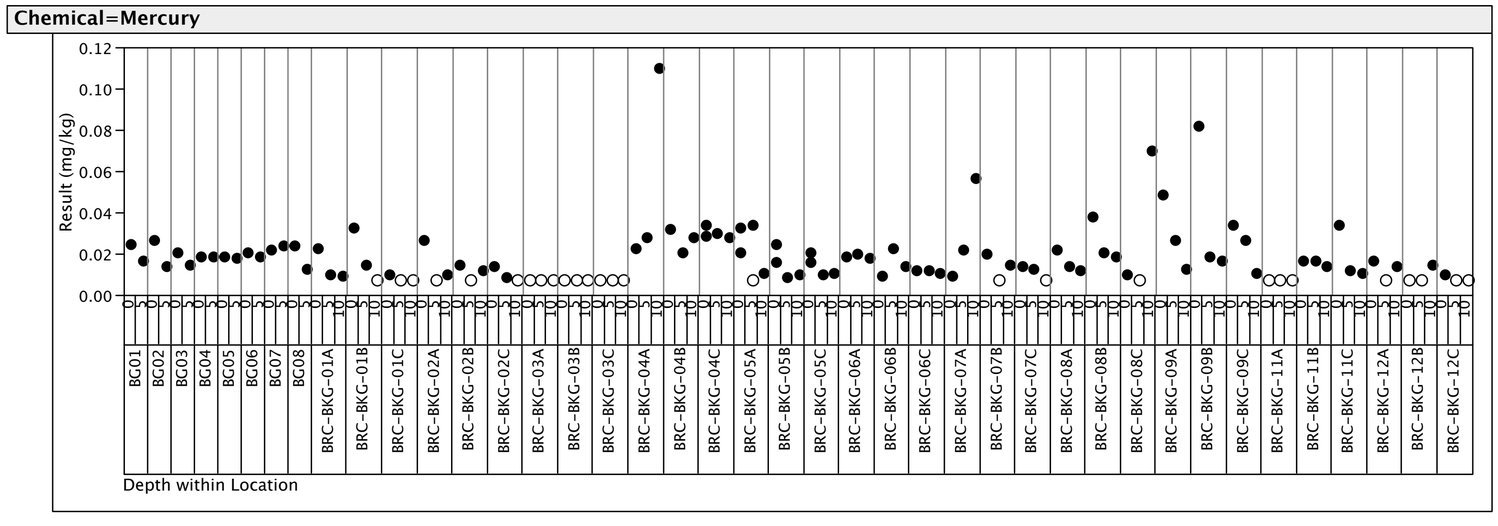
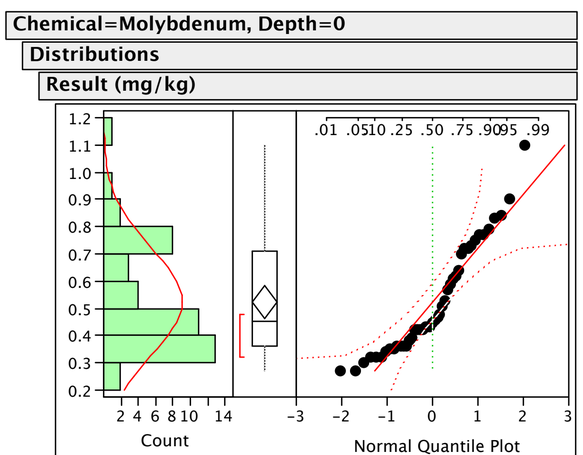
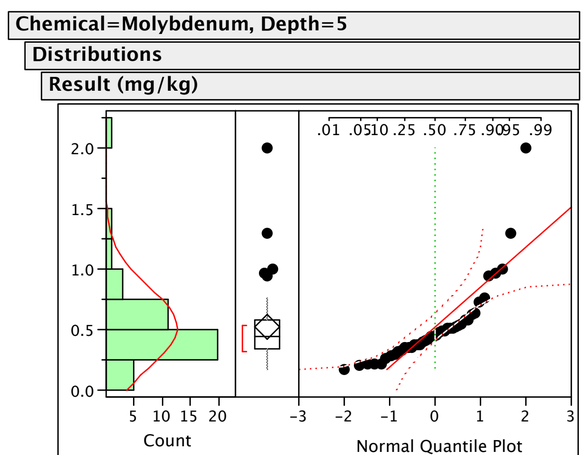
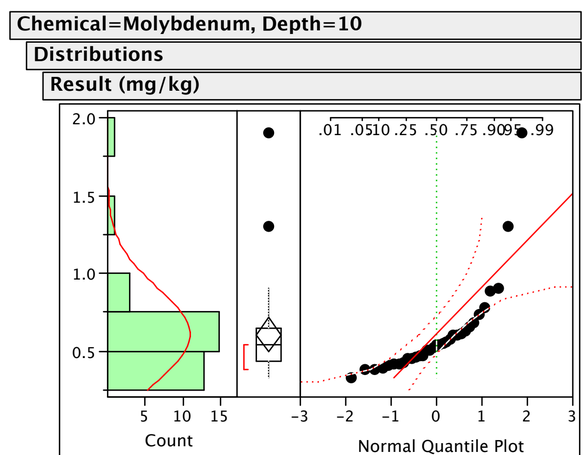


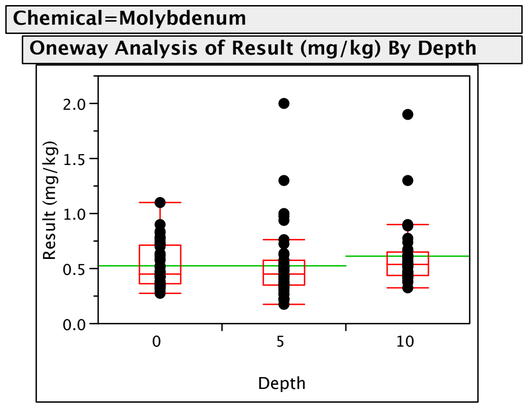
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









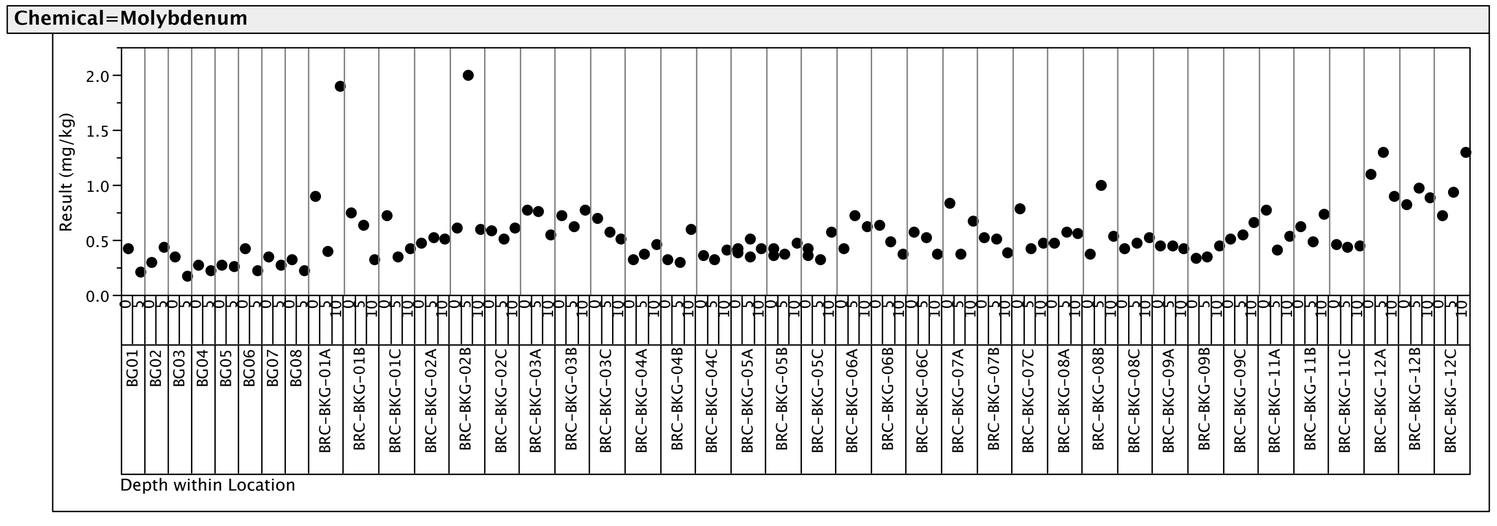
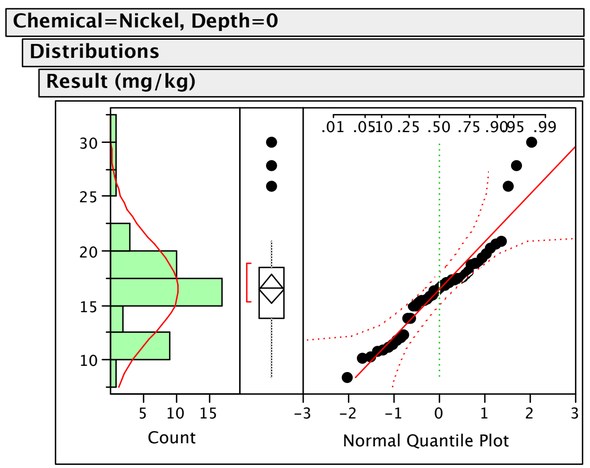
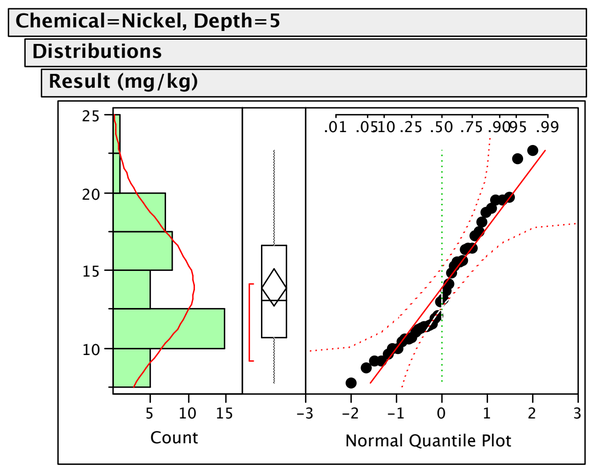
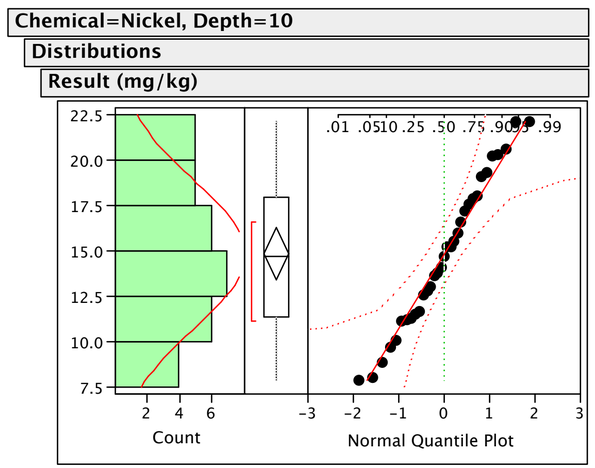


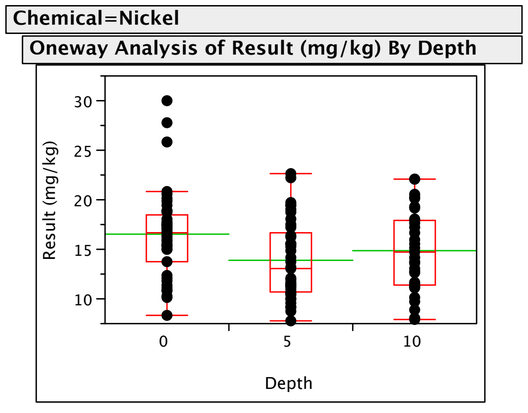
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









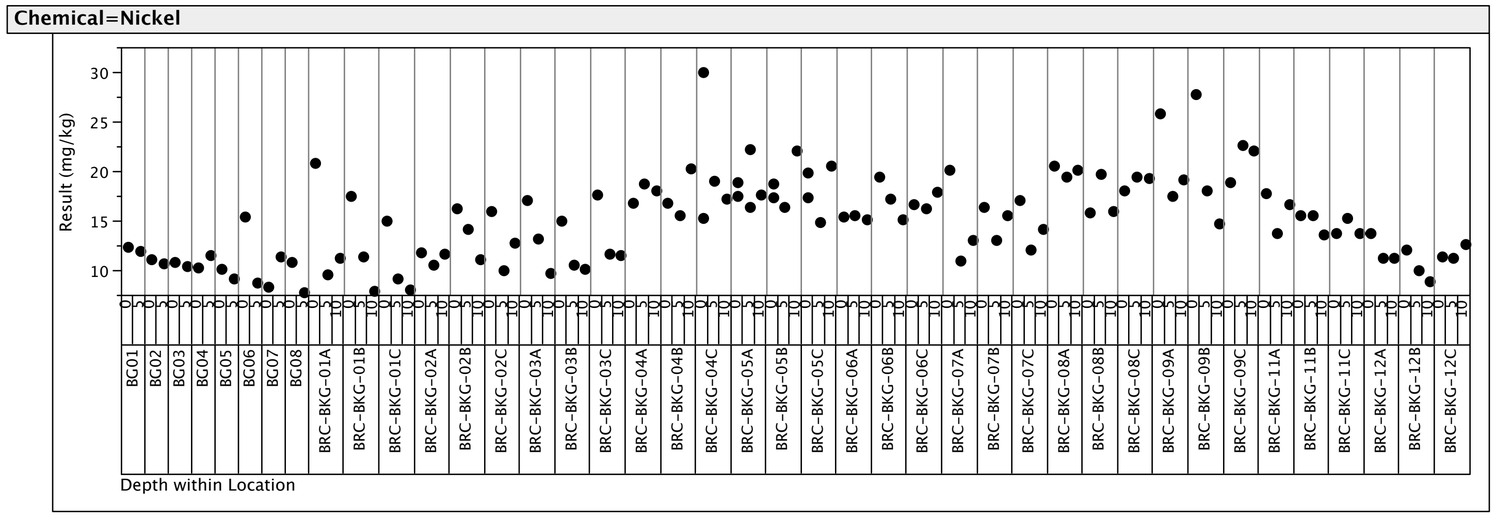
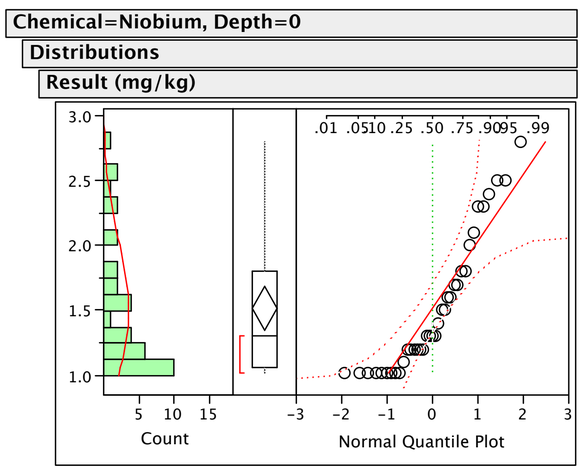
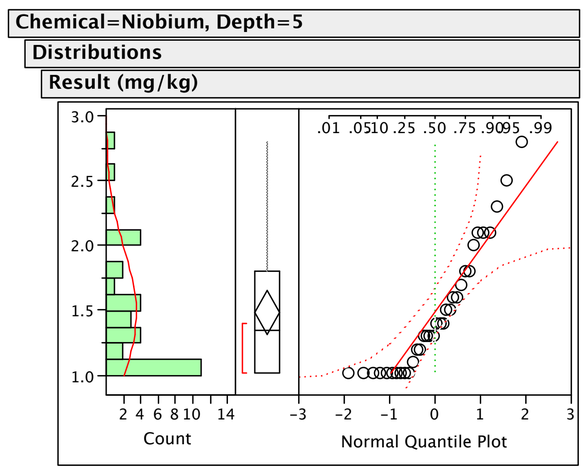
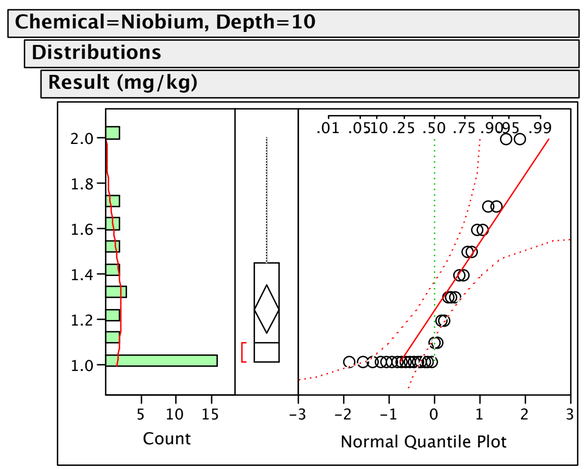


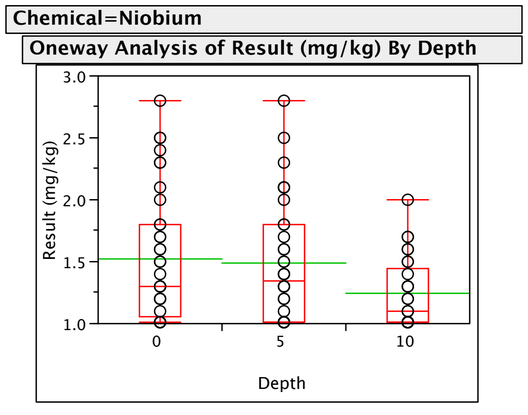
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









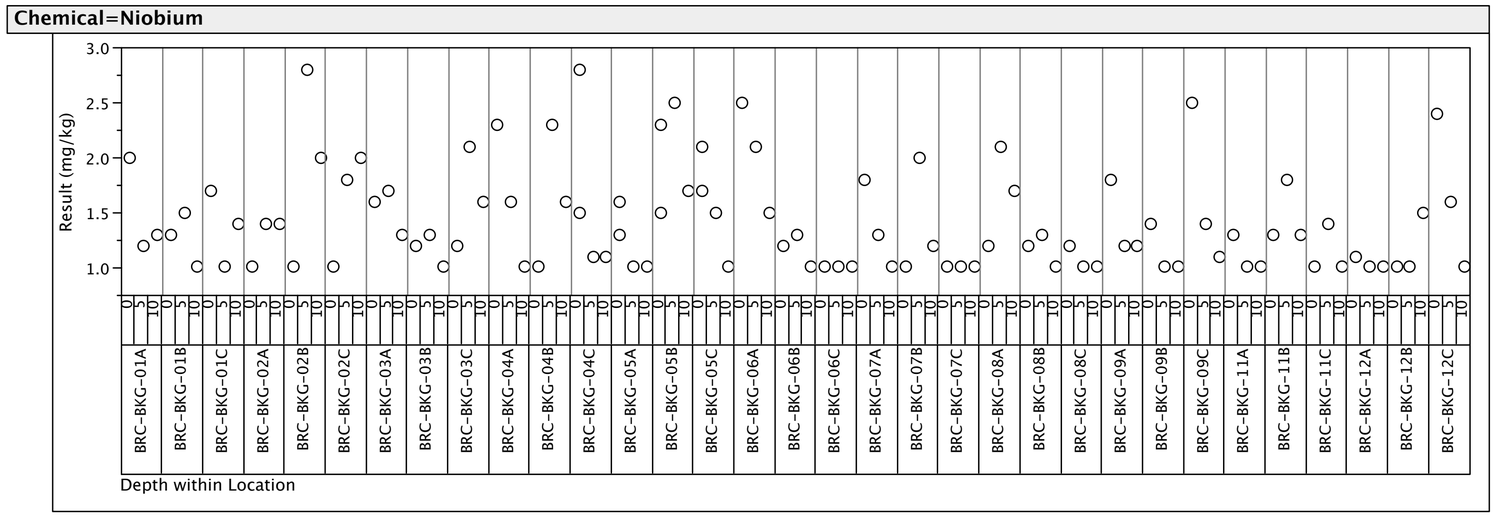
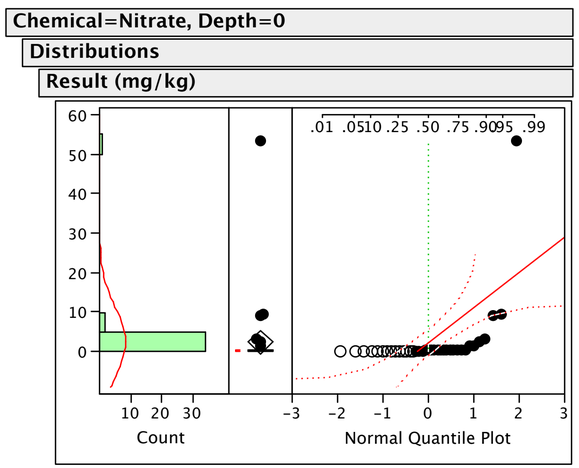
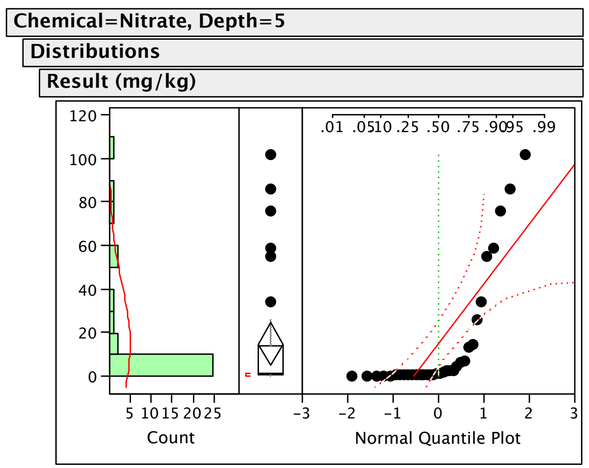
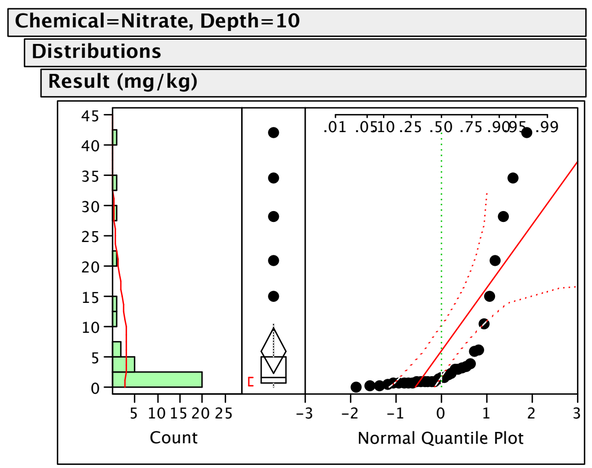


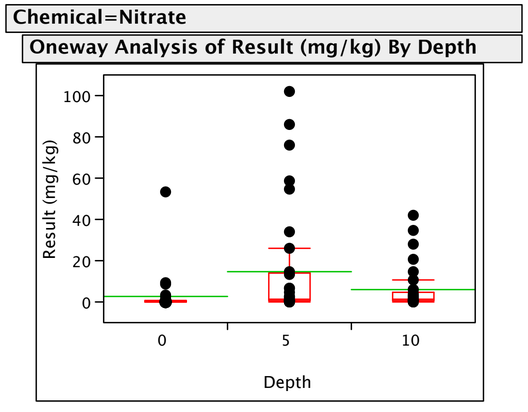
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









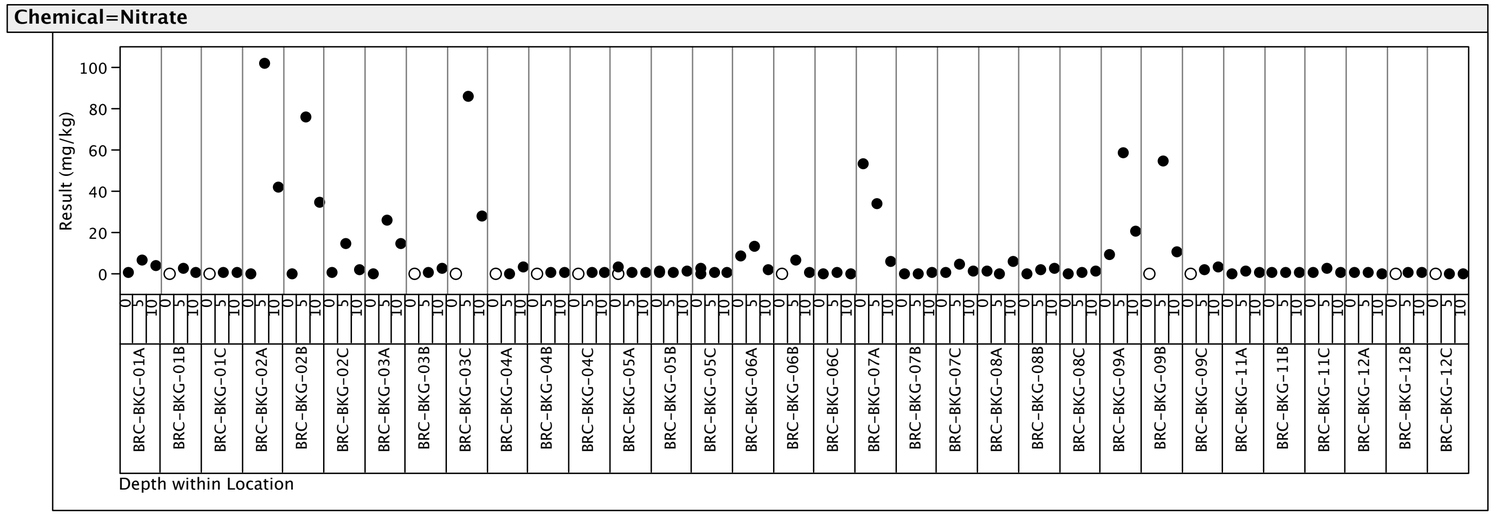
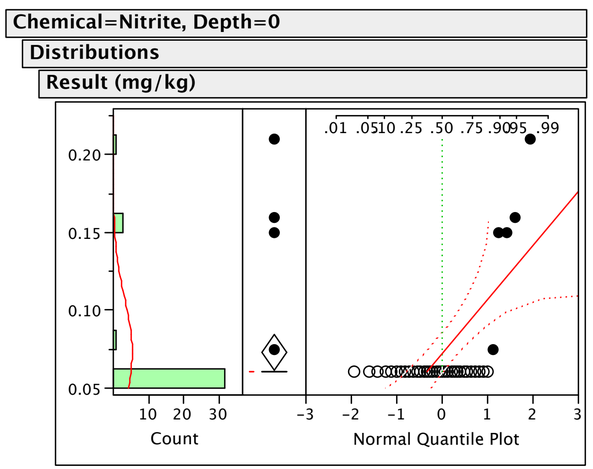
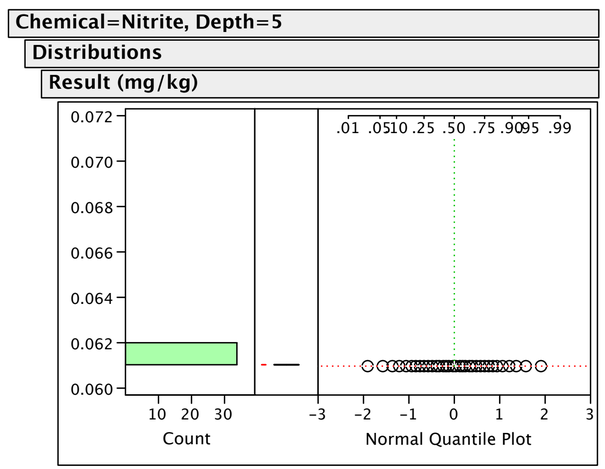
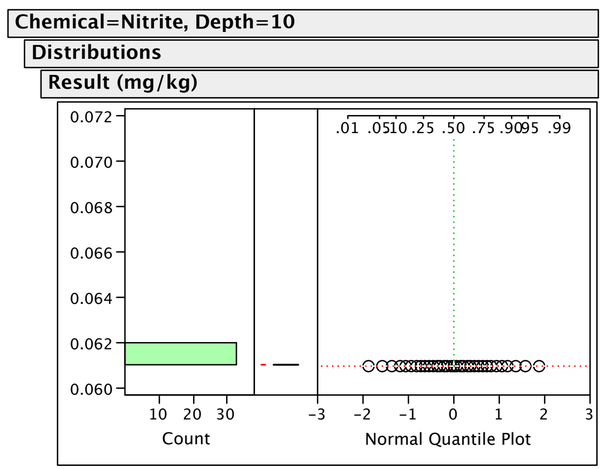


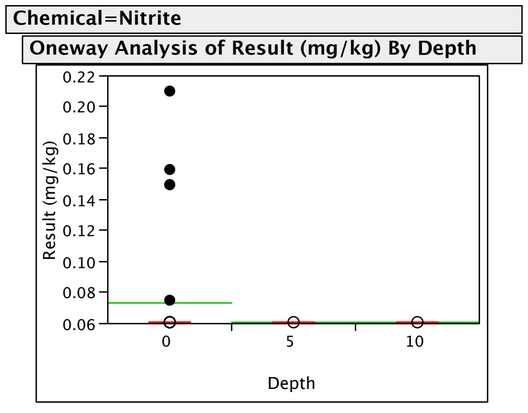
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









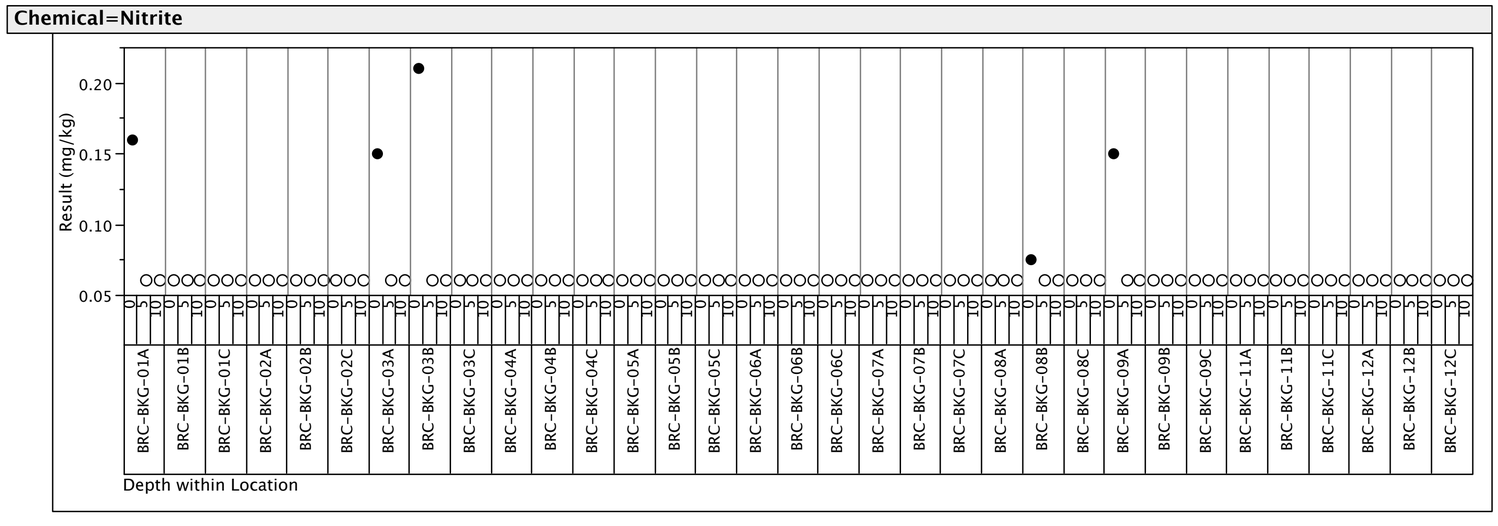
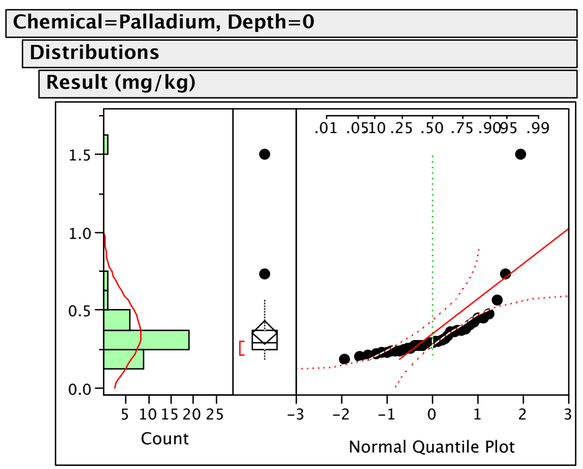
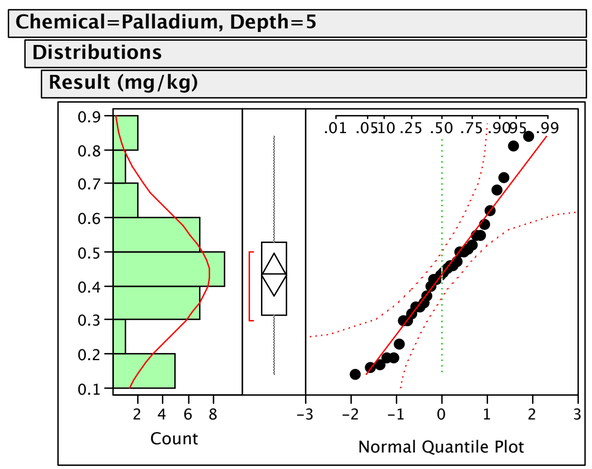
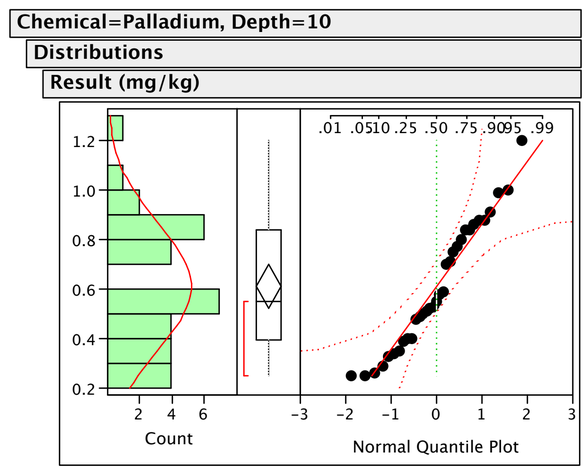


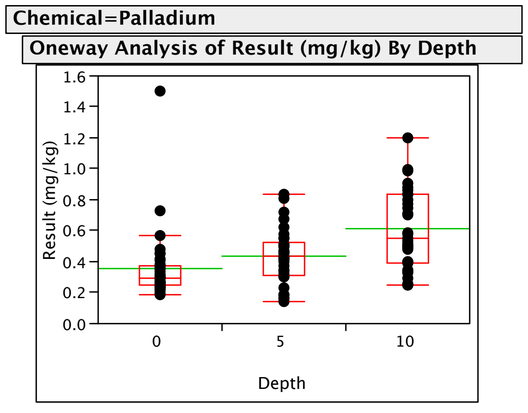
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









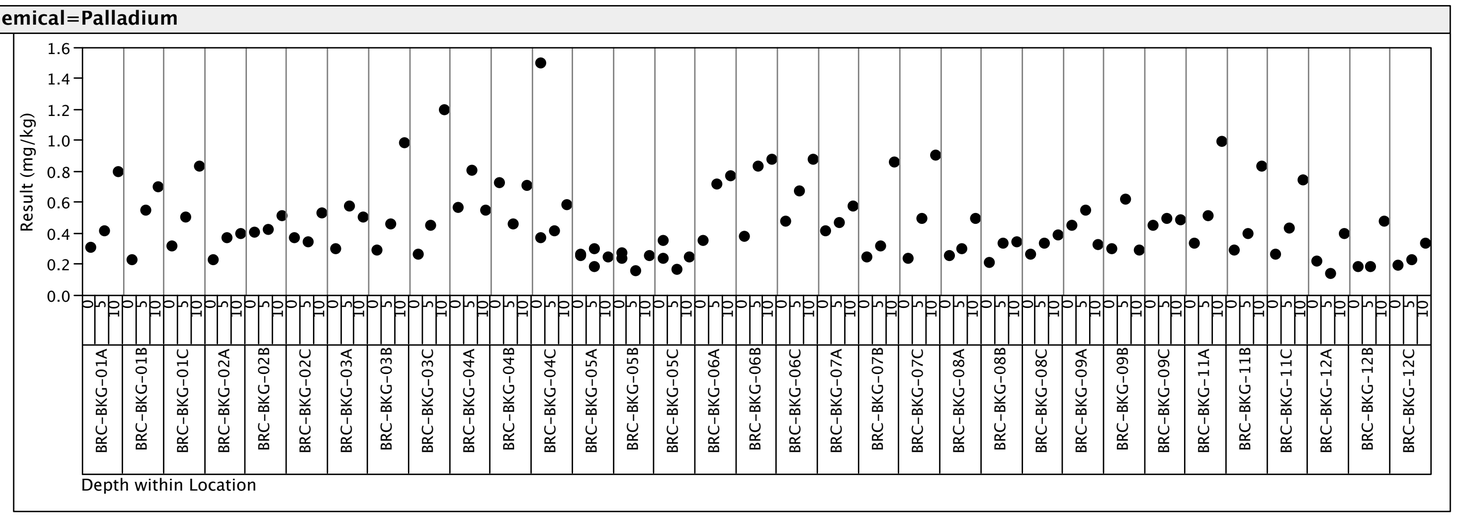
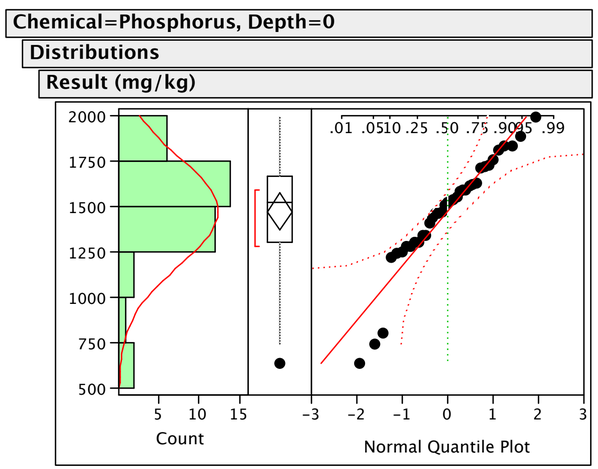
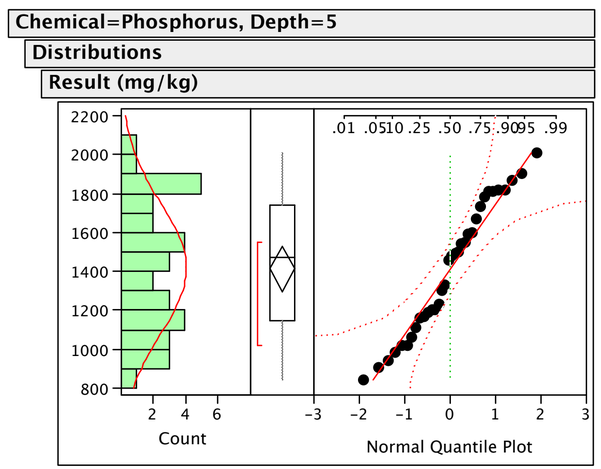
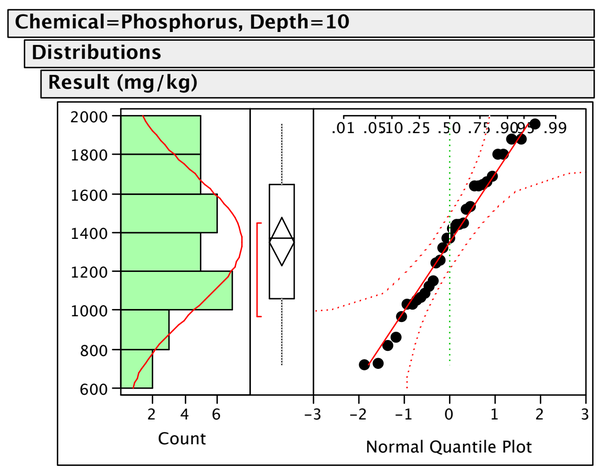


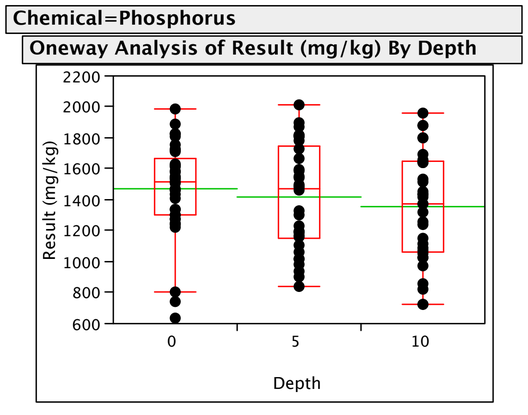
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









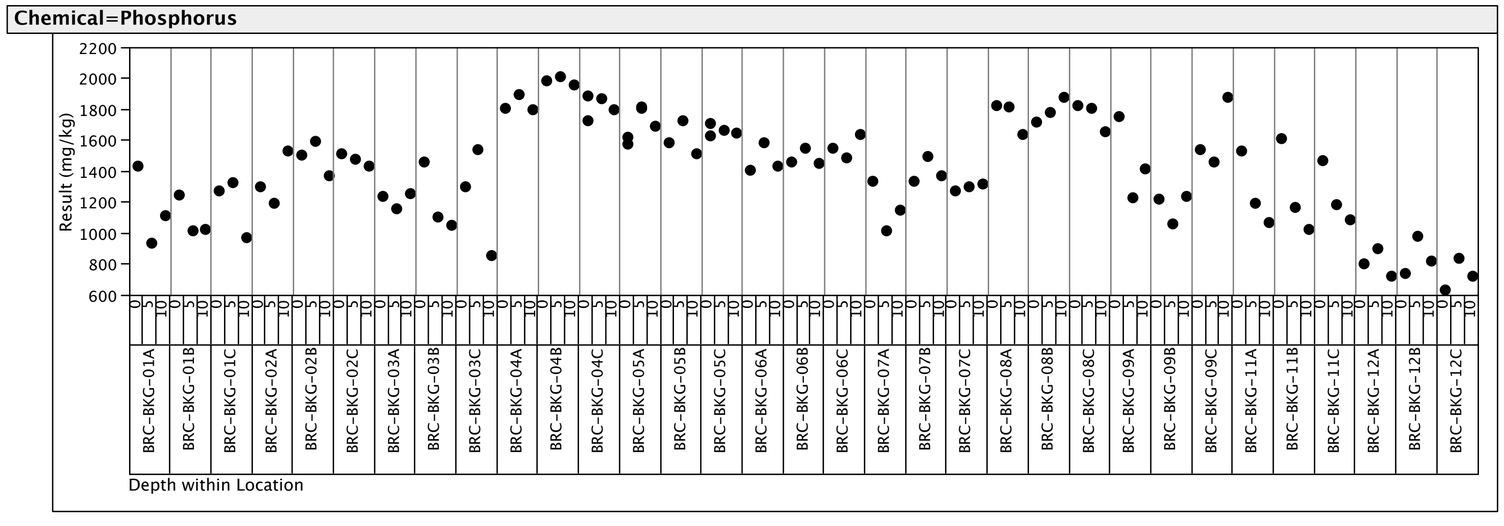
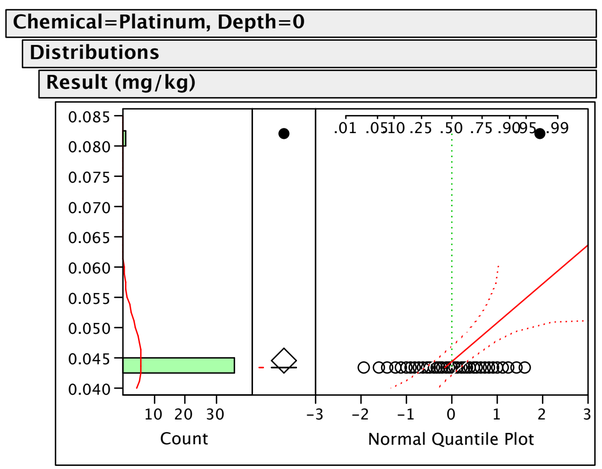
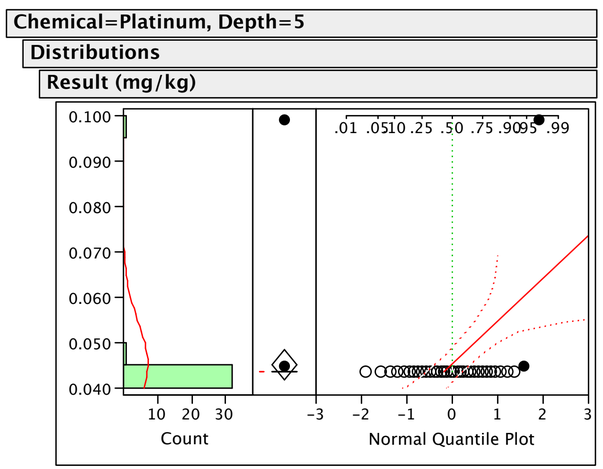
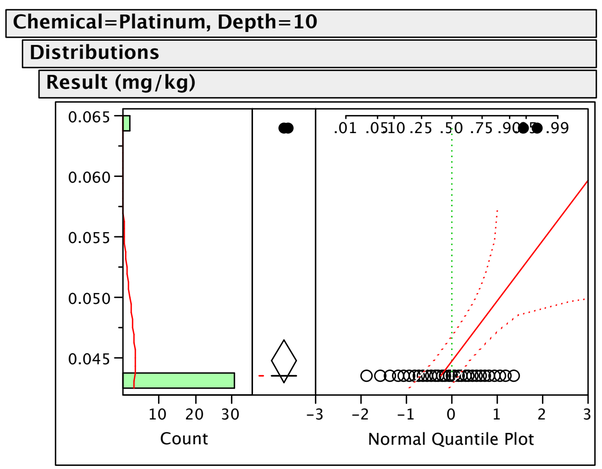


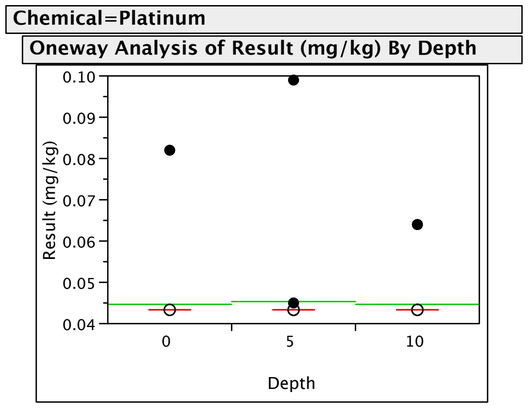
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









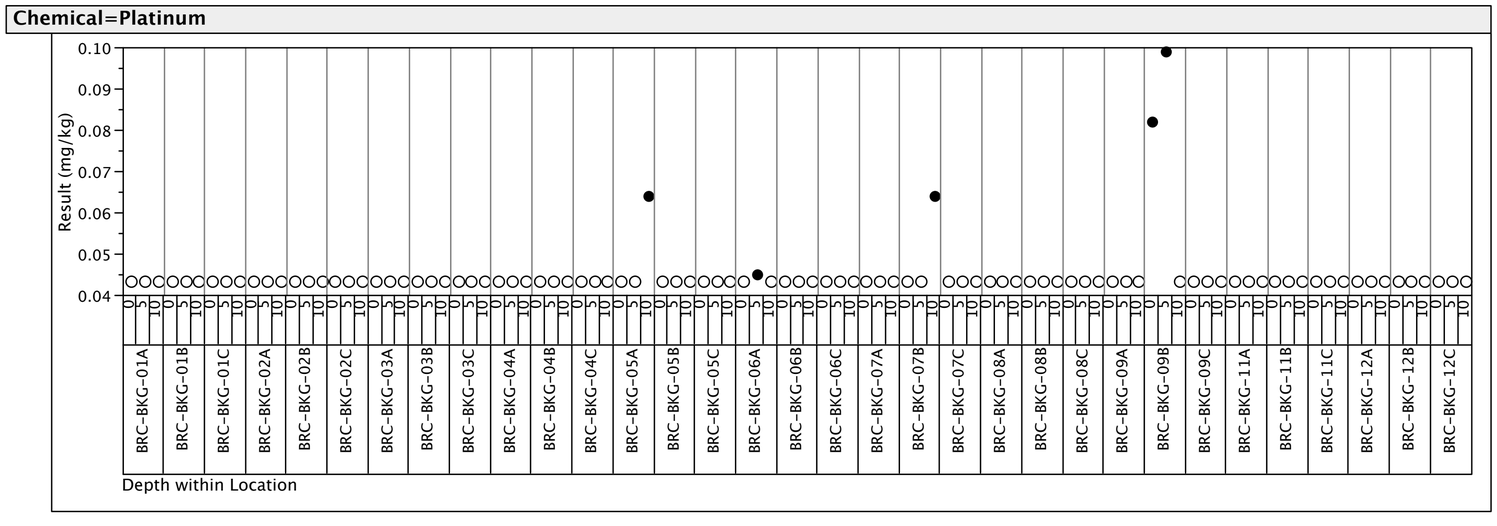
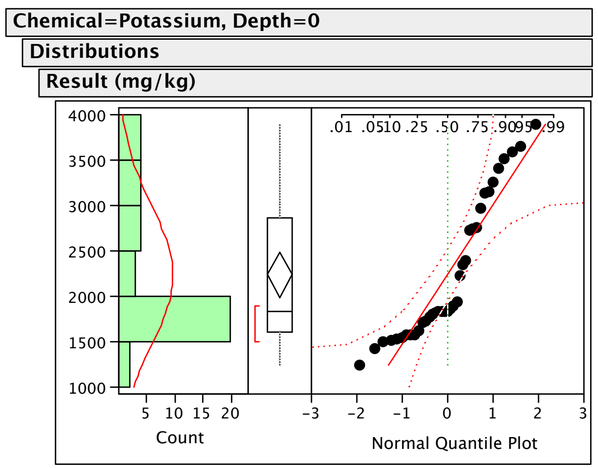
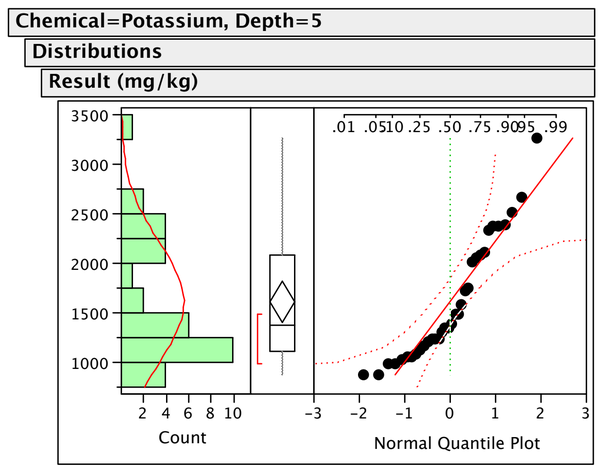
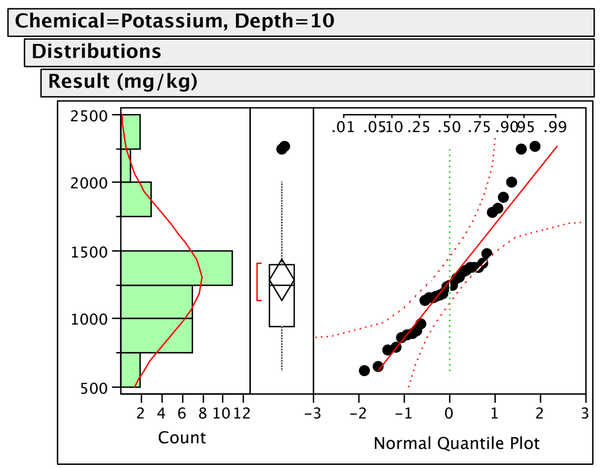


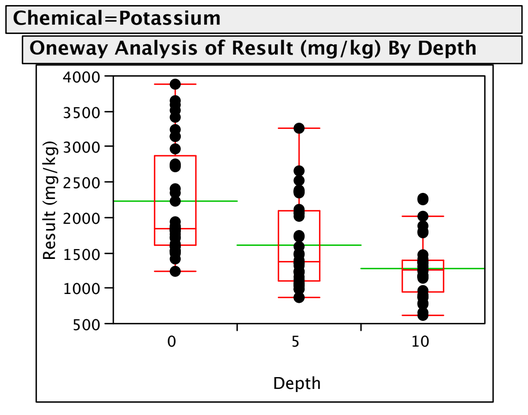
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









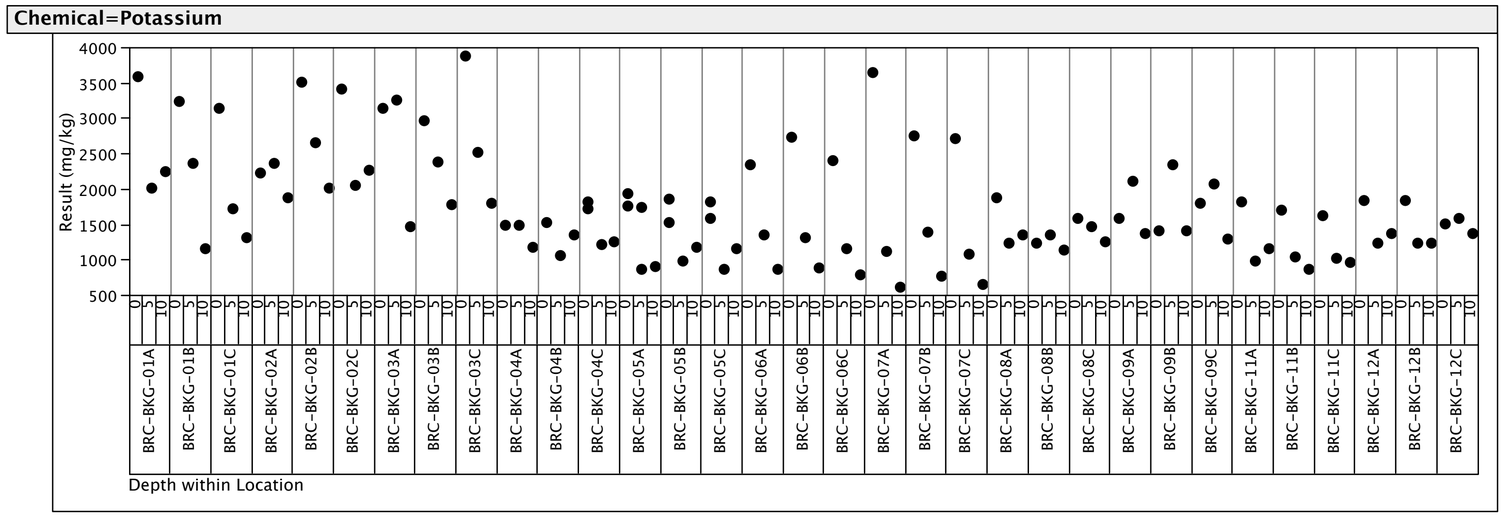
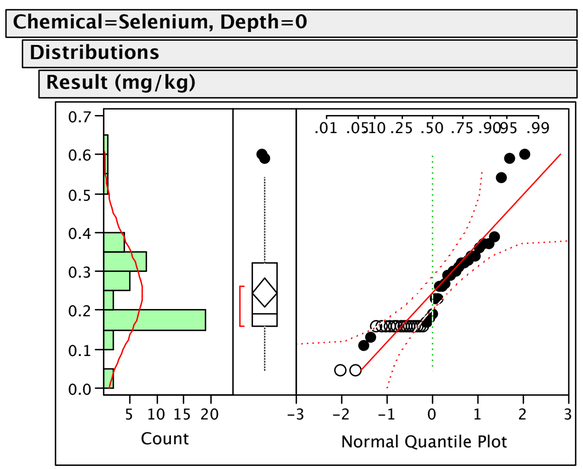
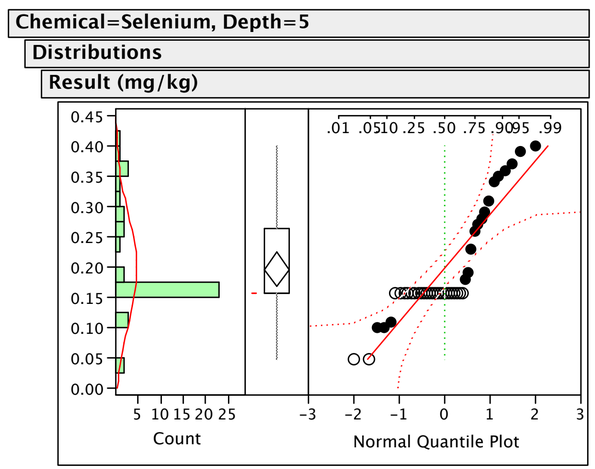
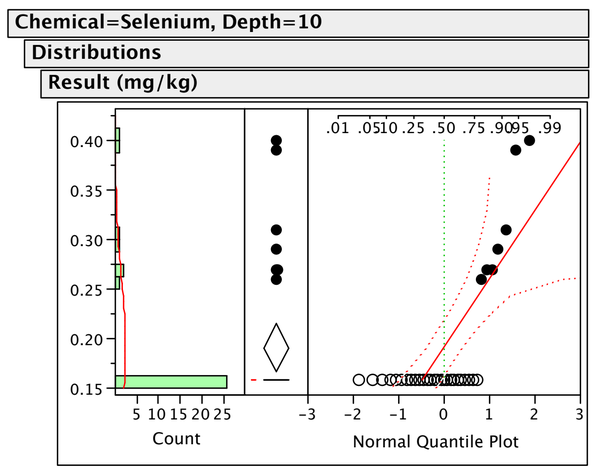


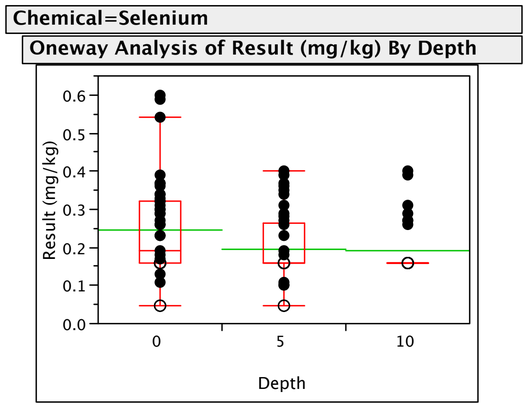
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









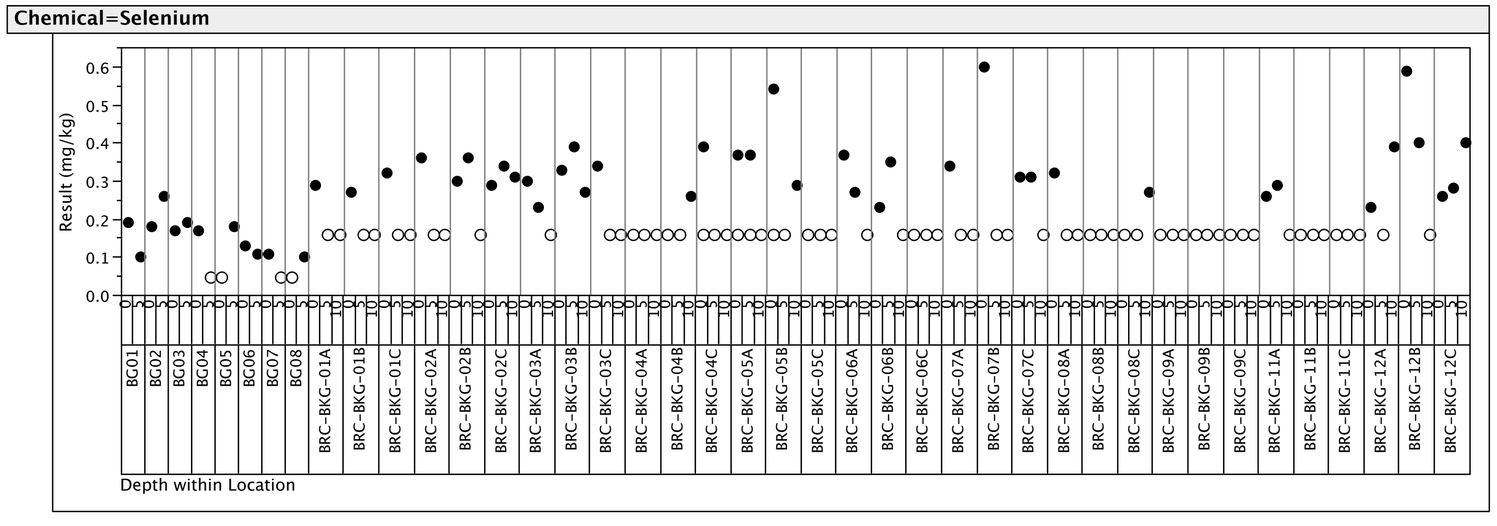
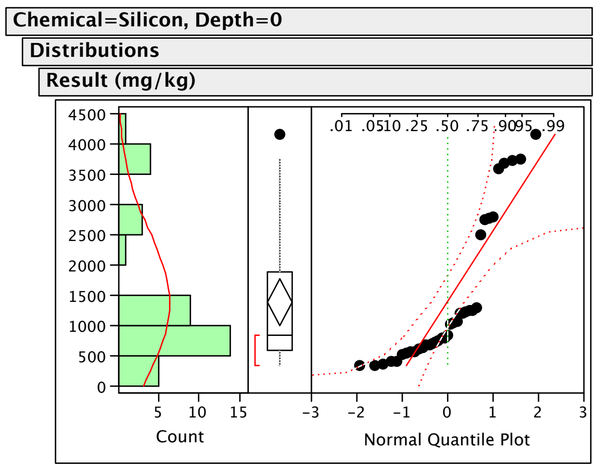
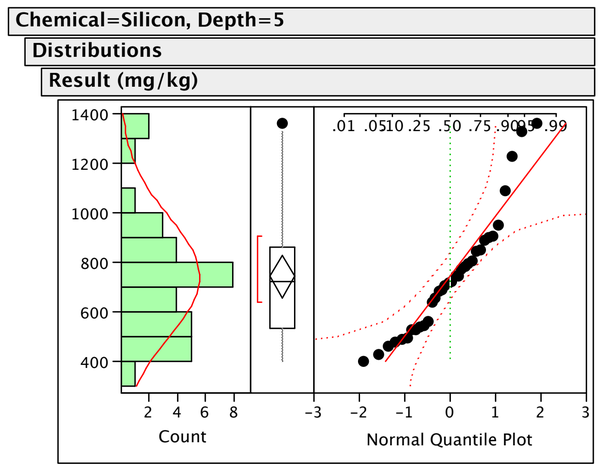
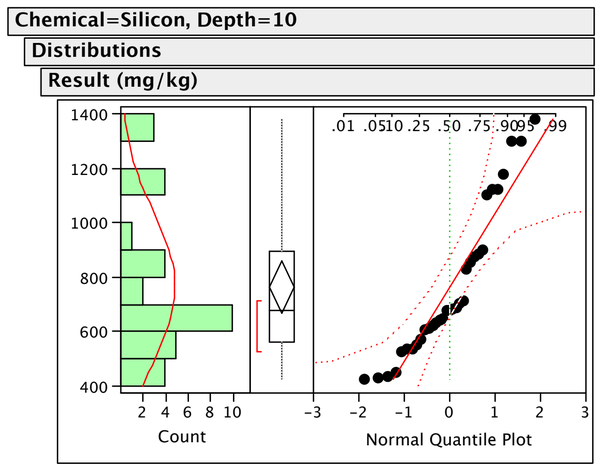


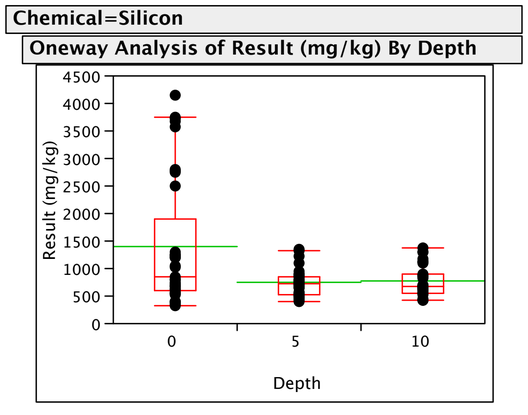
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









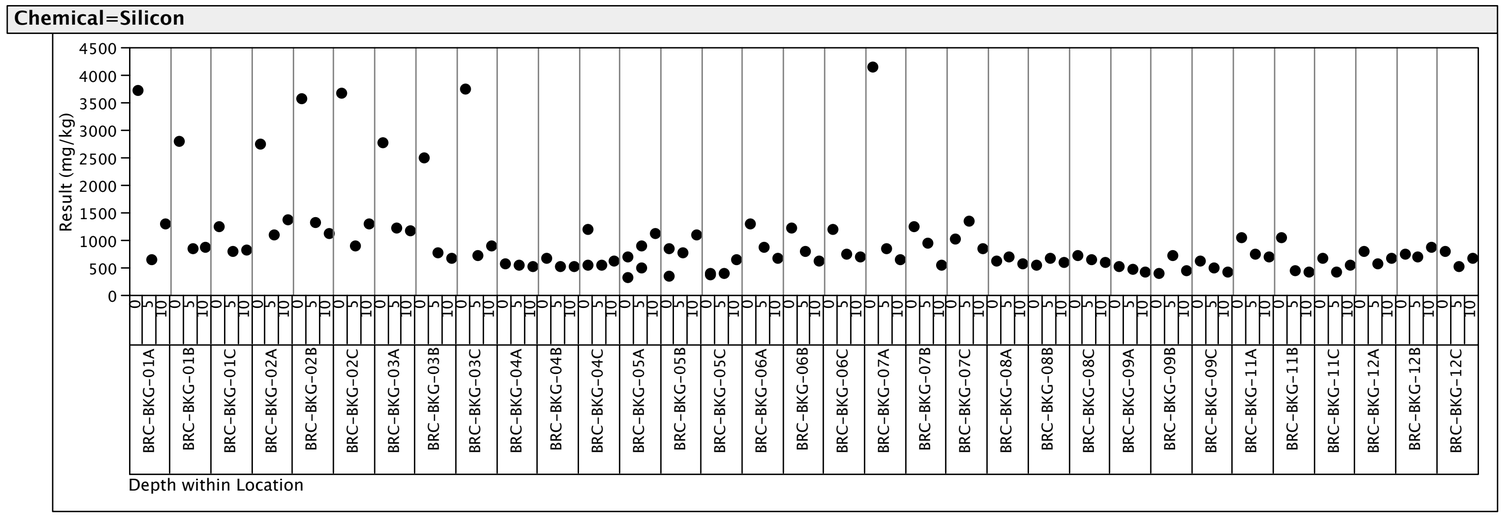
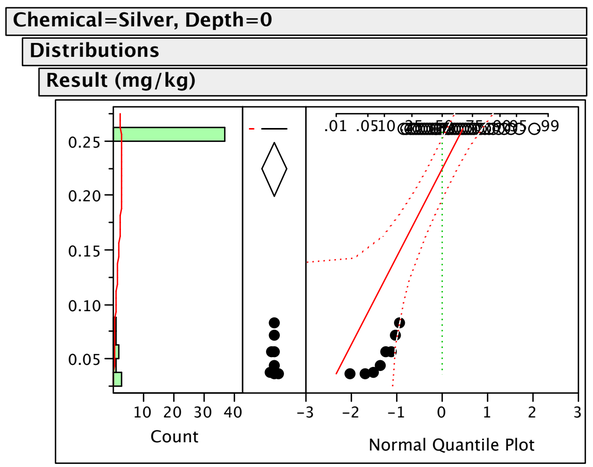
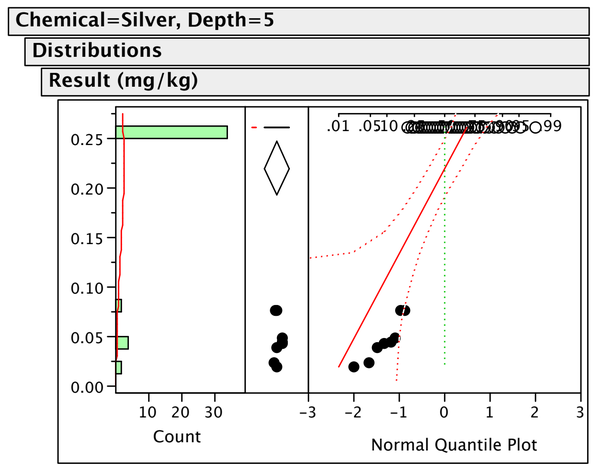
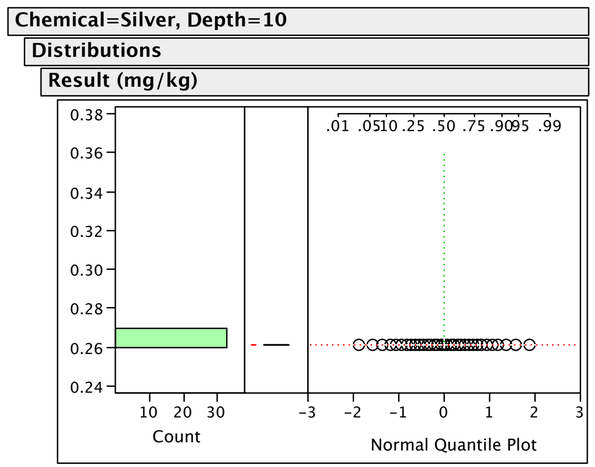


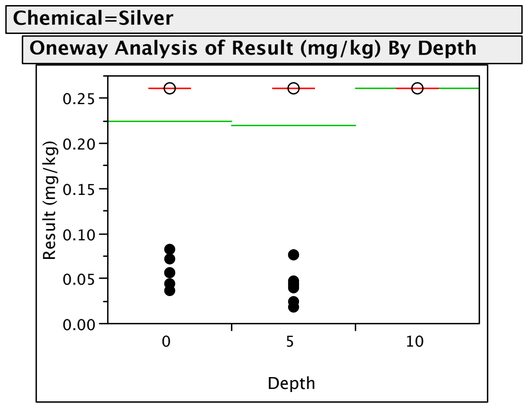
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









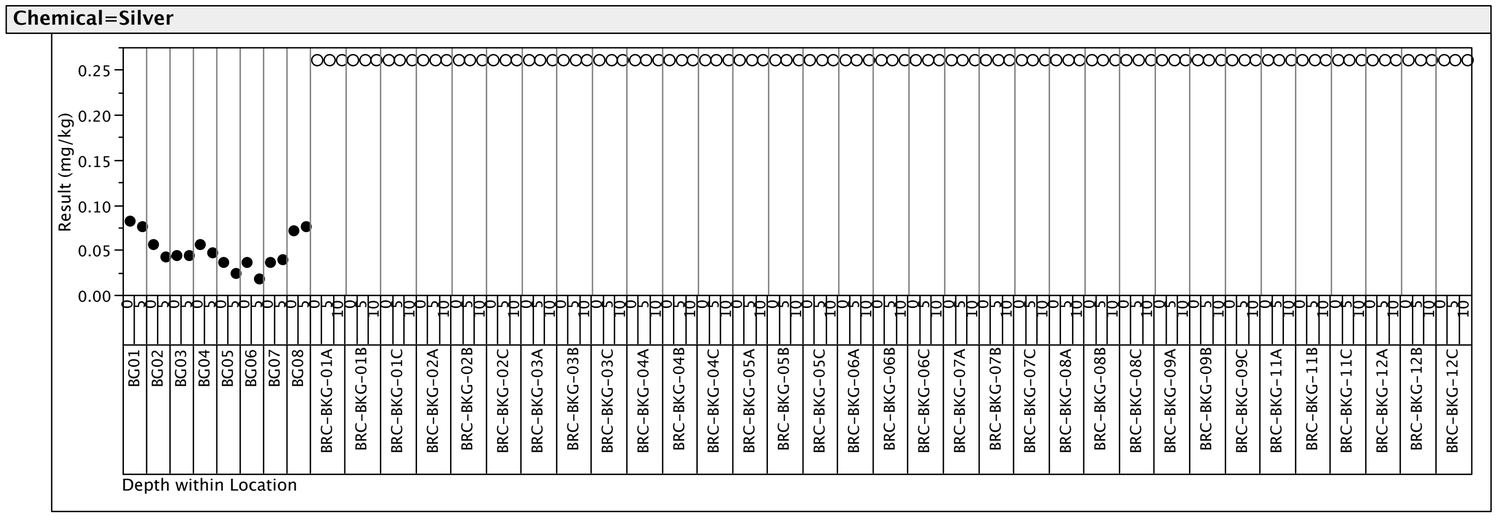
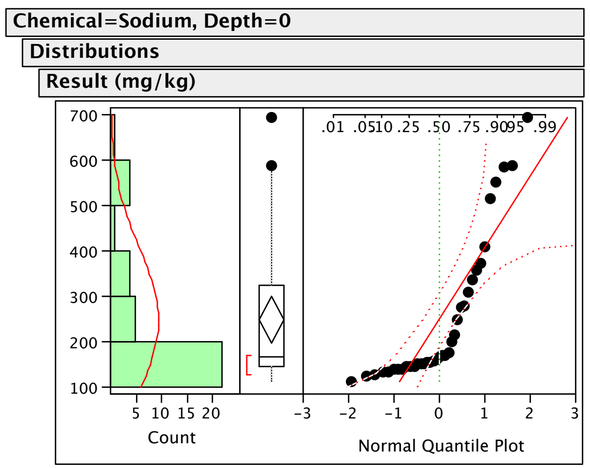
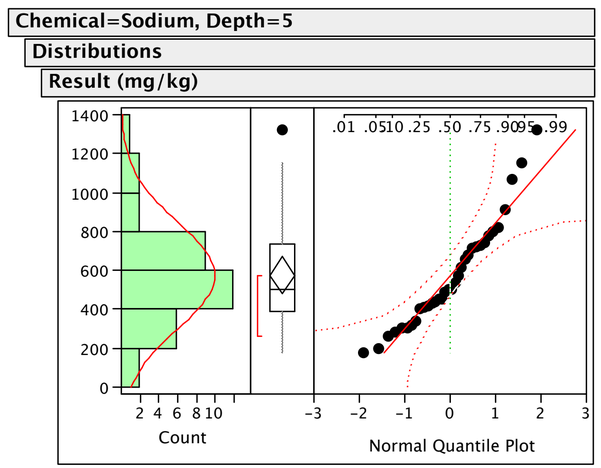
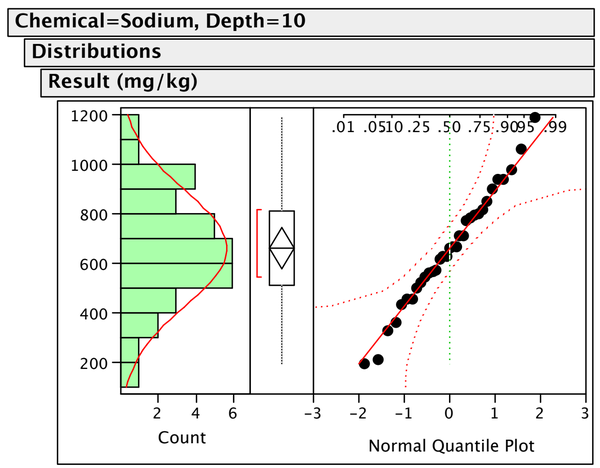


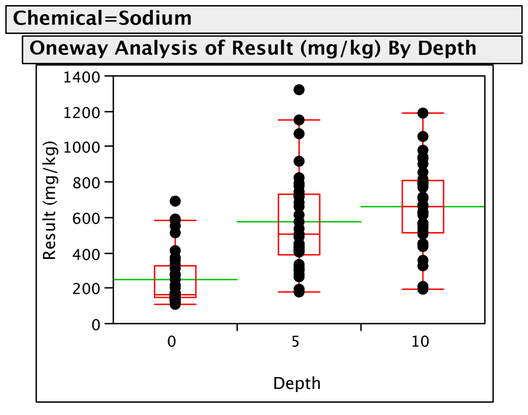
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









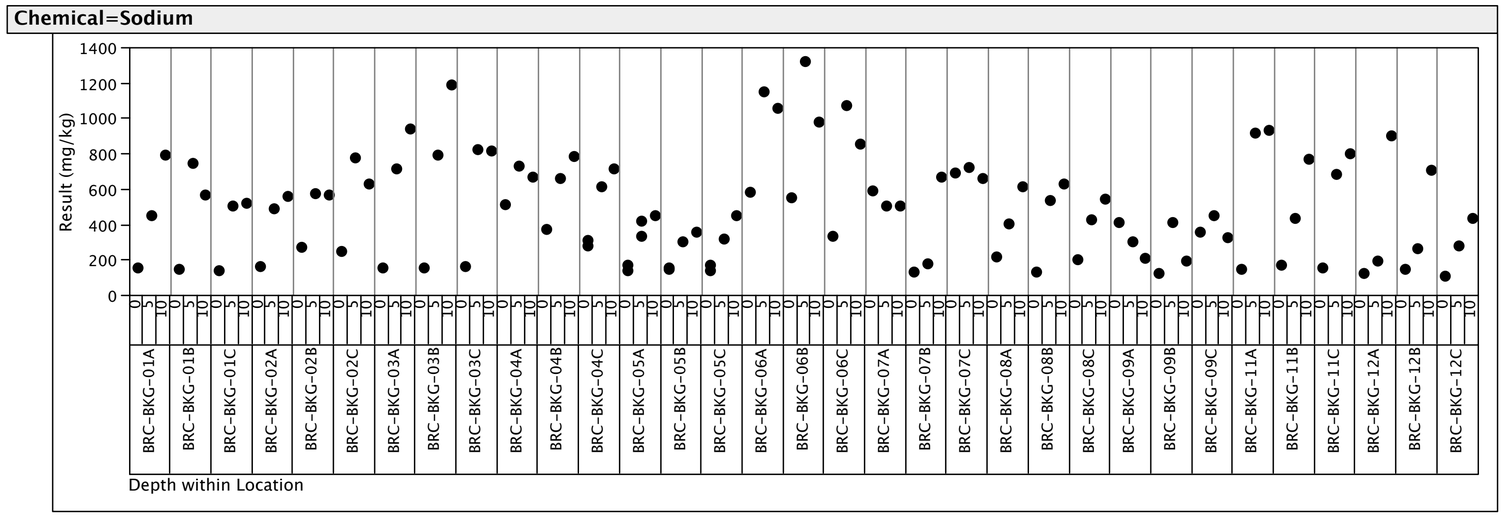
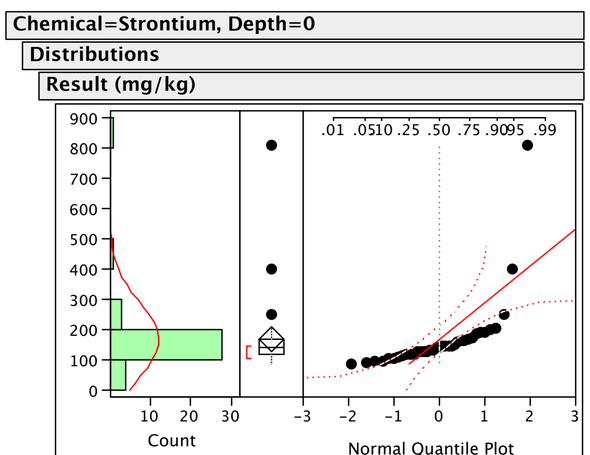
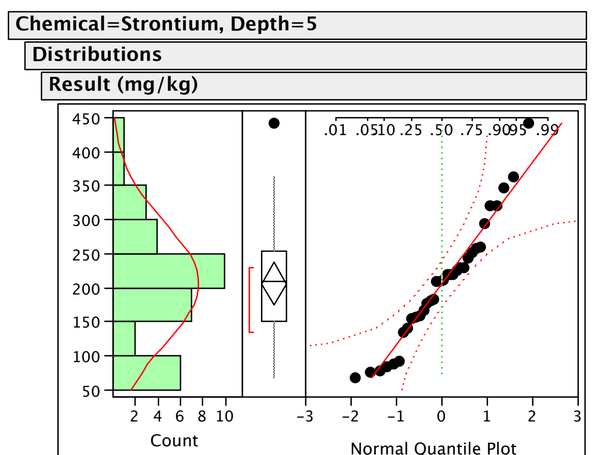
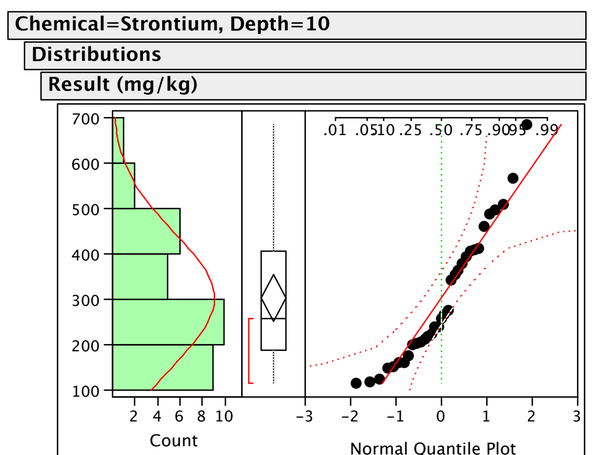


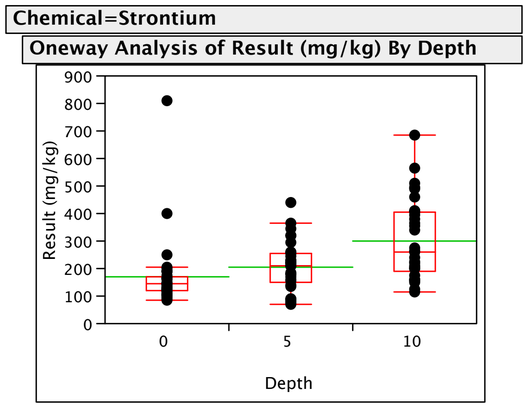
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









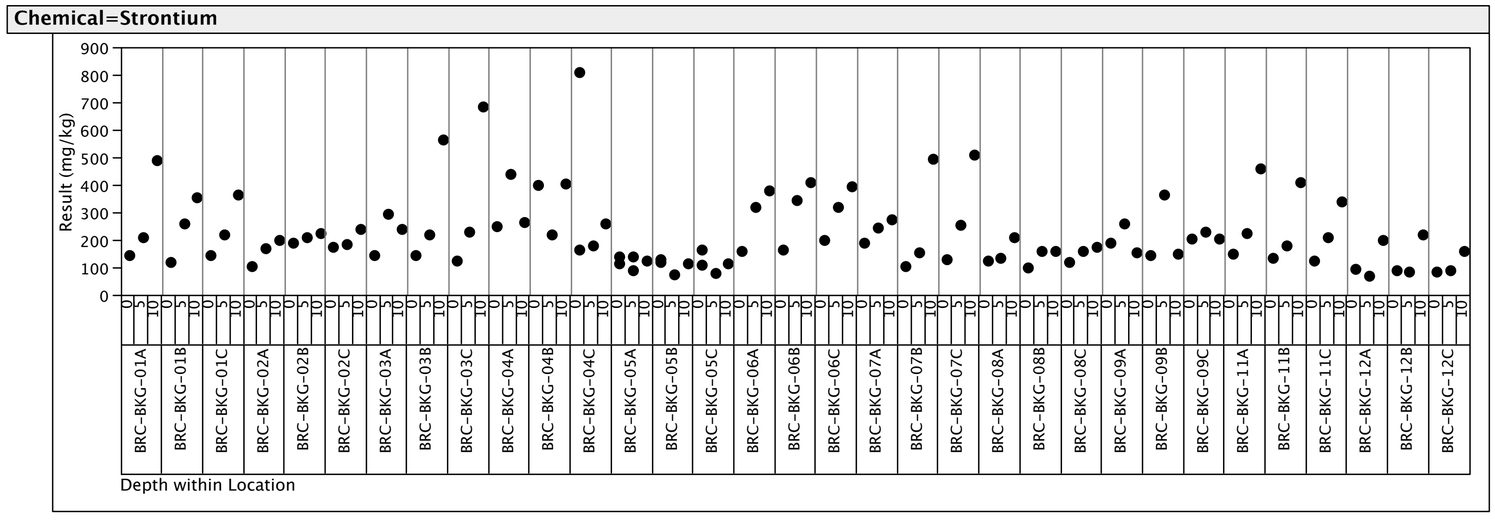
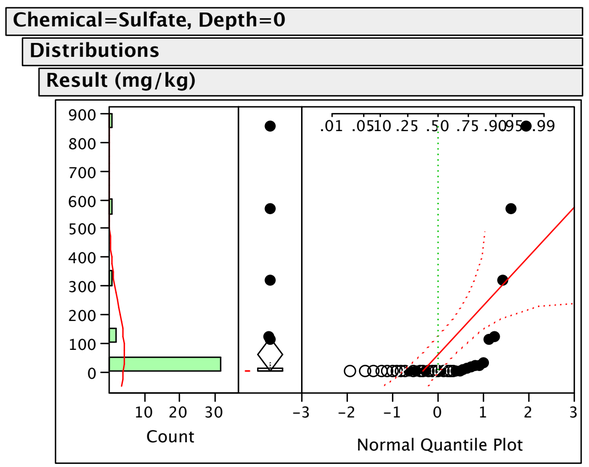
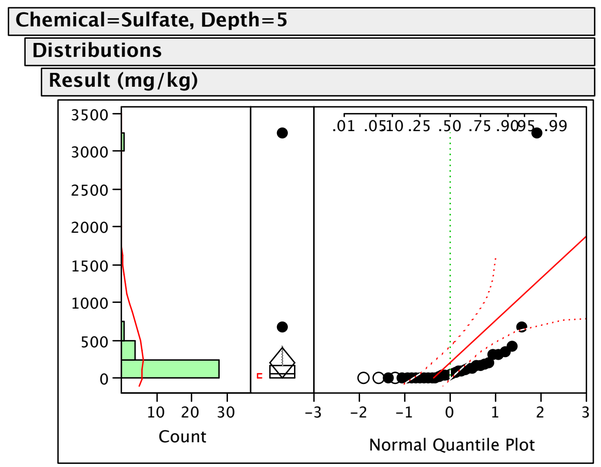
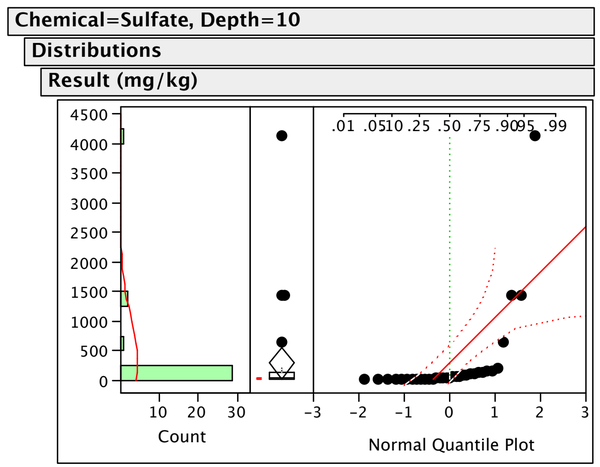


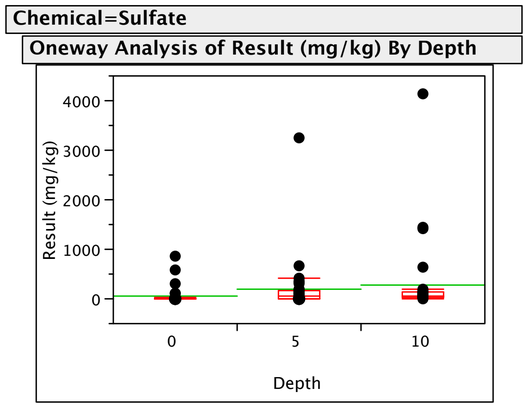
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









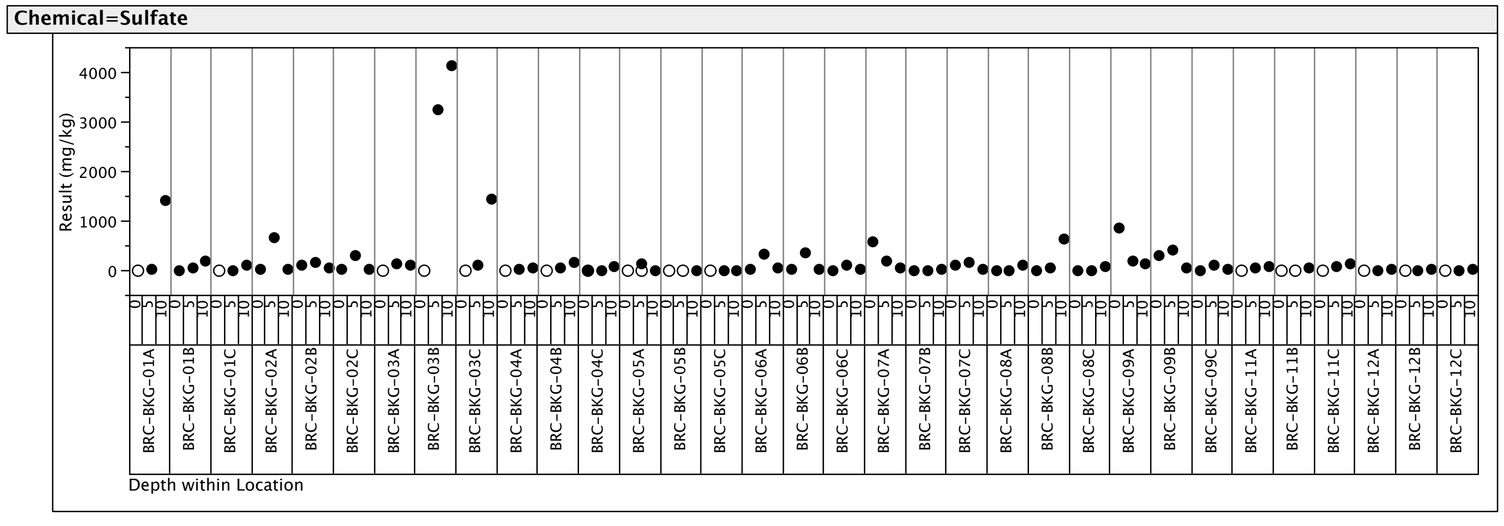
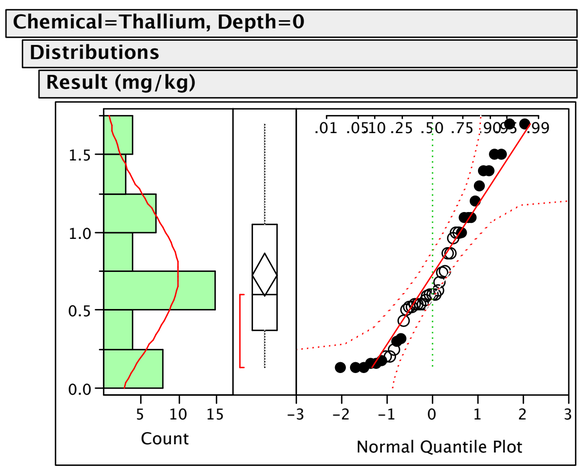
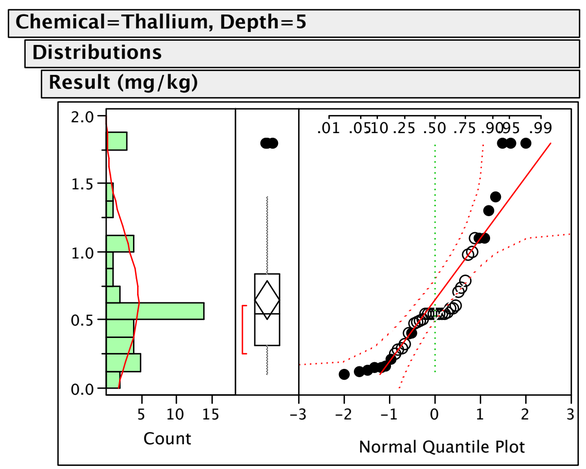
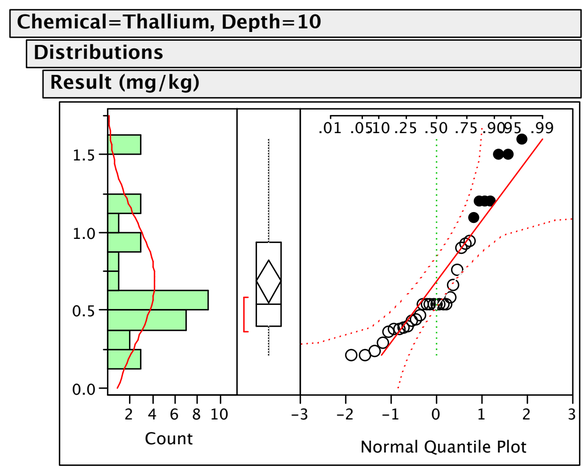


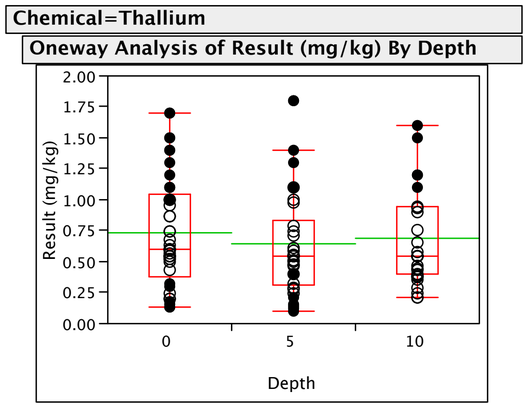
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









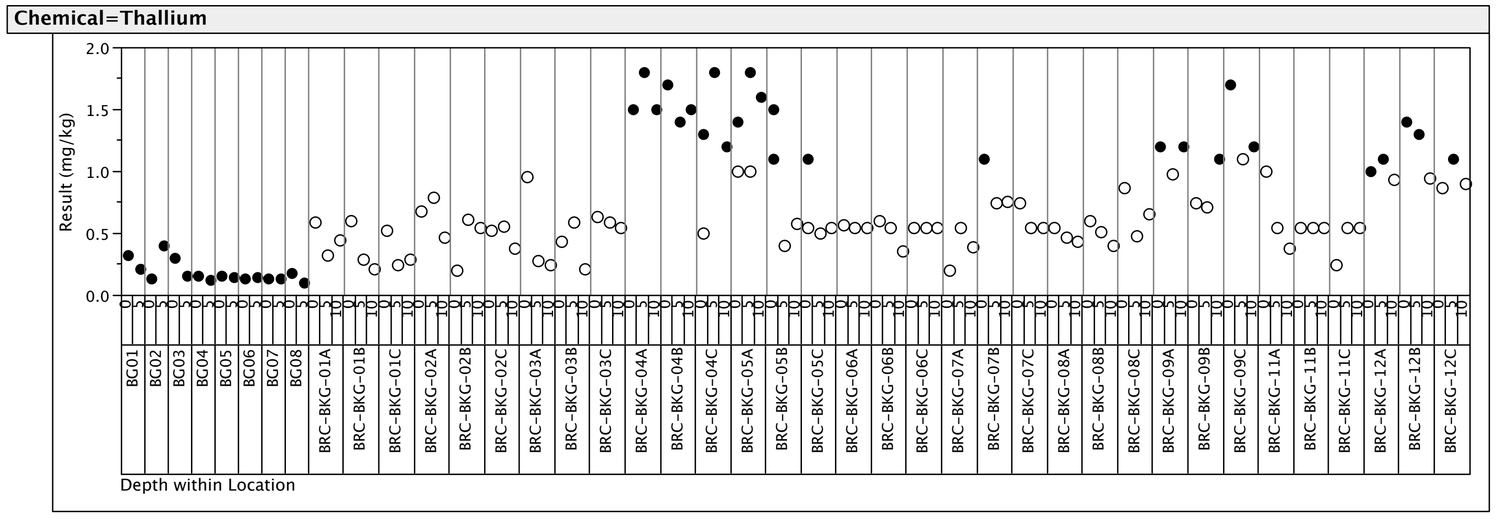
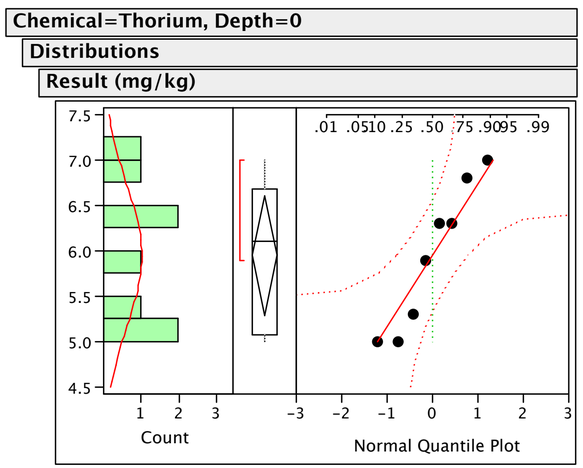
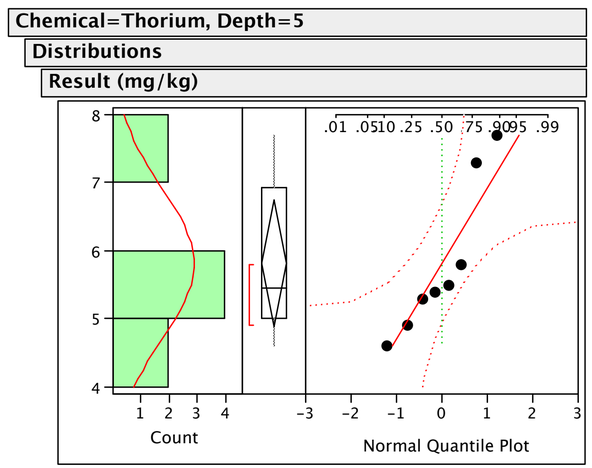
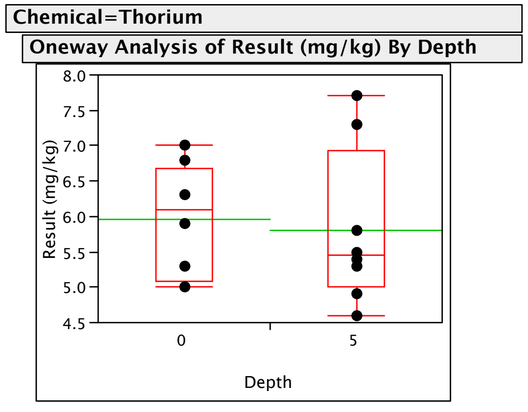


FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH







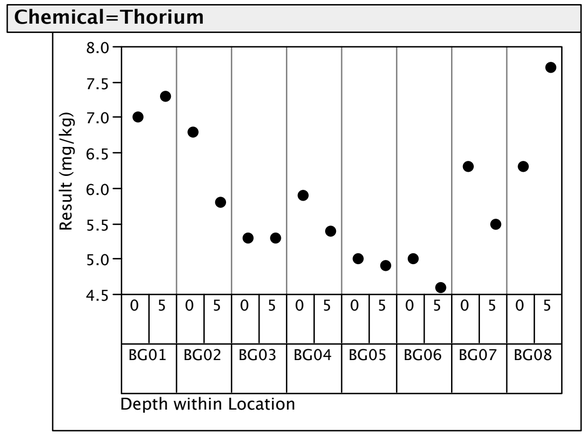
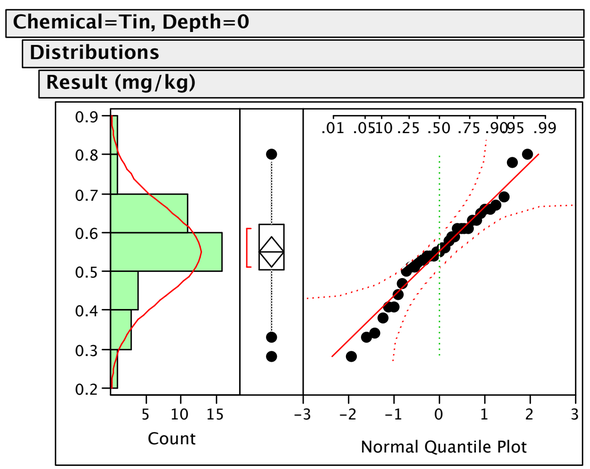
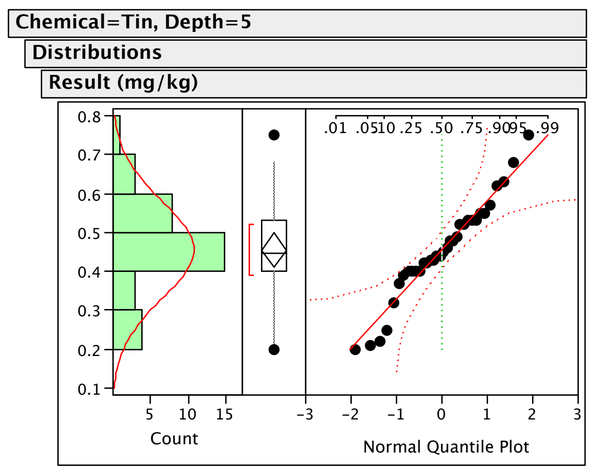
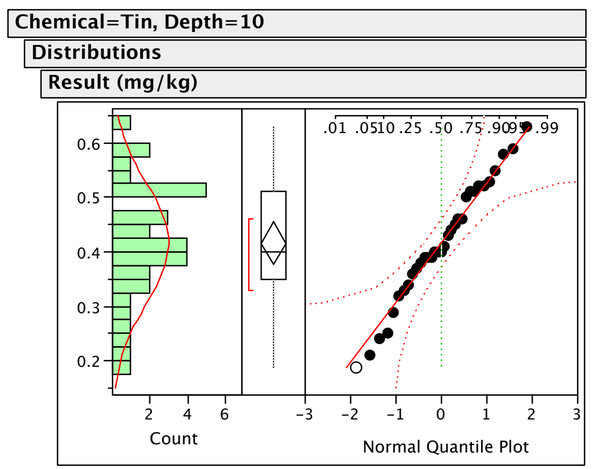


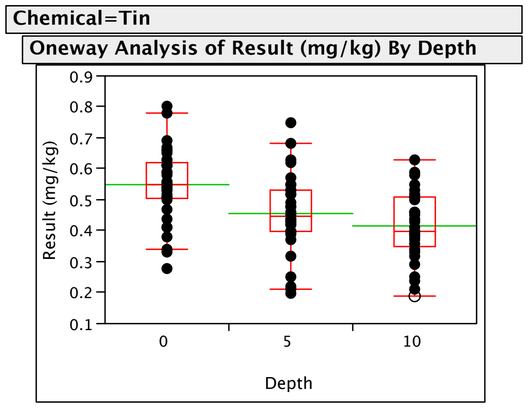
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









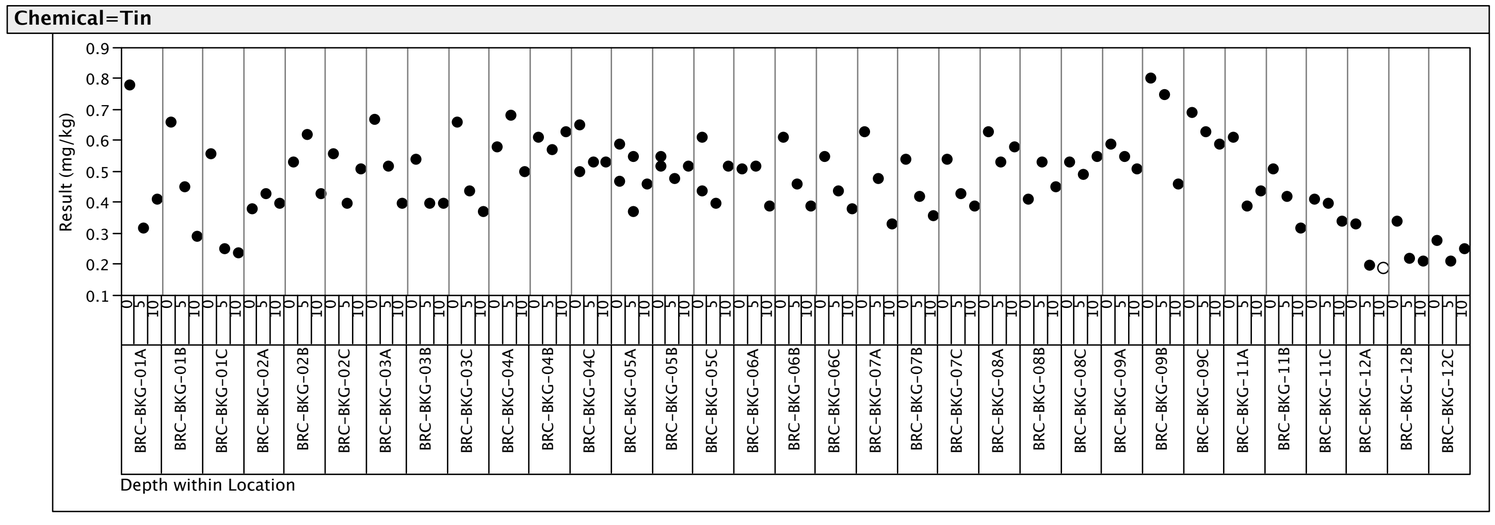
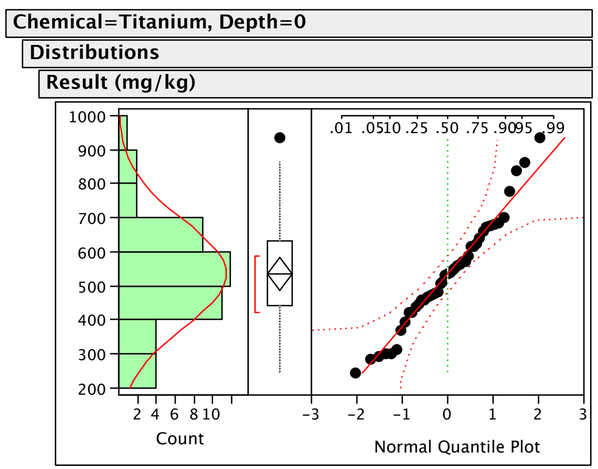
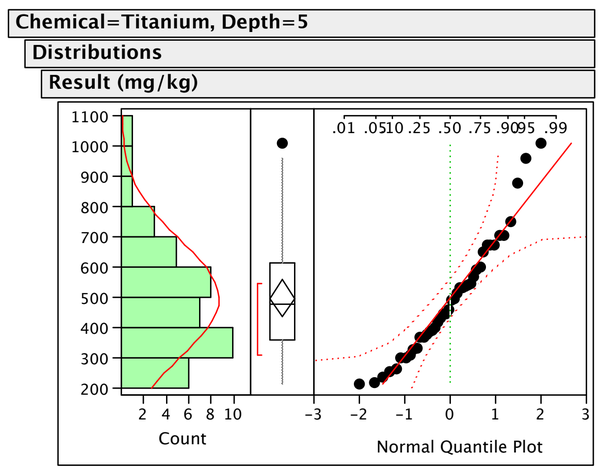
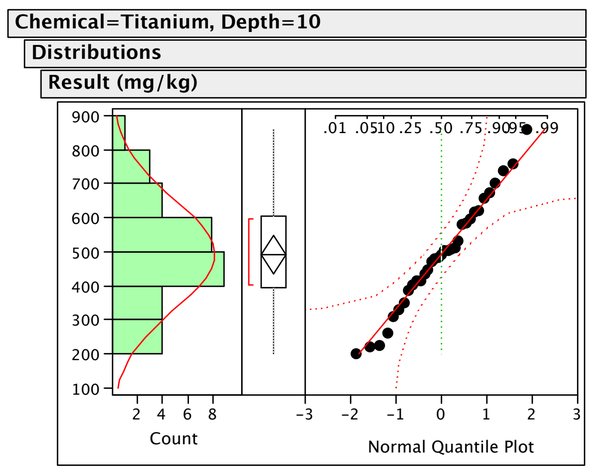


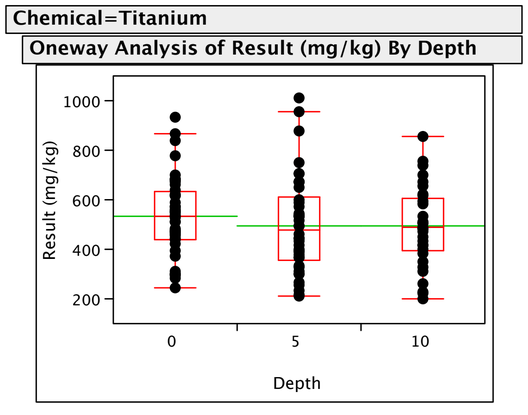
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









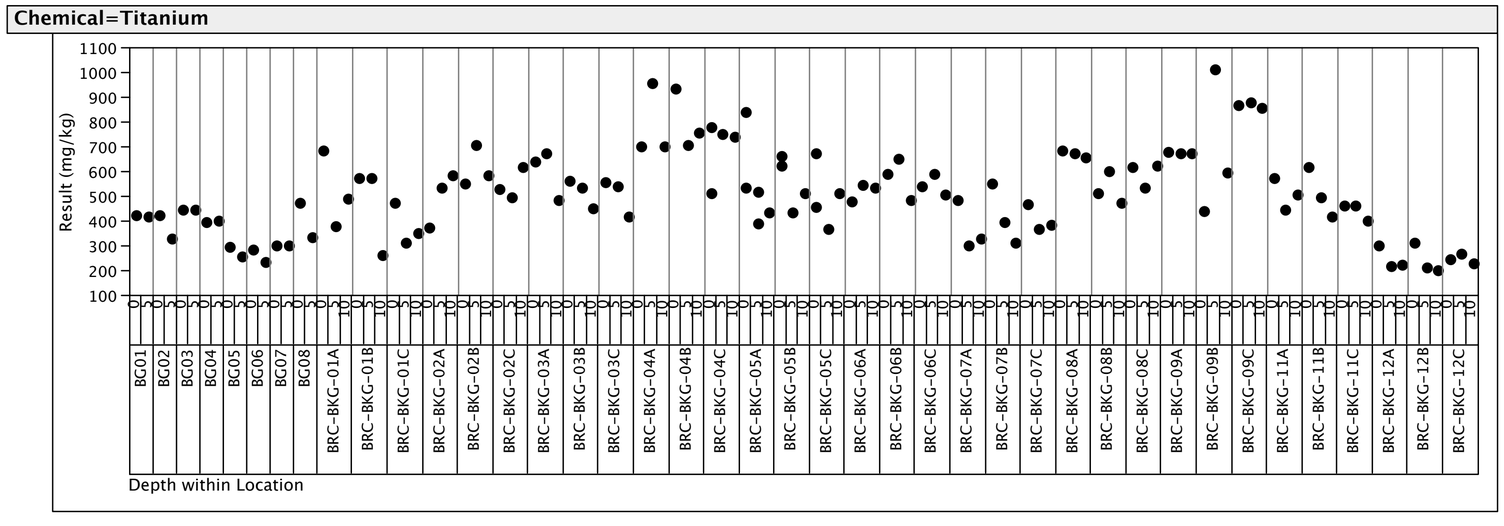
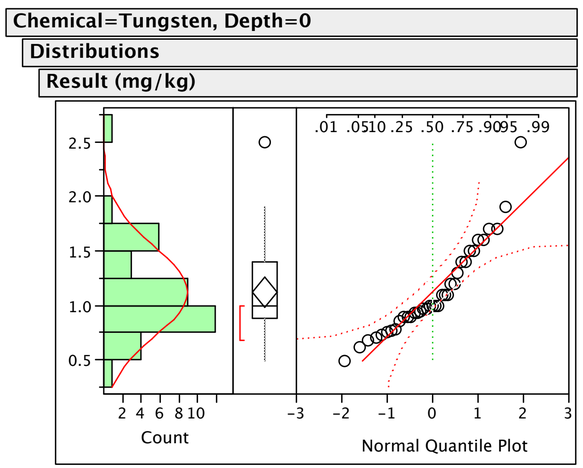
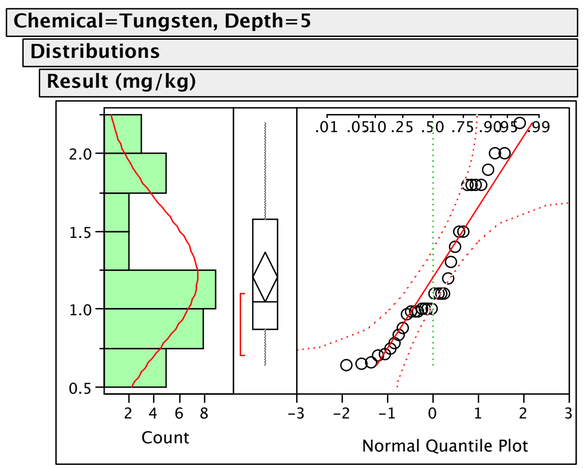
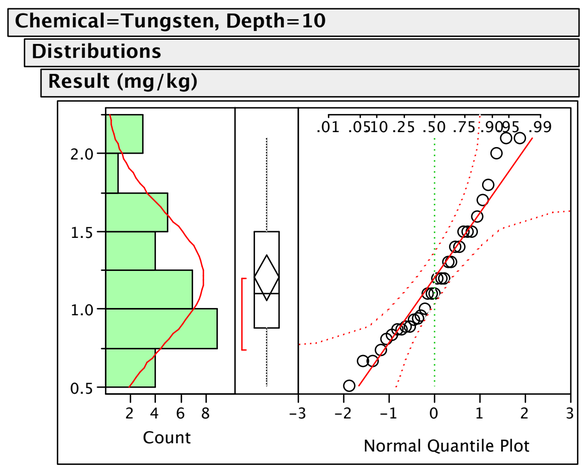


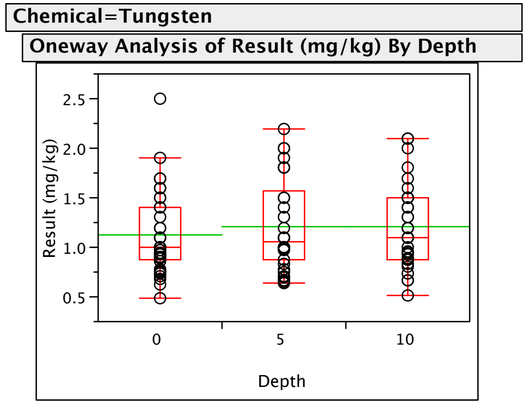
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









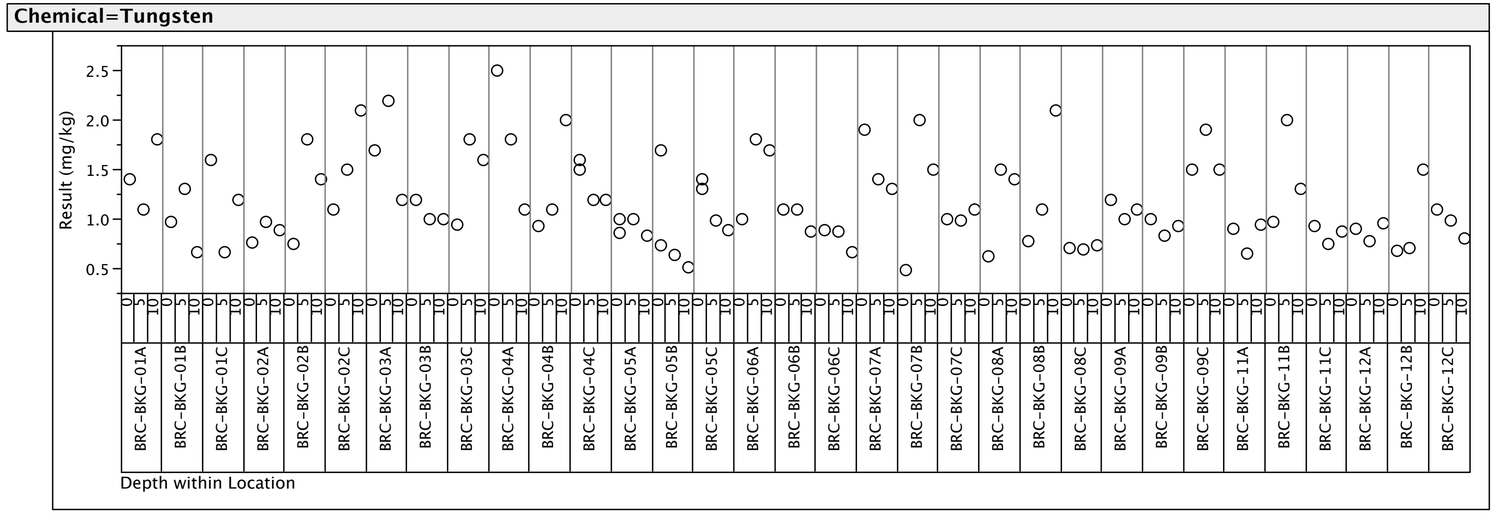
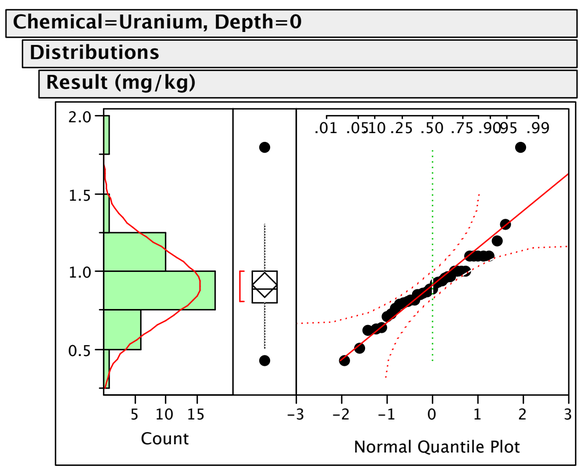
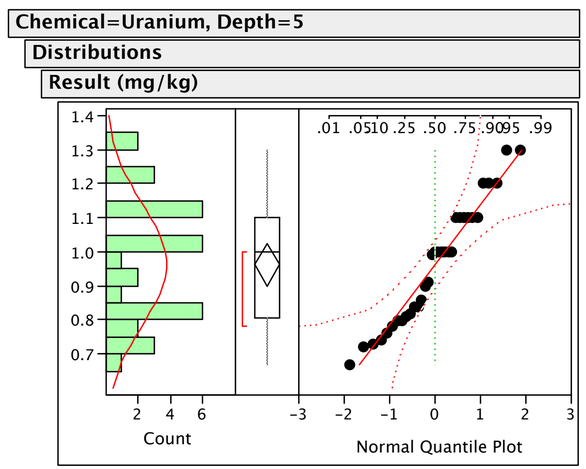
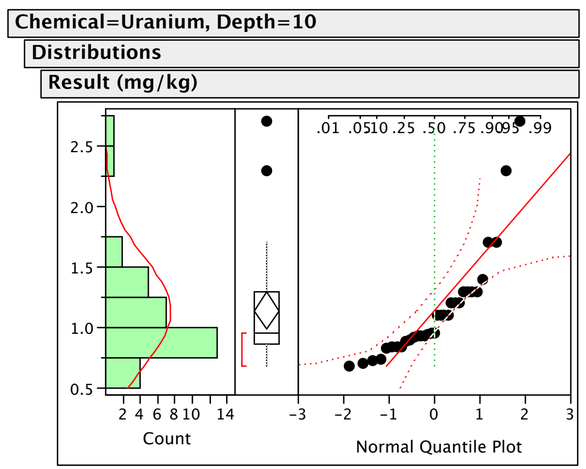


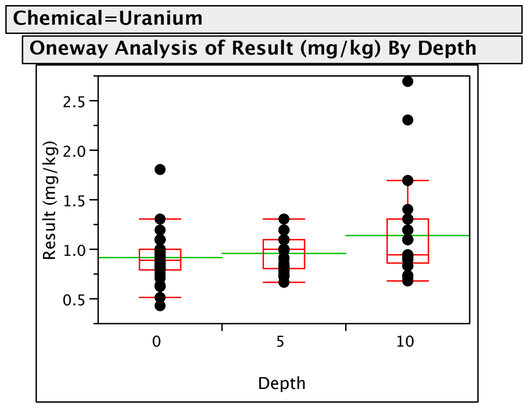
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









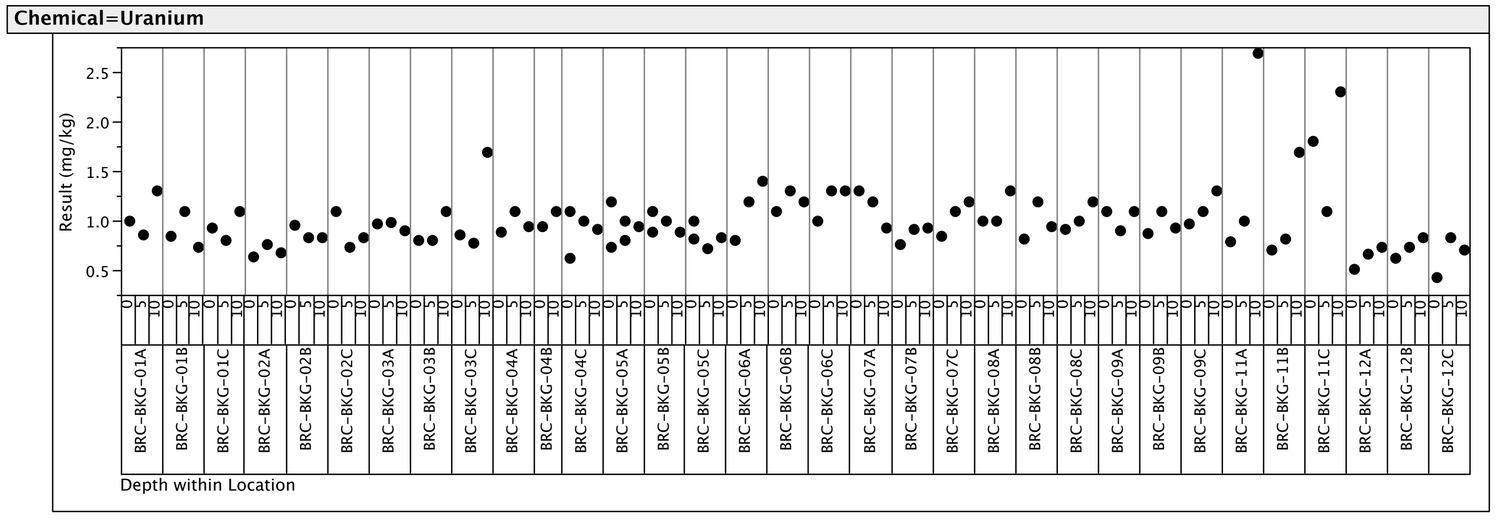
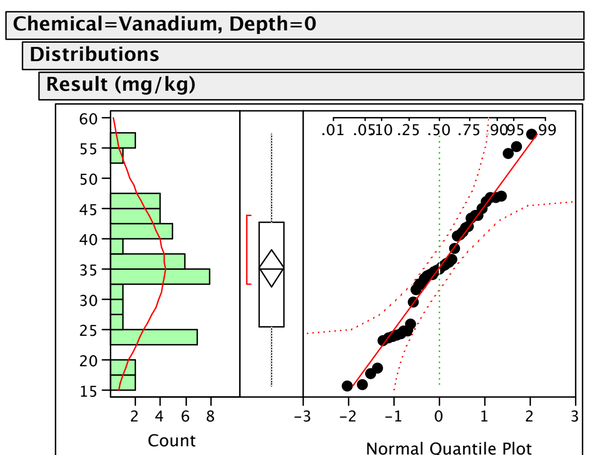
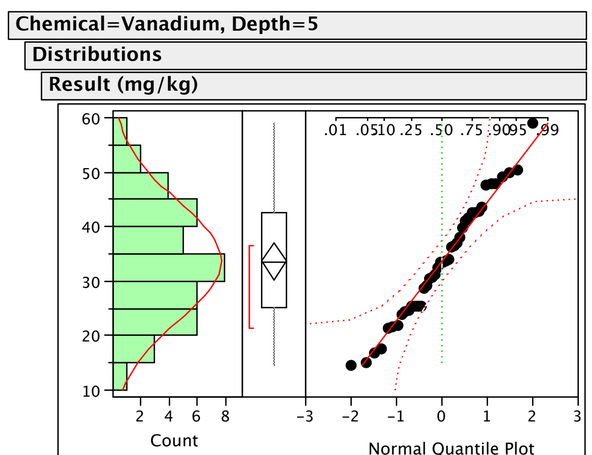
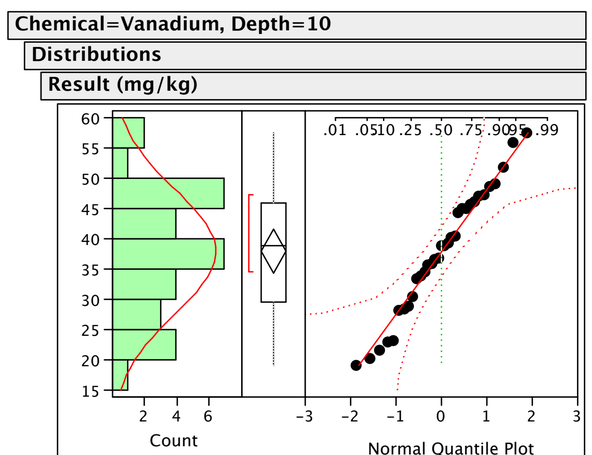


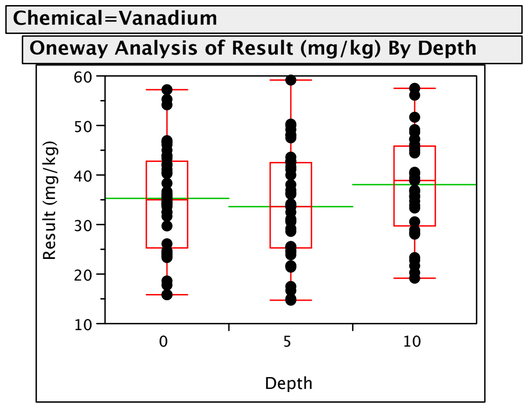
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









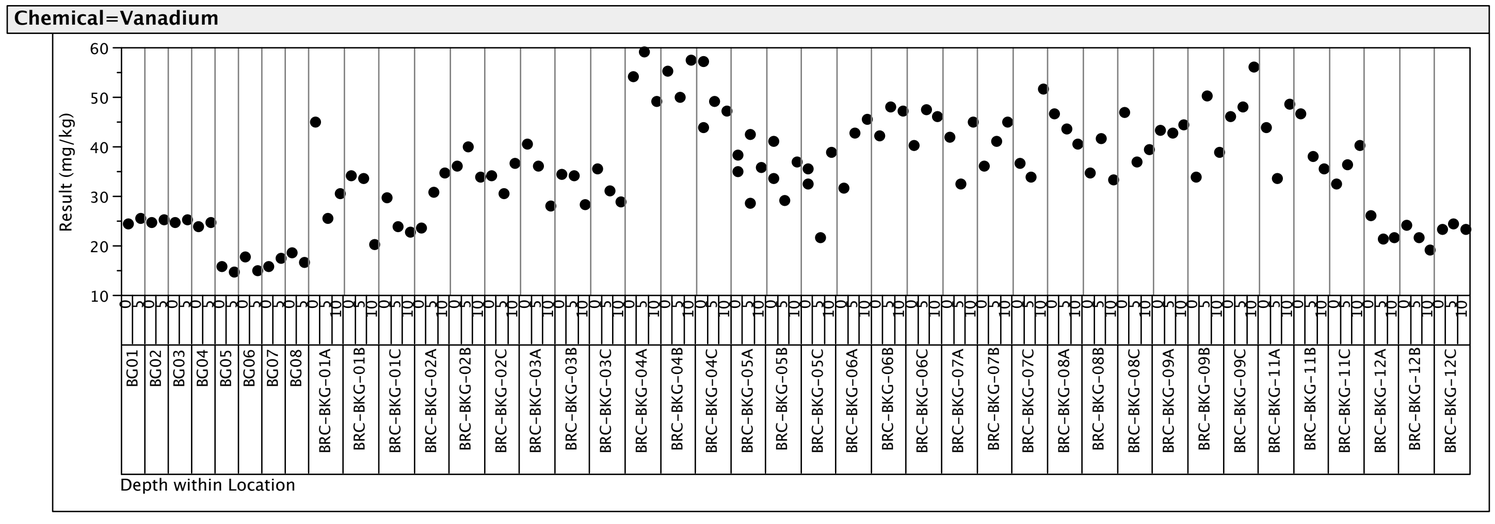
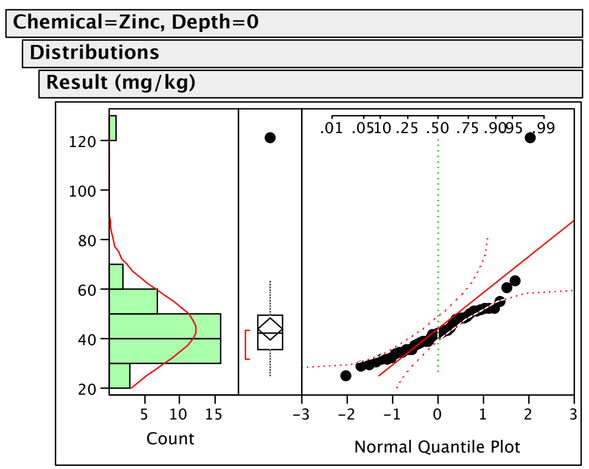
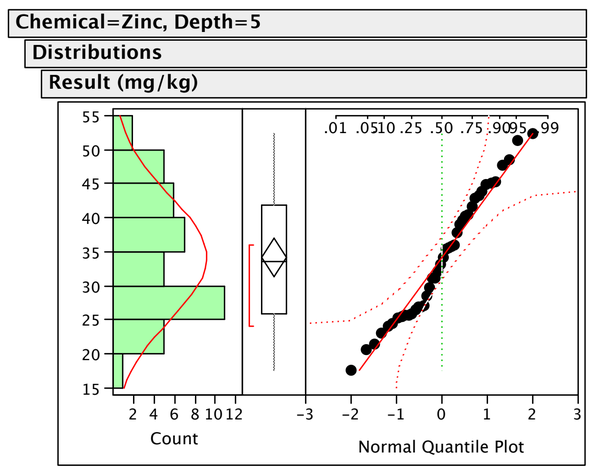
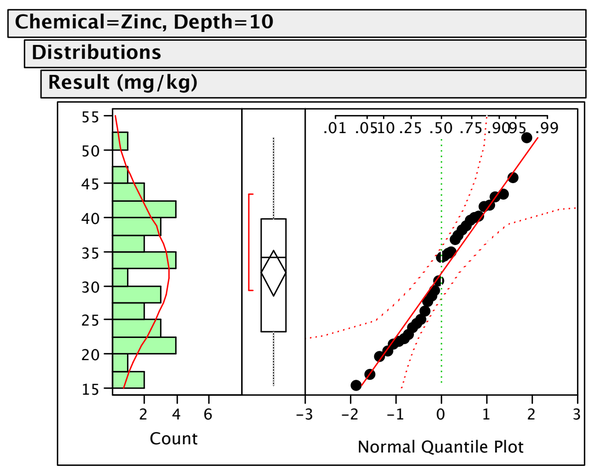


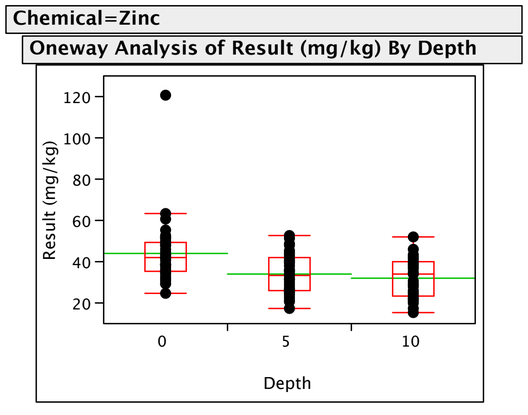
FIGURE G-3 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









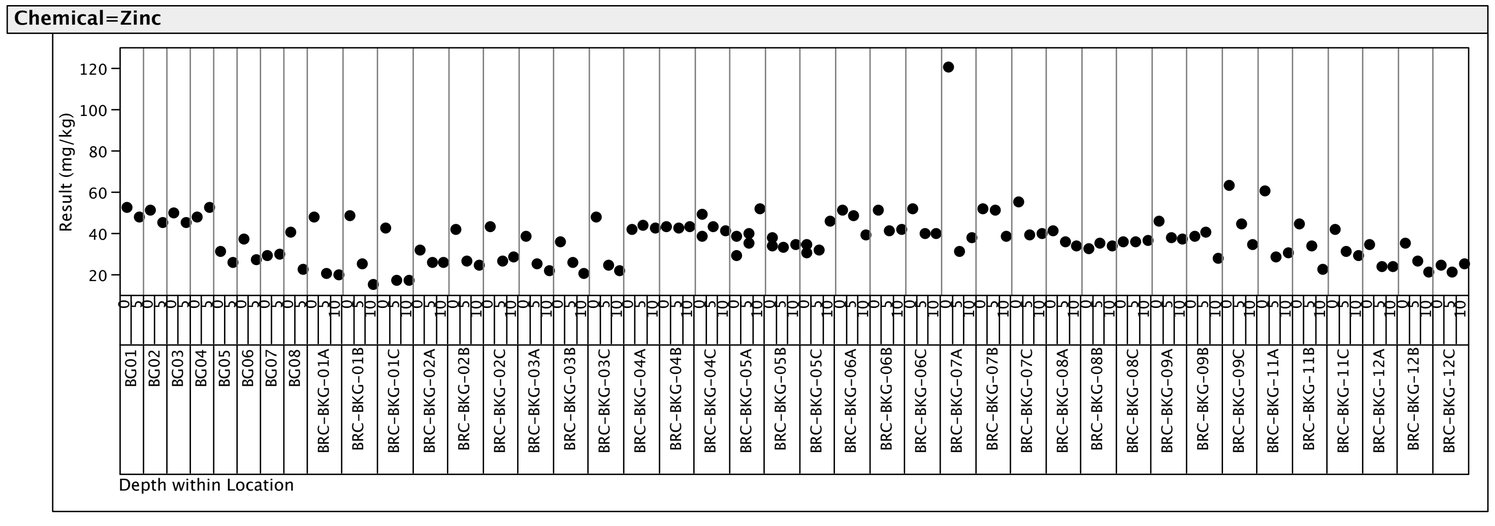
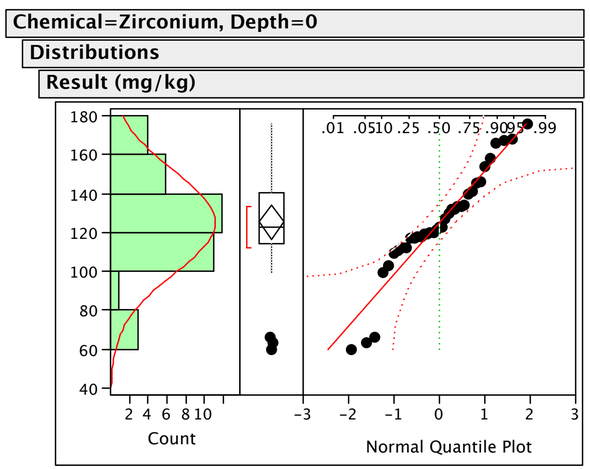
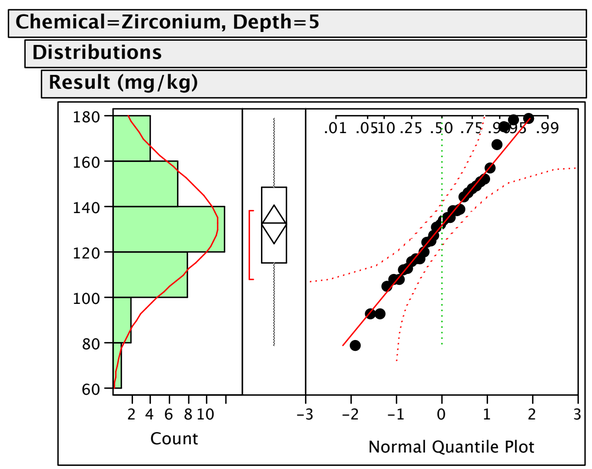
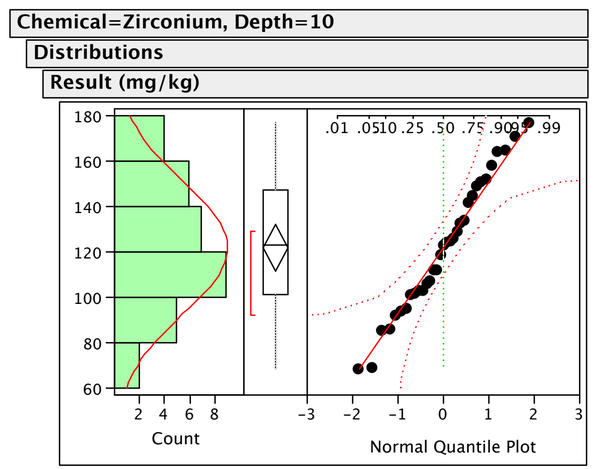


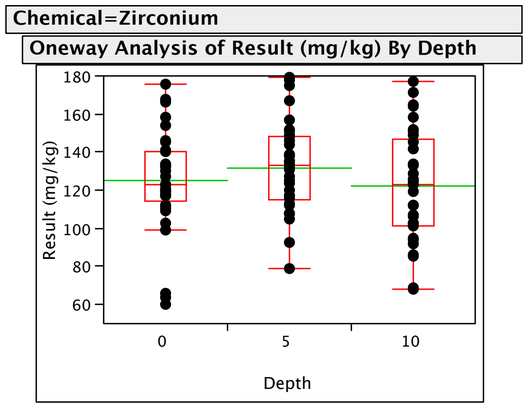
FIGURE G-3 (Continued)

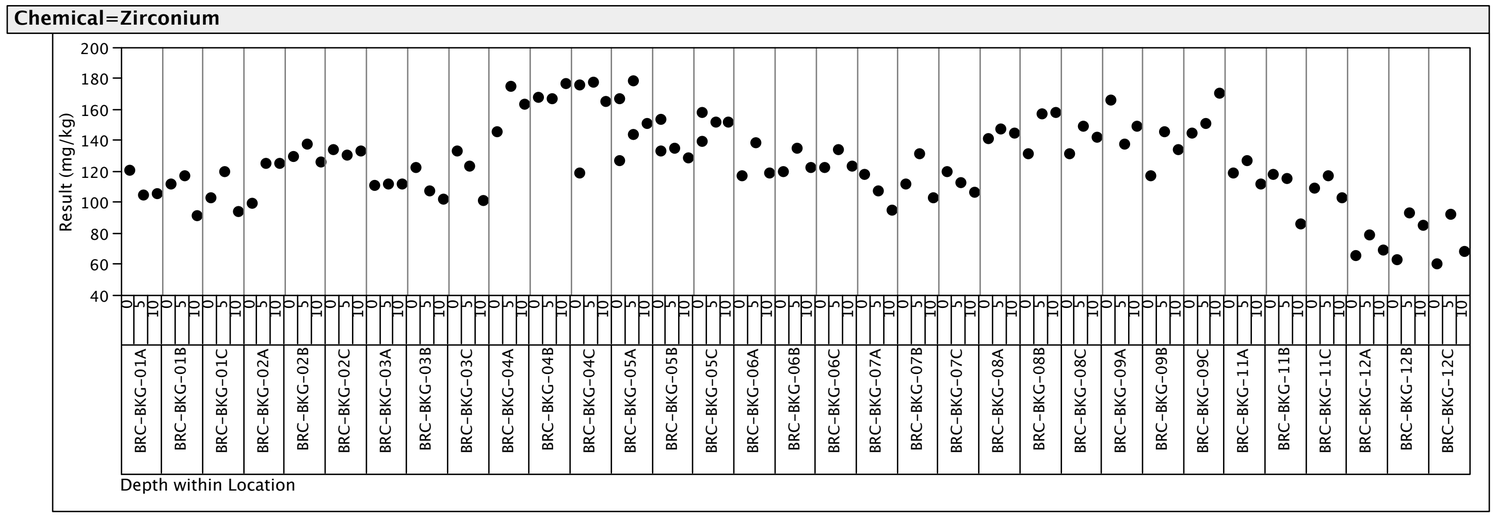
COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH





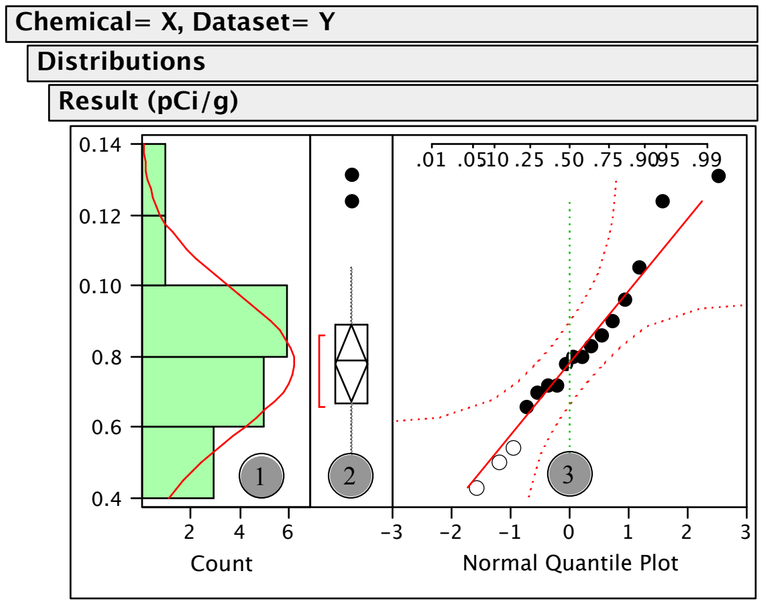


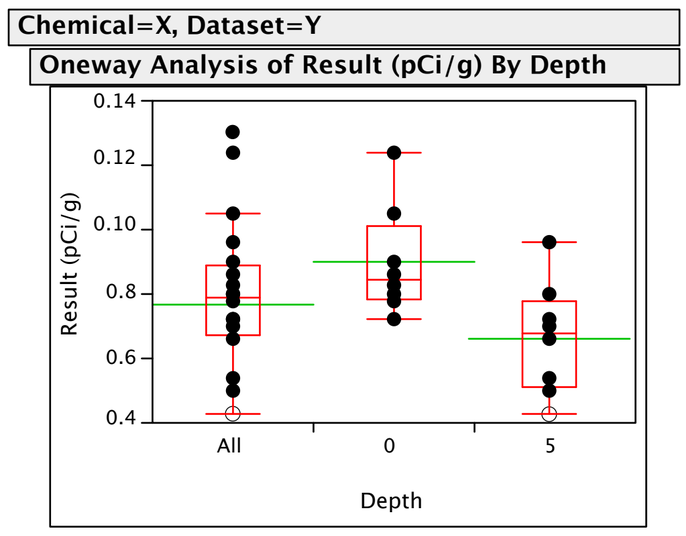




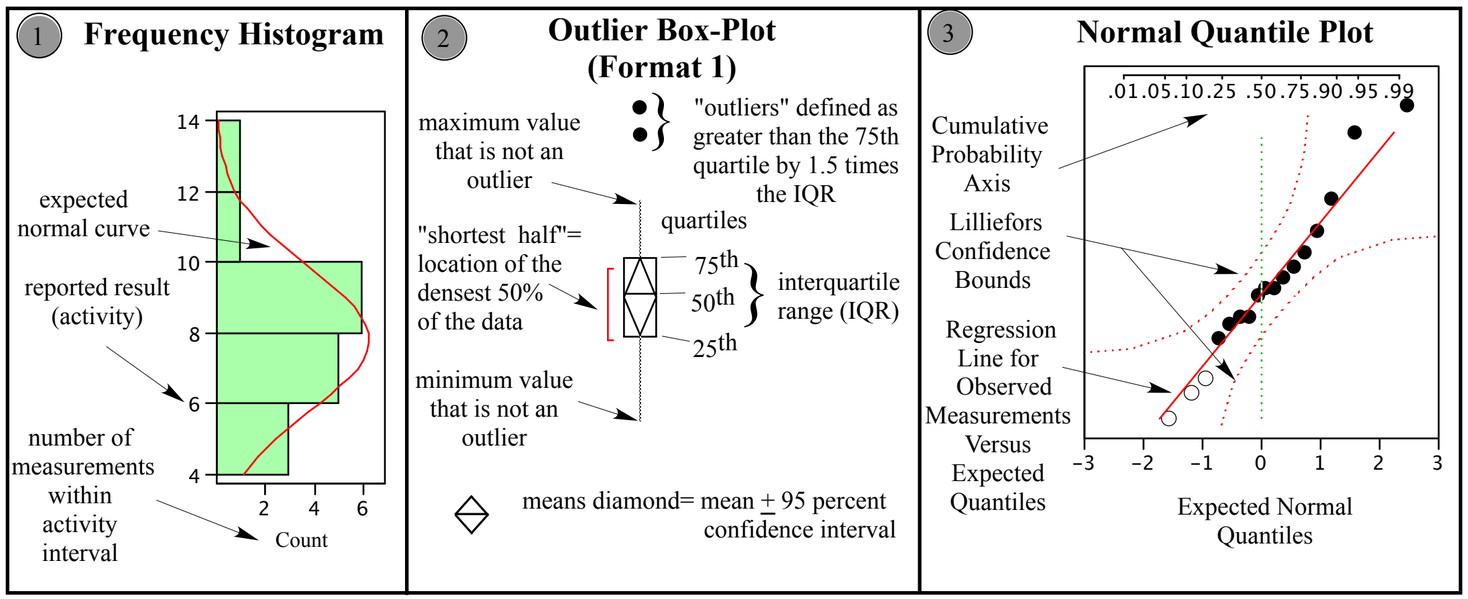
KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-4

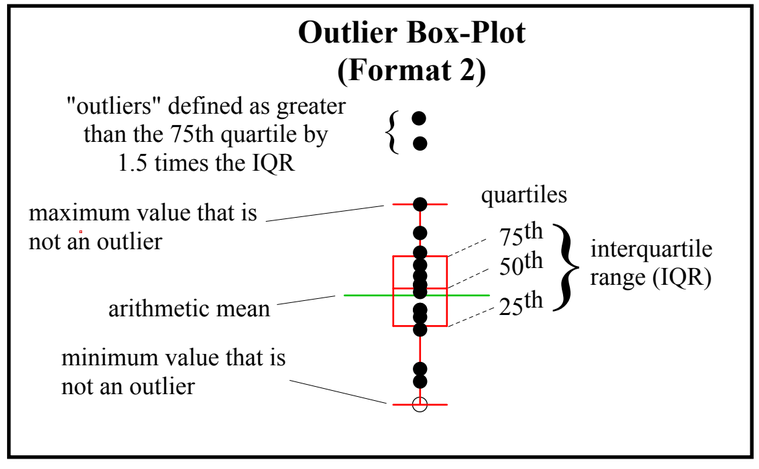
Example Figures From Appendix

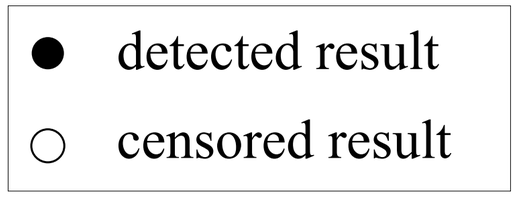


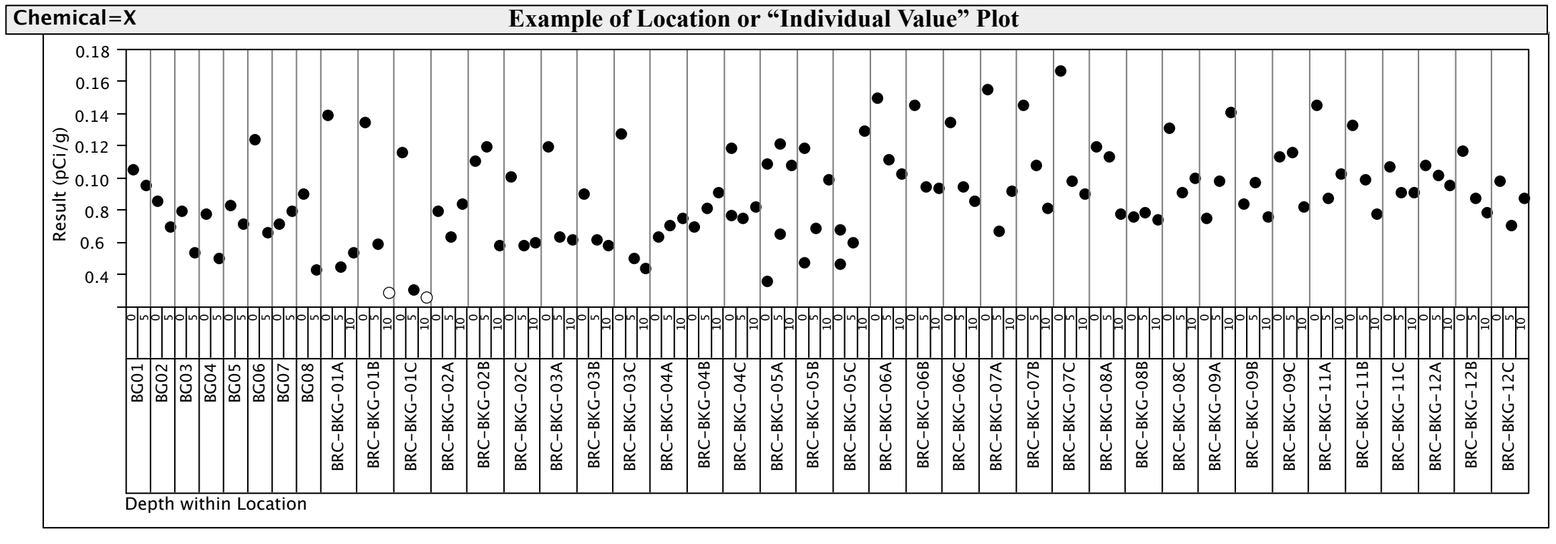


Keys to Individual Figure Panels





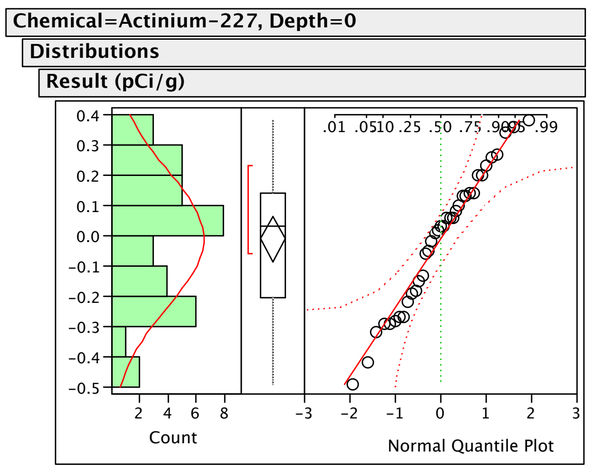


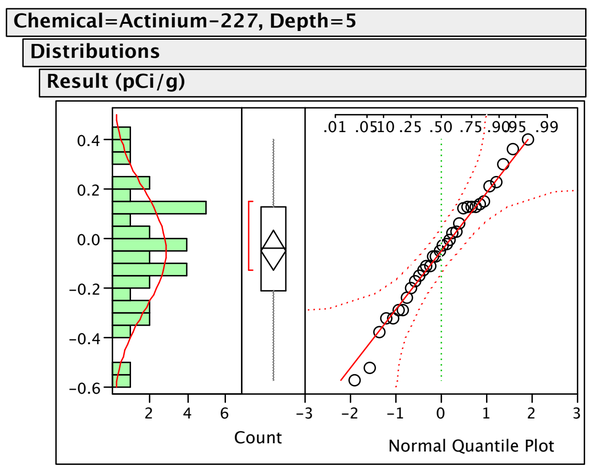


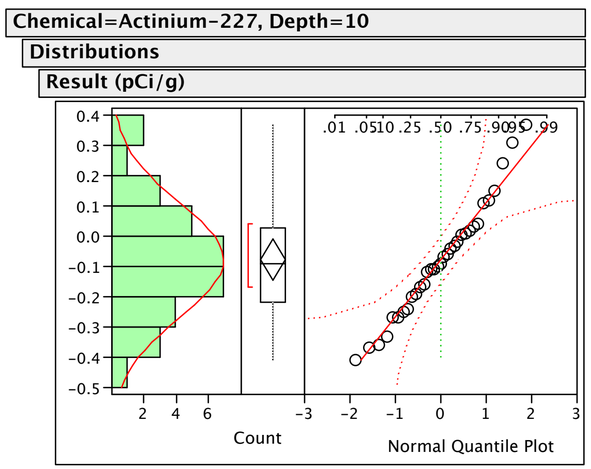
Results are Plottted for Individual Locations and Grouped by Soil Depth

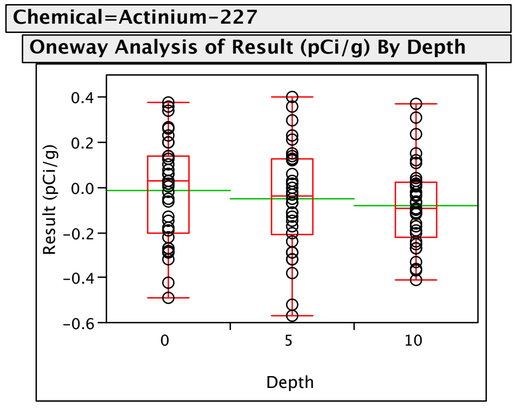
FIGURE G-4

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









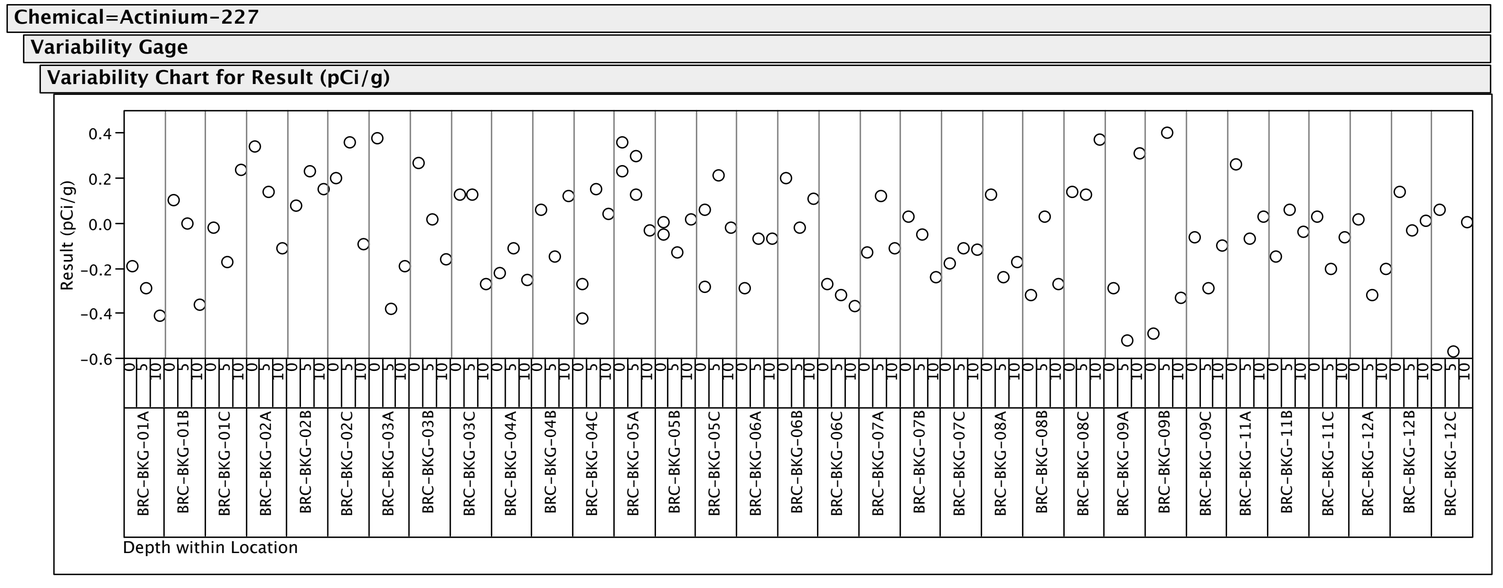
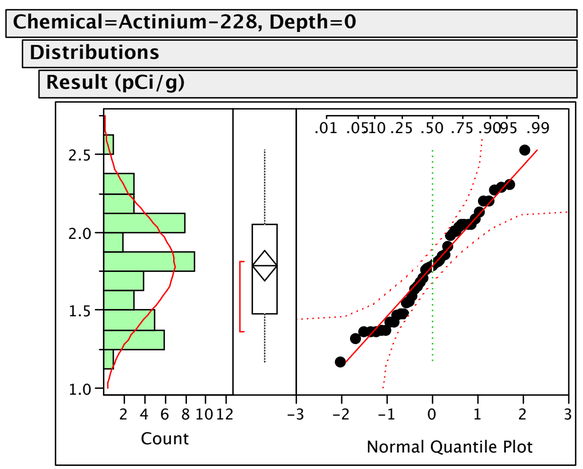
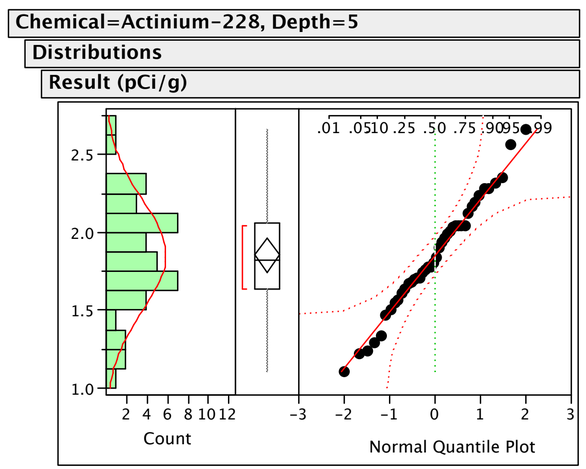
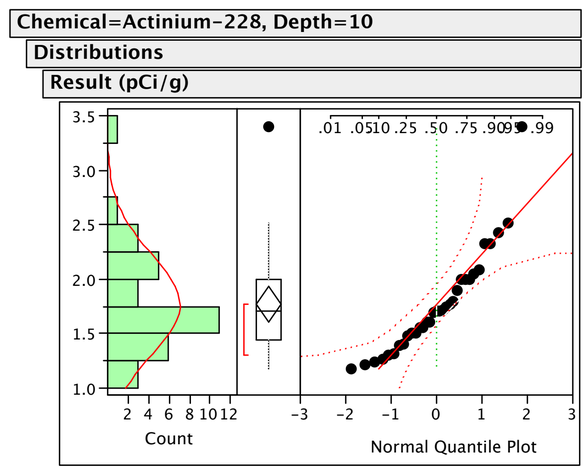


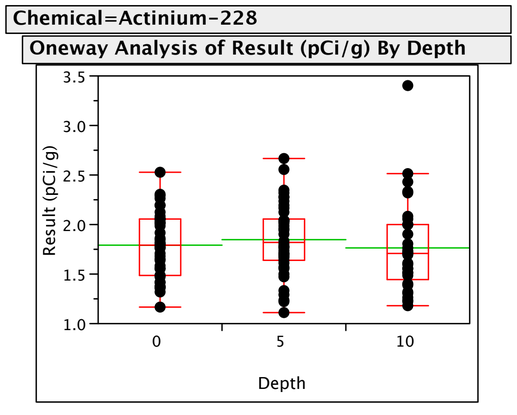
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









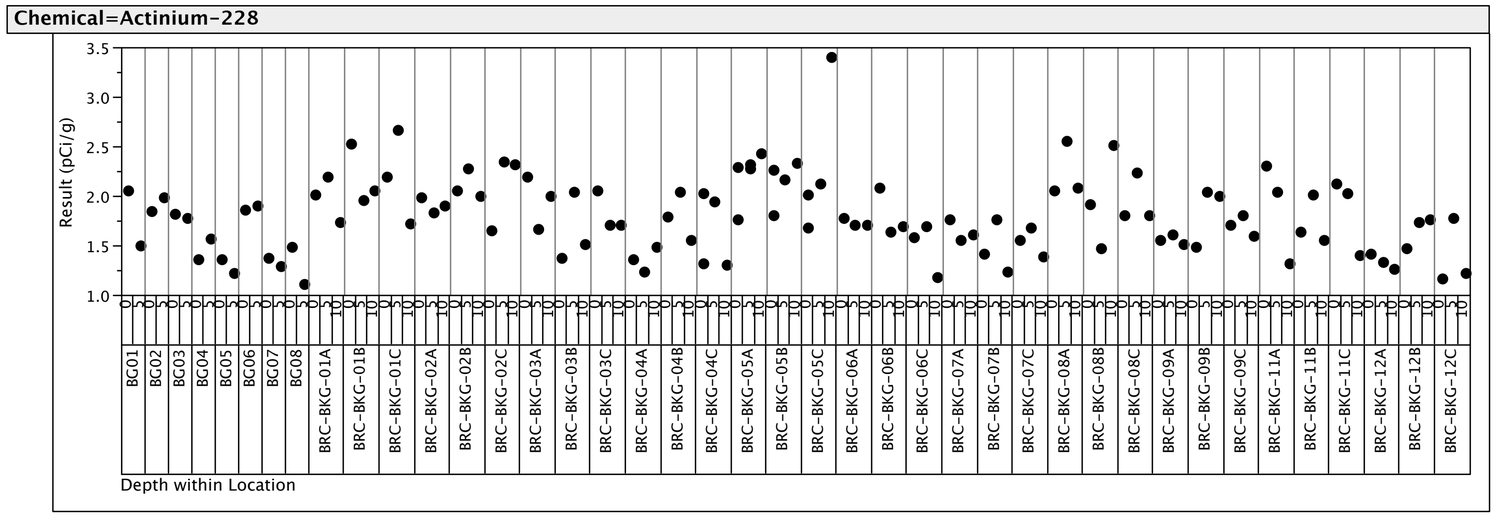
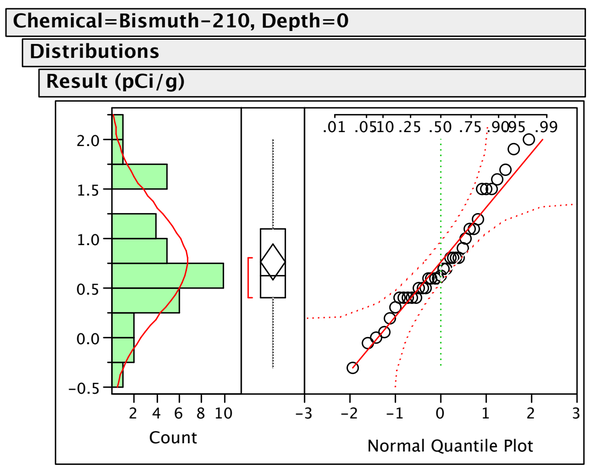
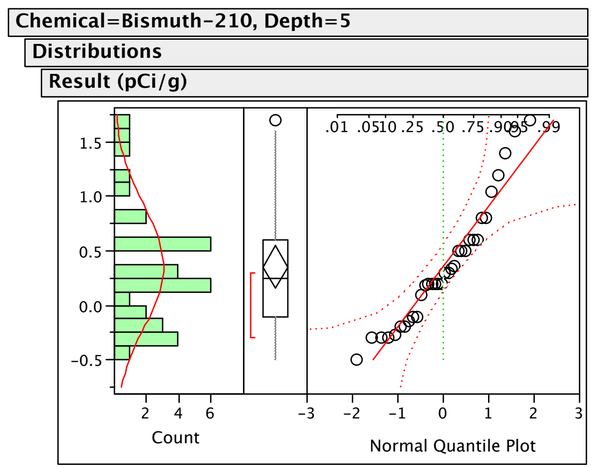
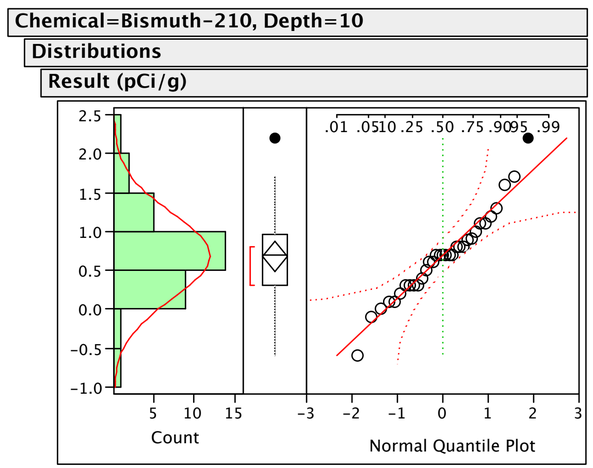


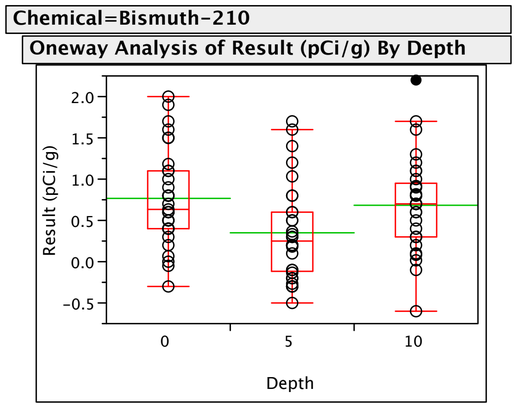
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









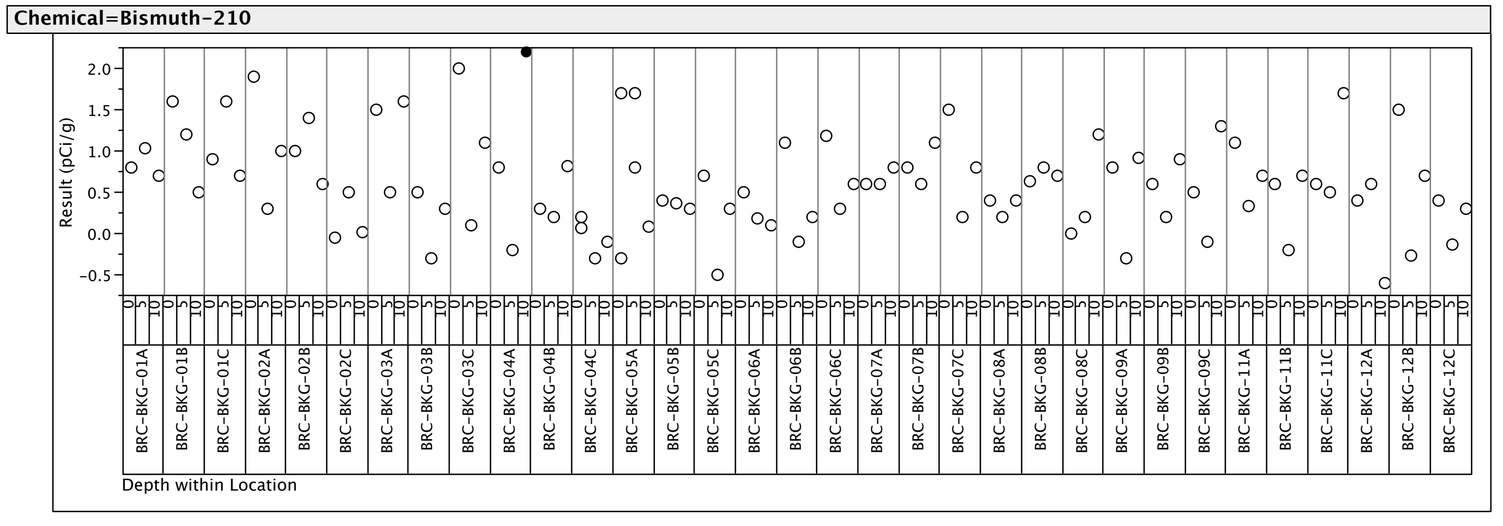
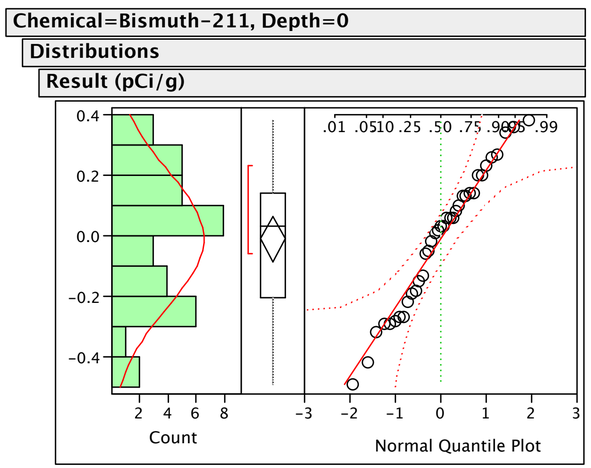
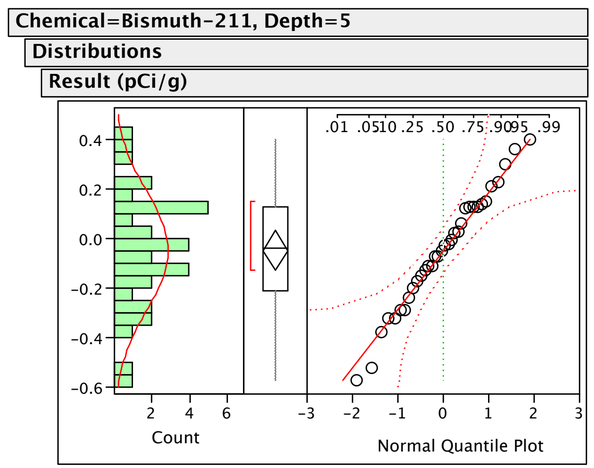
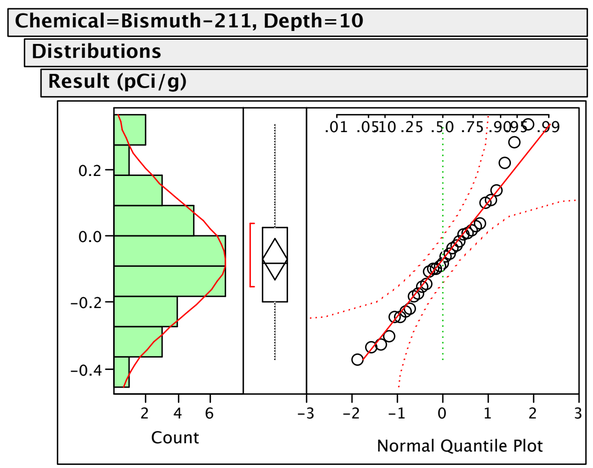


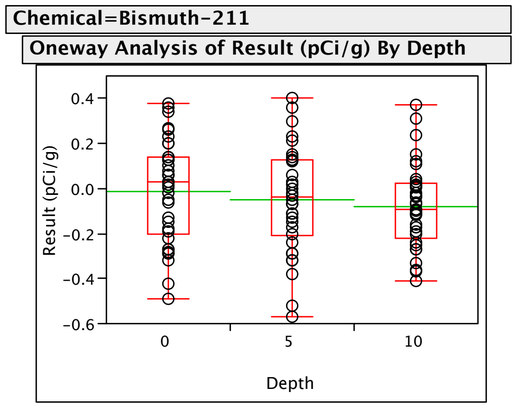
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









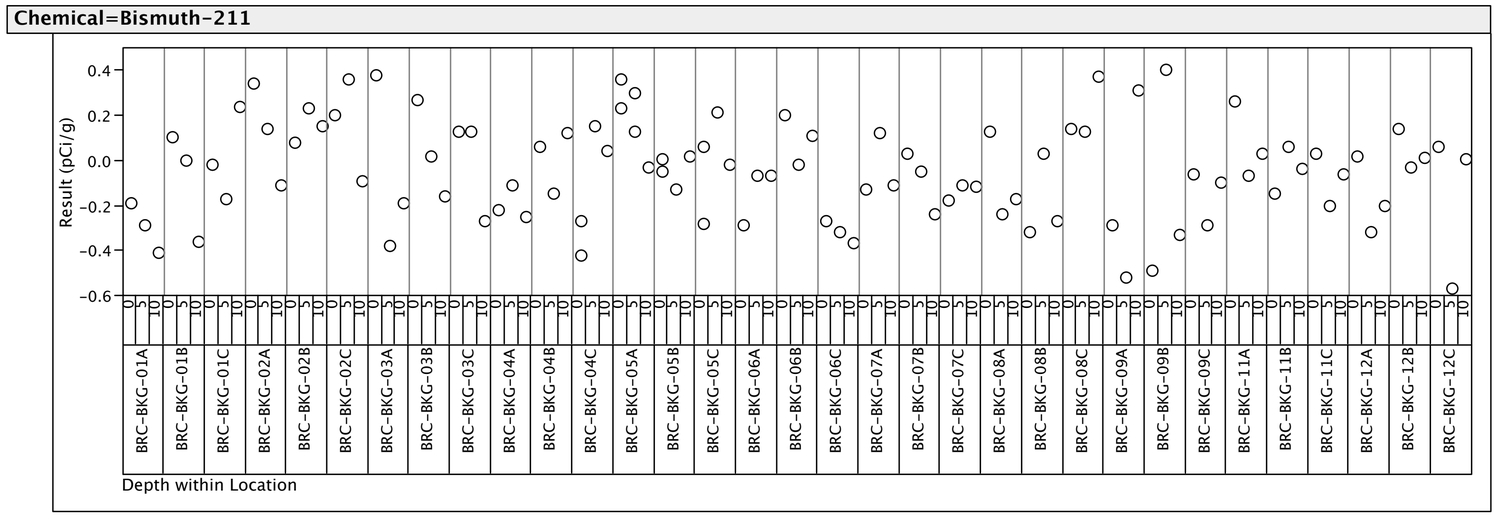
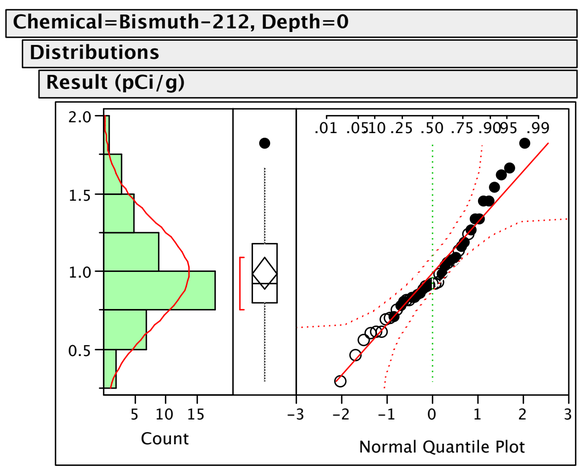
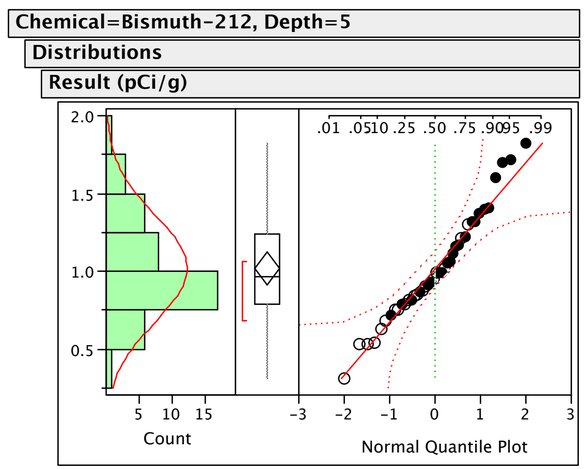
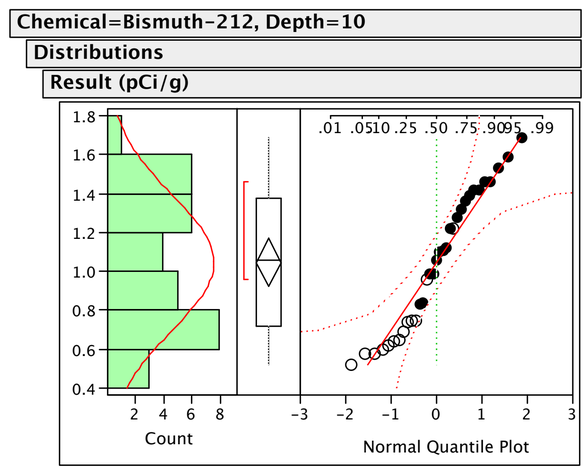


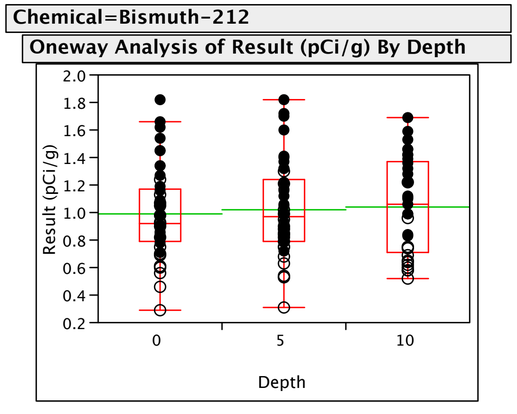
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









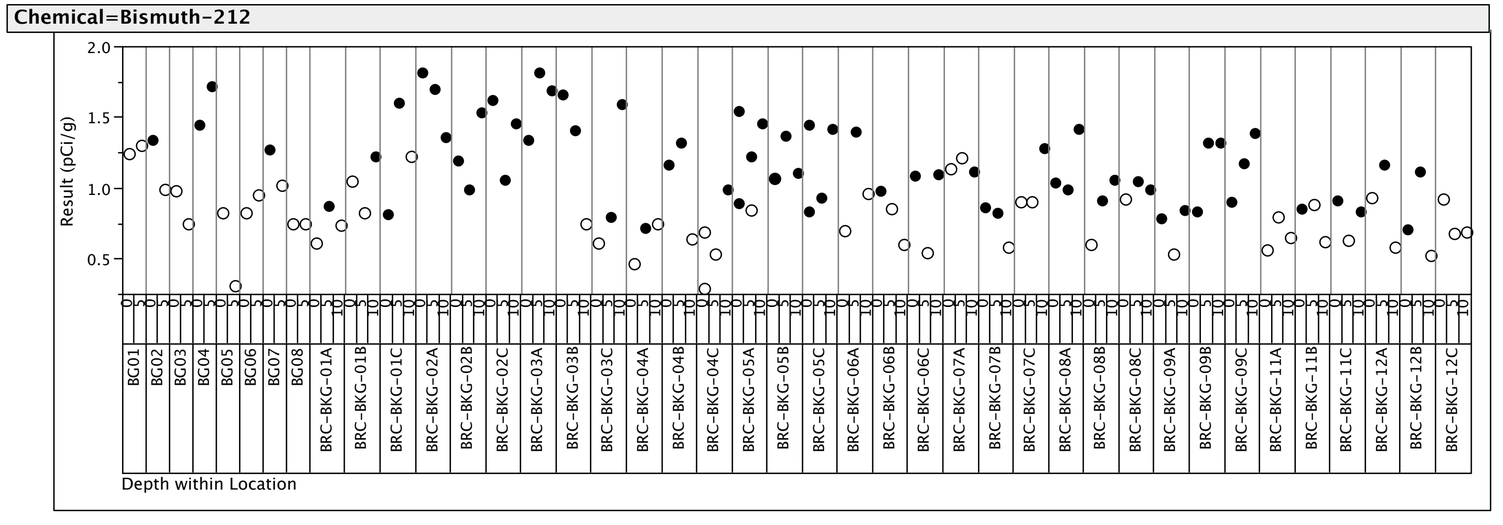
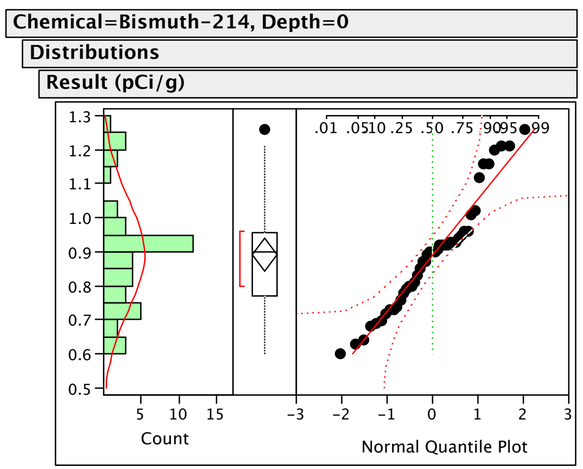
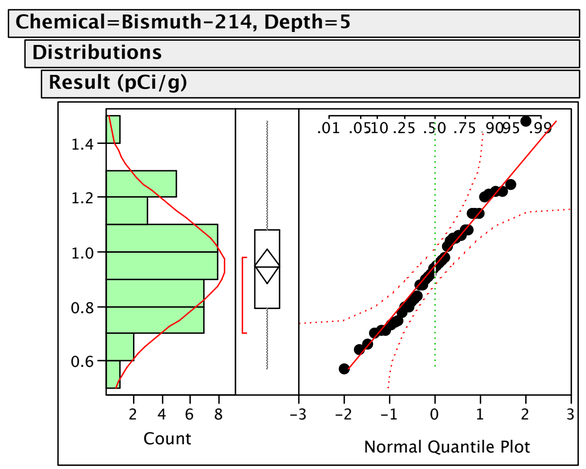
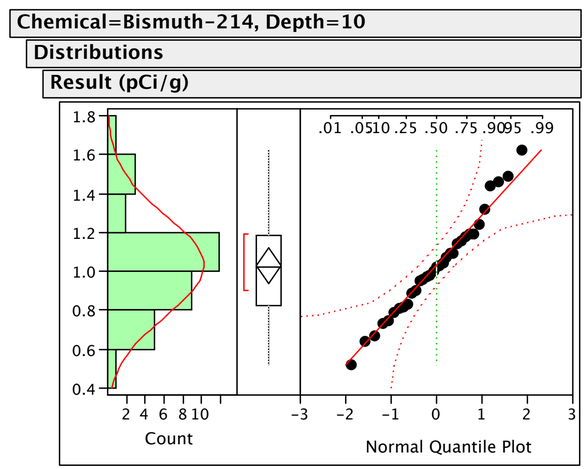


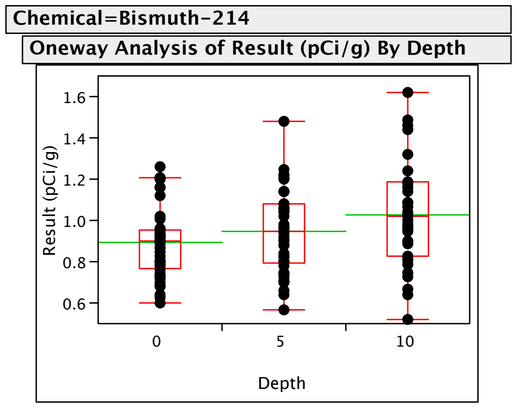
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









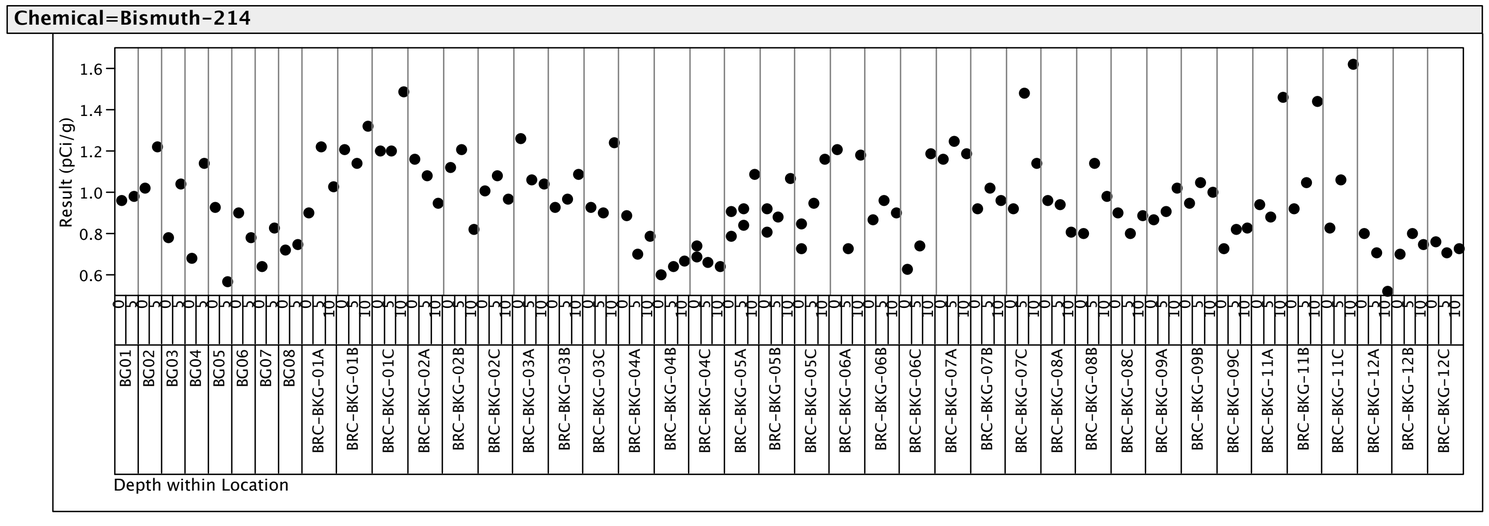
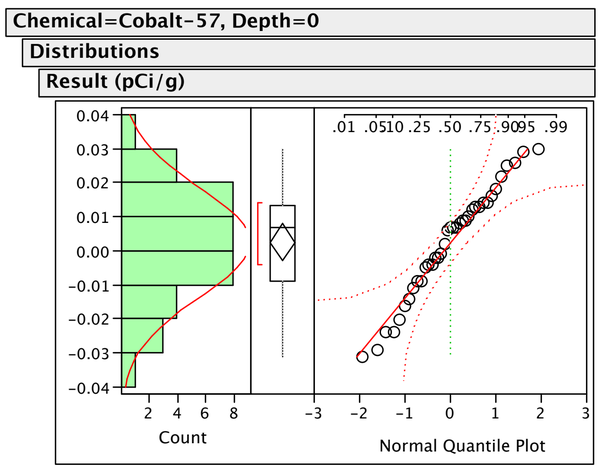
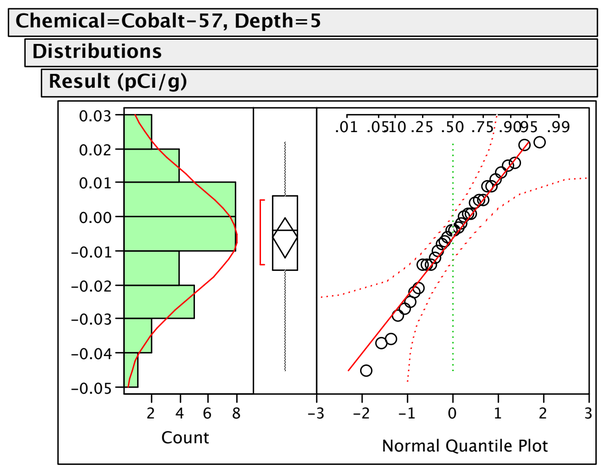
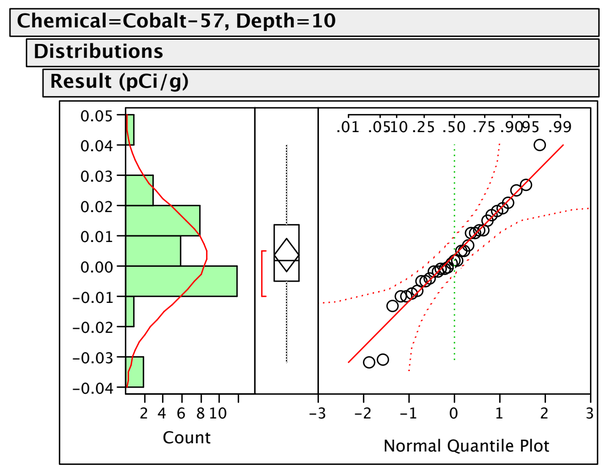


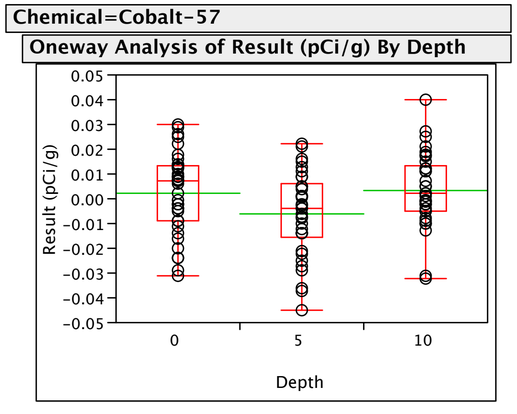
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









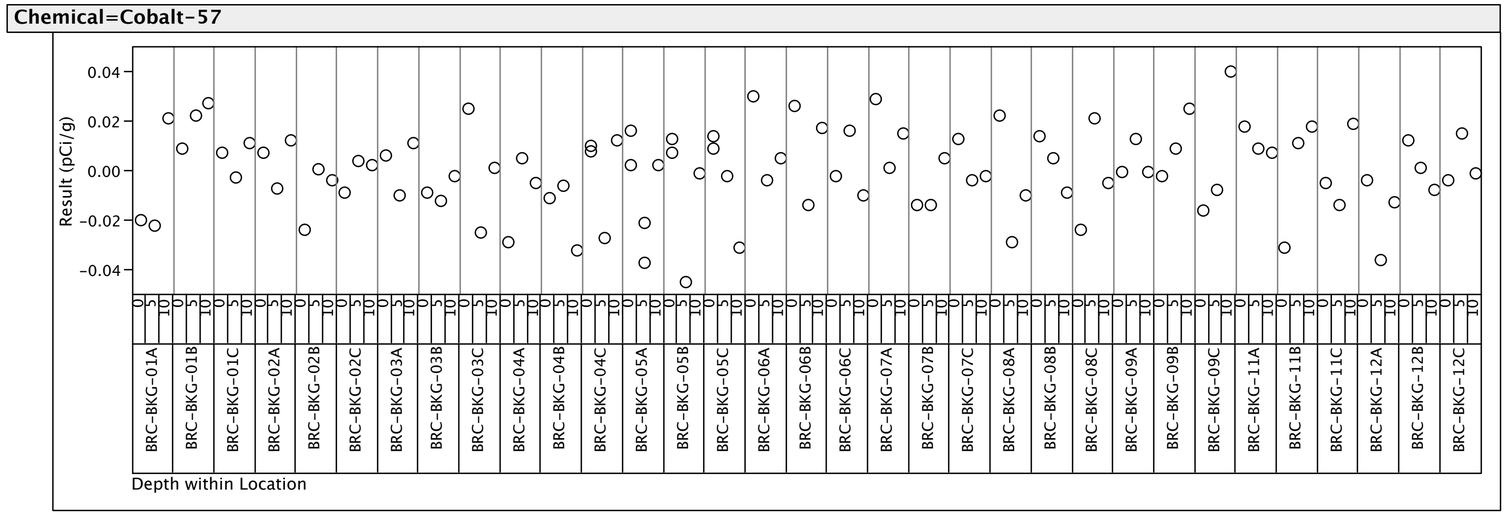
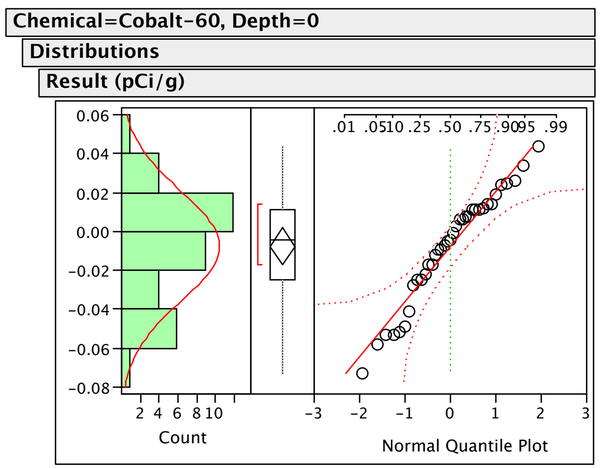
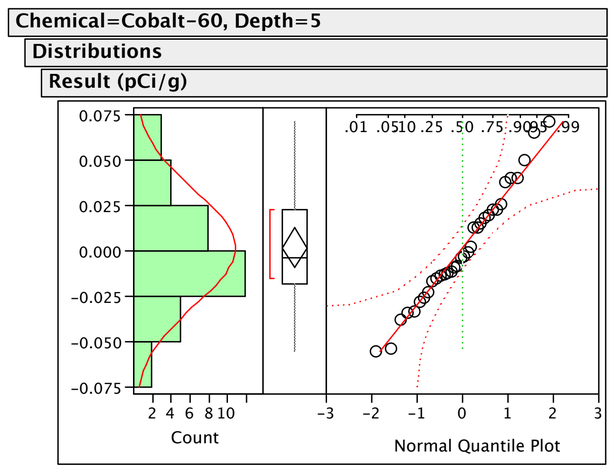
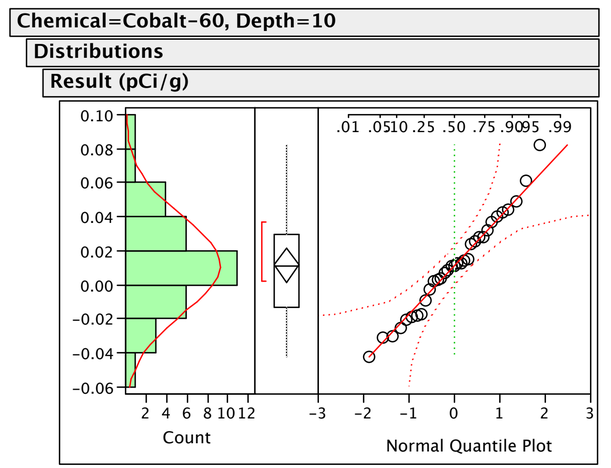


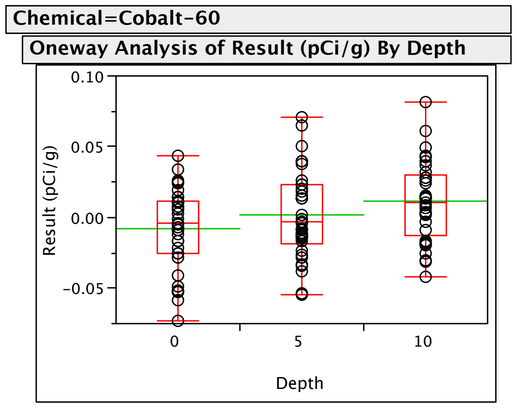
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









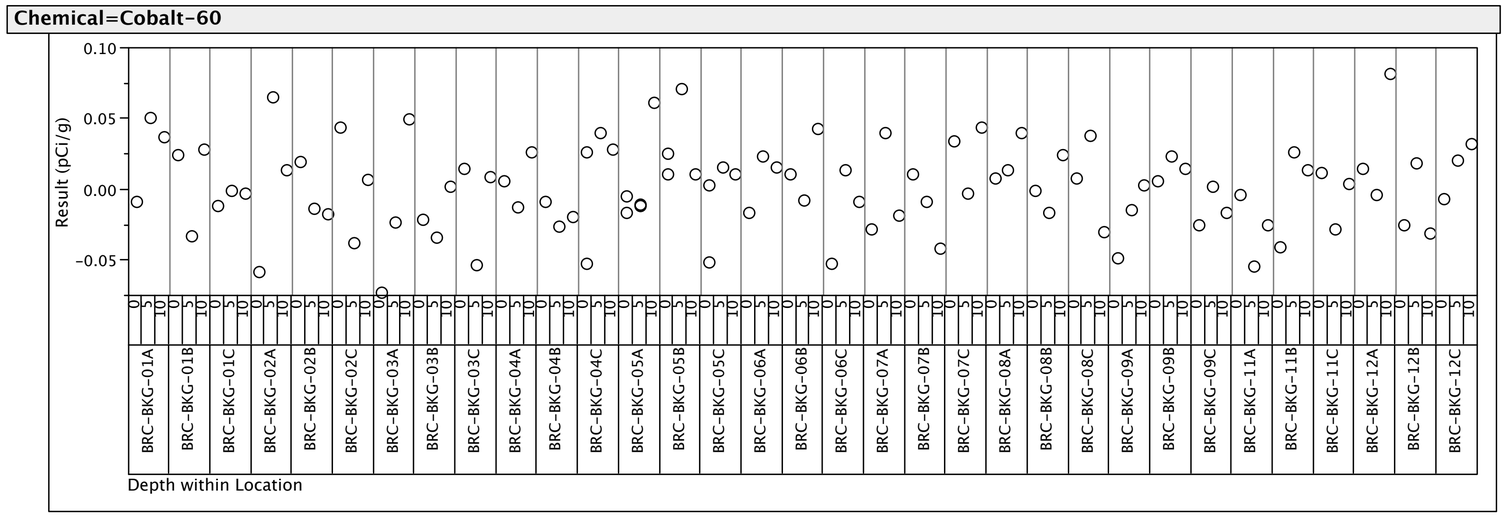
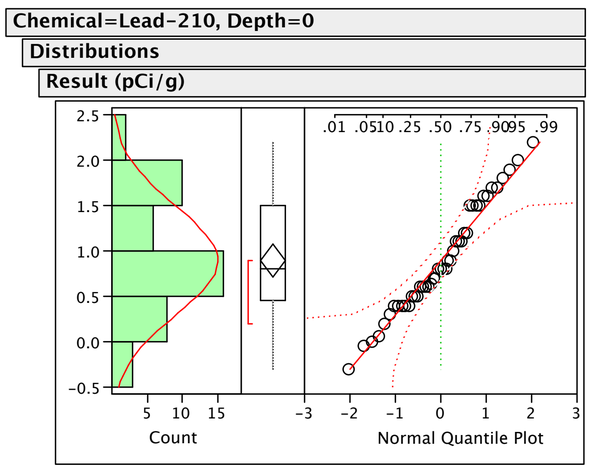
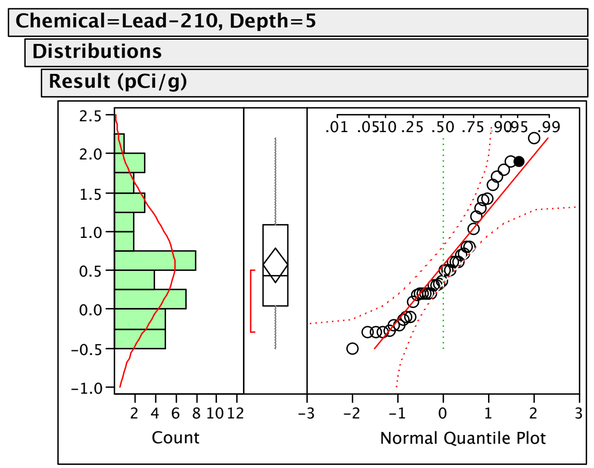
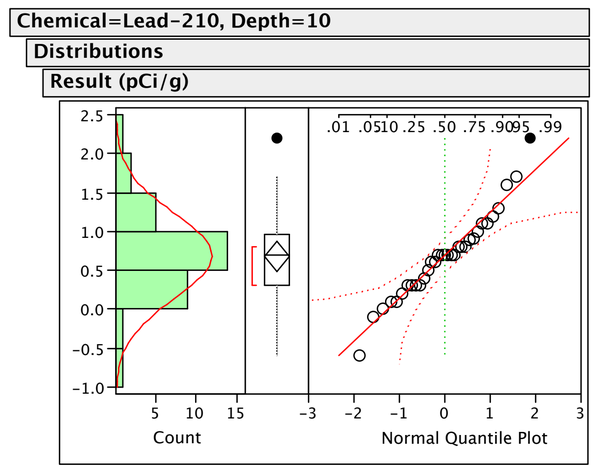


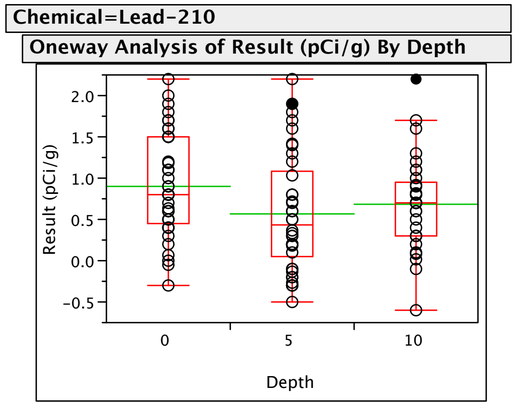
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









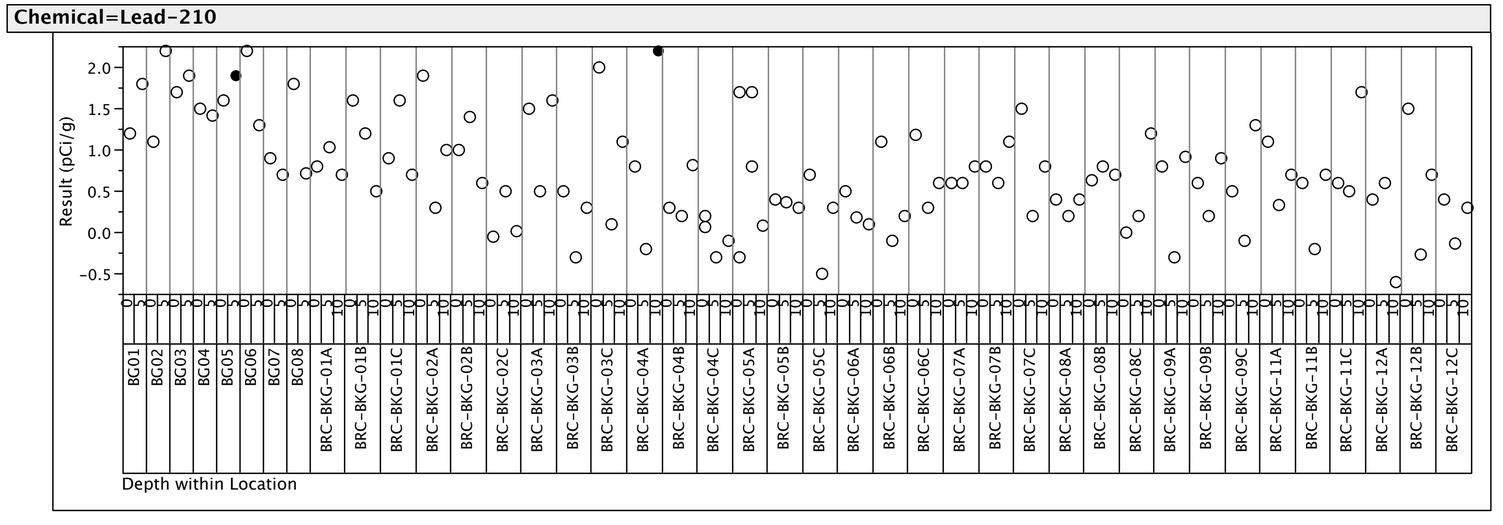
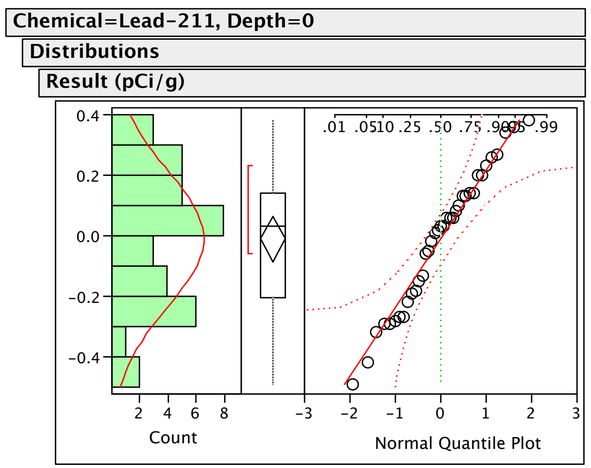
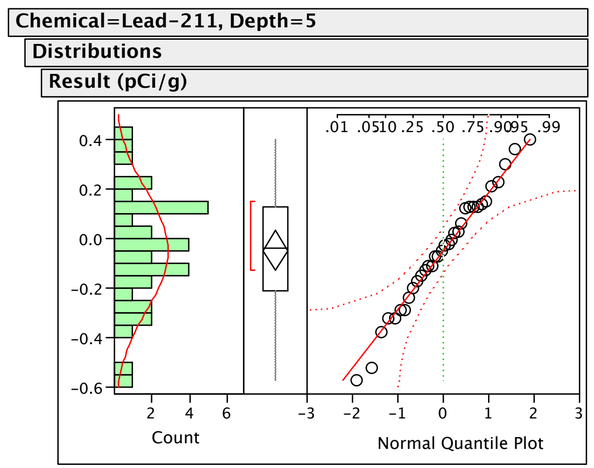
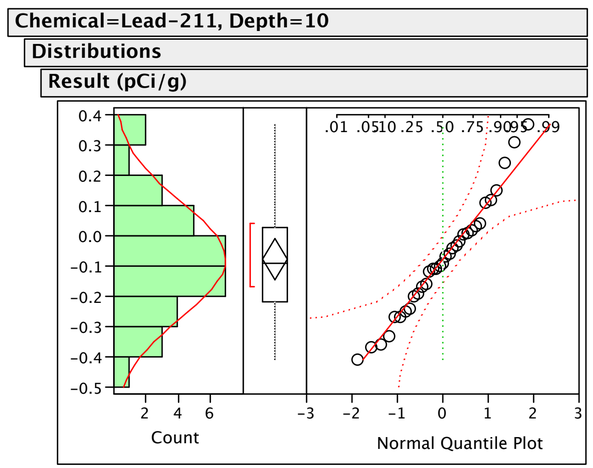


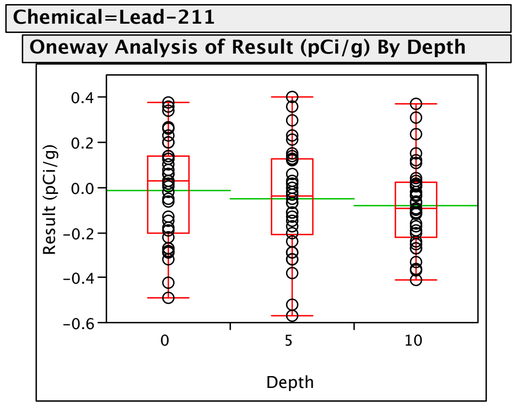
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









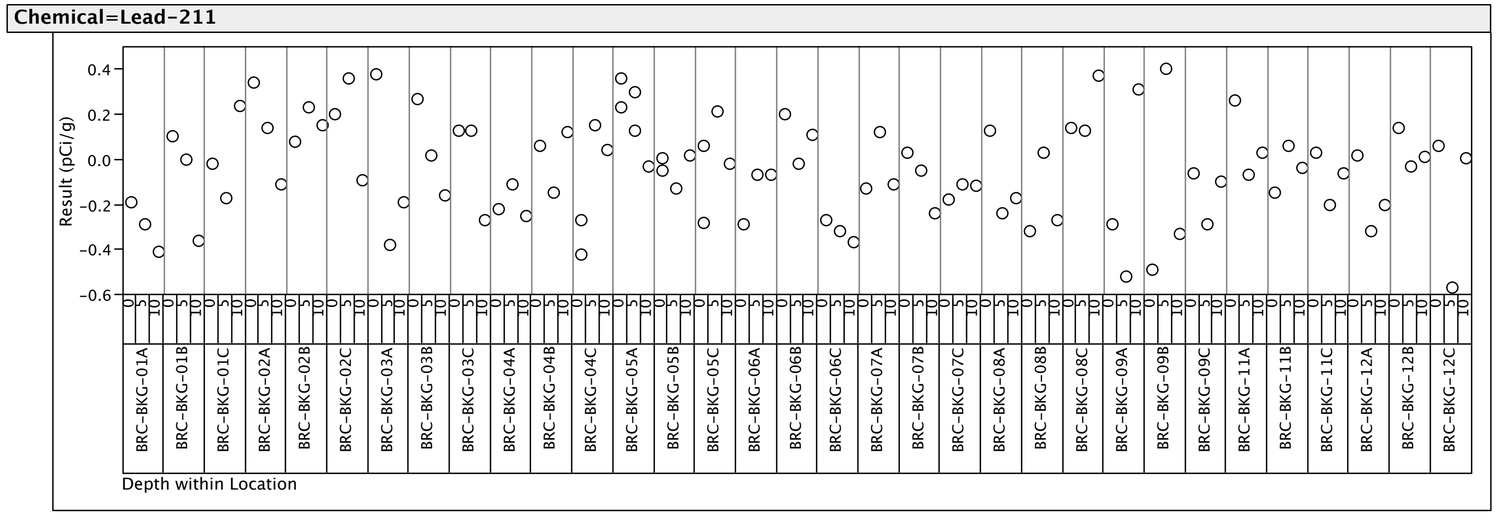
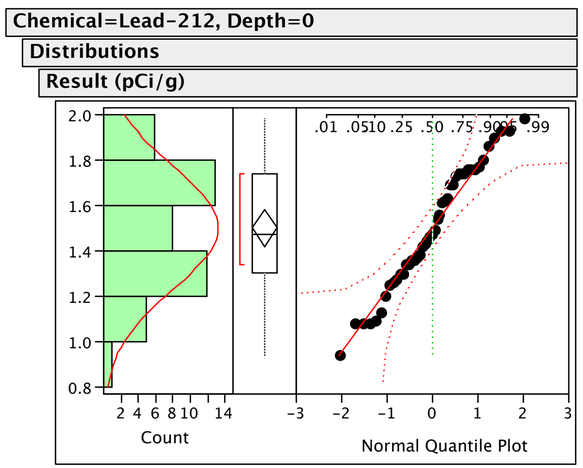
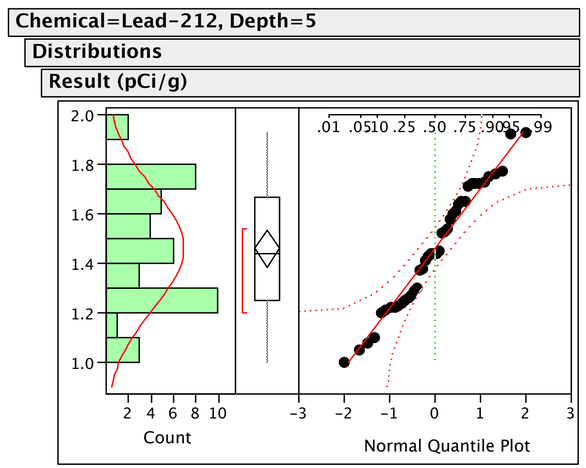
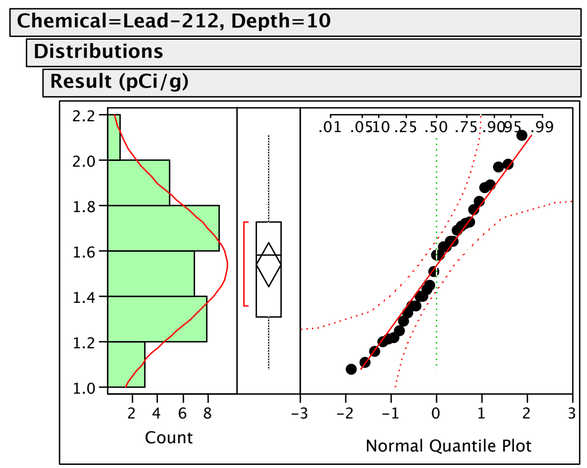


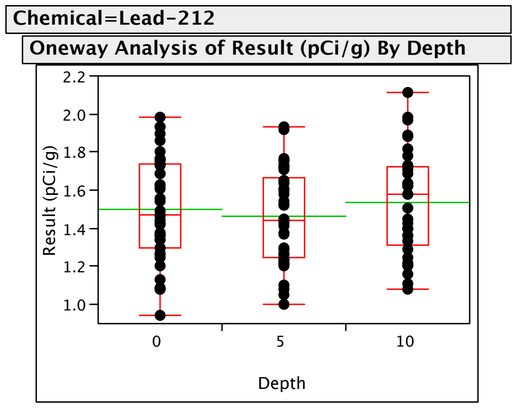
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









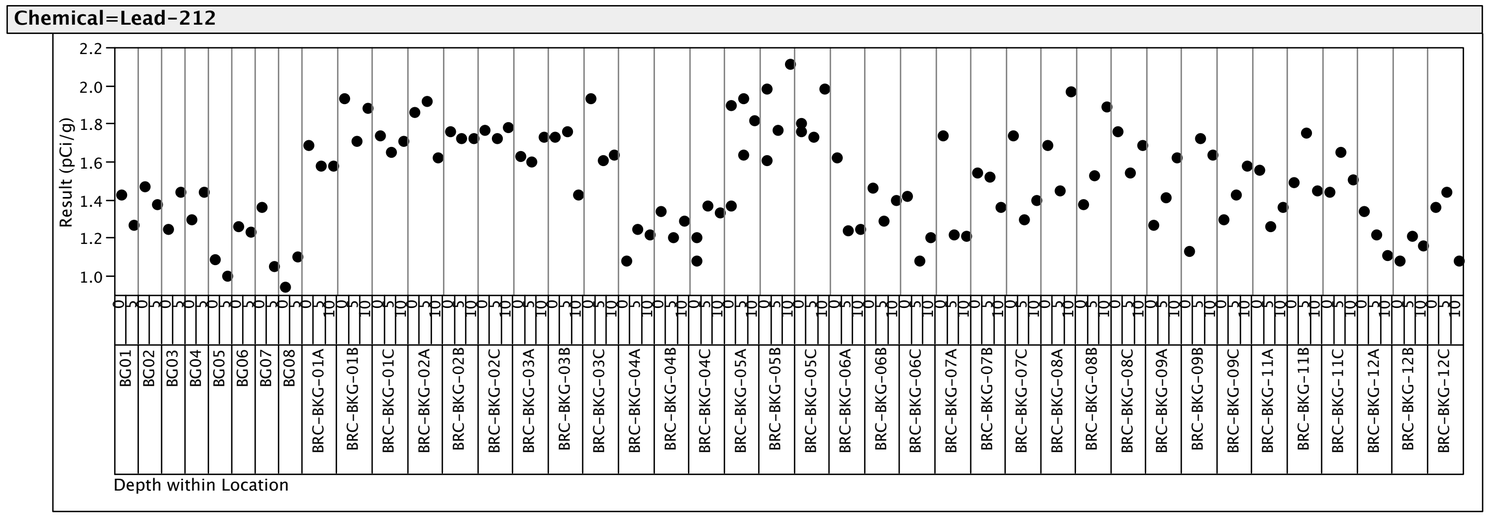
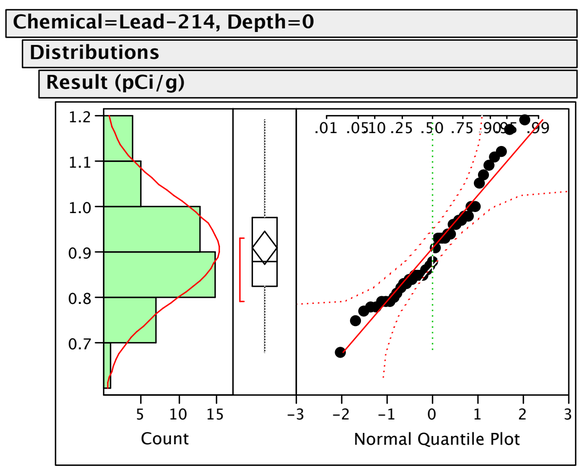
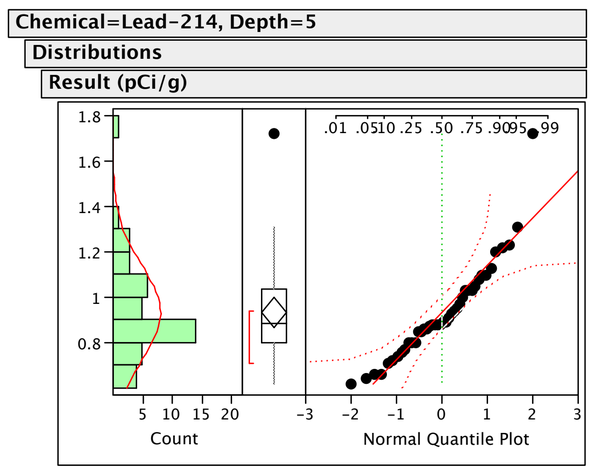
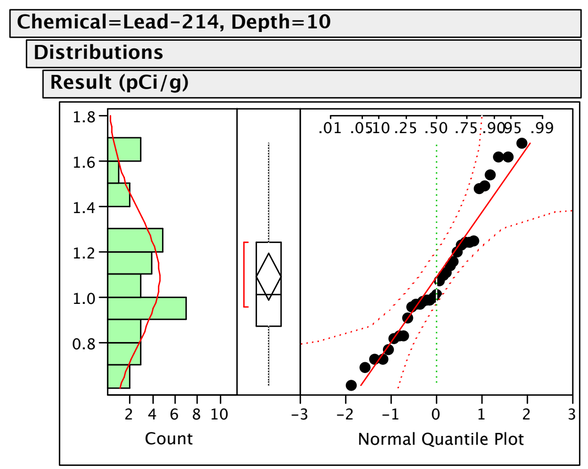


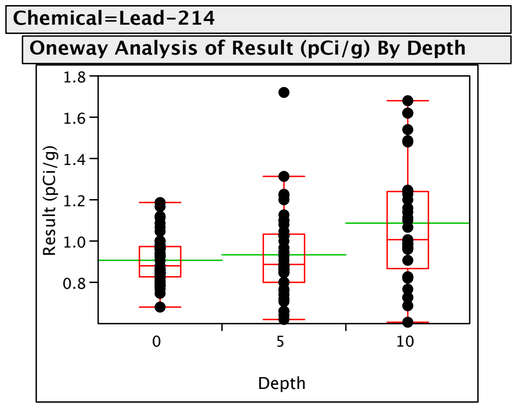
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









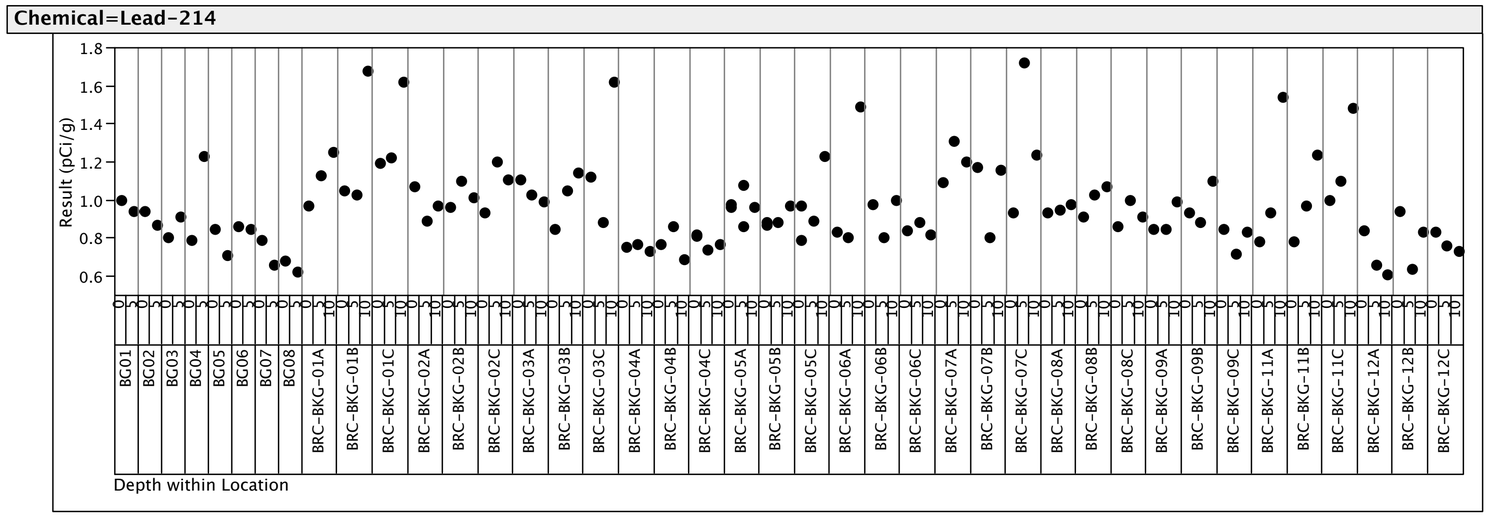
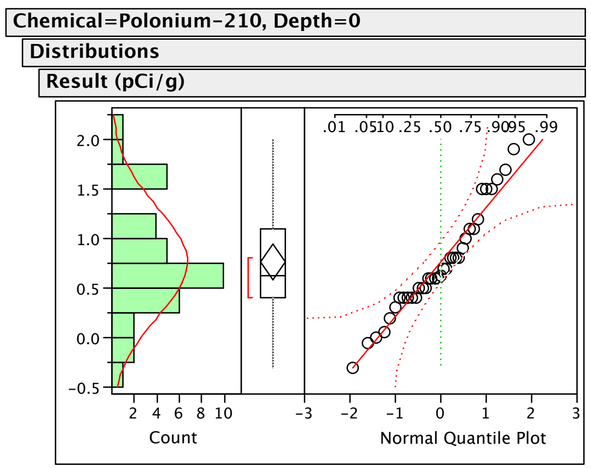
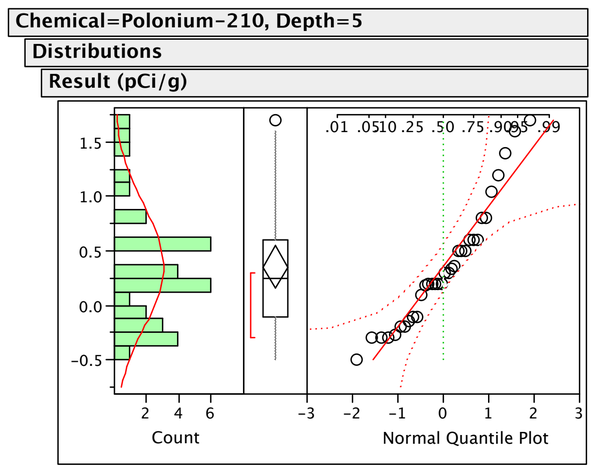
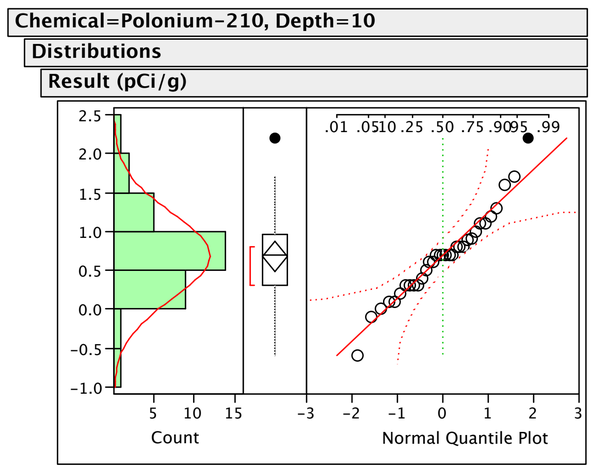


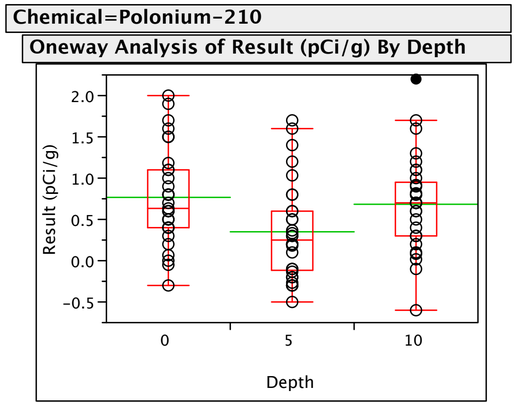
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









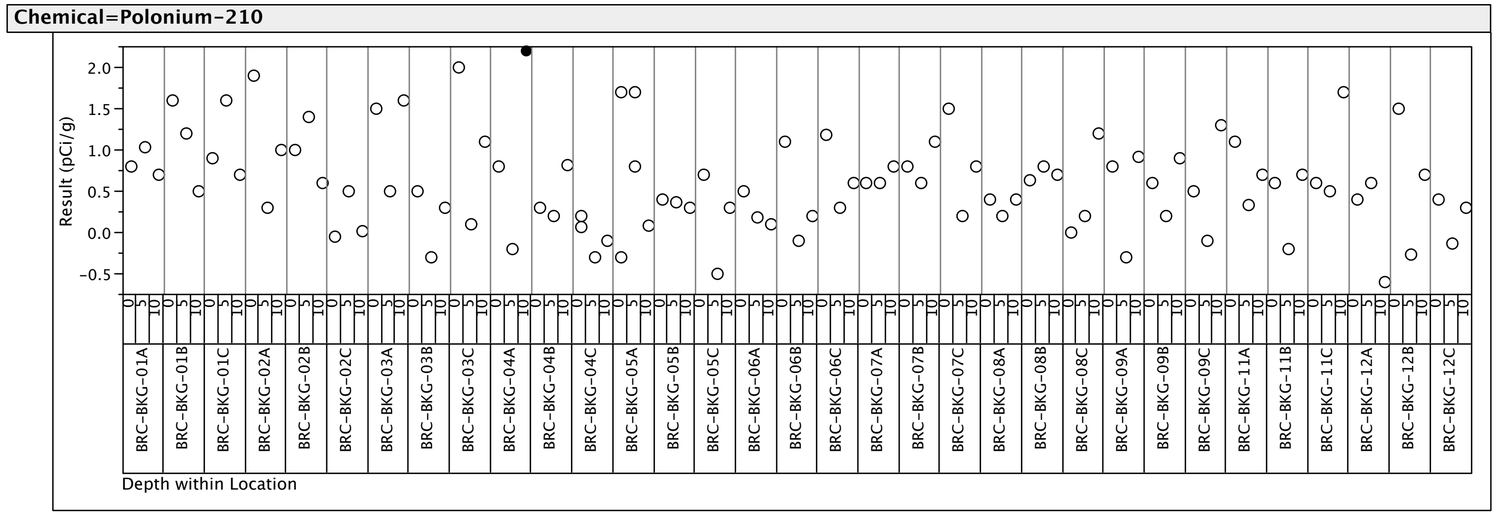
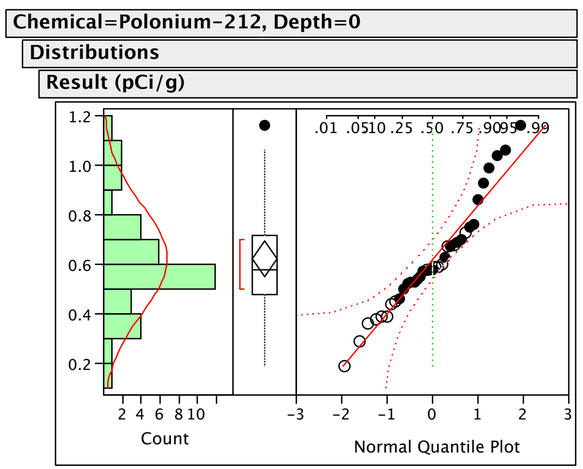
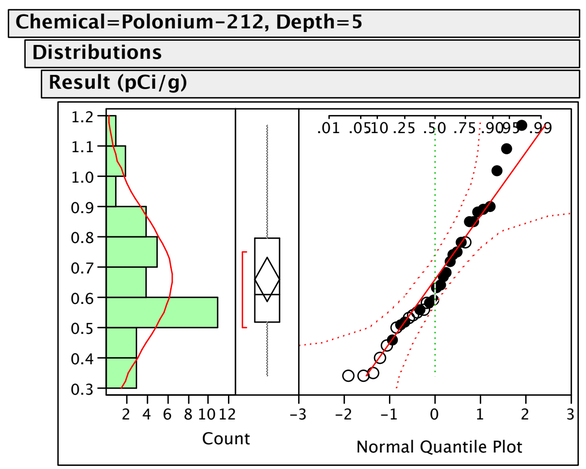
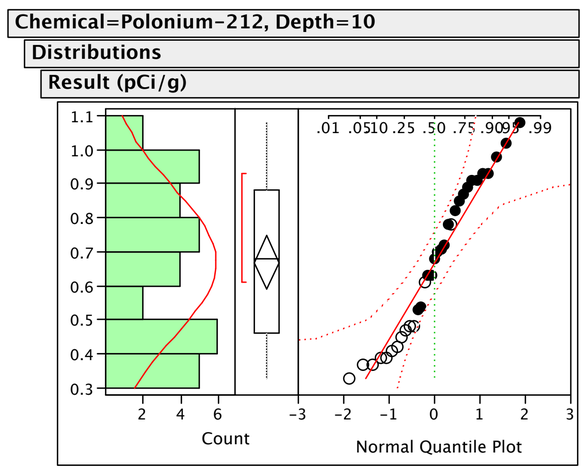


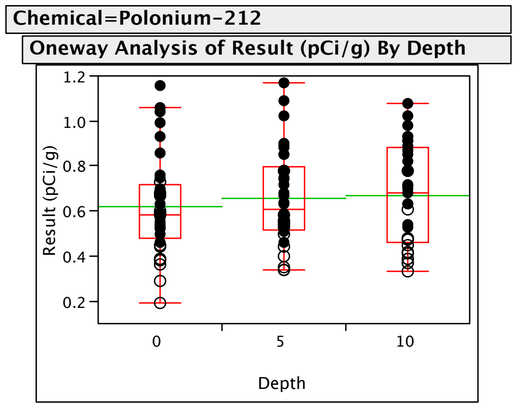
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









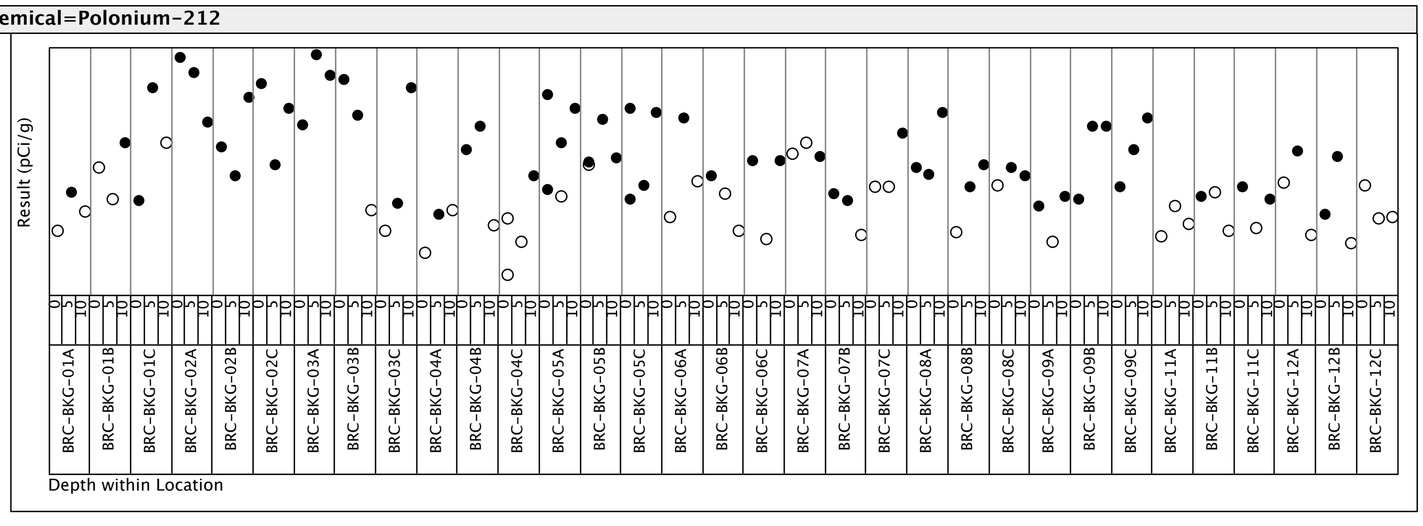
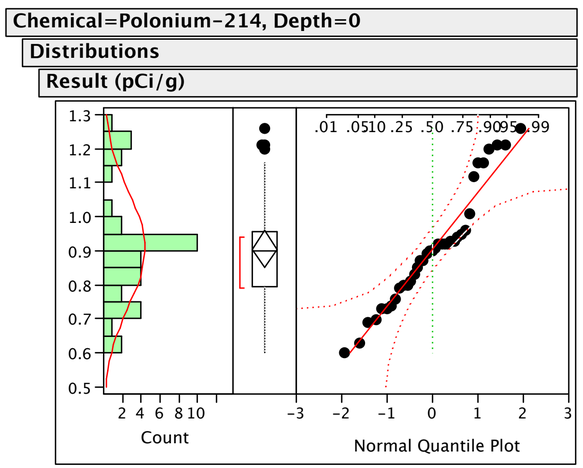
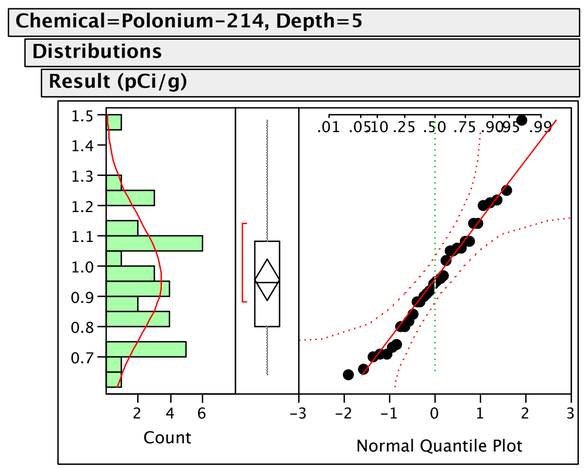
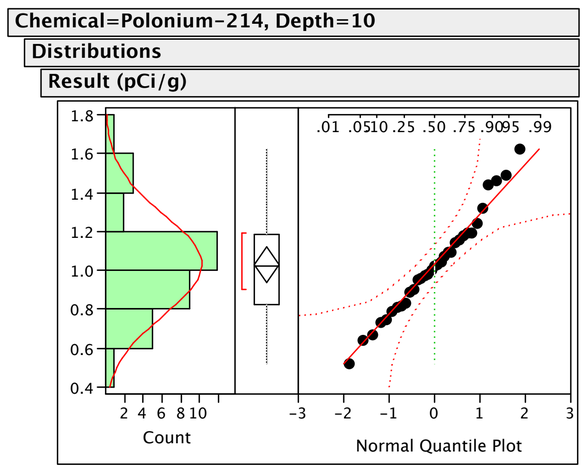


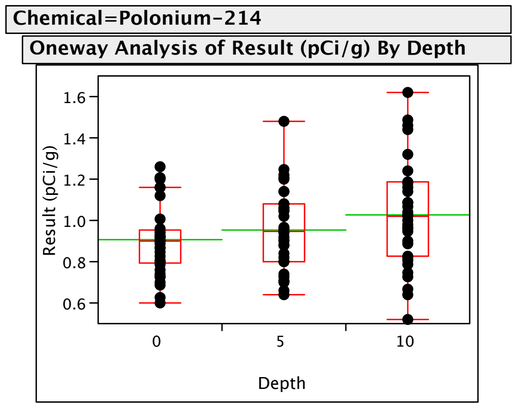
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









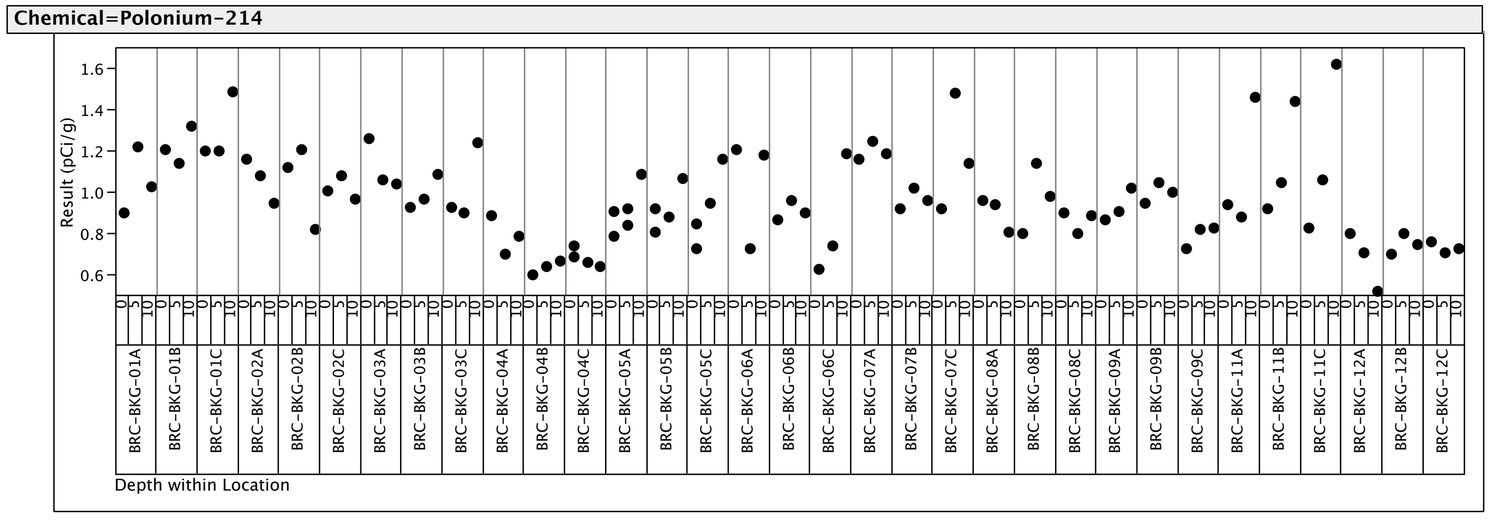
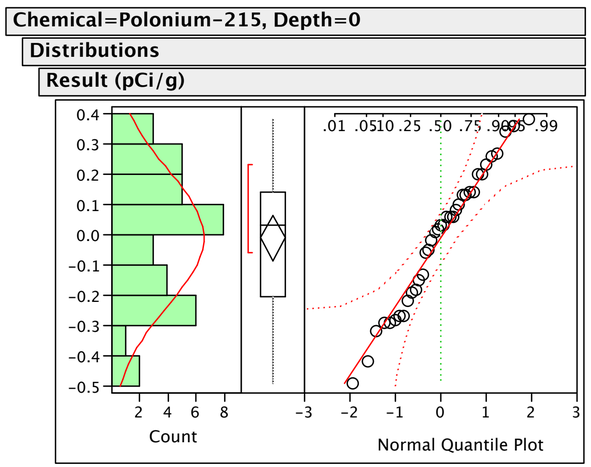
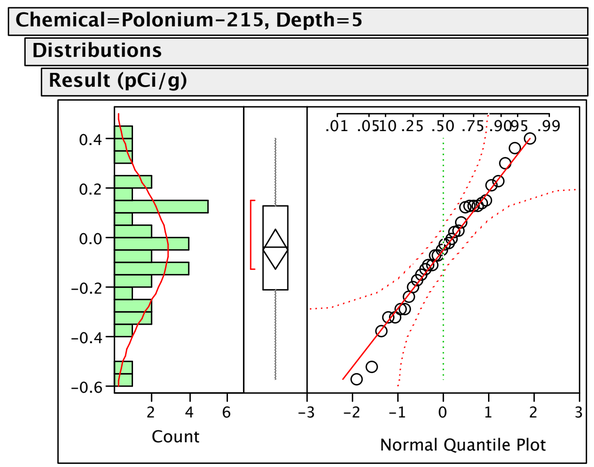
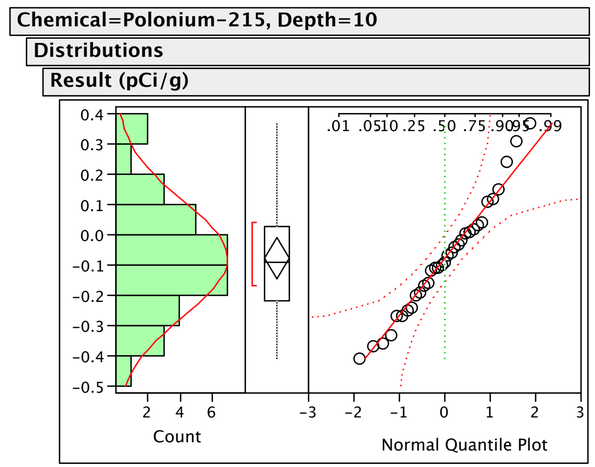


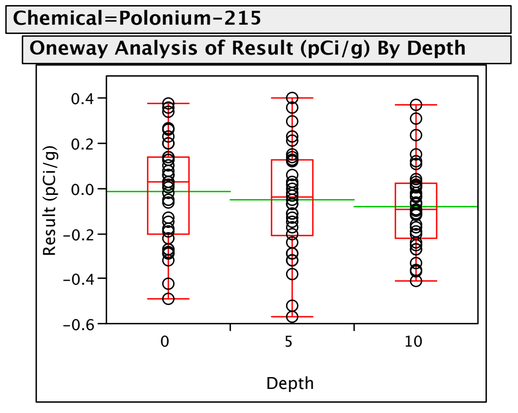
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









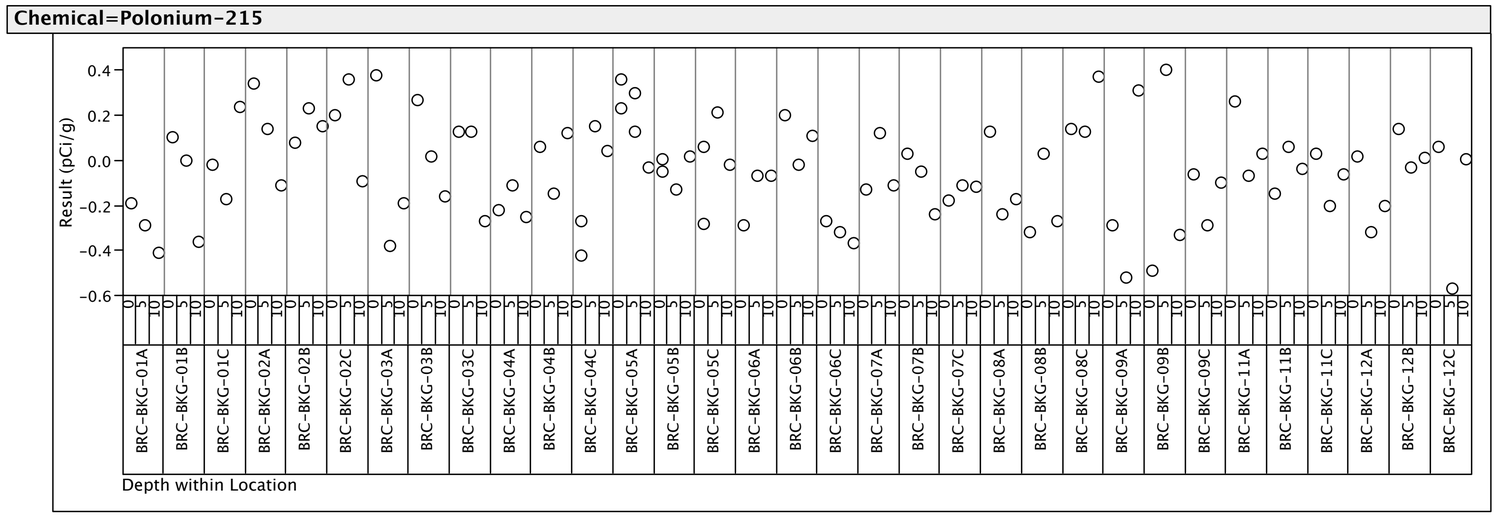
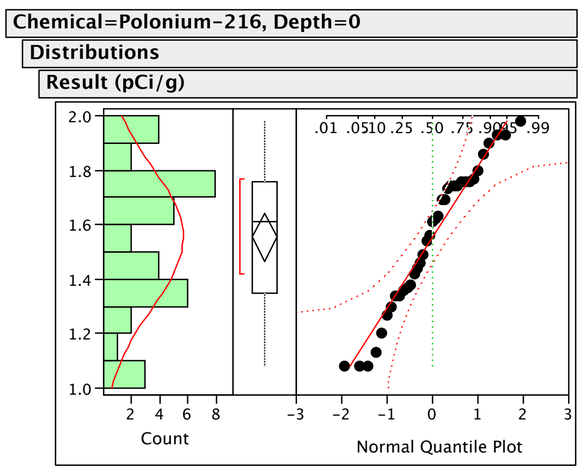
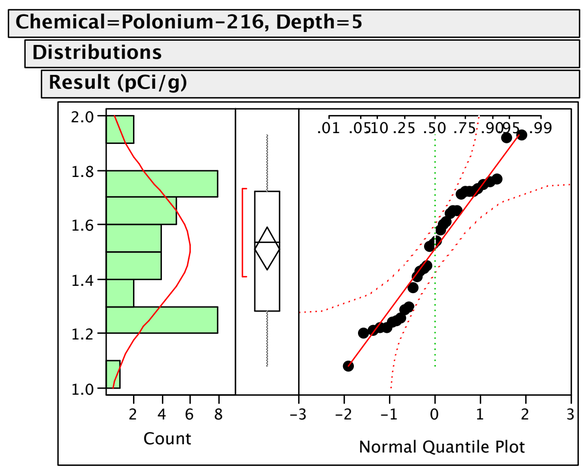
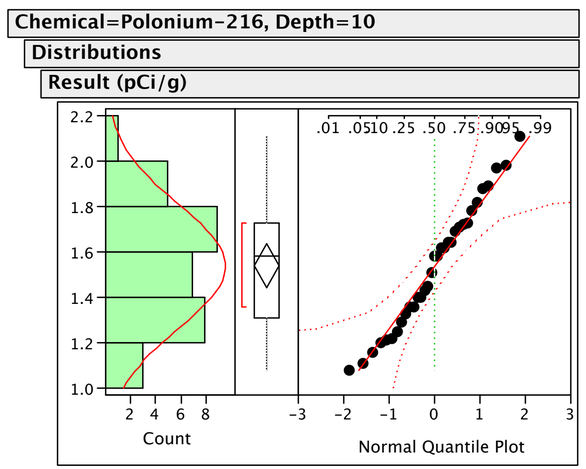


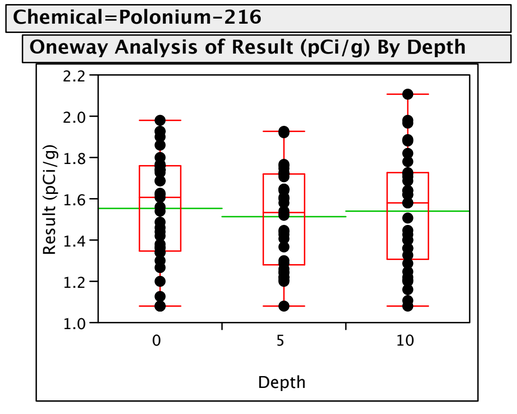
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









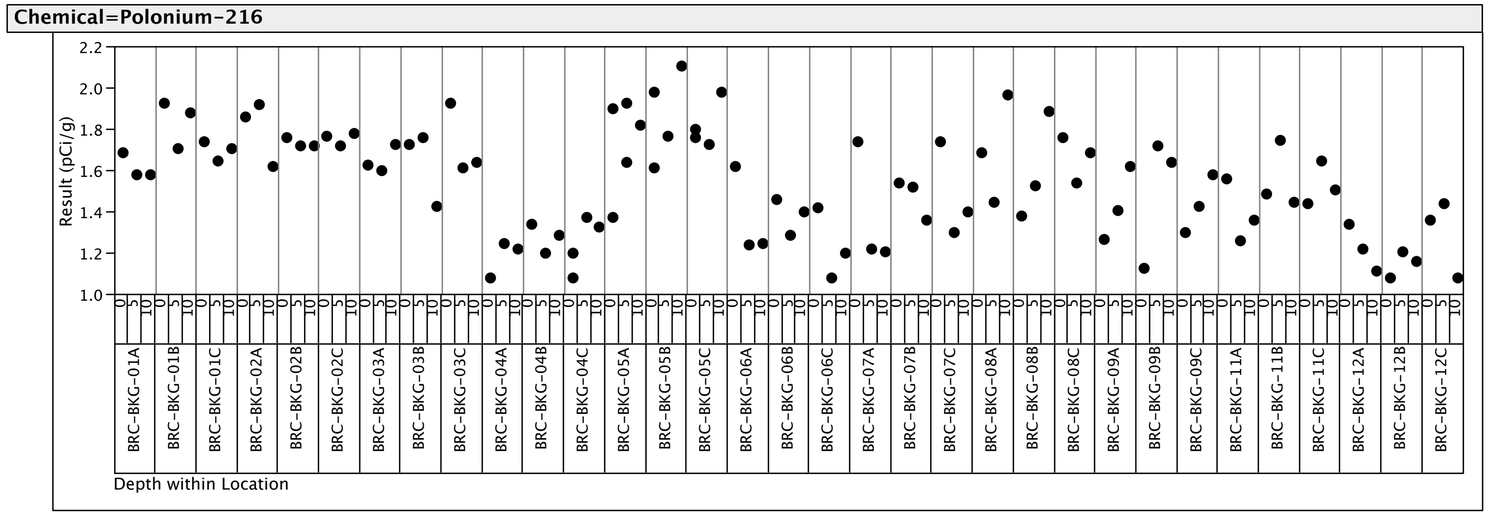
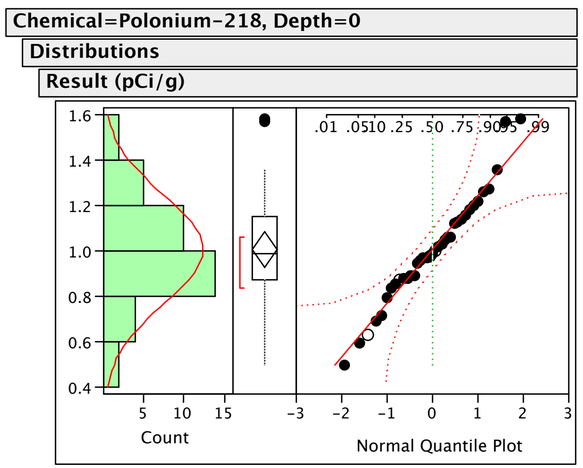
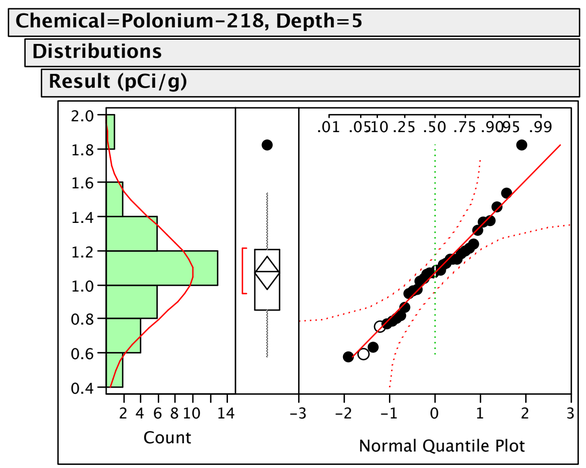
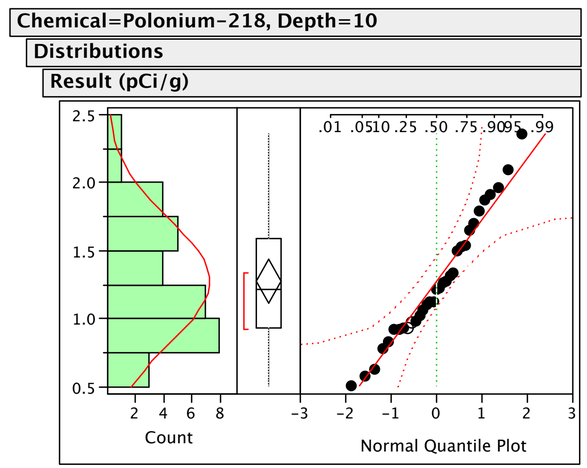


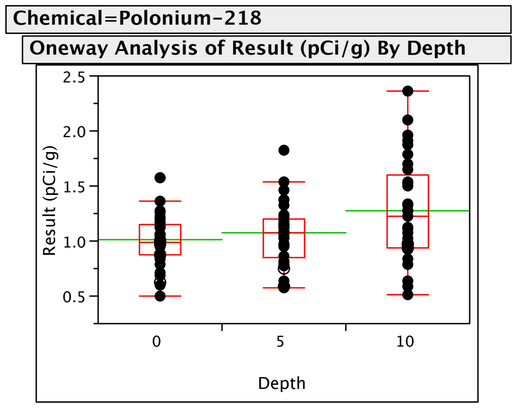
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









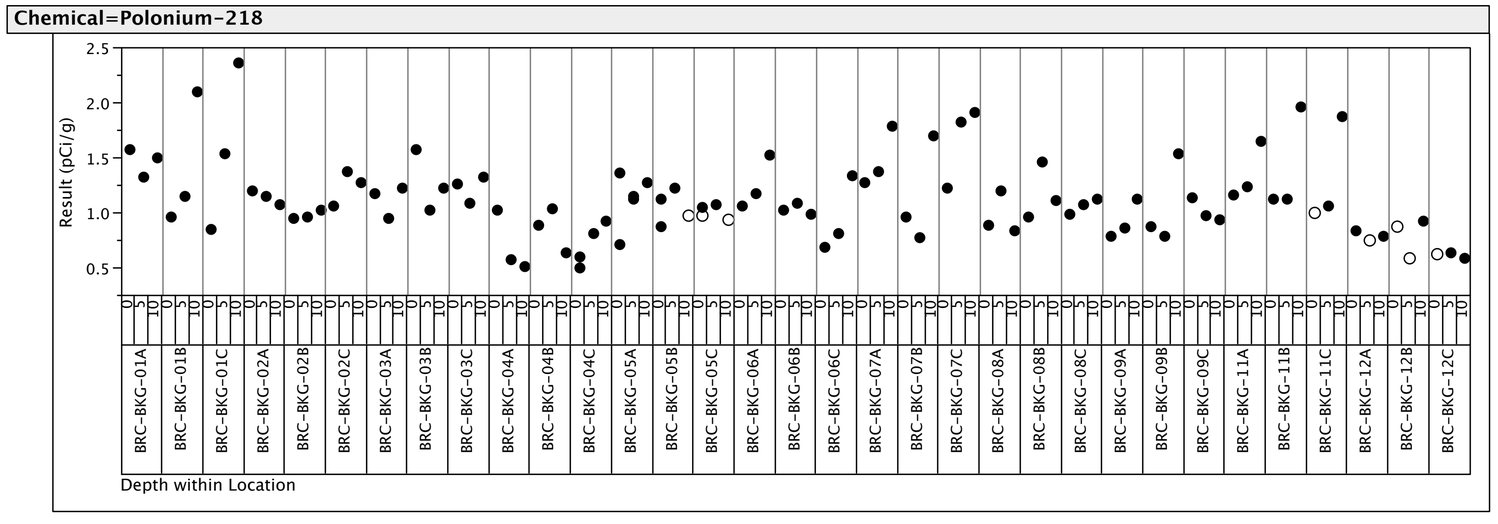
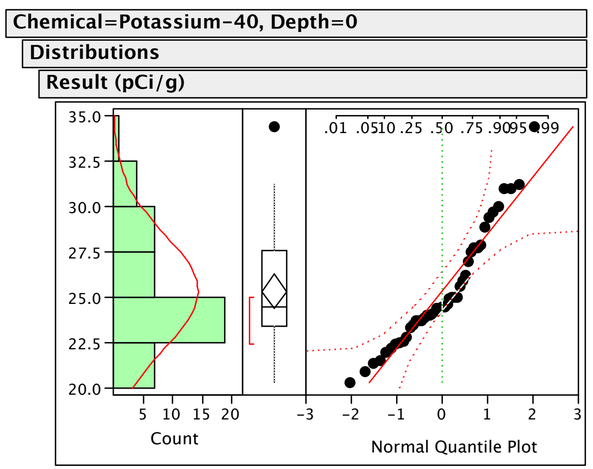
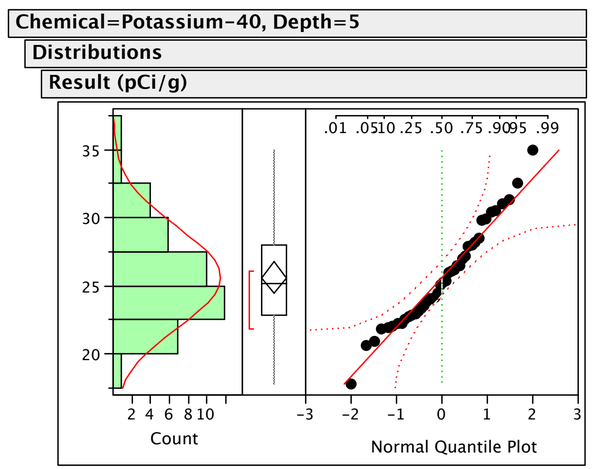
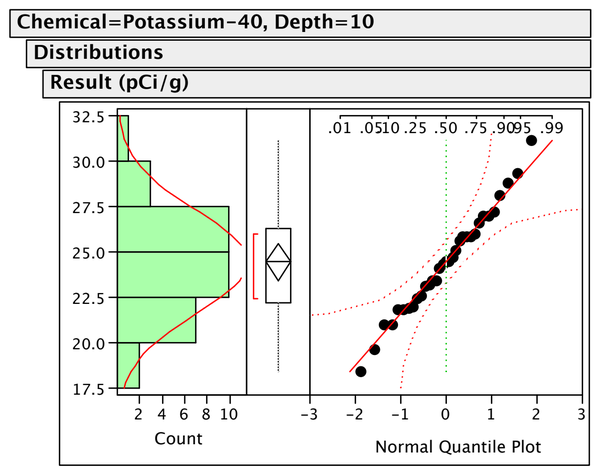


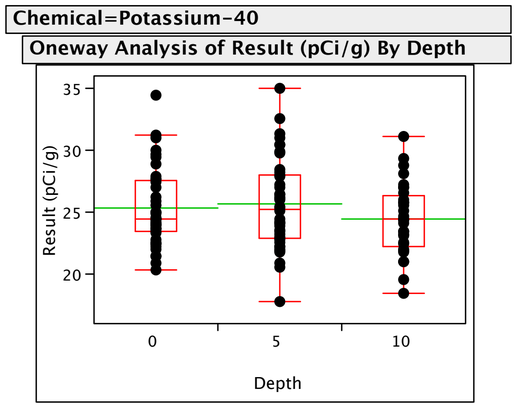
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









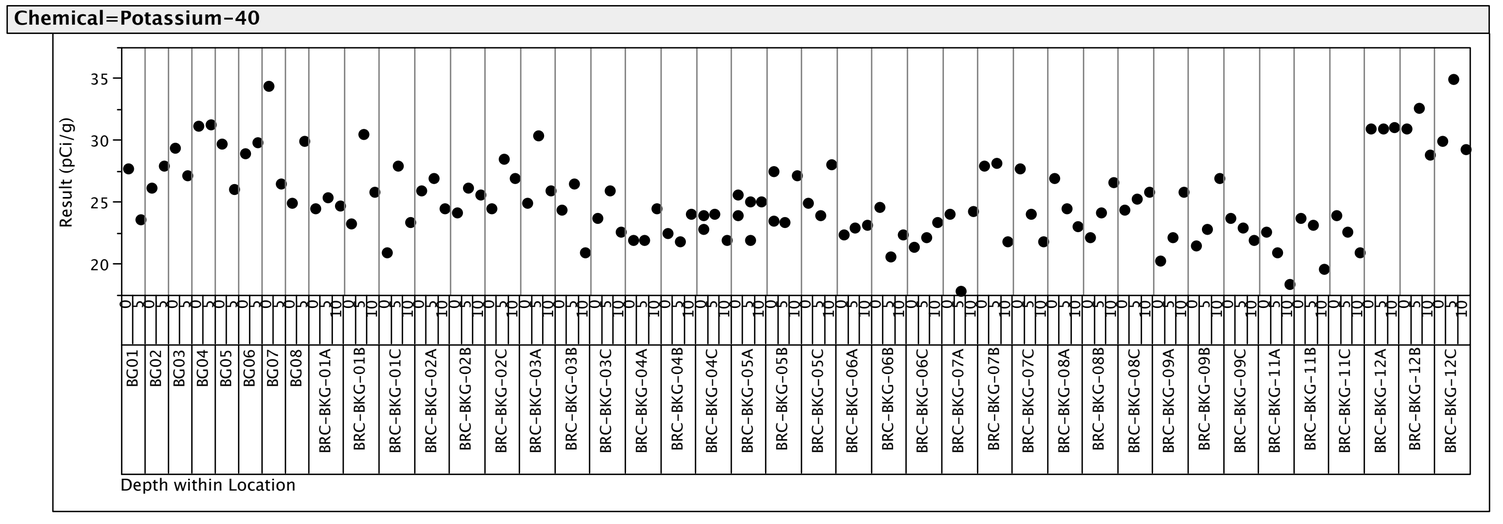
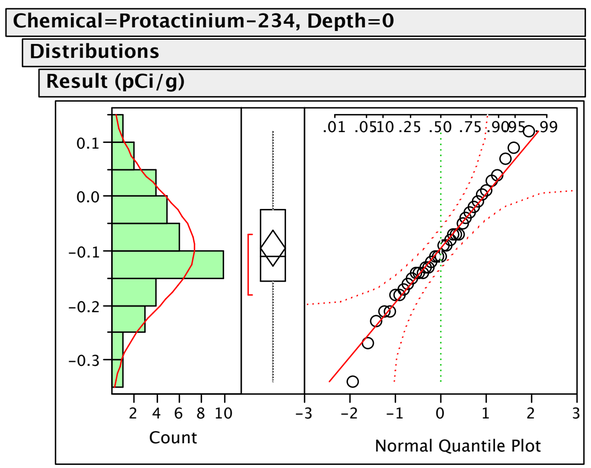
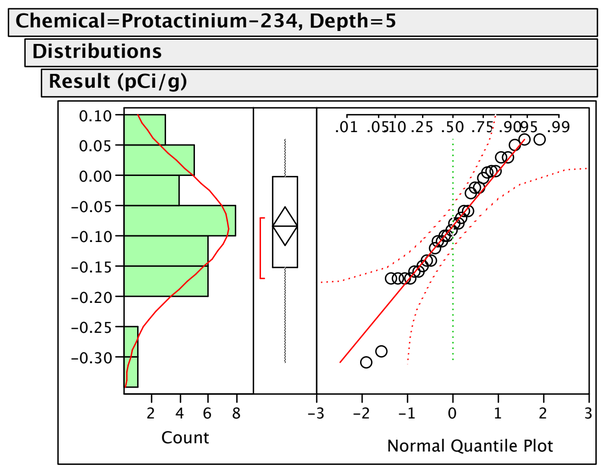
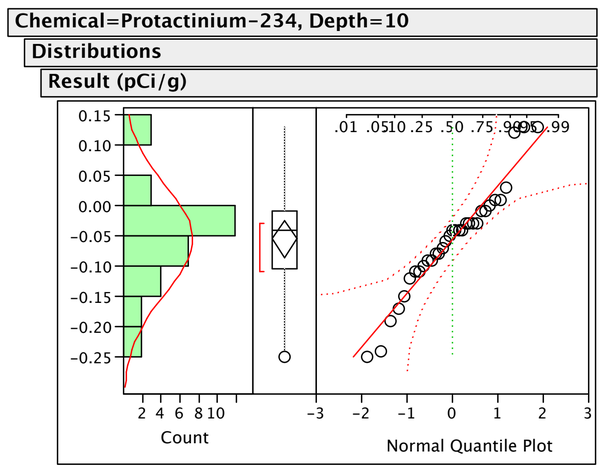


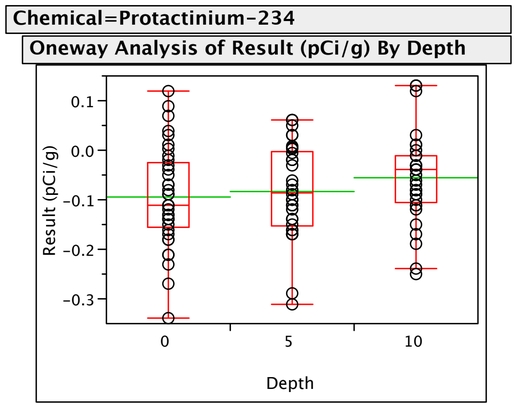
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









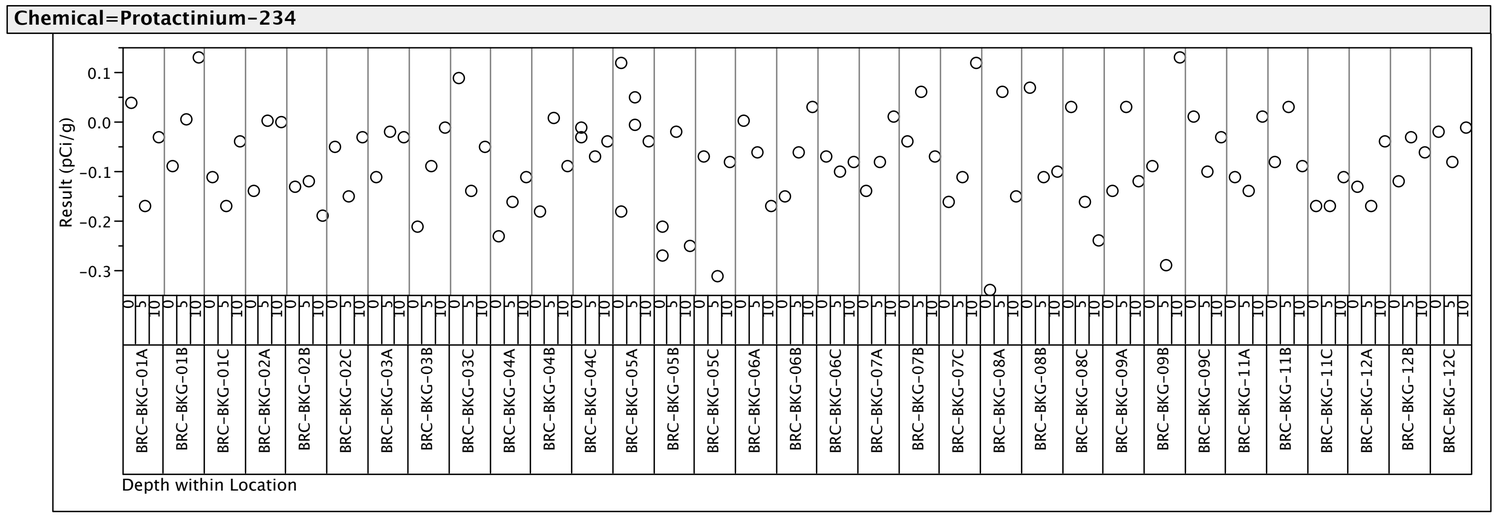
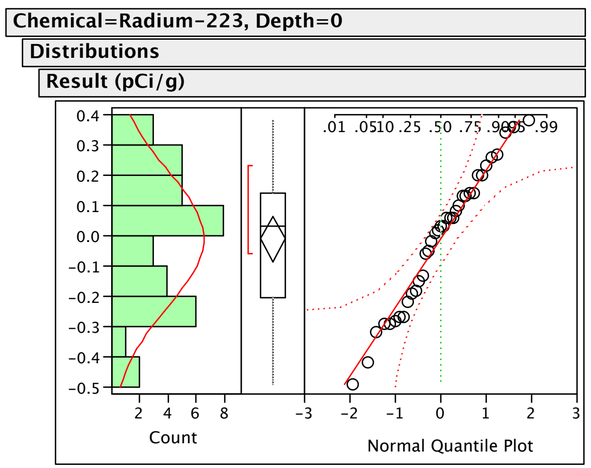
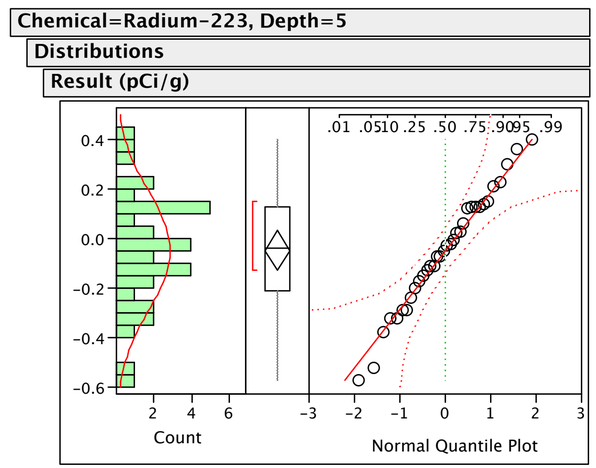
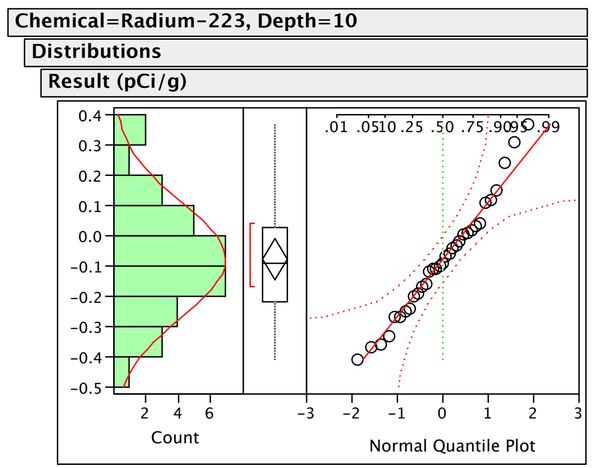


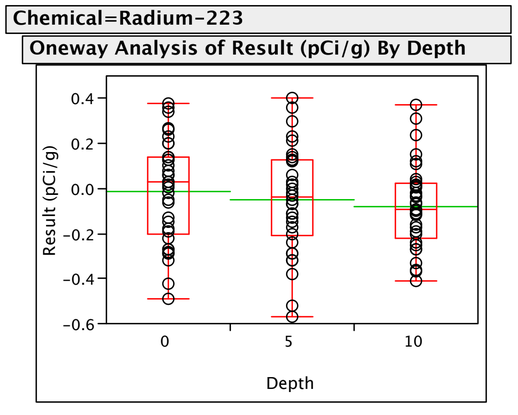
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









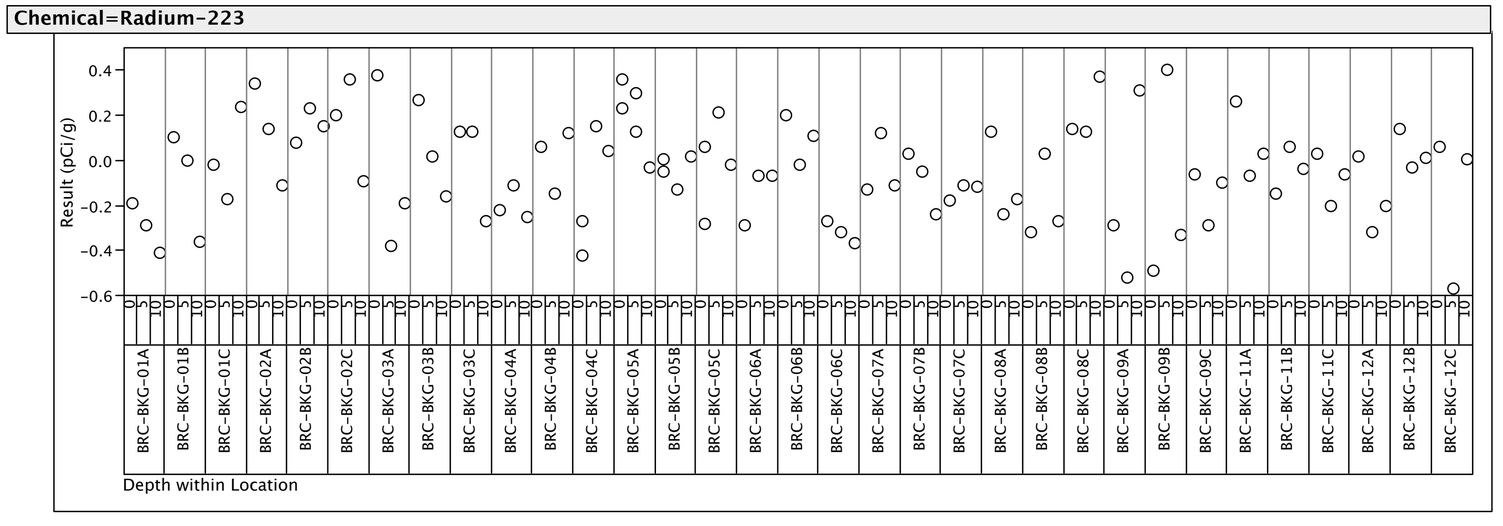
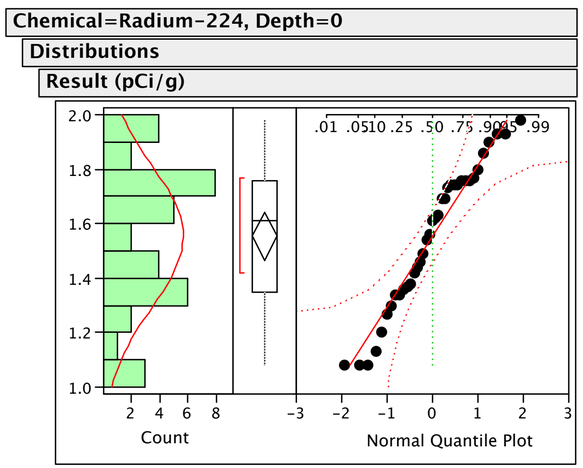
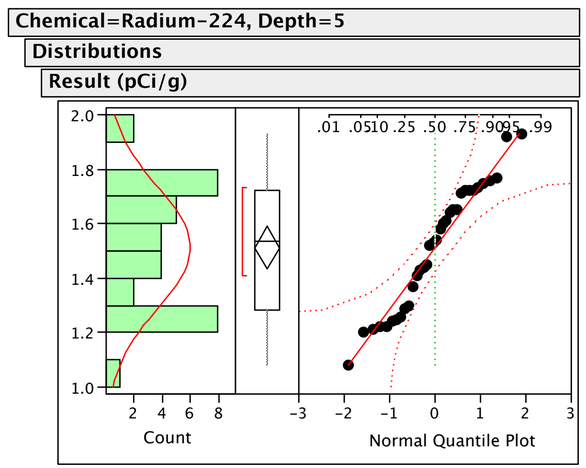
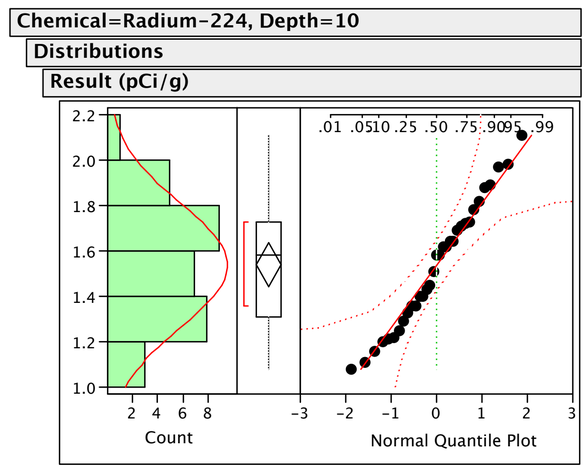


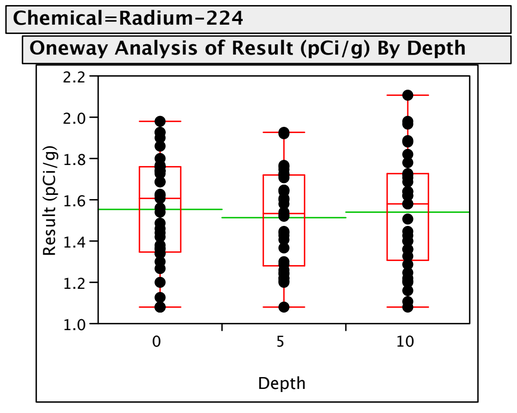
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









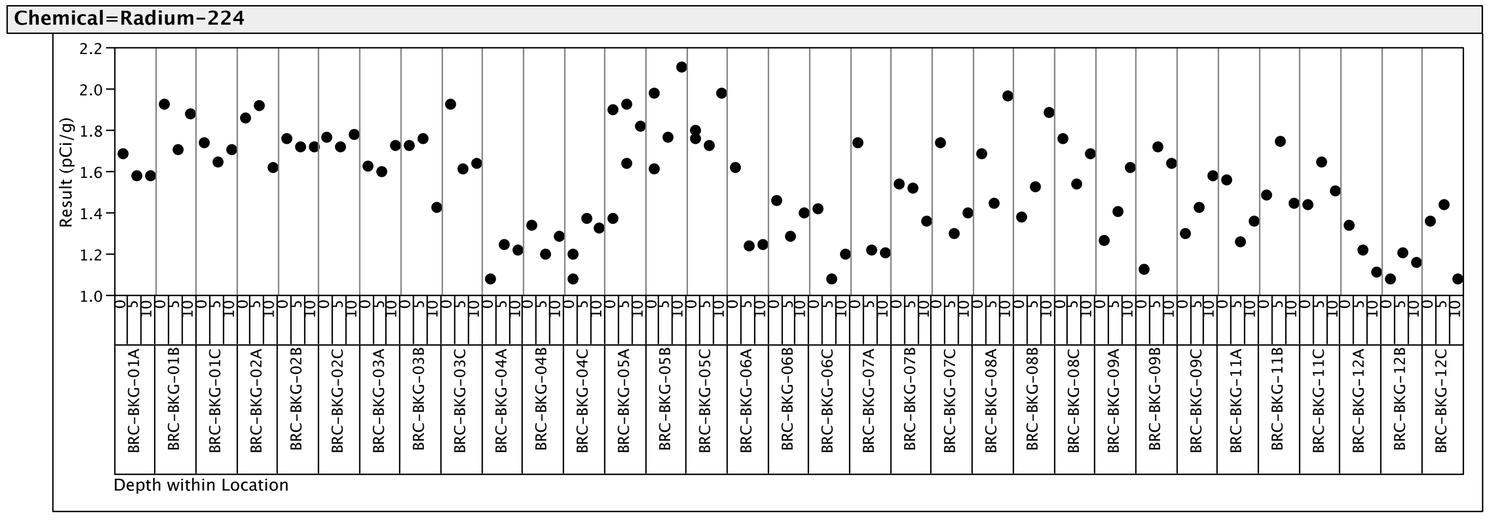
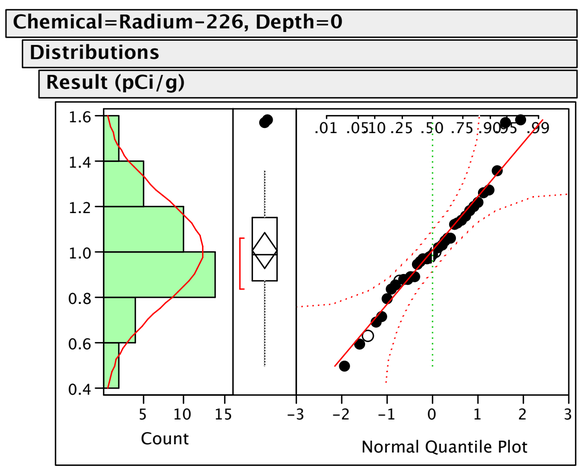
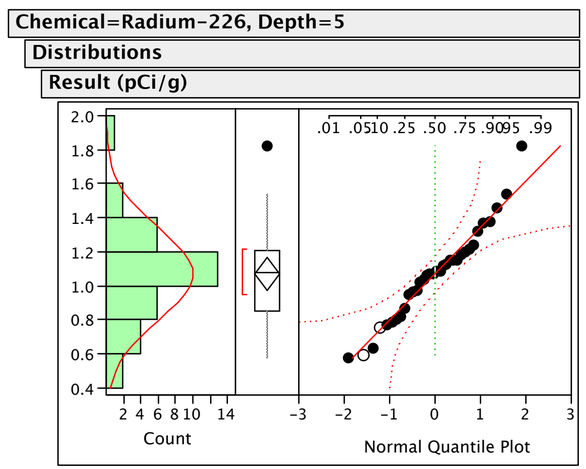
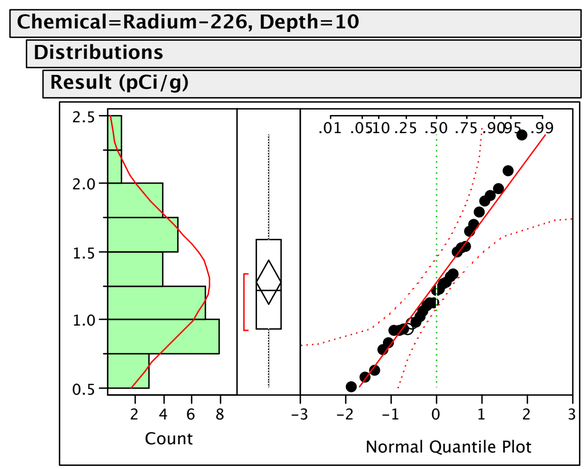


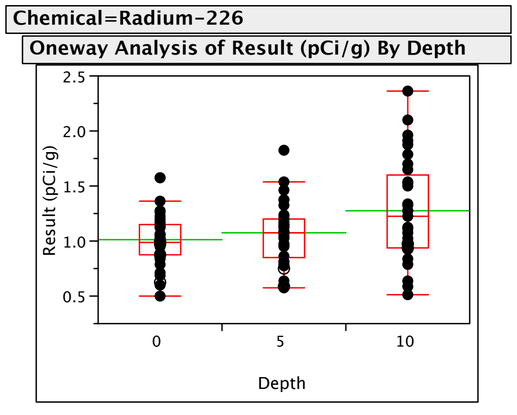
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









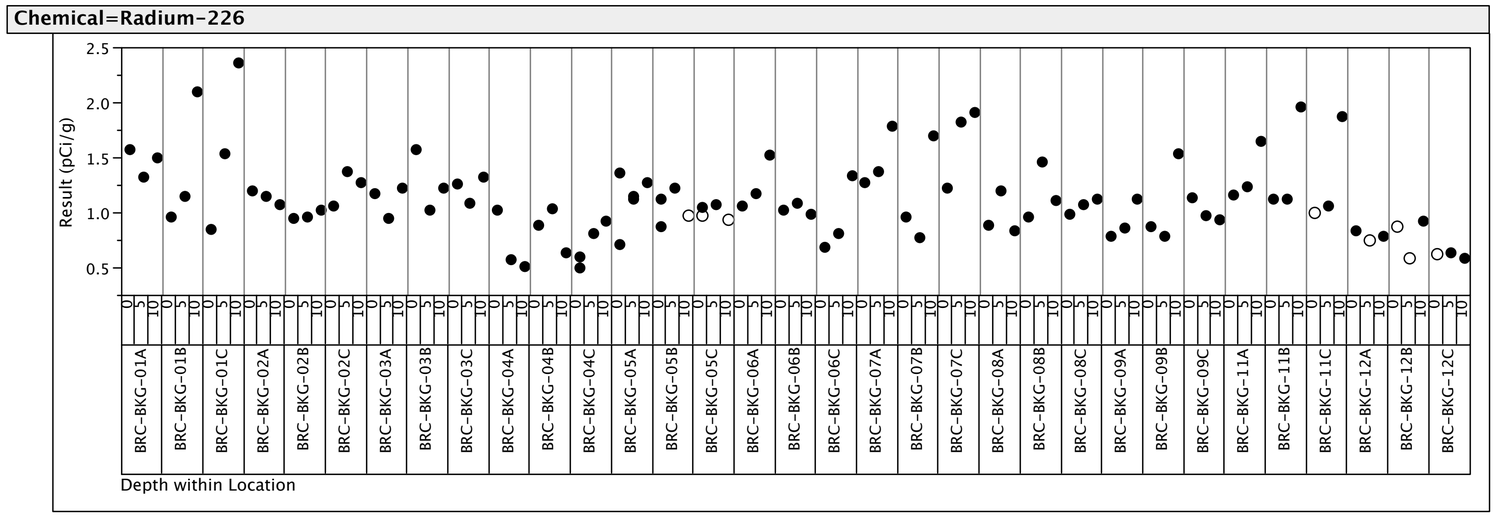
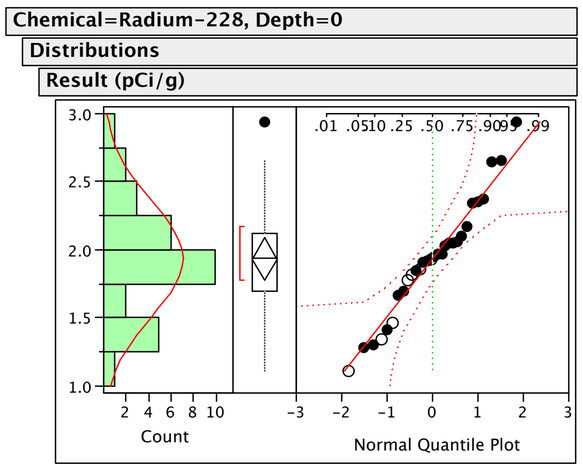
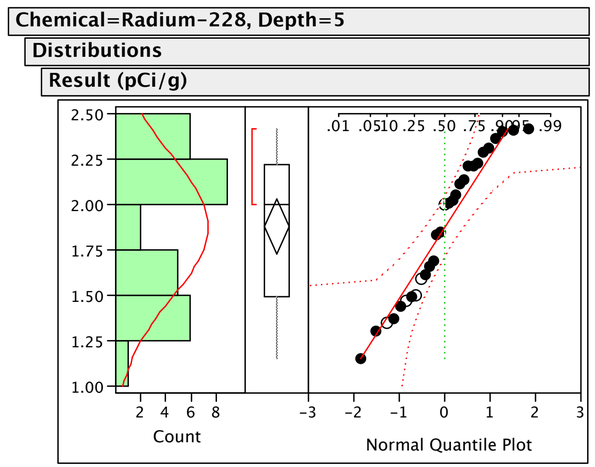
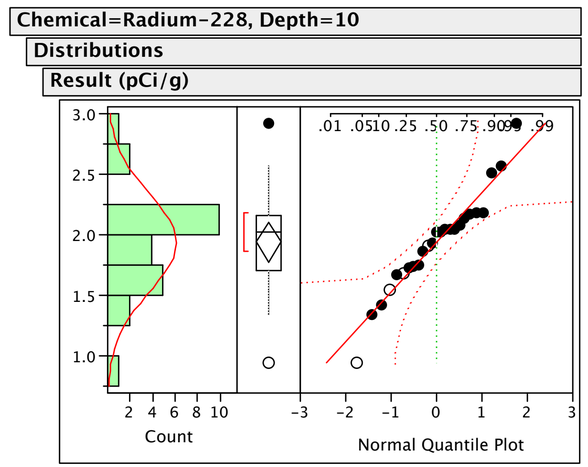


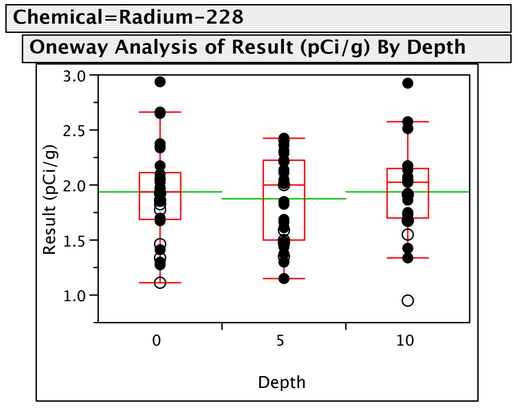
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









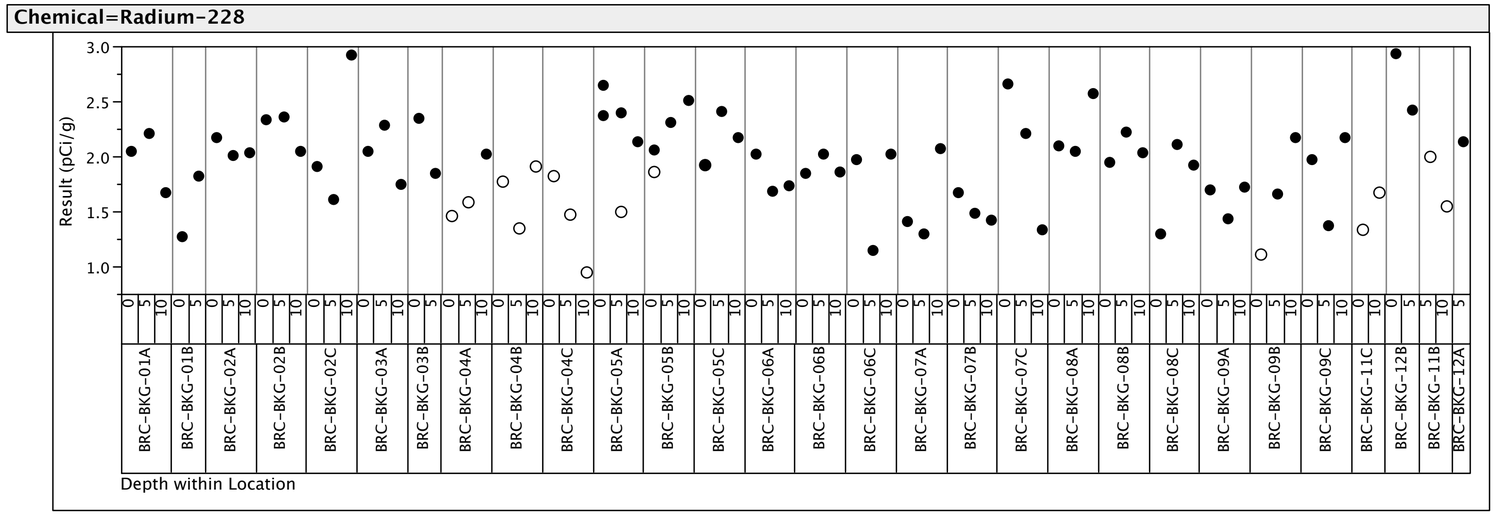
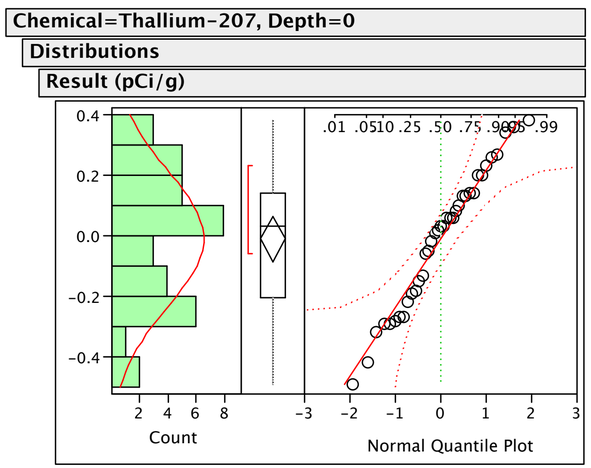
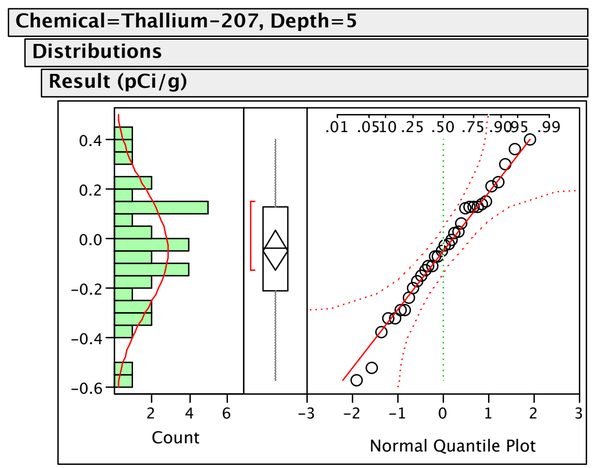
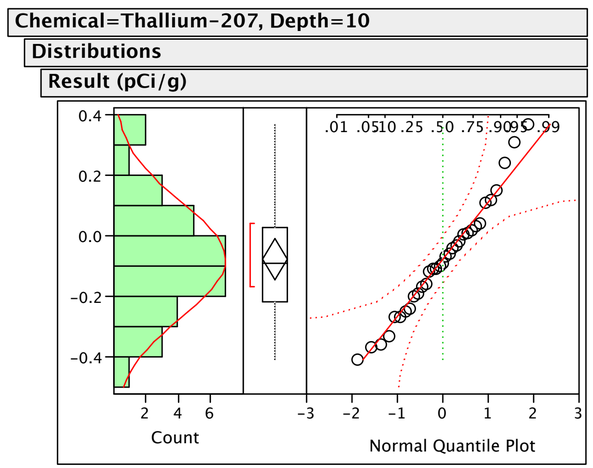


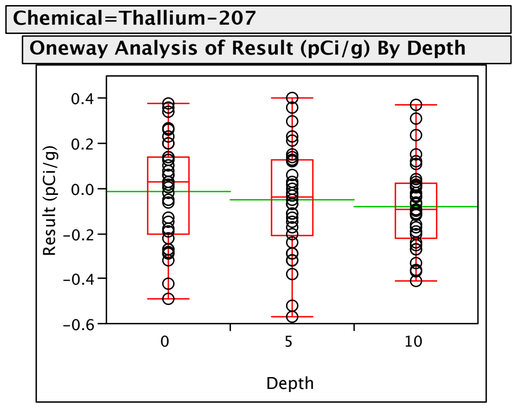
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









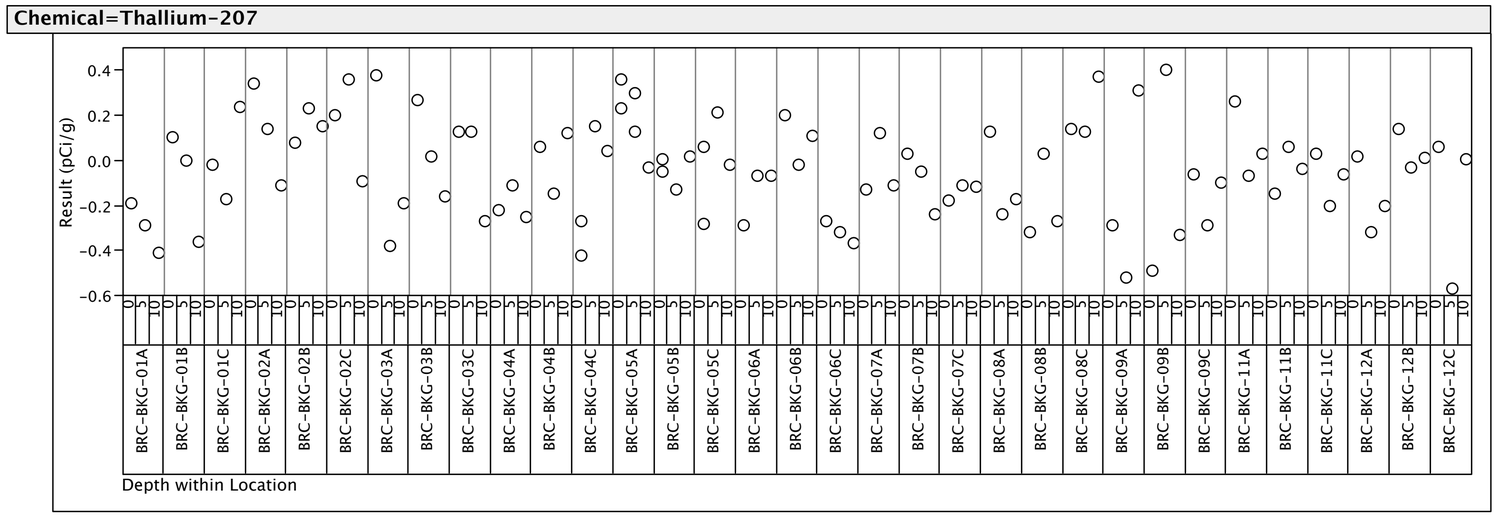
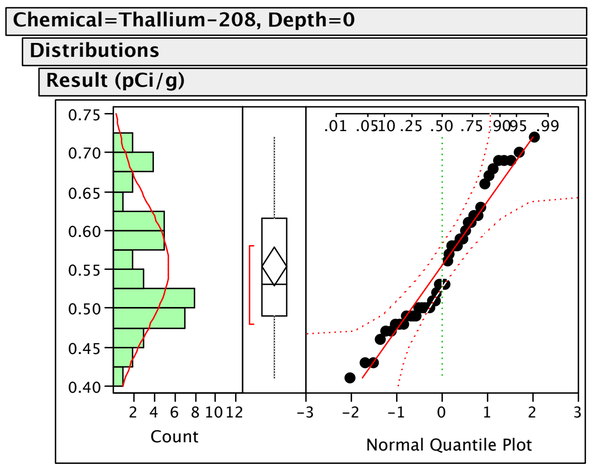
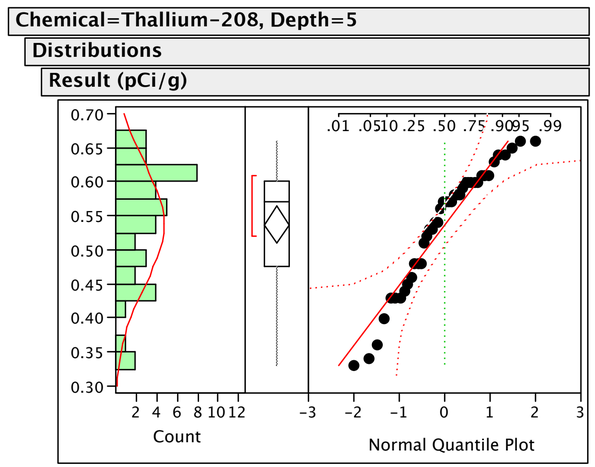
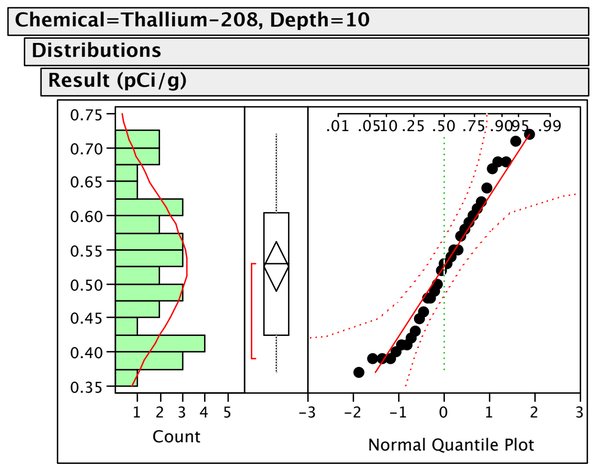


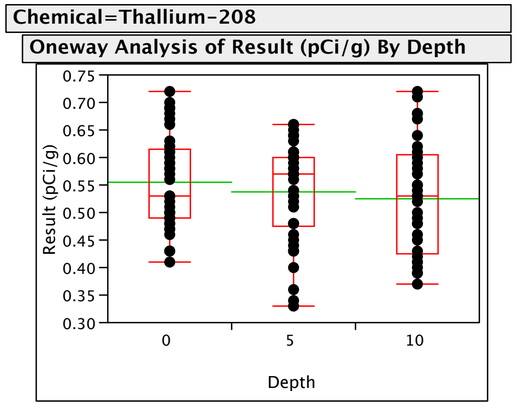
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









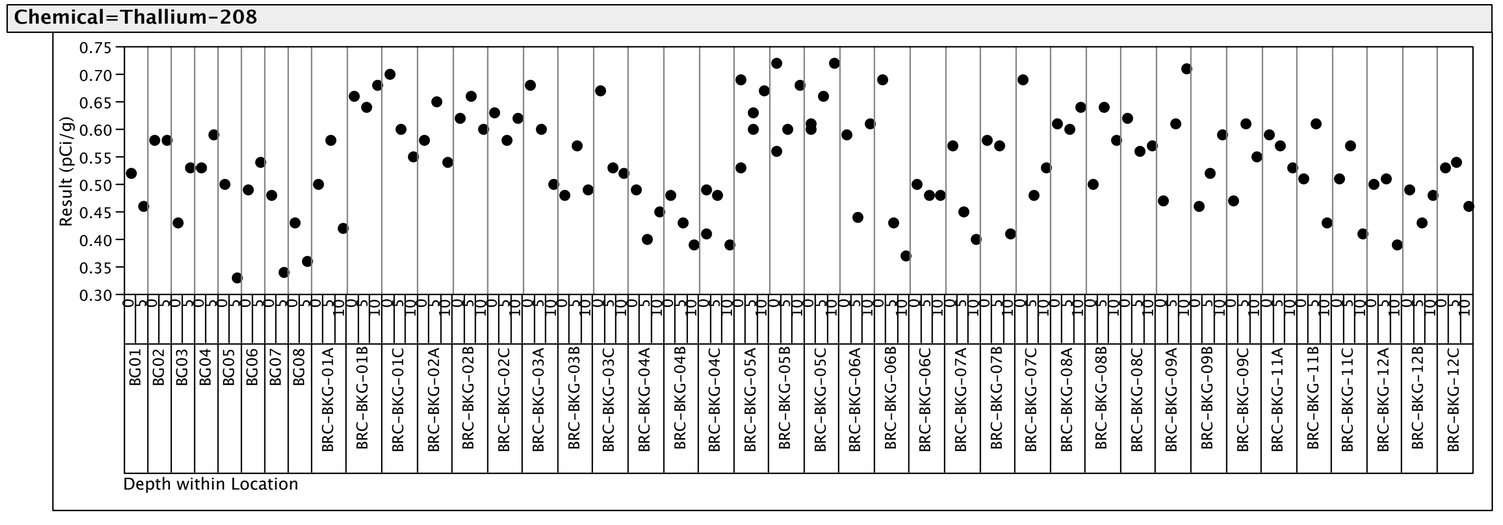
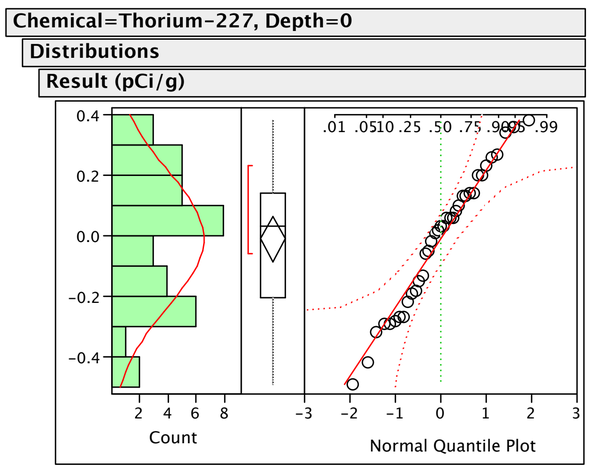
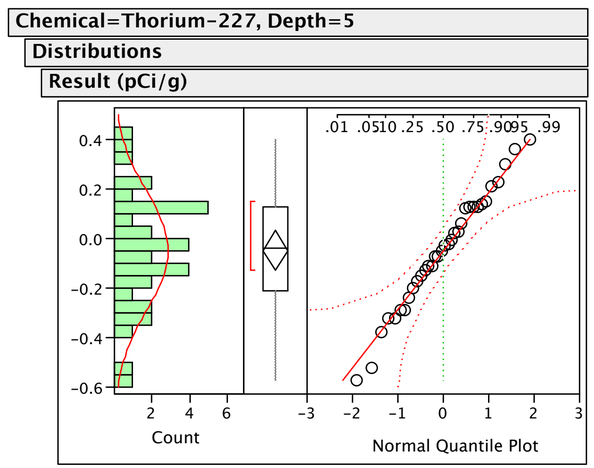
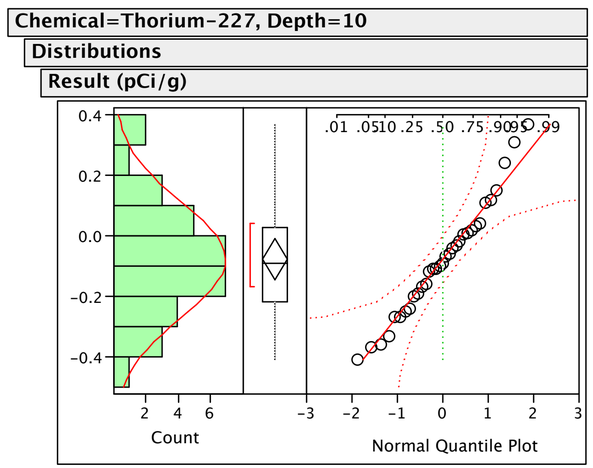


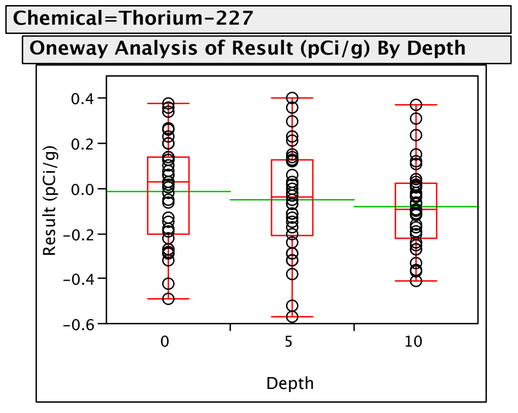
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









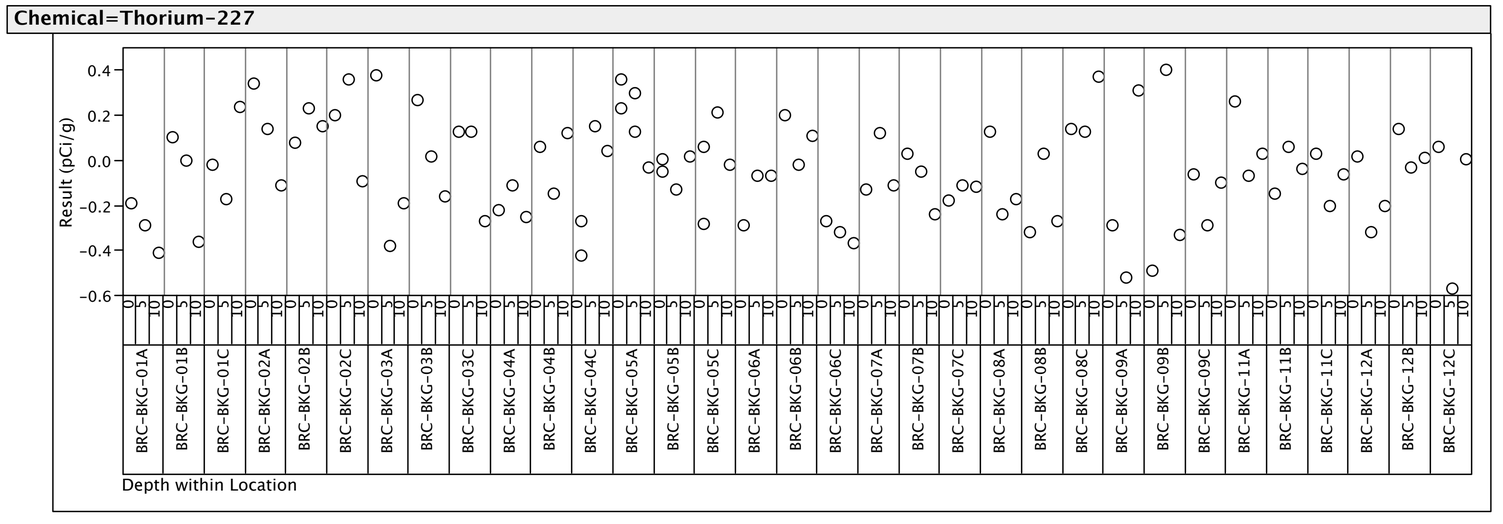
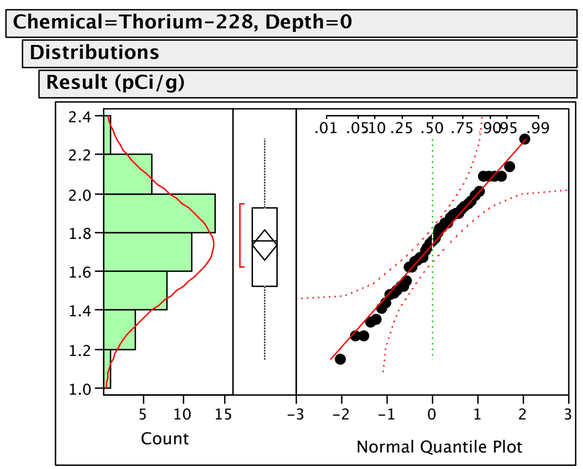
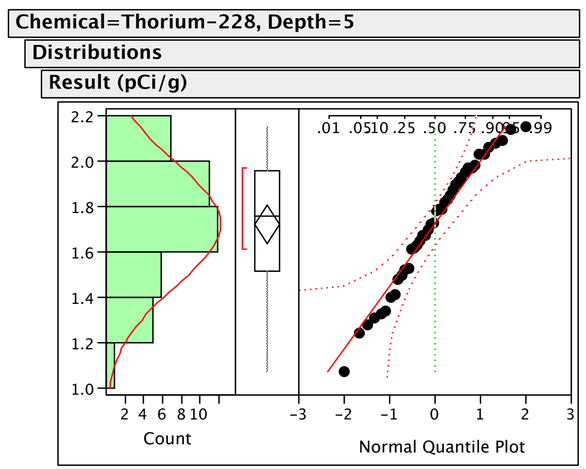
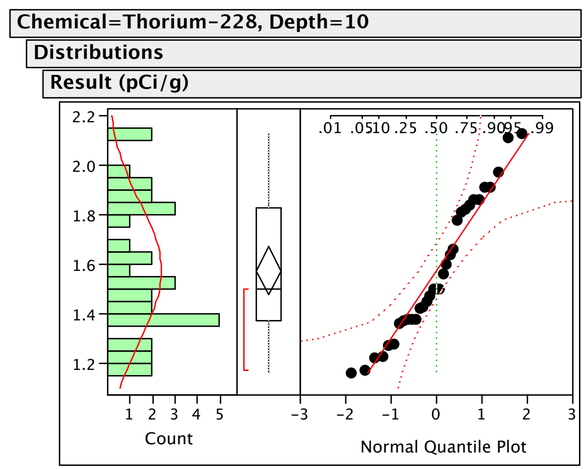


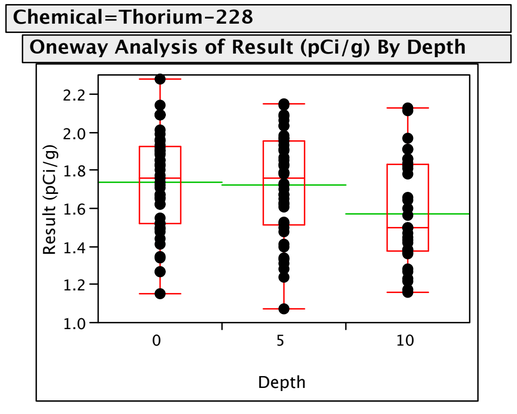
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









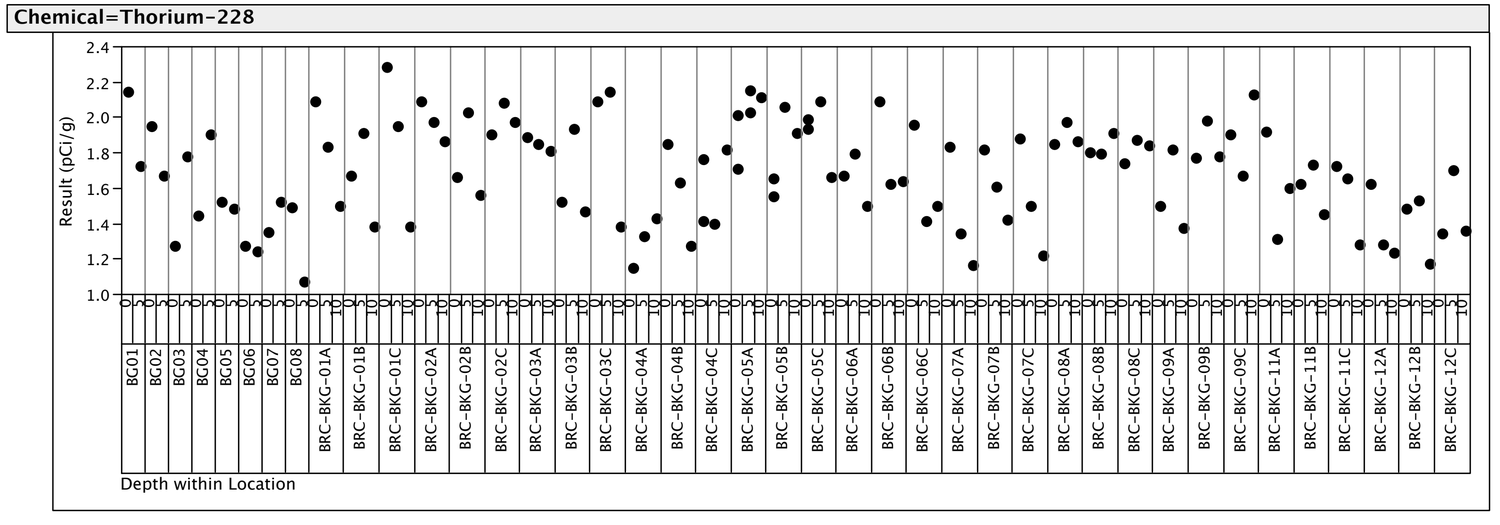
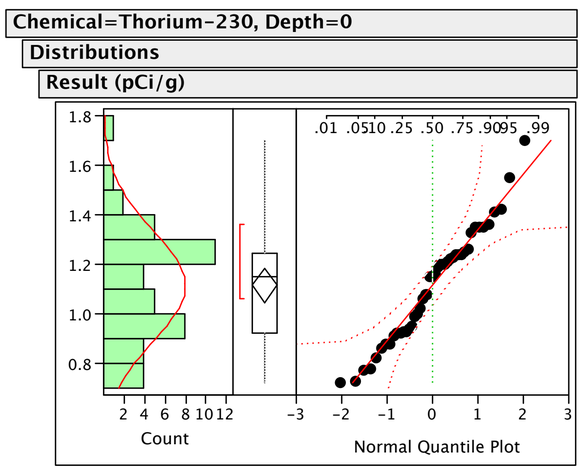
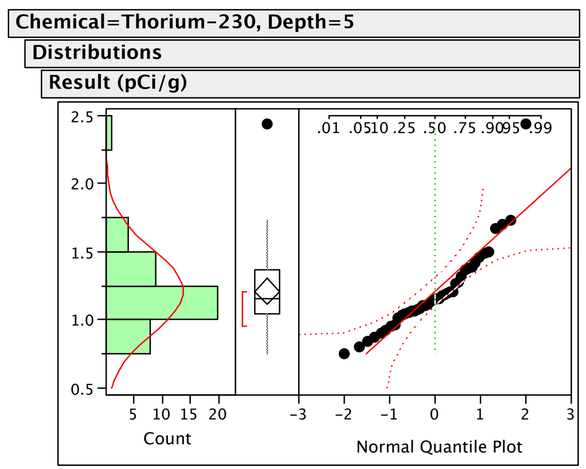
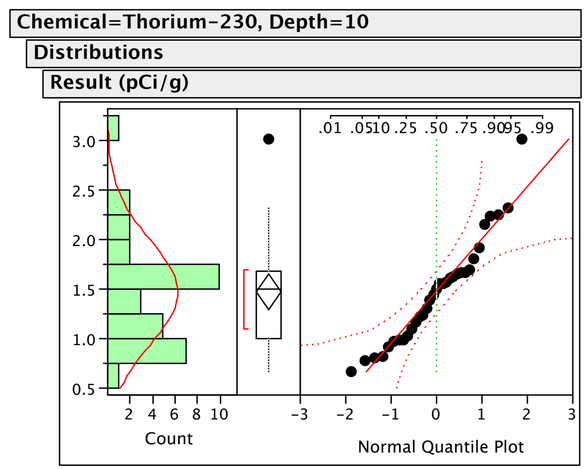


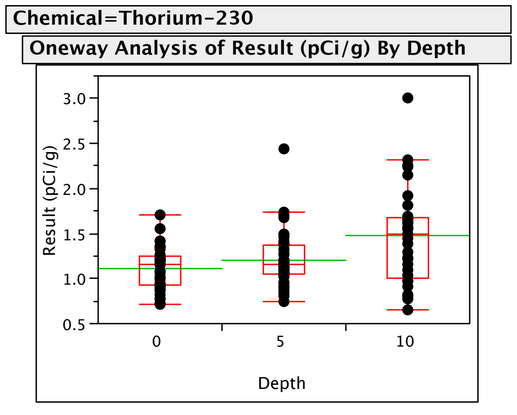
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









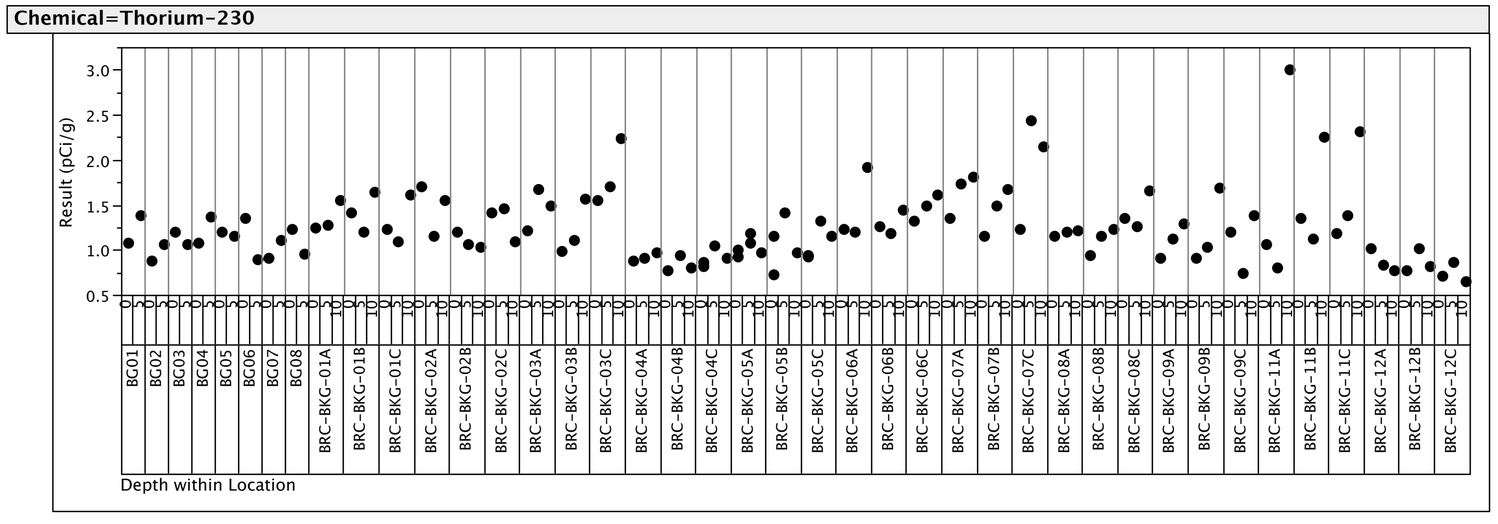
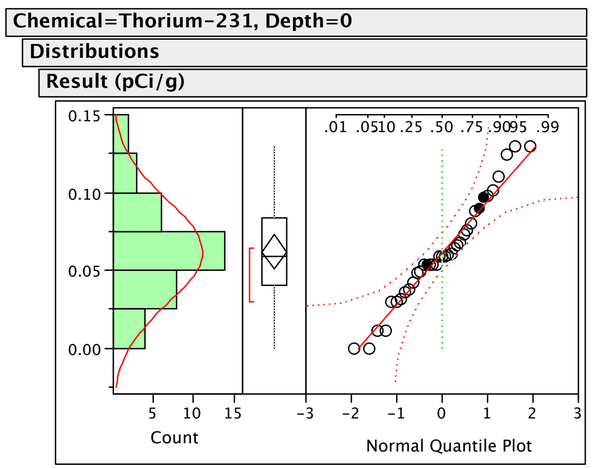
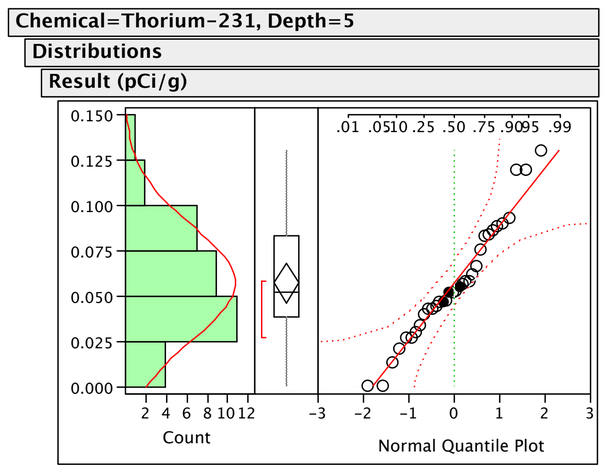
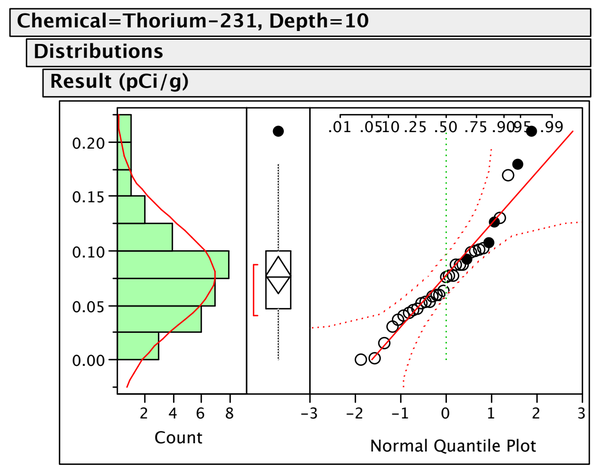


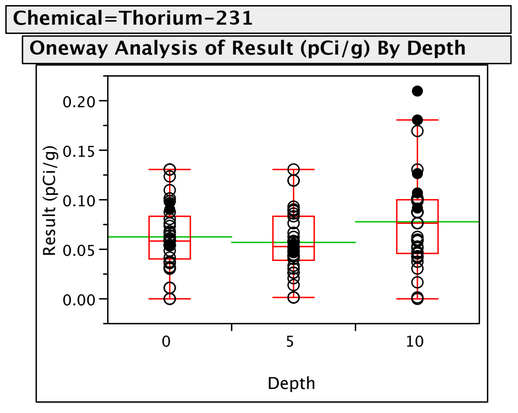
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









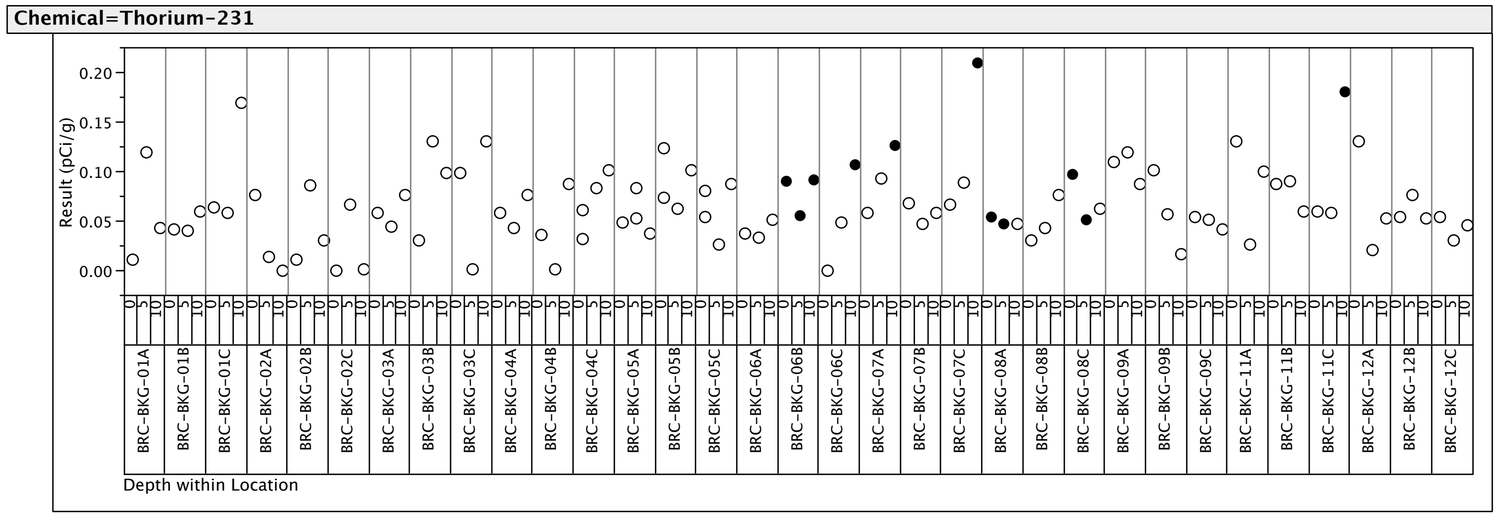
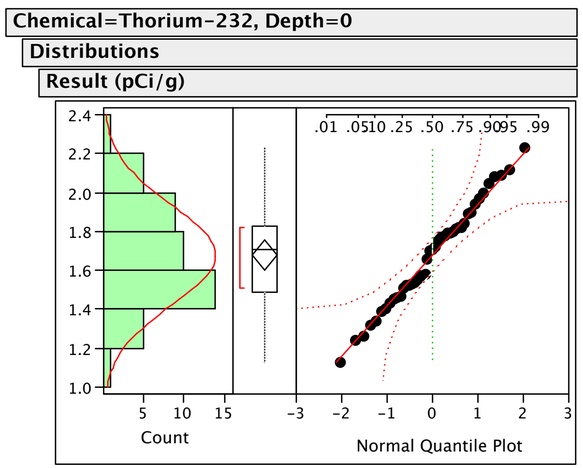
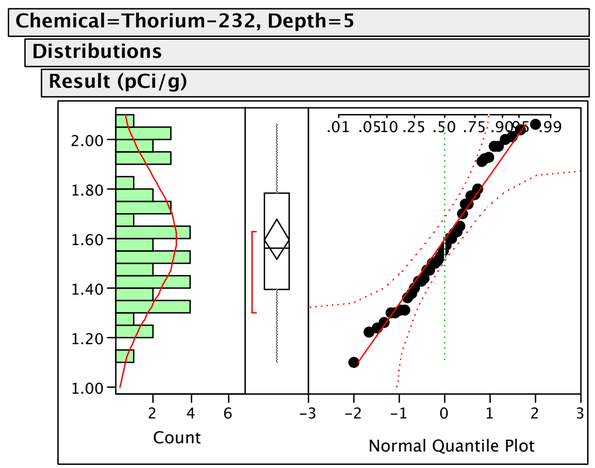
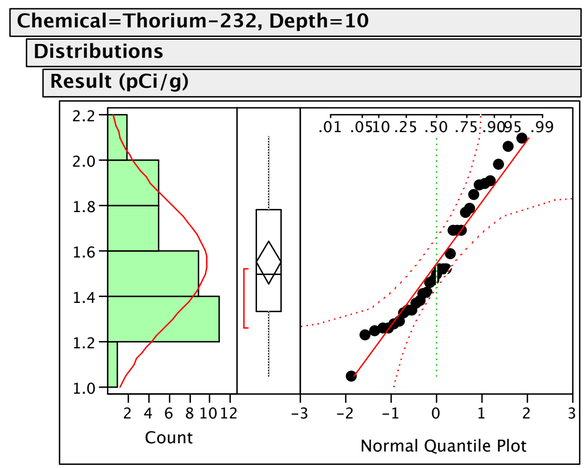


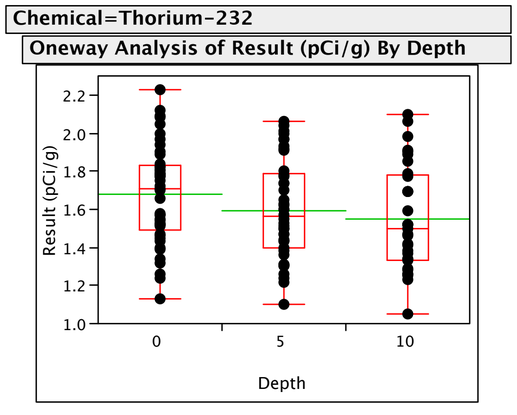
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









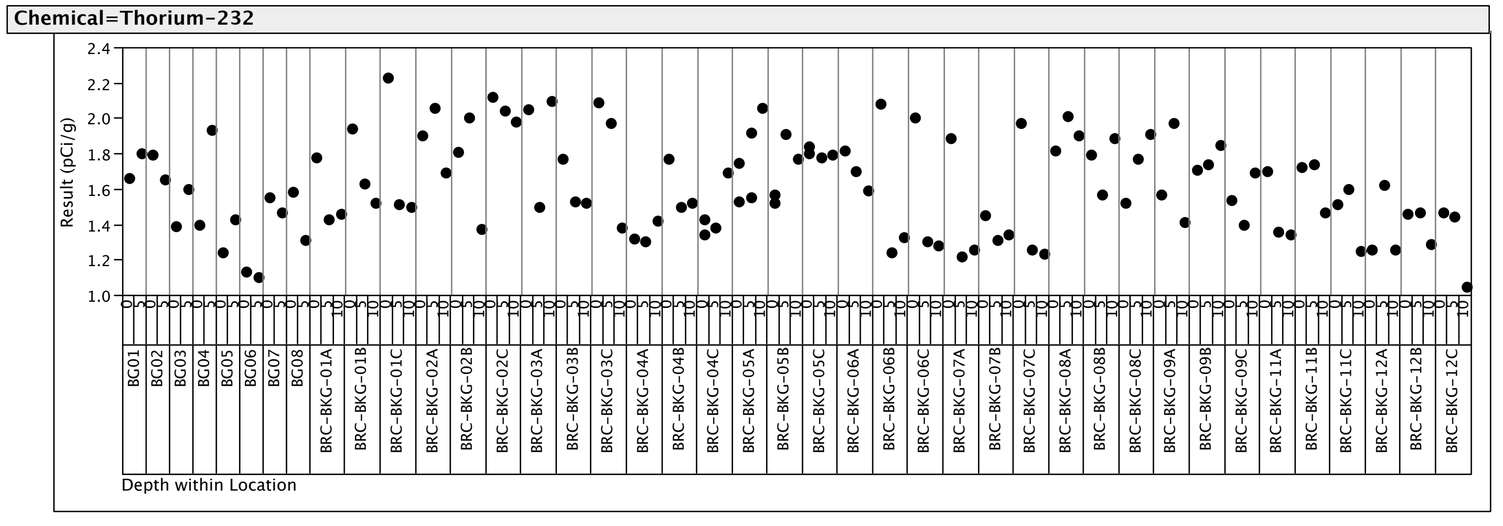
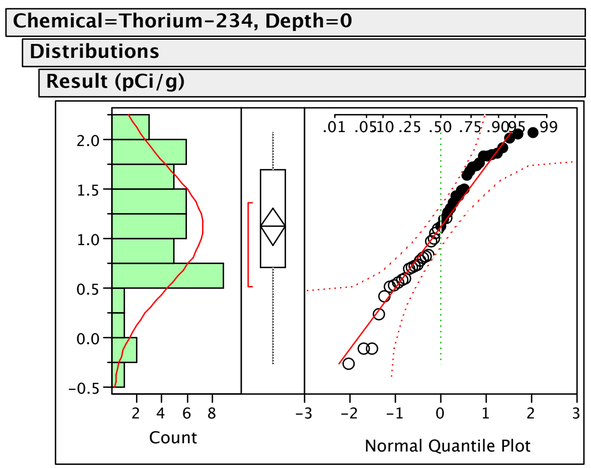
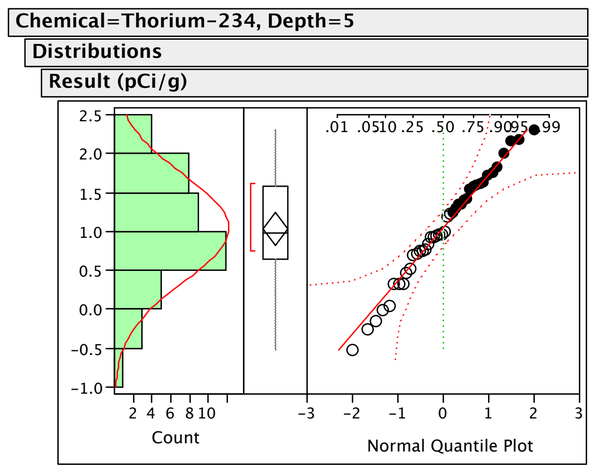
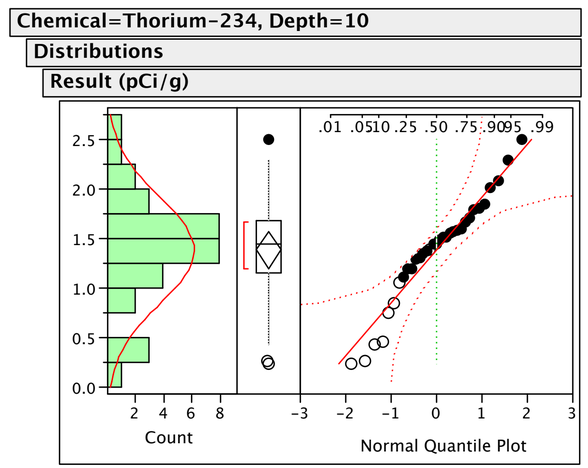


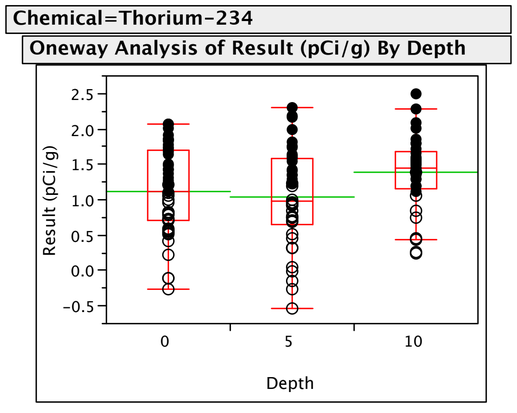
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









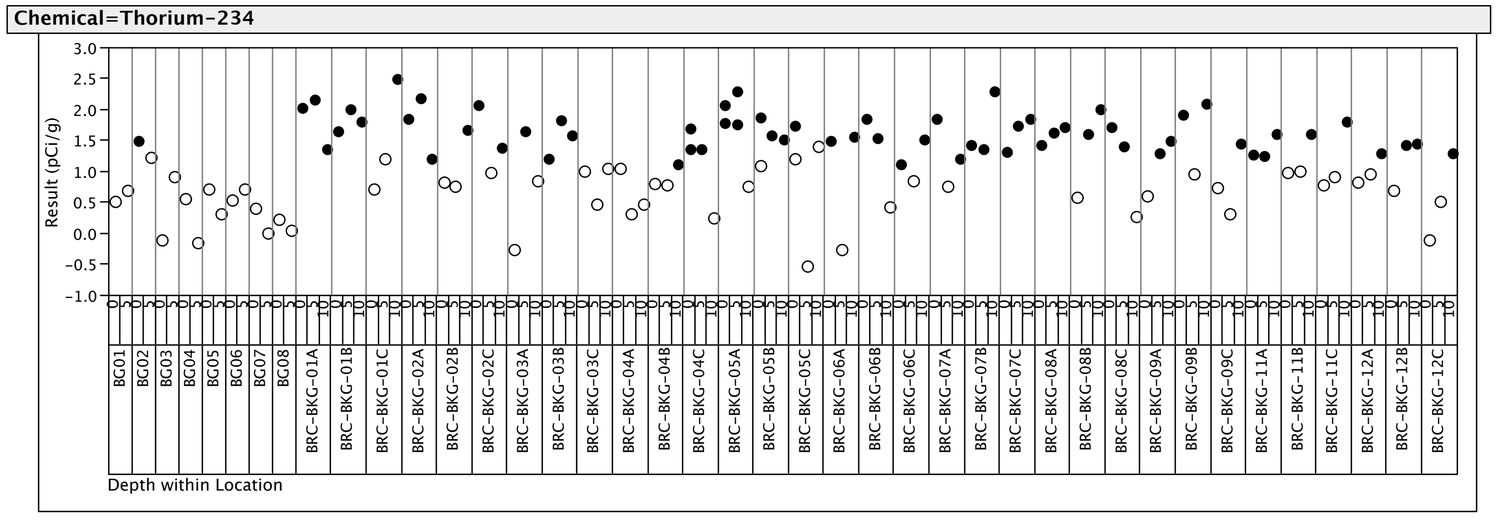
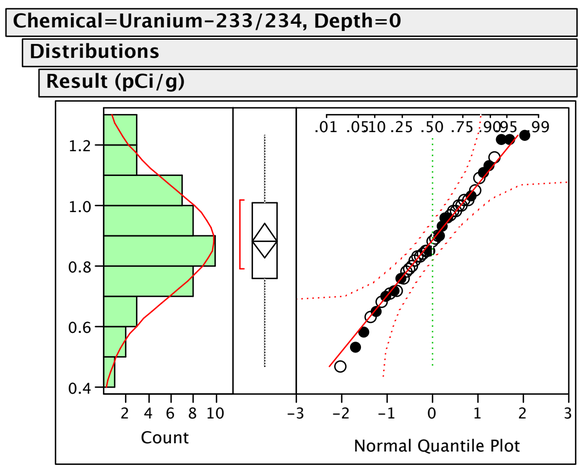
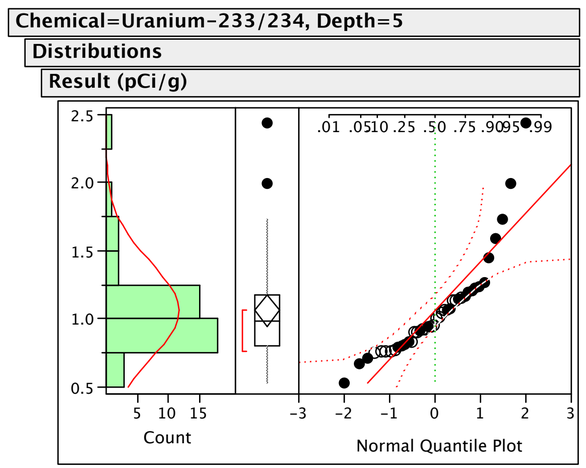
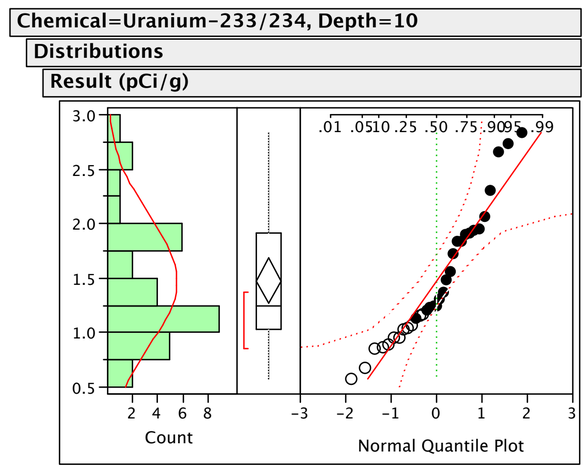


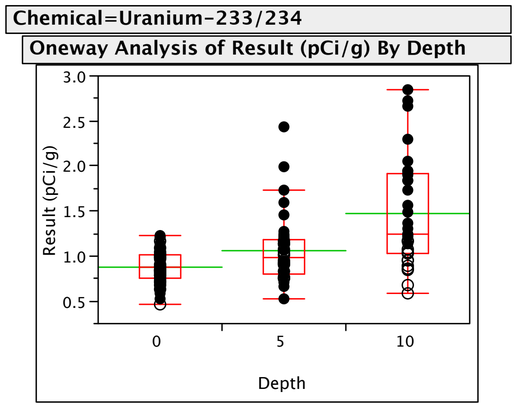
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









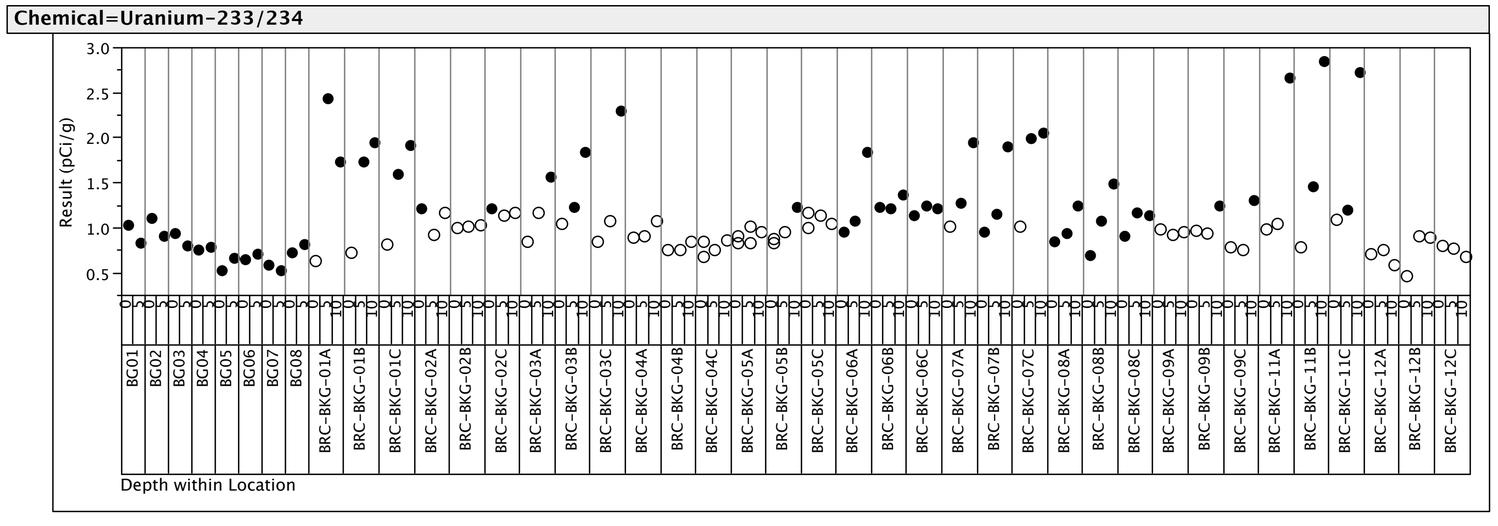
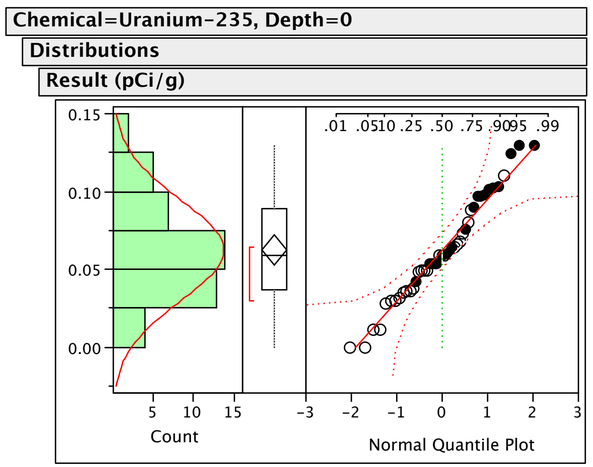
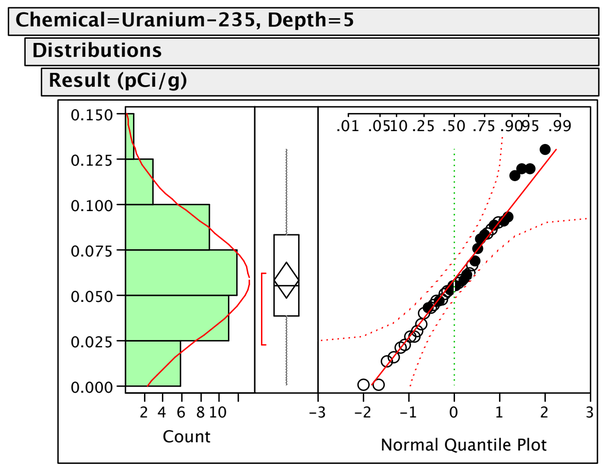
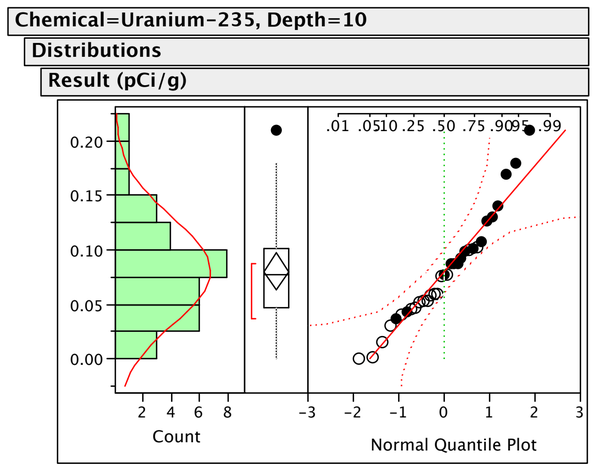


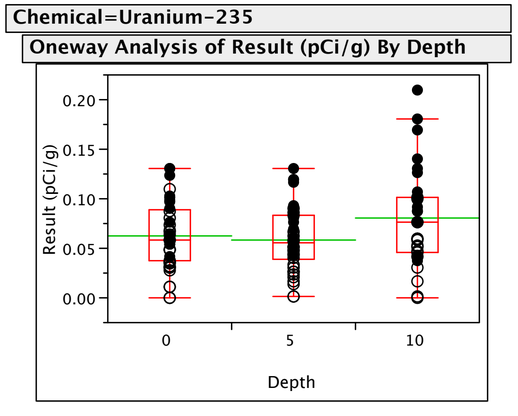
FIGURE G-4 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH









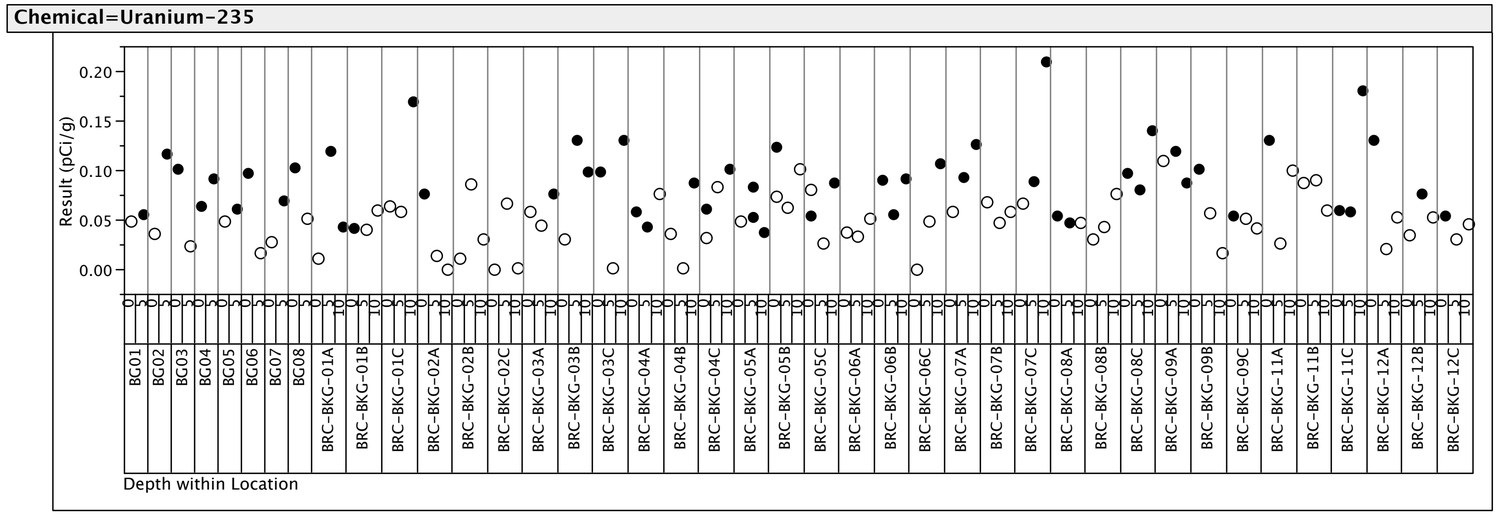
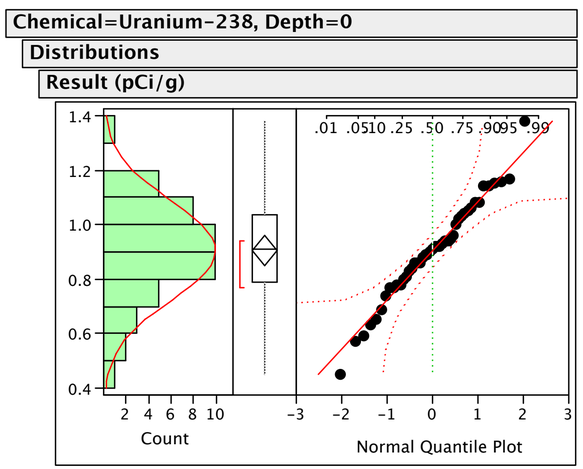
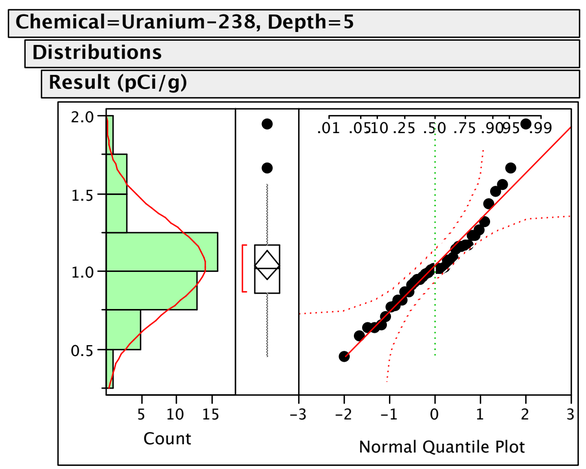
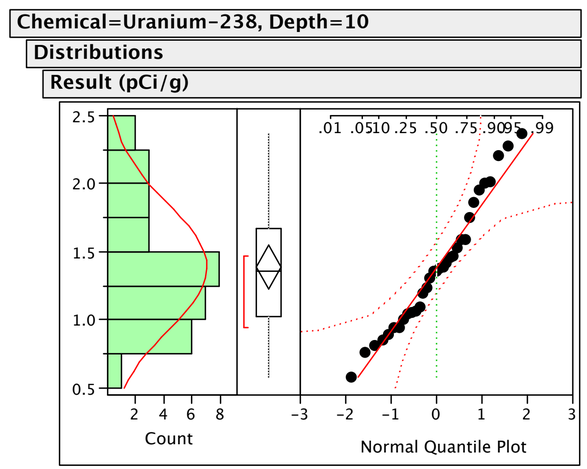


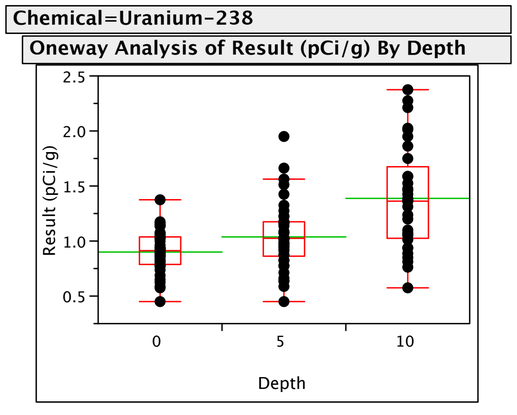
FIGURE G-4 (Continued)

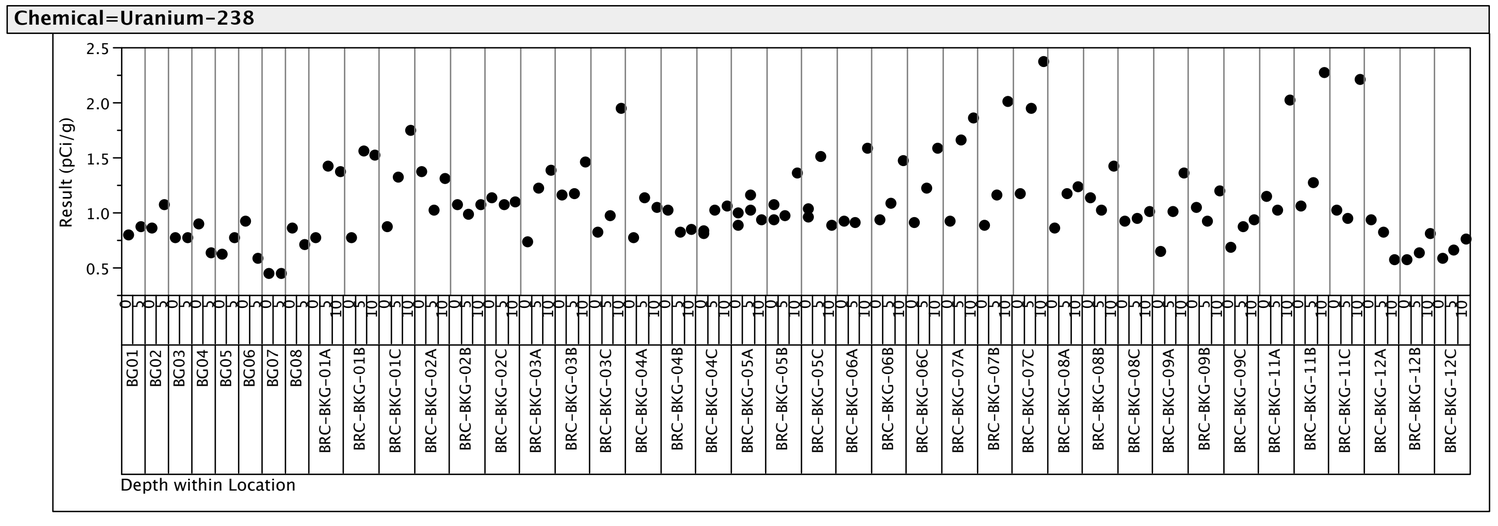
COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY DEPTH





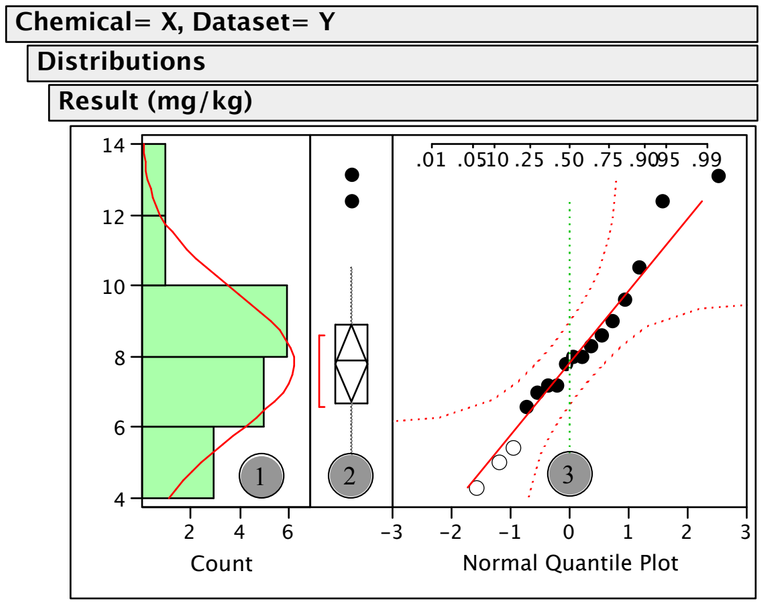


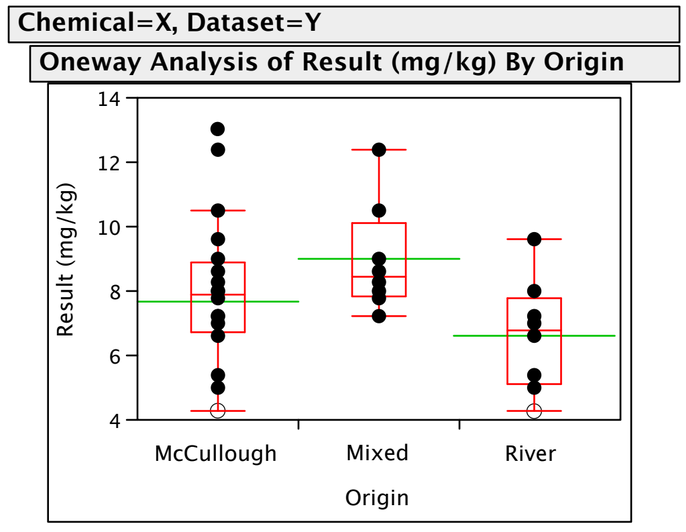




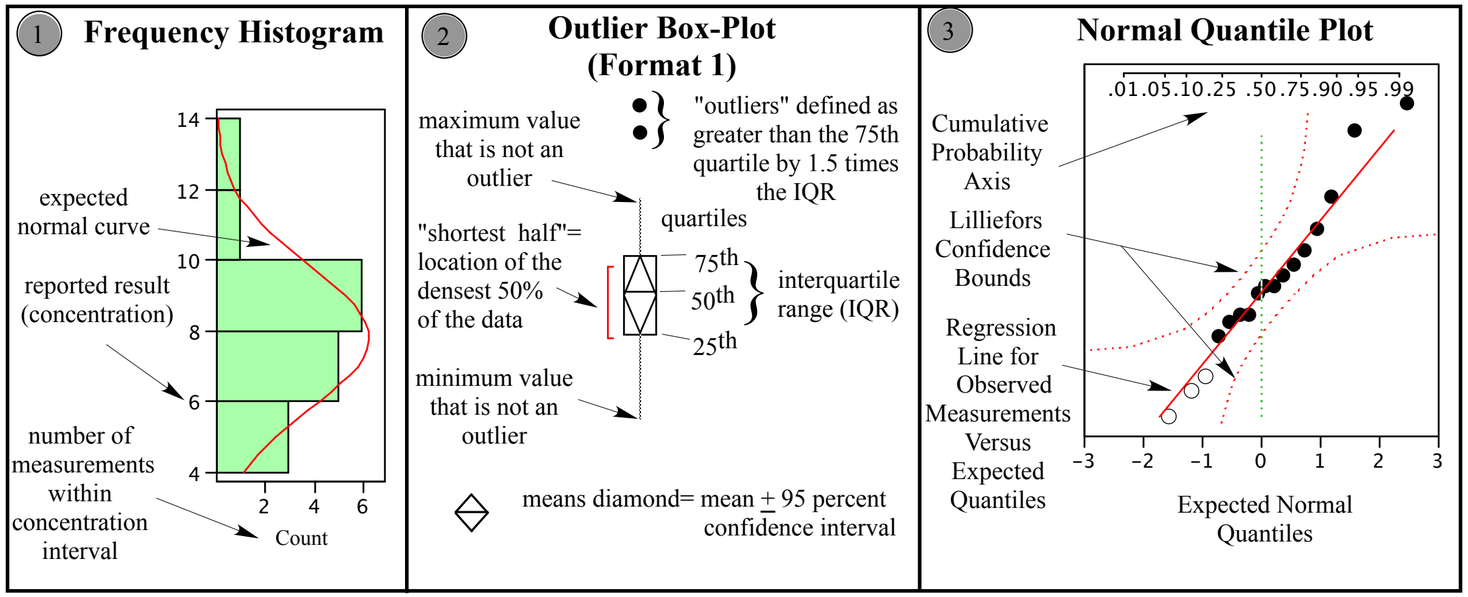
KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-5

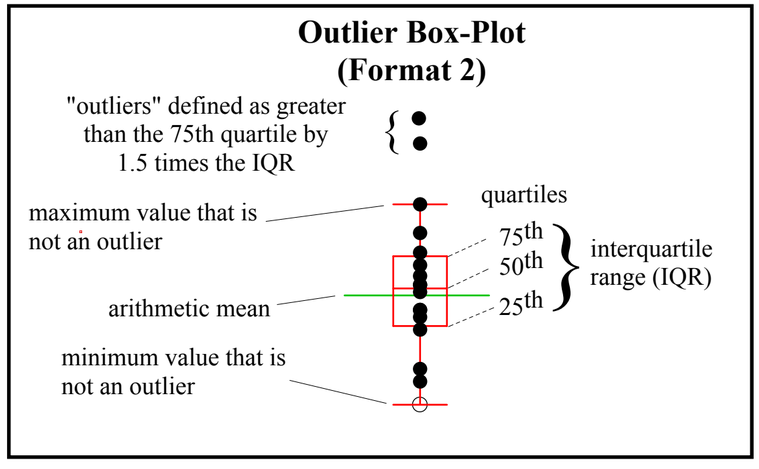
Example Figures From Appendix





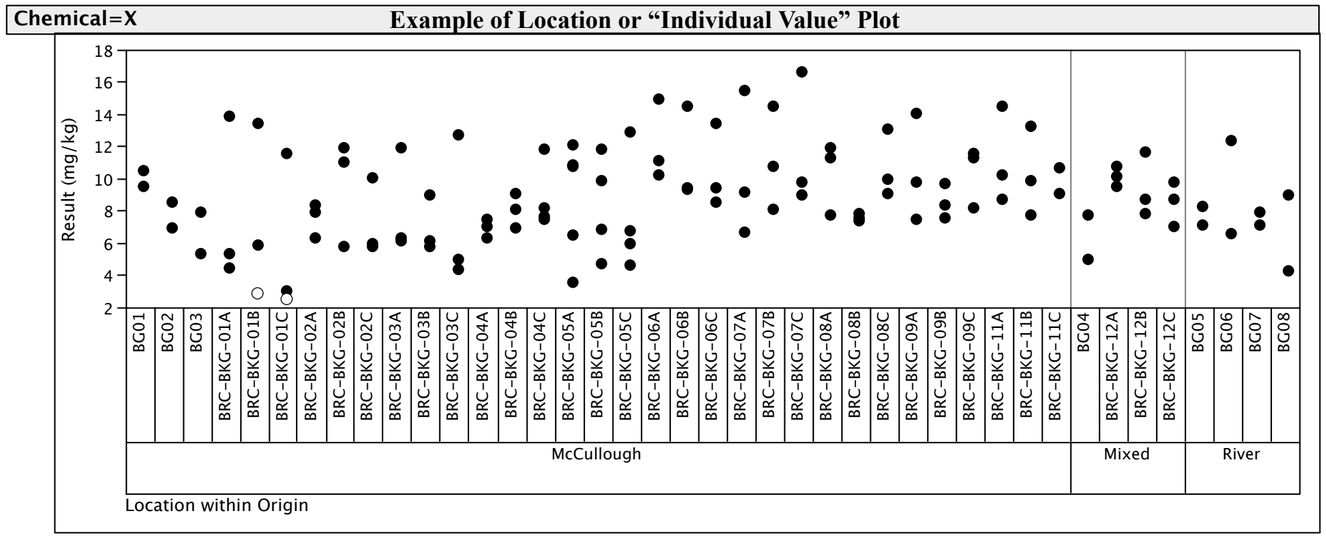
Keys to Individual Figure Panels





detected result

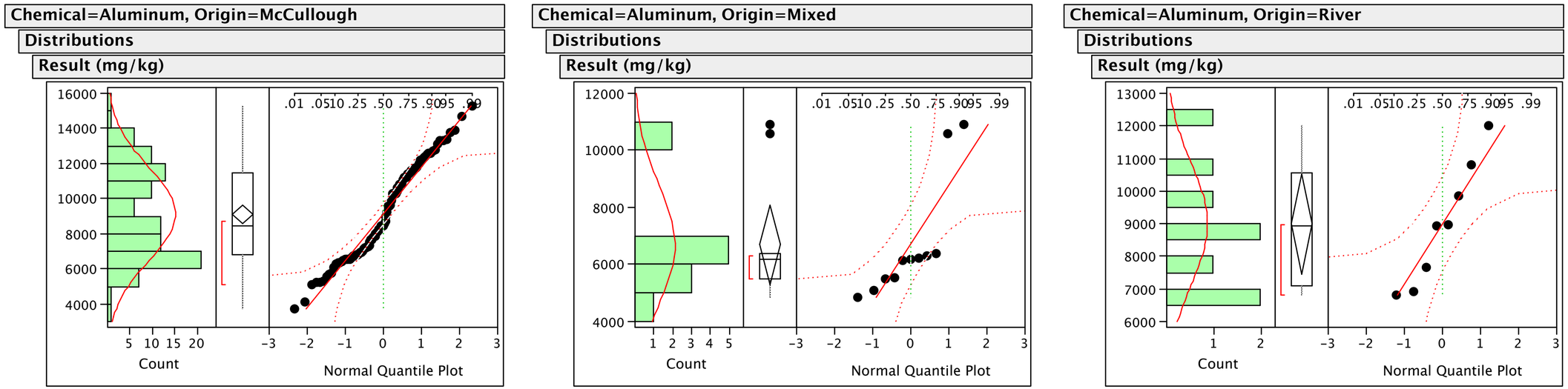
censored result

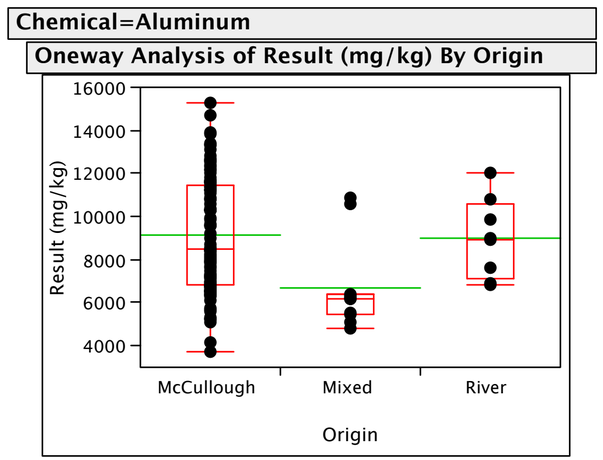


Results are Plottted for Individual Locations and Grouped by Soil Origin

FIGURE G-5

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





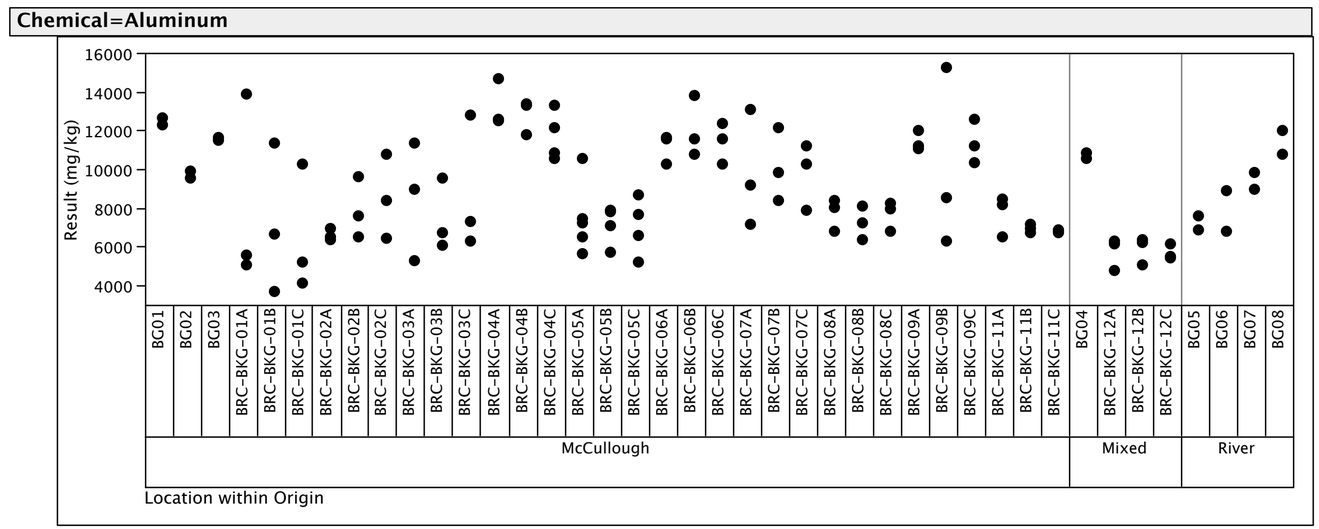
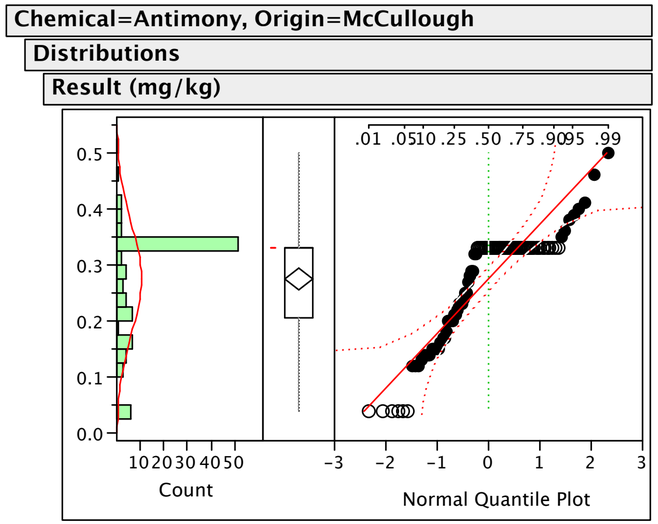
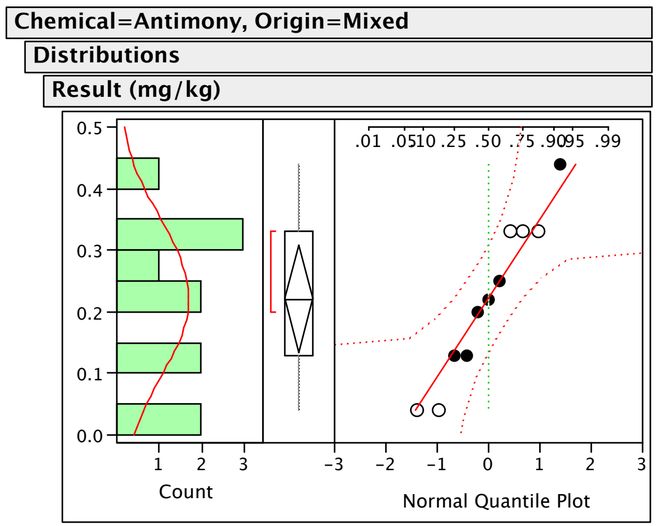
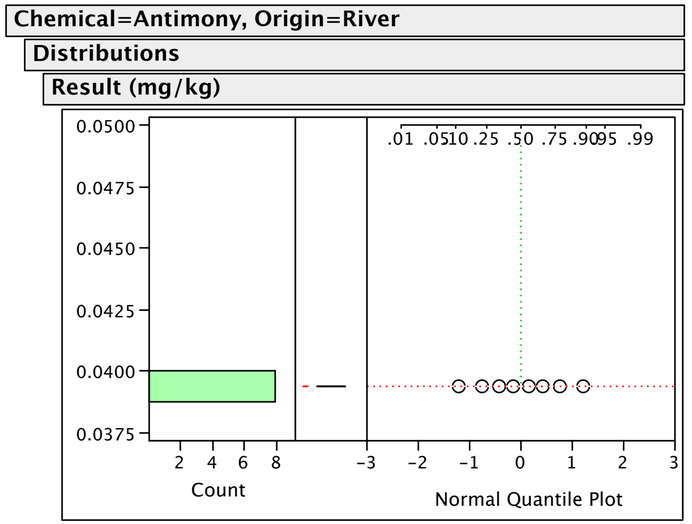


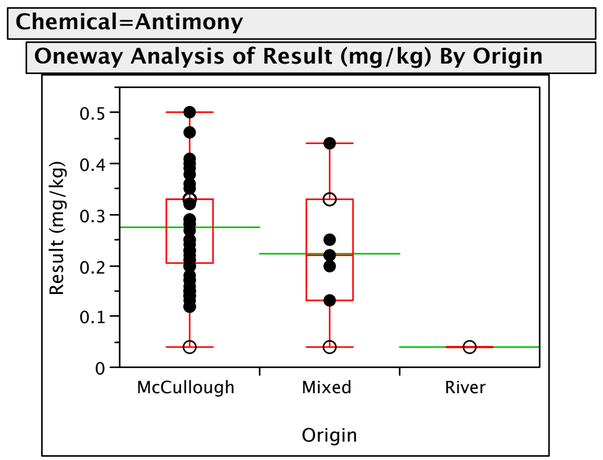
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









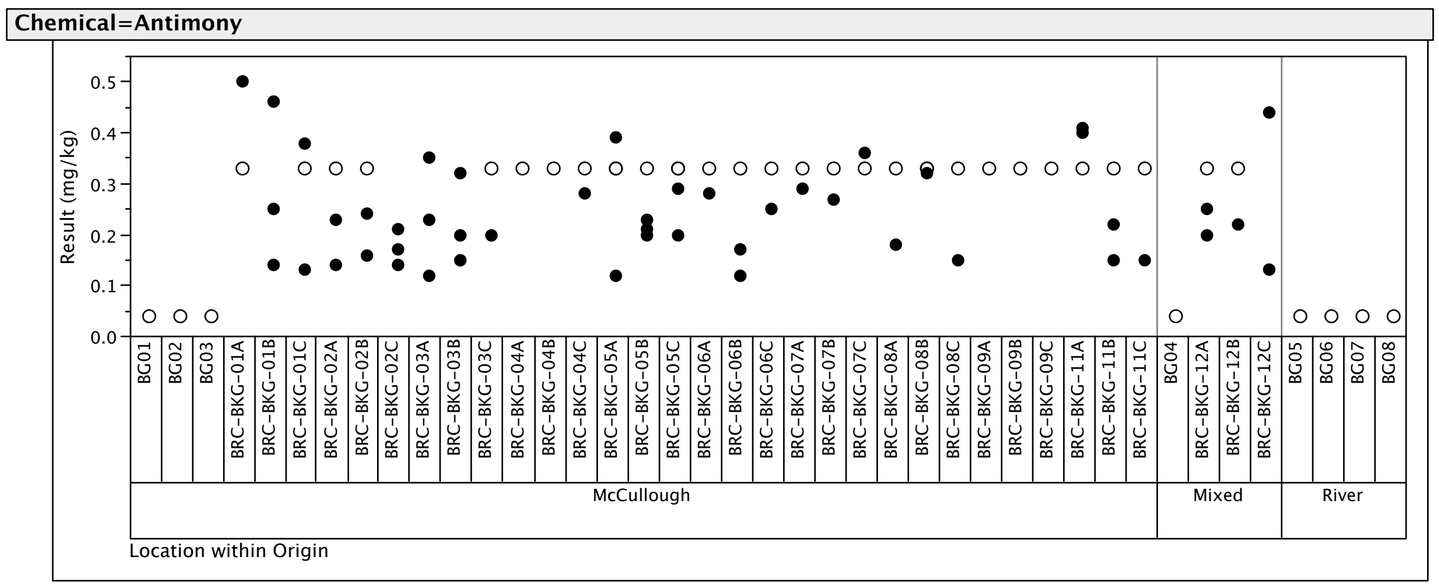
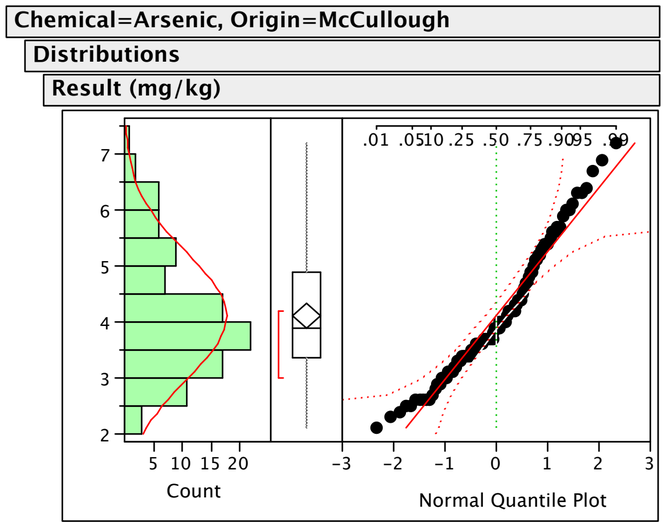
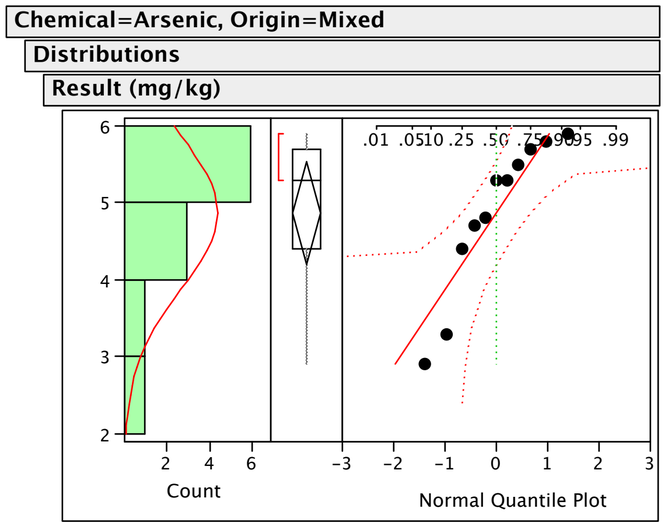
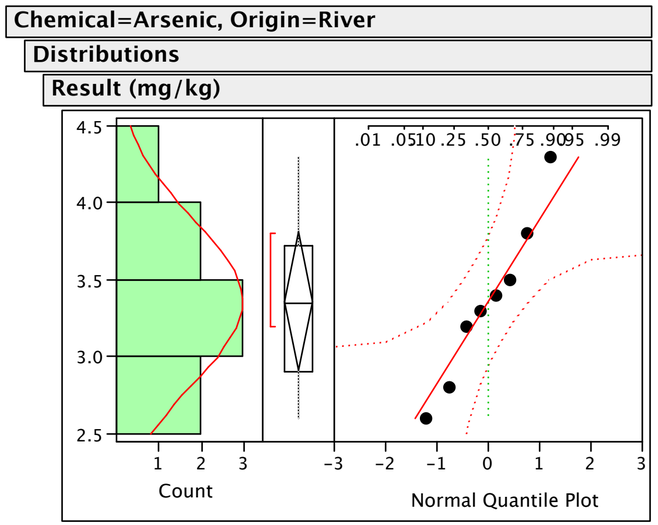


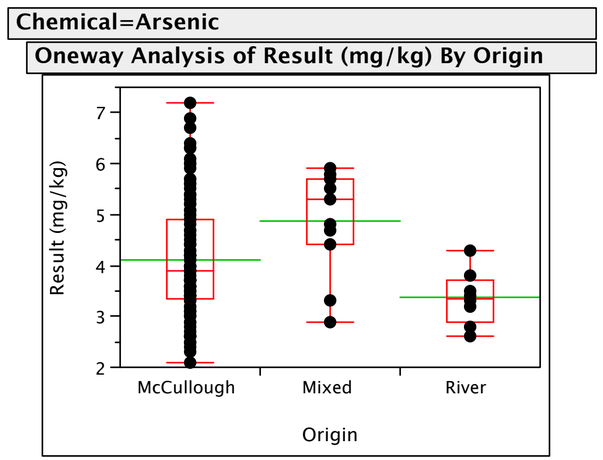
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









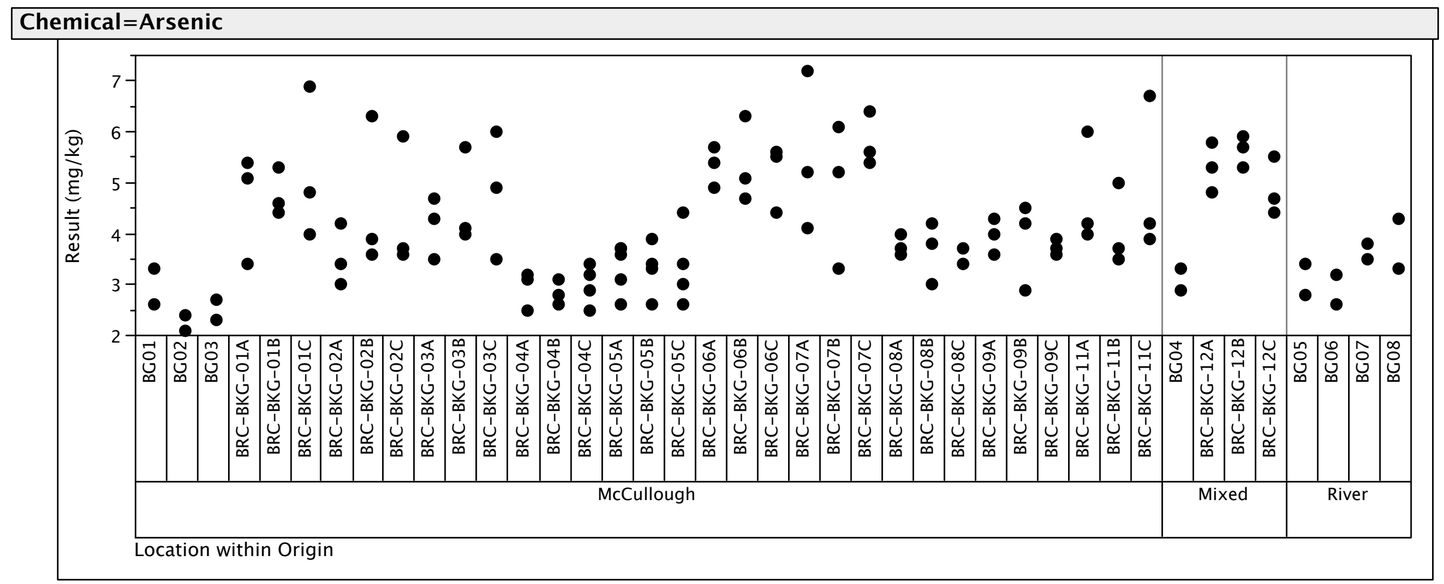
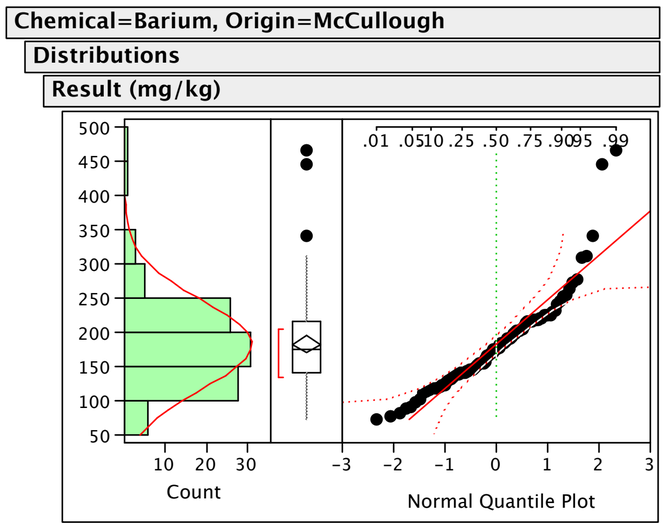
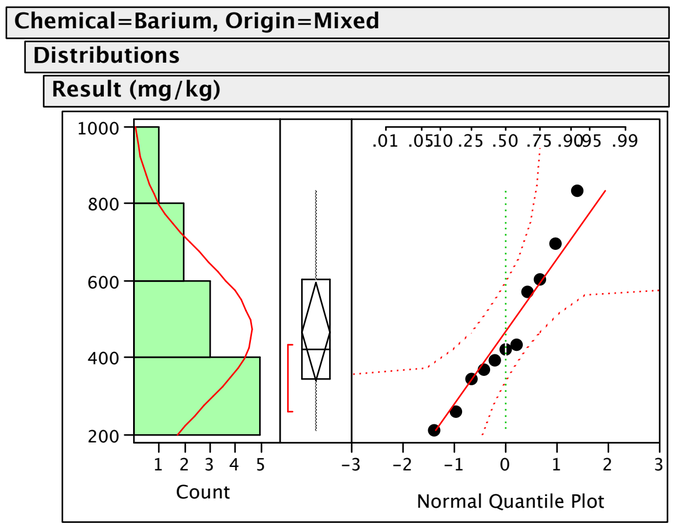
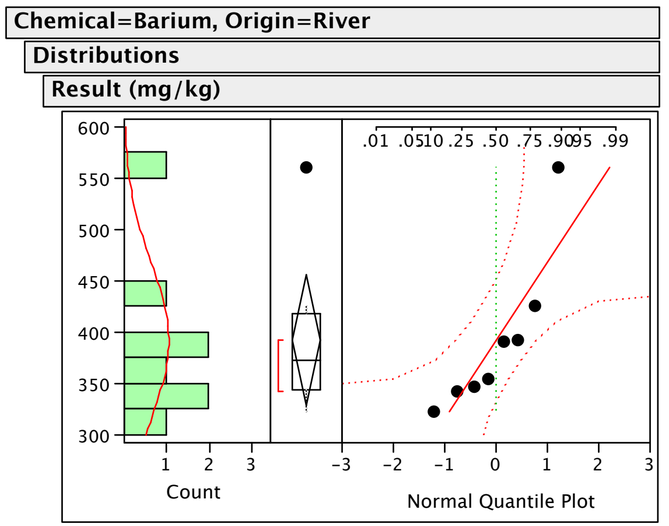


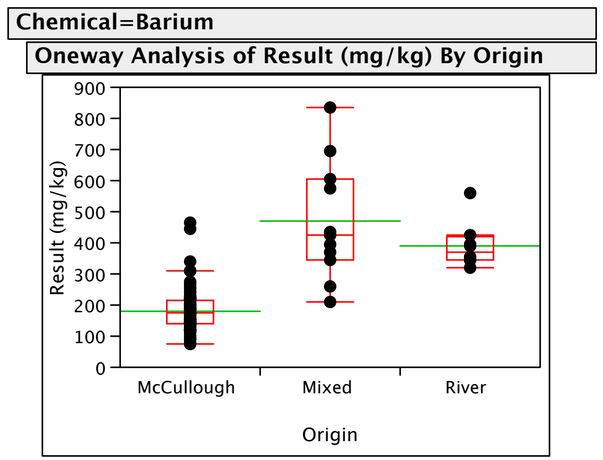
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









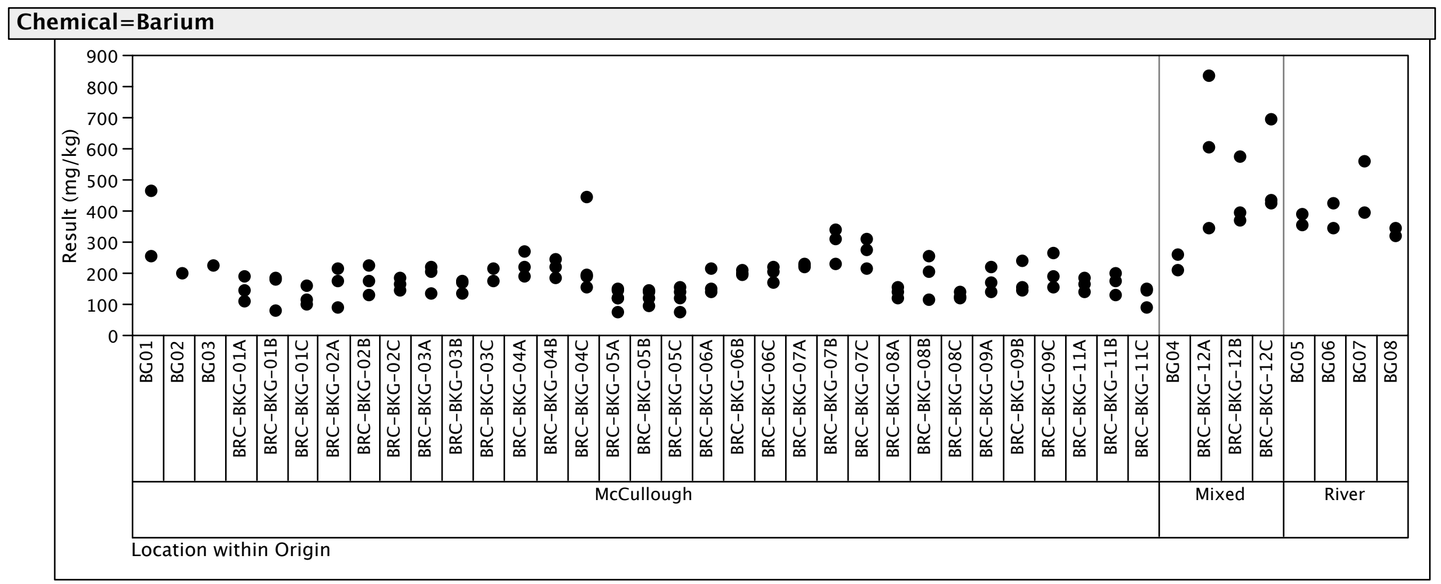
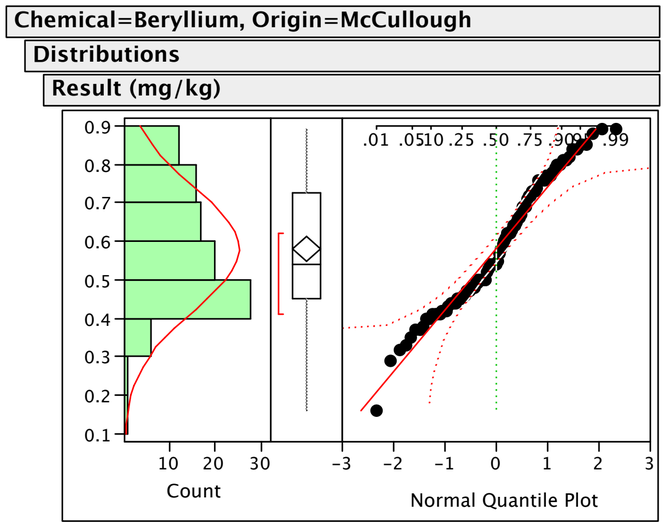
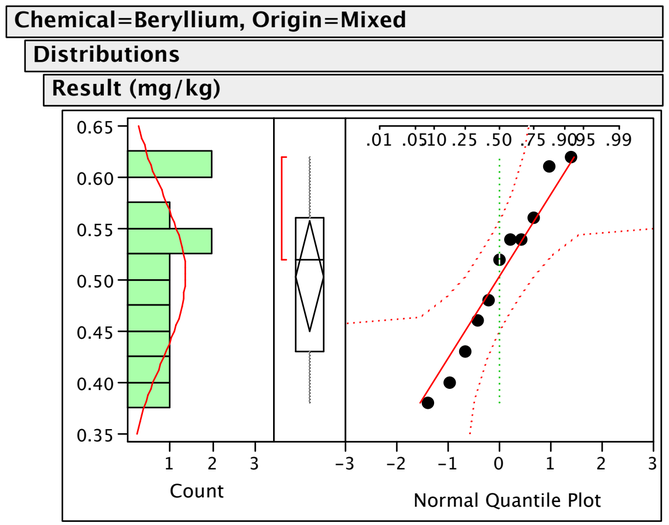
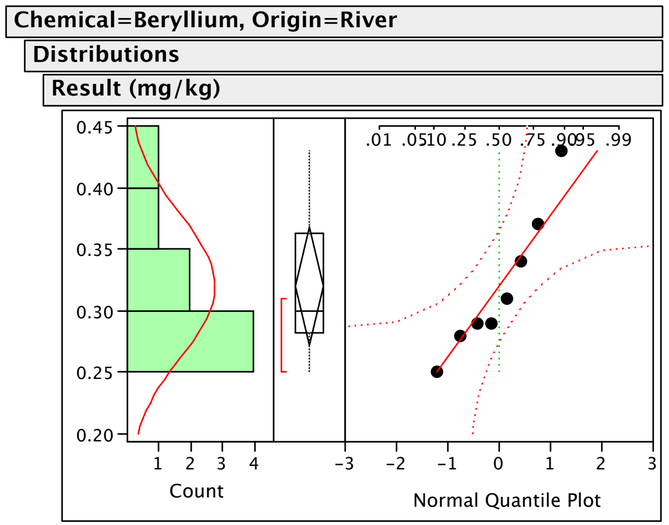


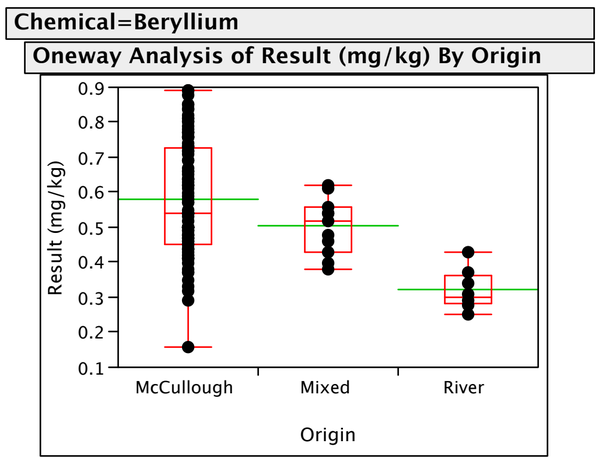
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









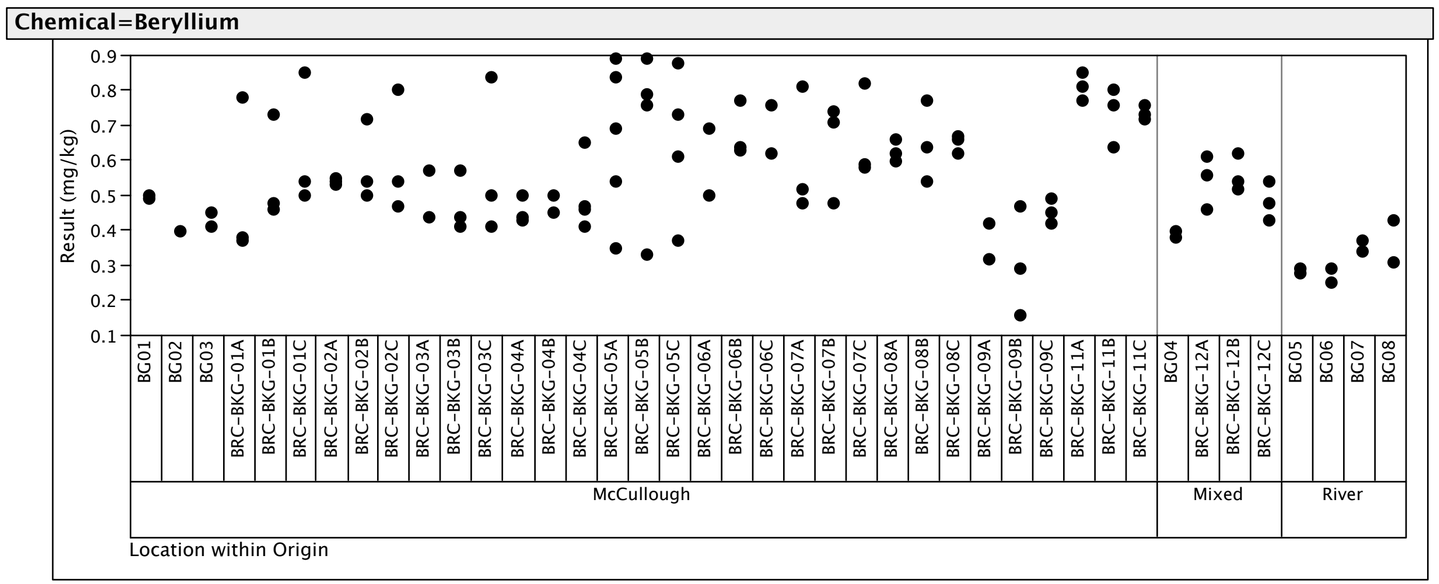
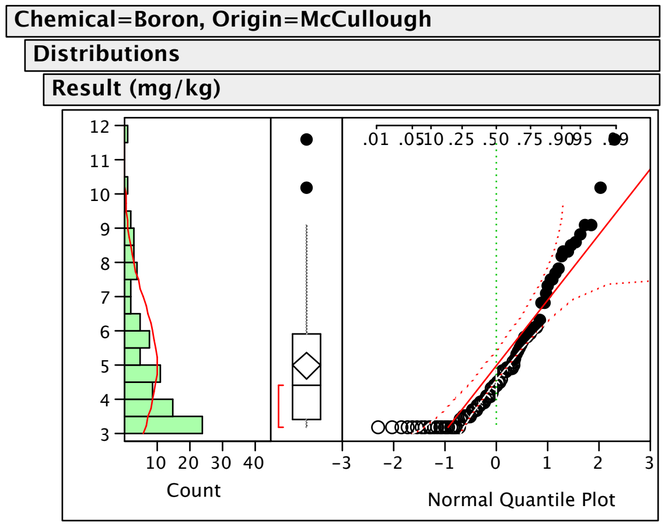
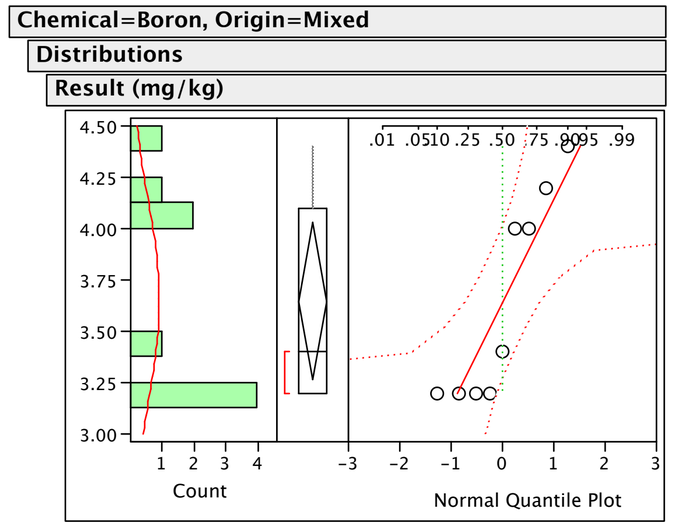
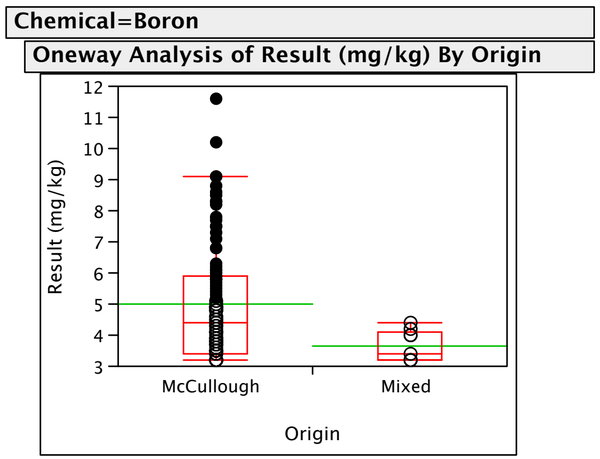


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







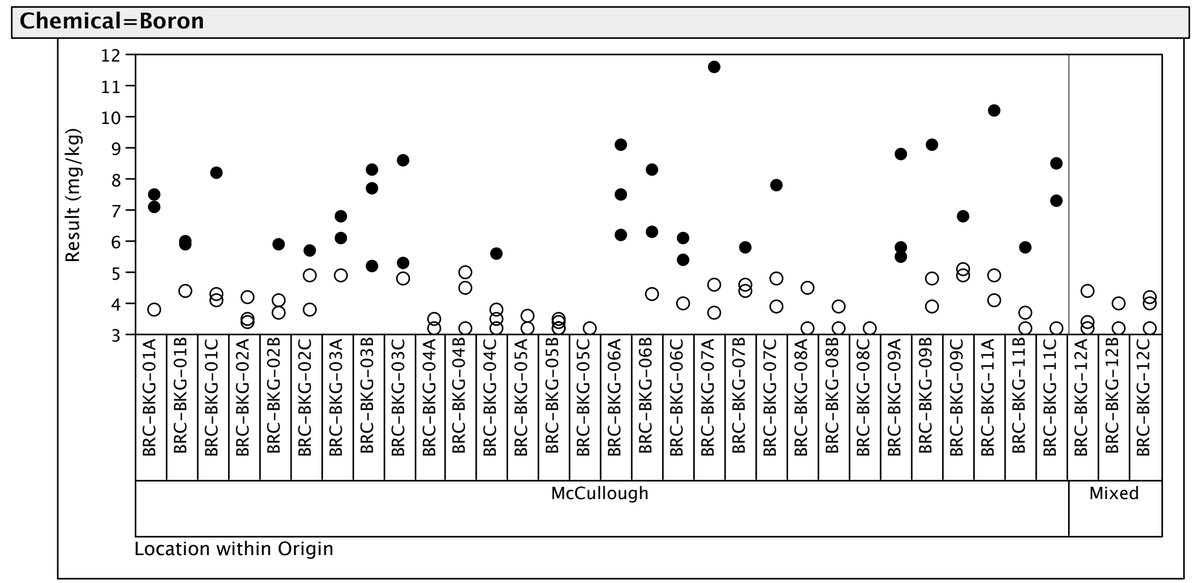
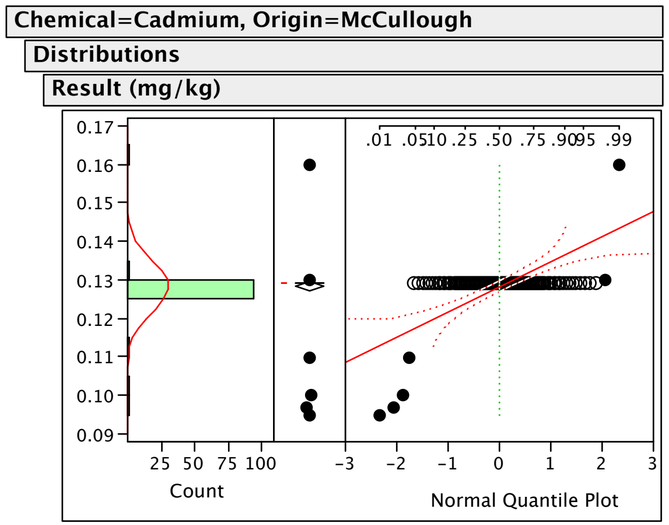
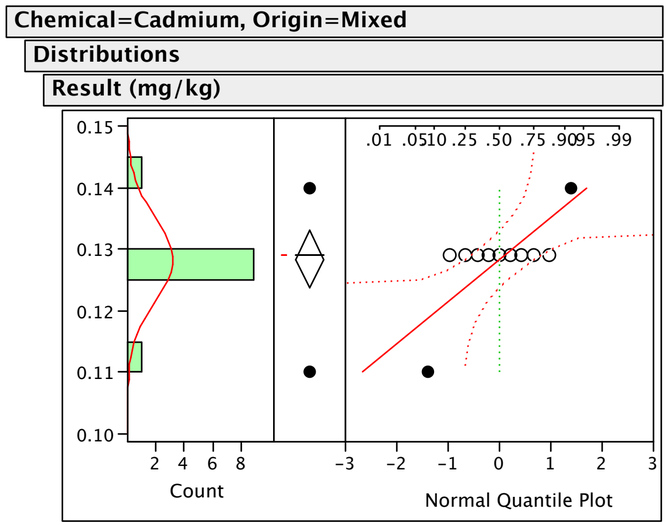
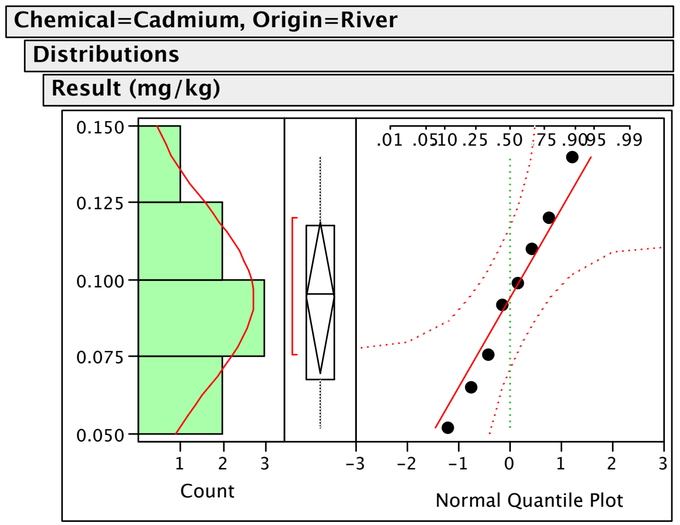


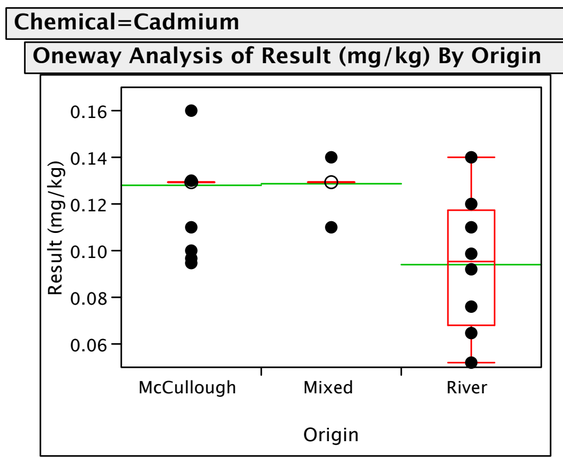
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









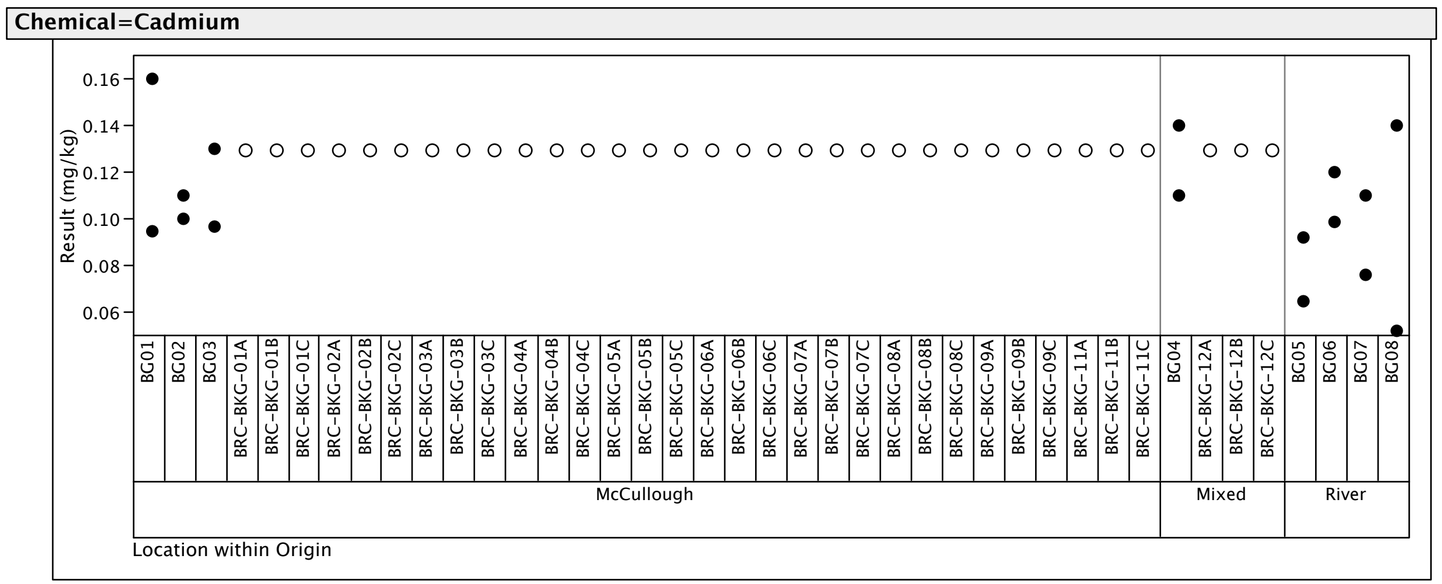
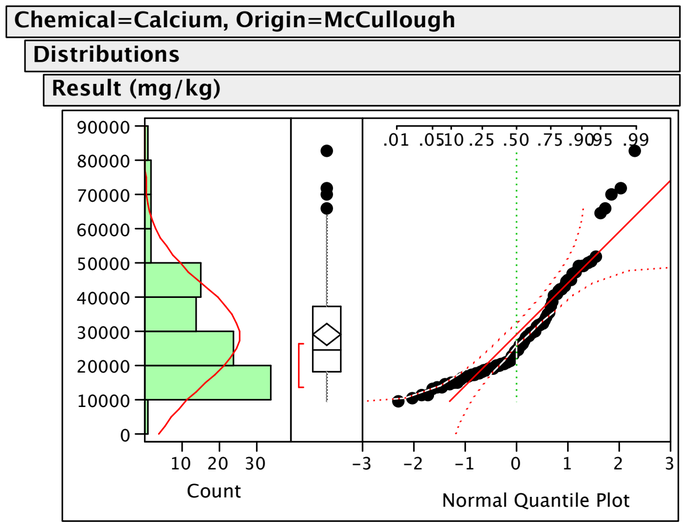
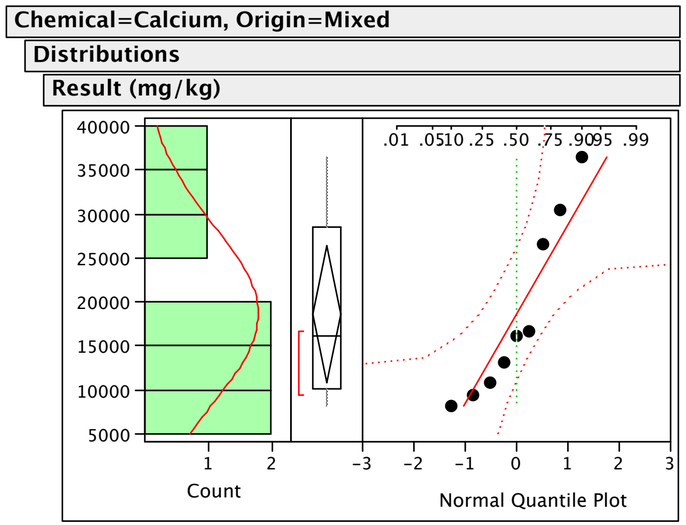
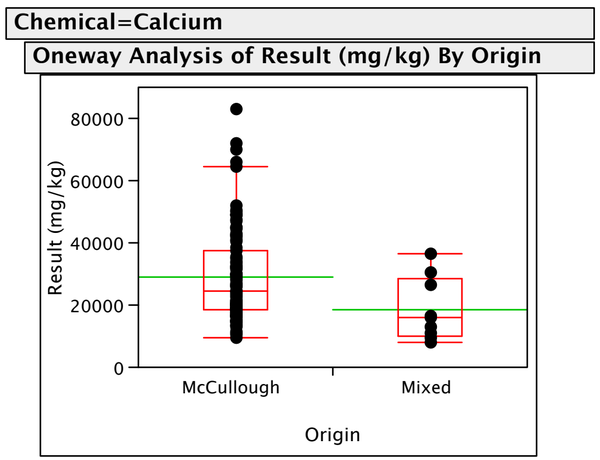


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







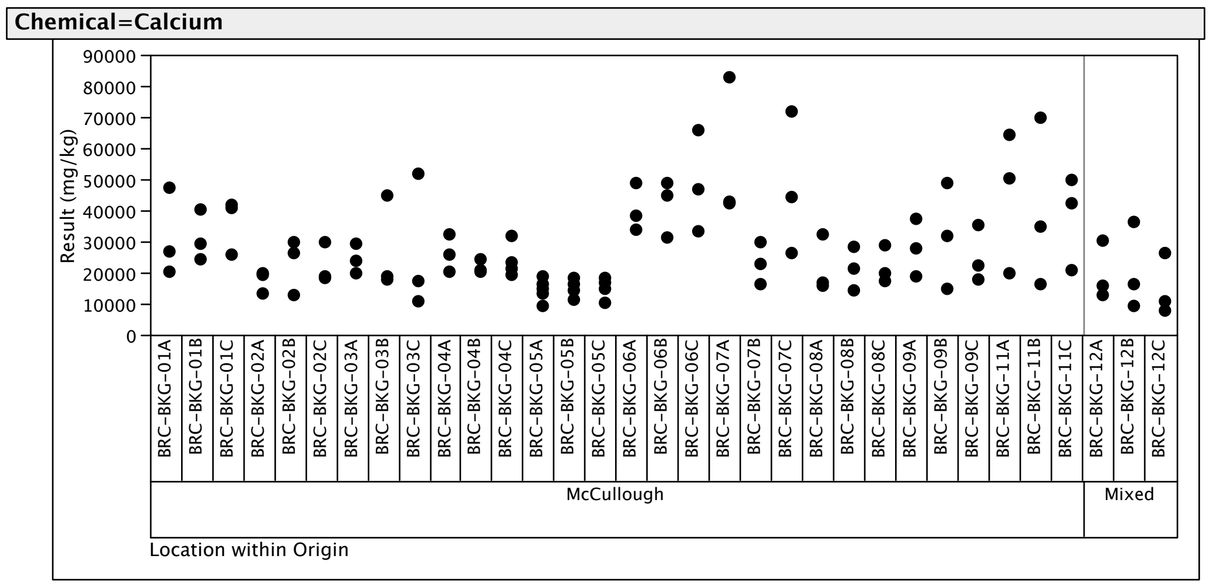
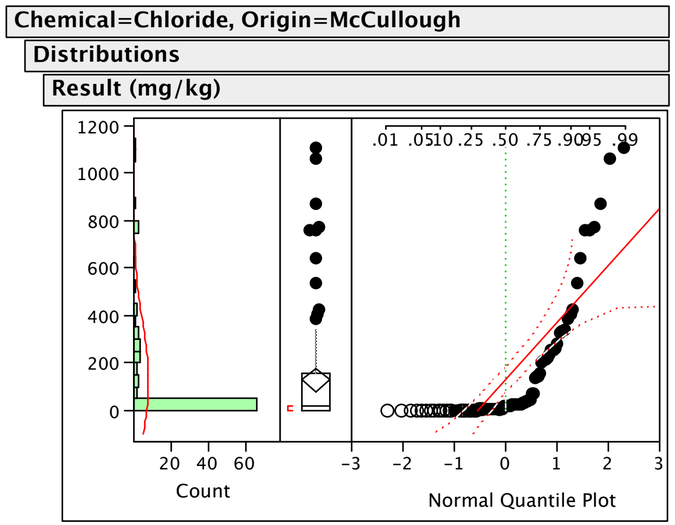
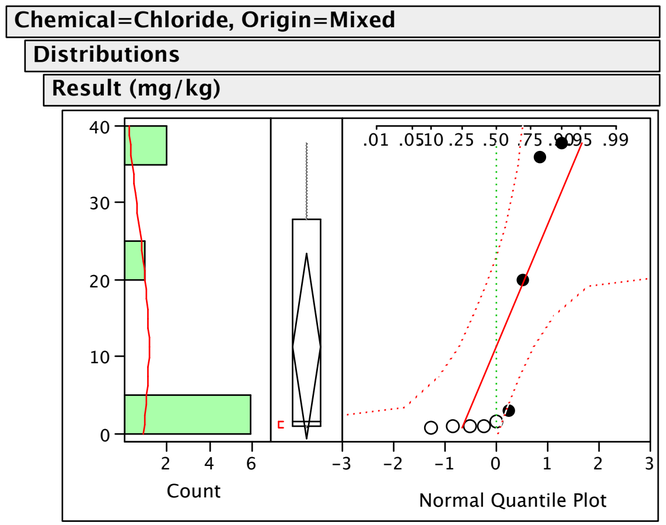
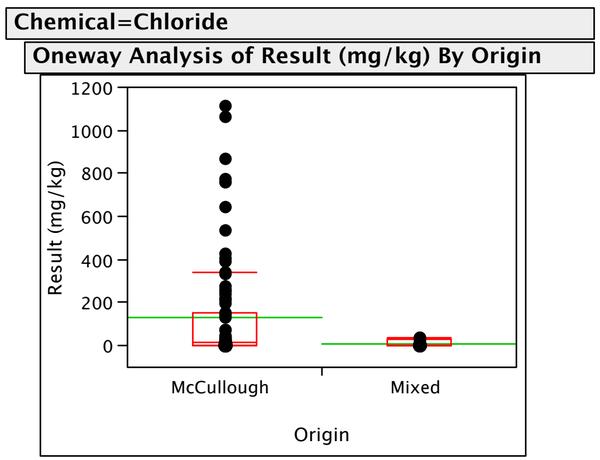


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







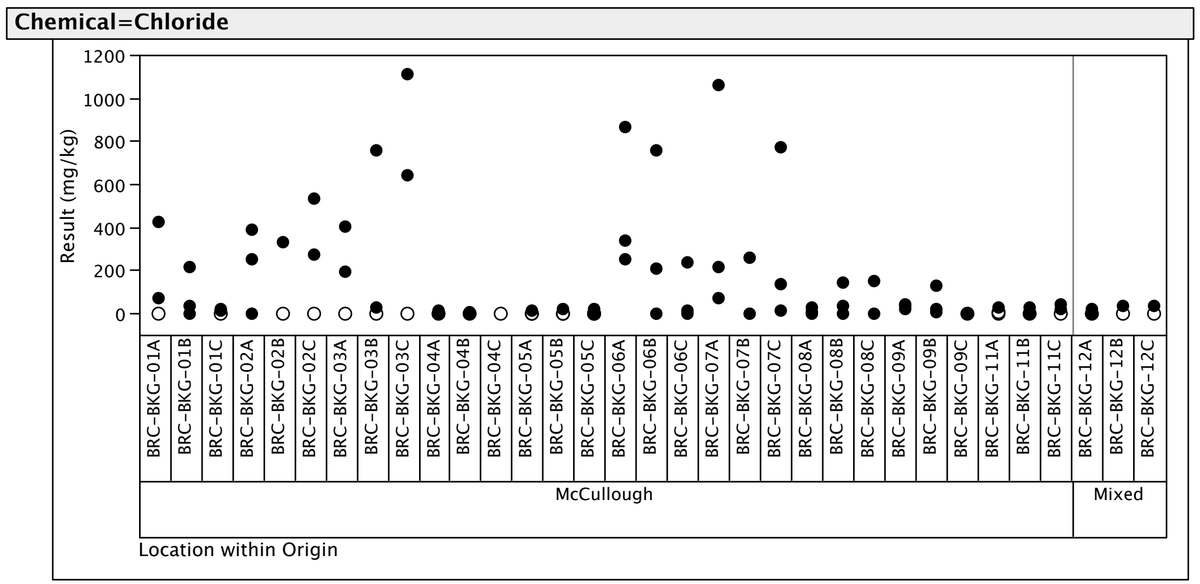
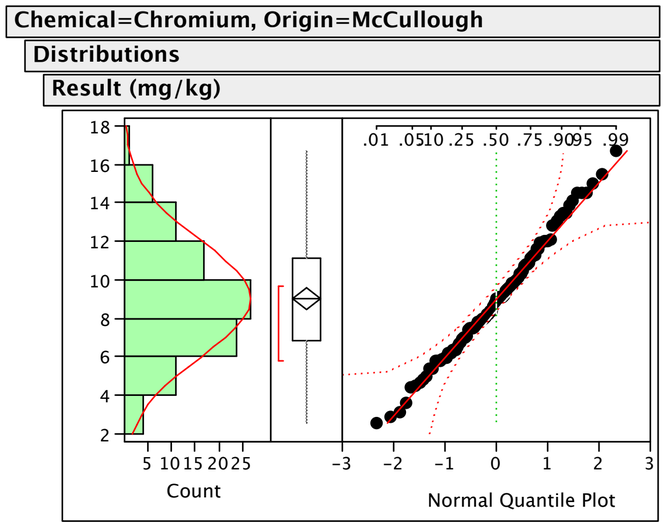
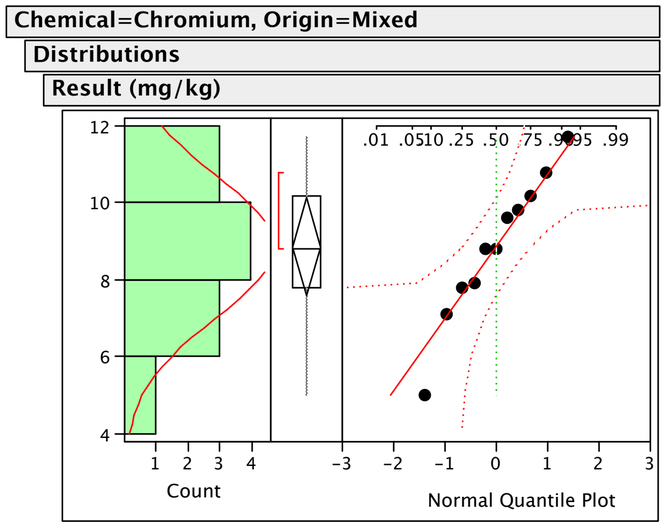
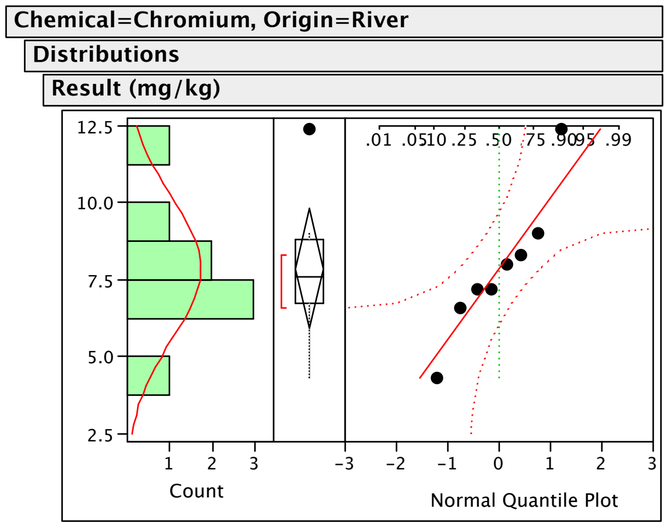


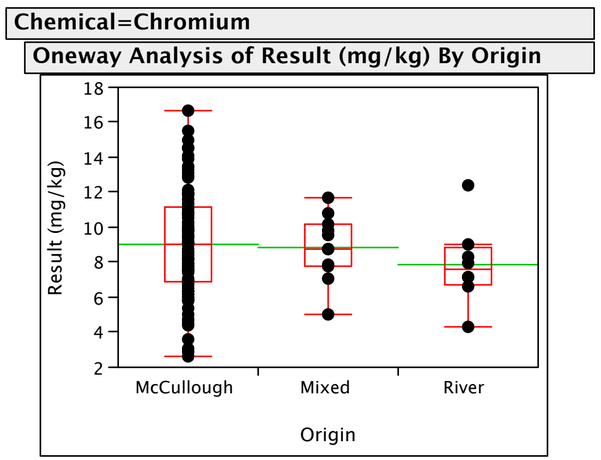
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









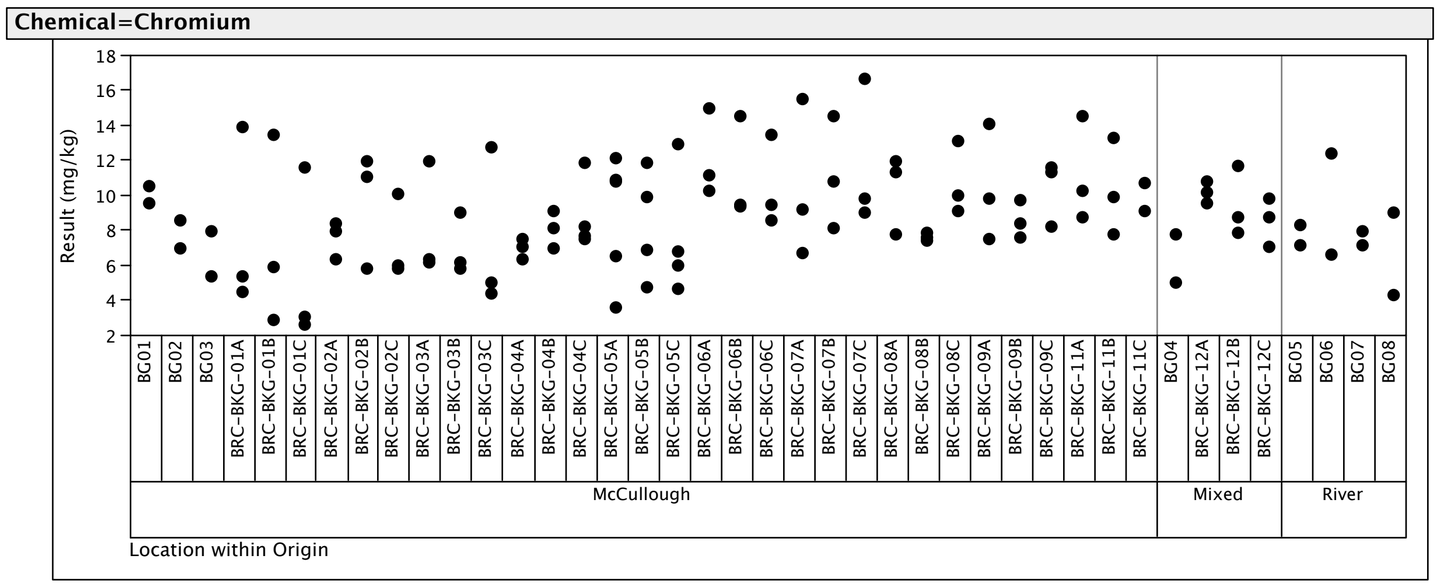
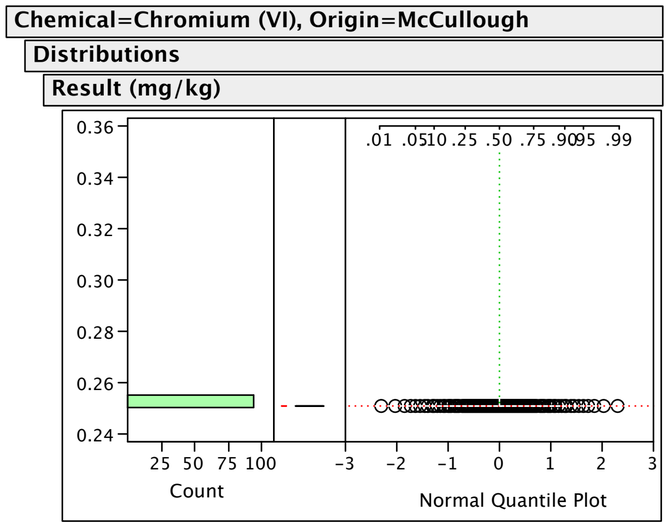
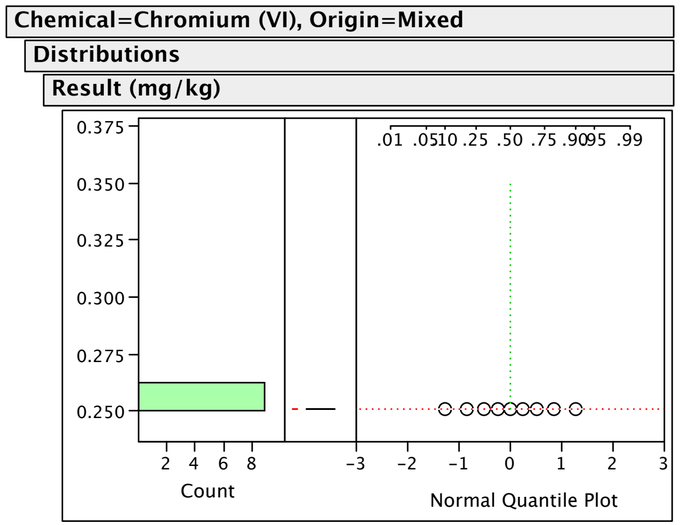
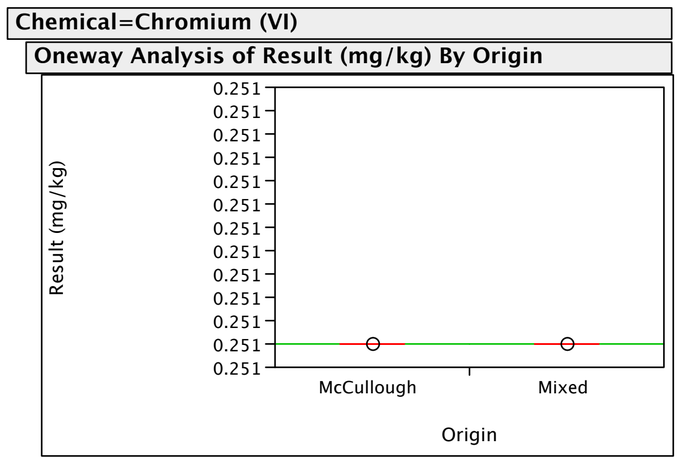


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







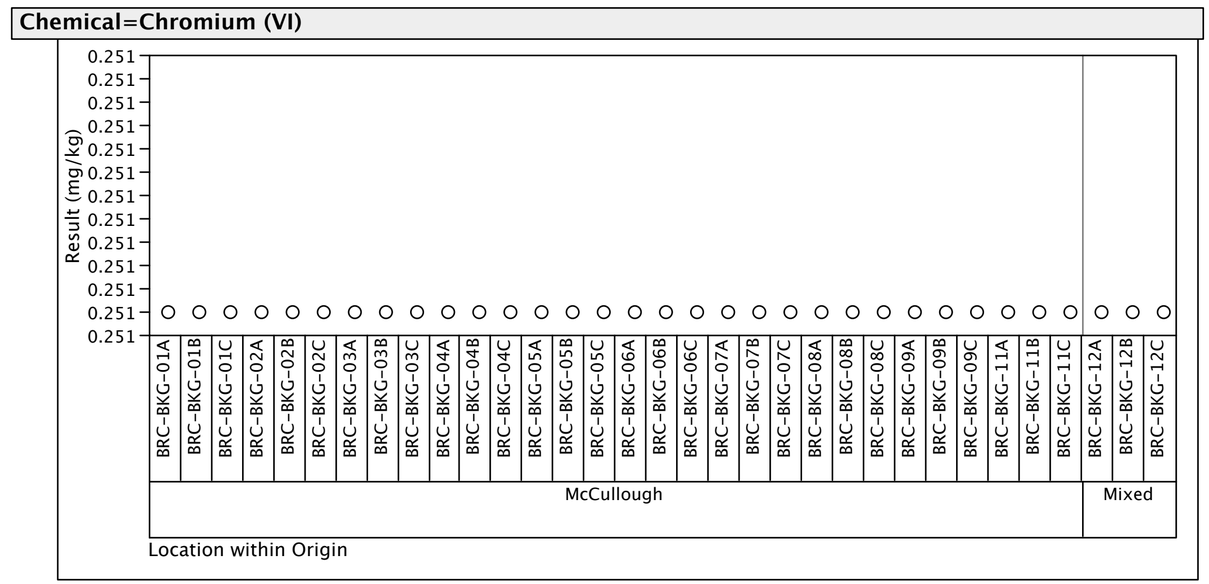
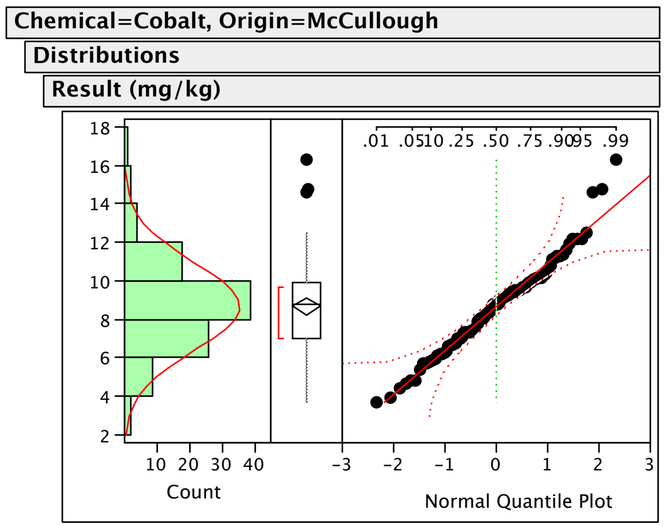
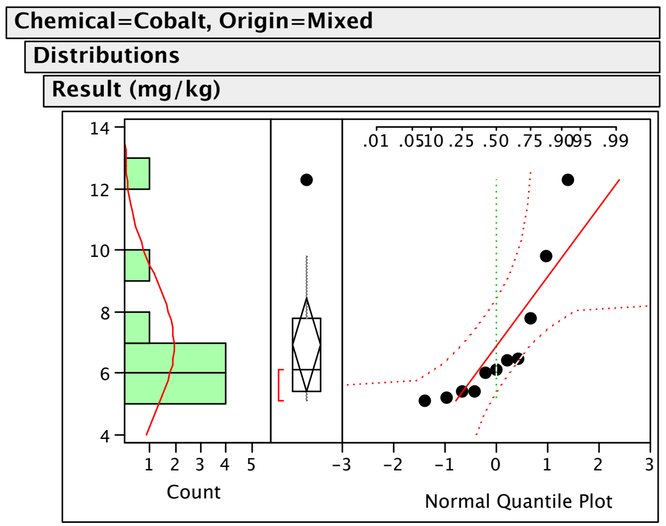
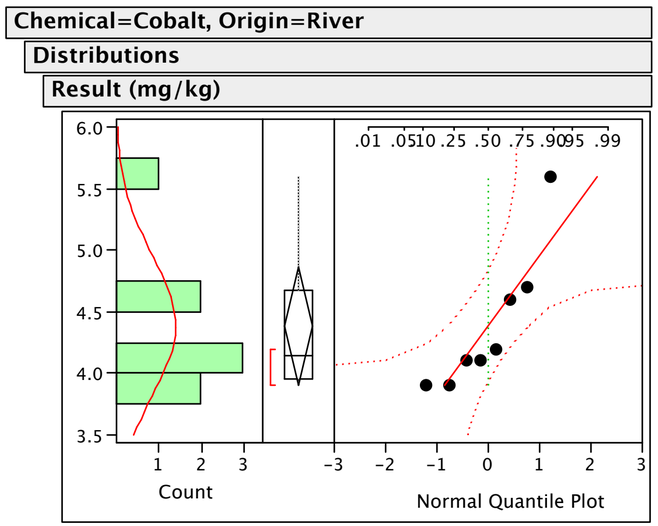


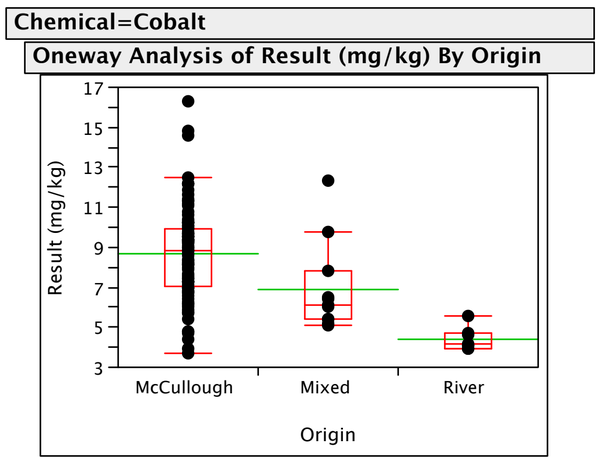
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









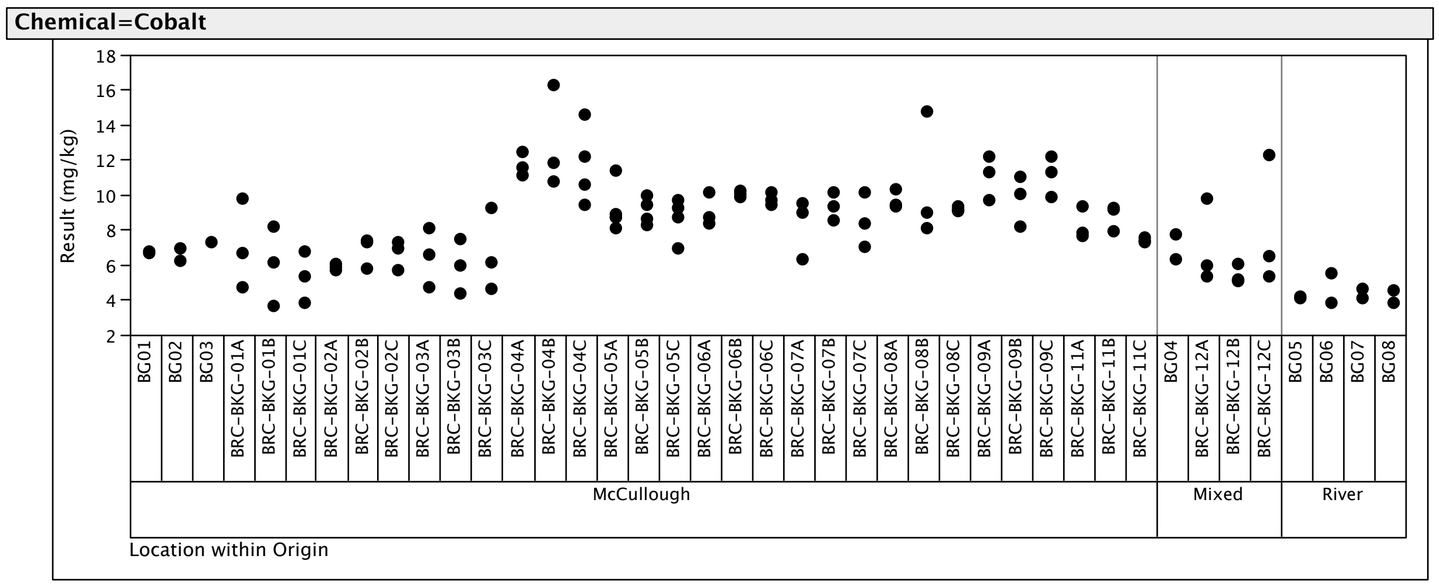
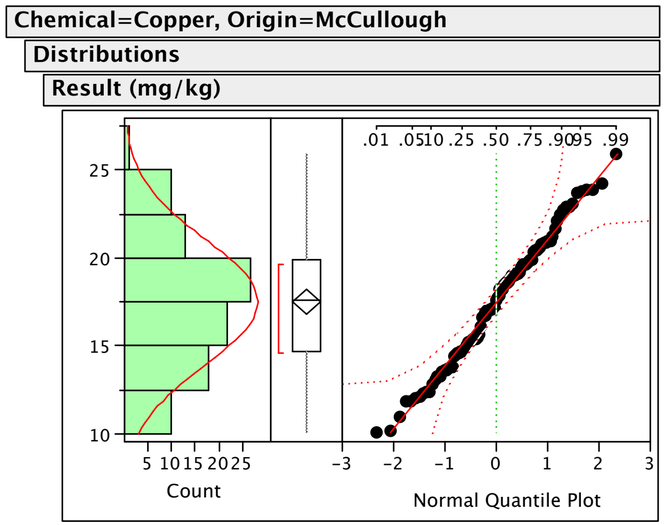
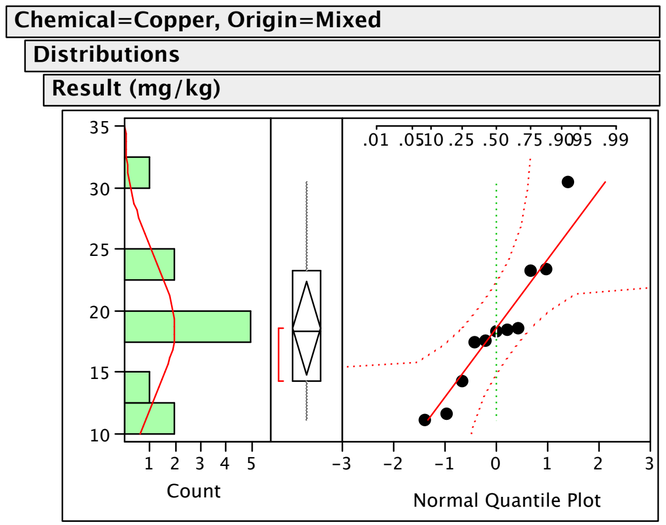
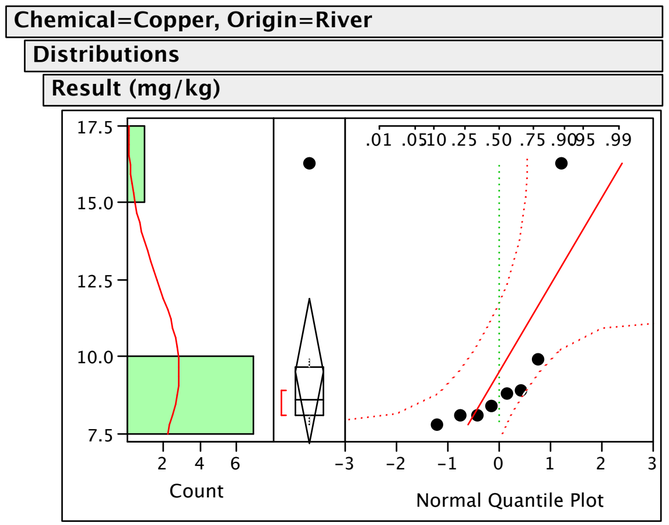


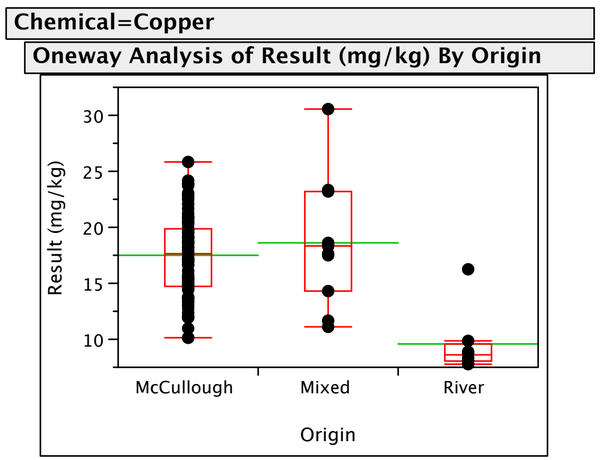
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









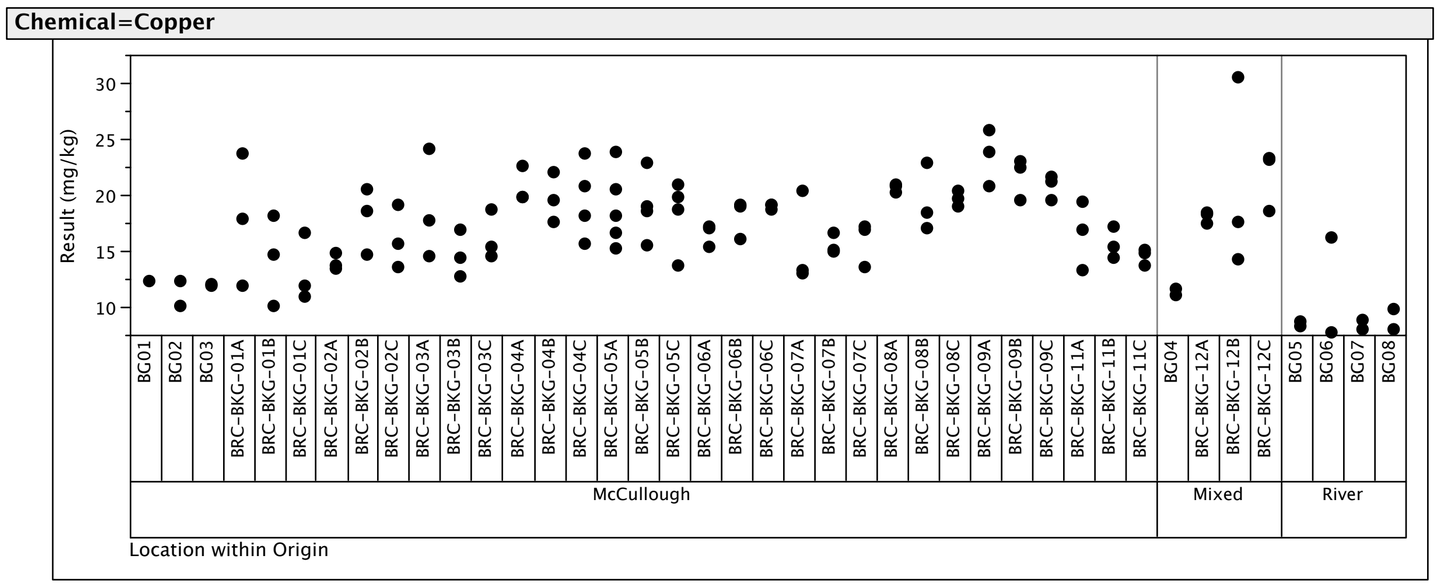
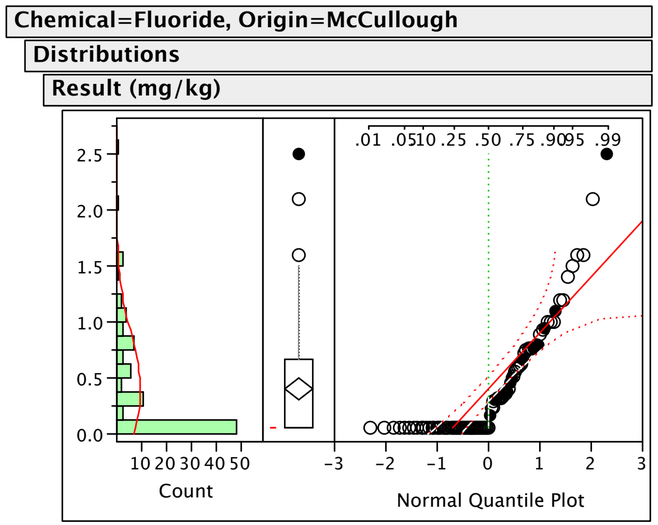
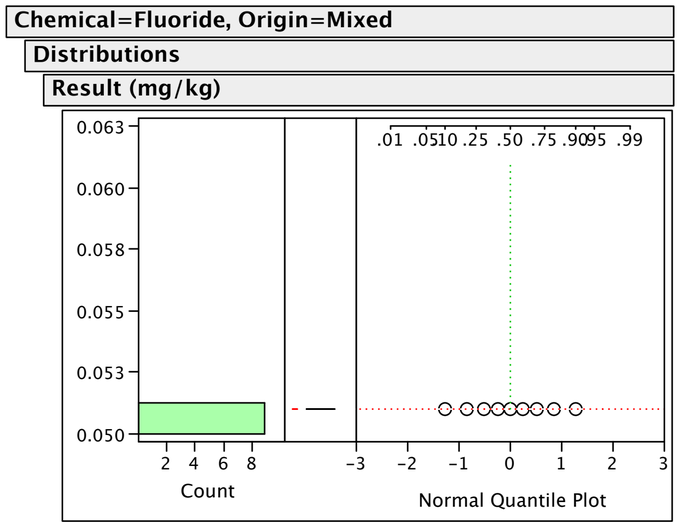
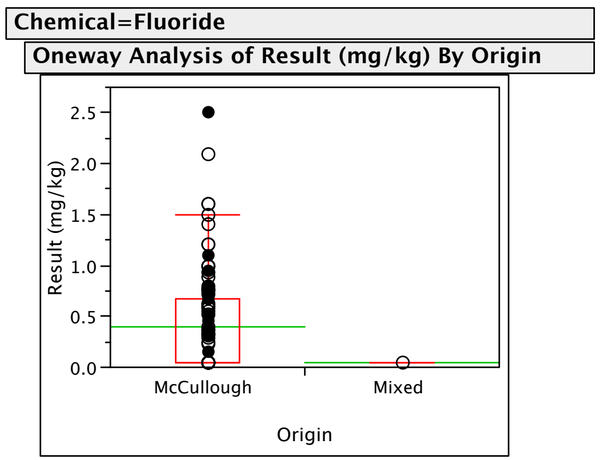


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







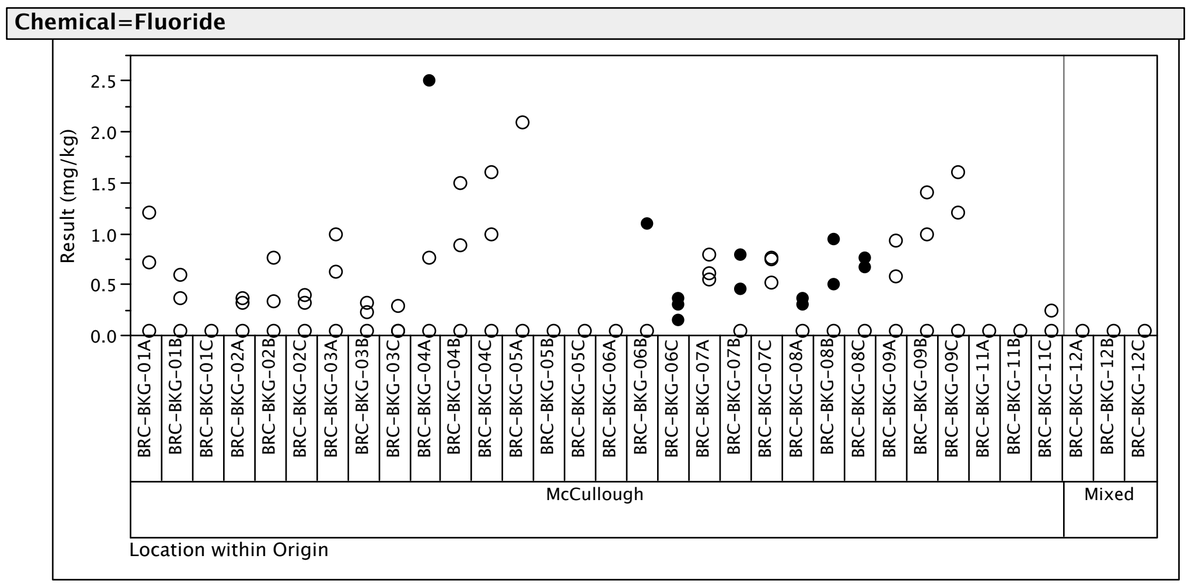
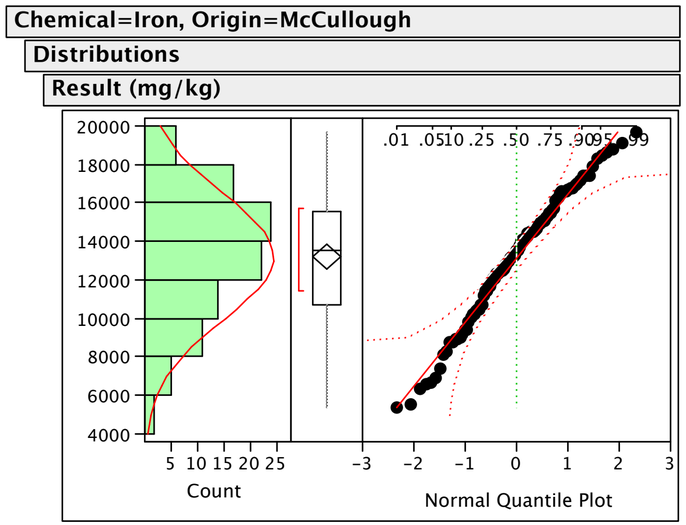
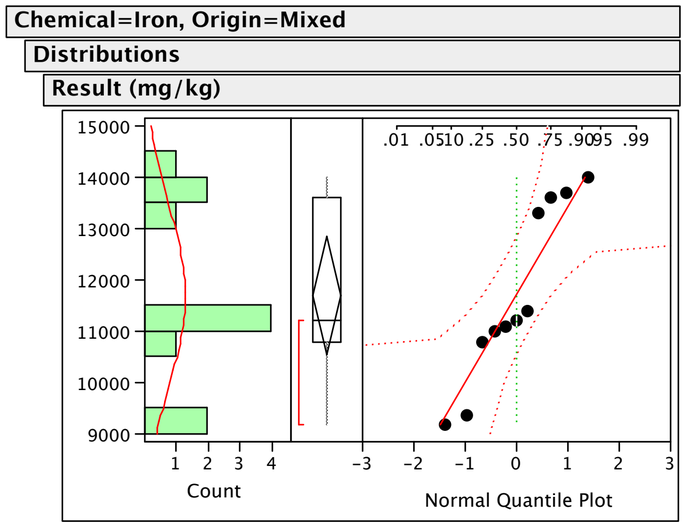
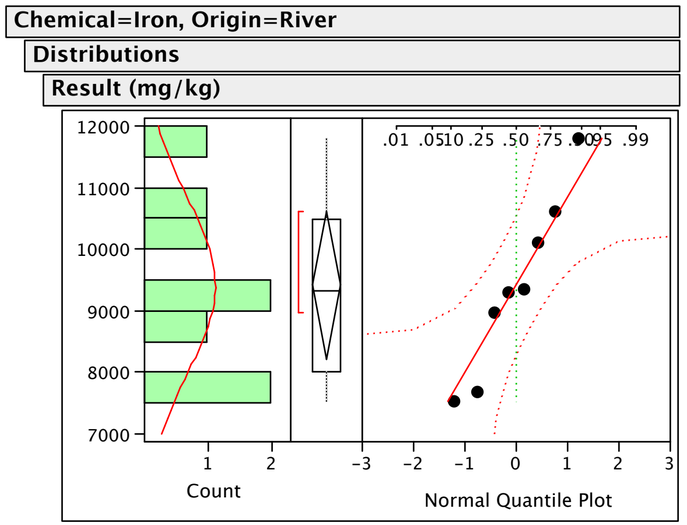


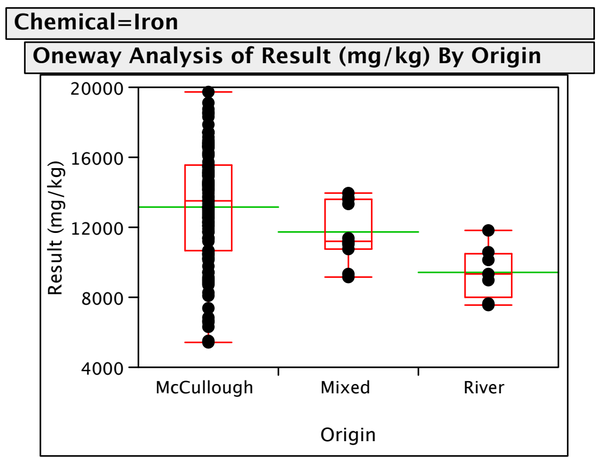
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









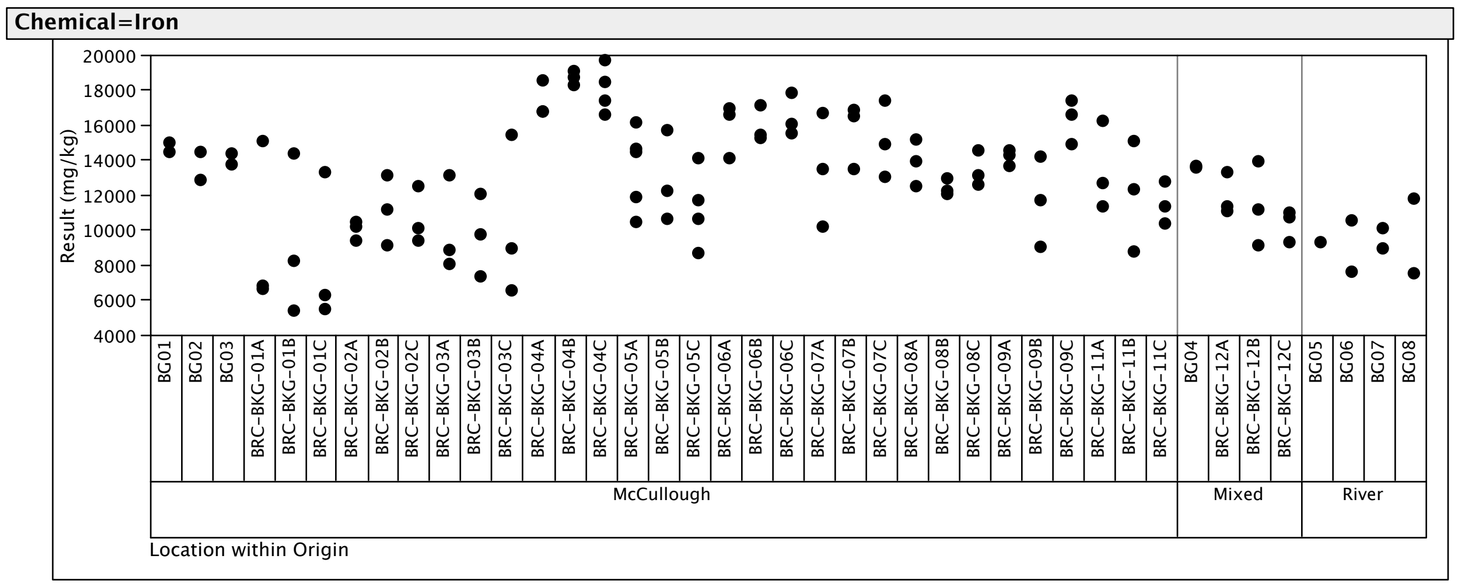
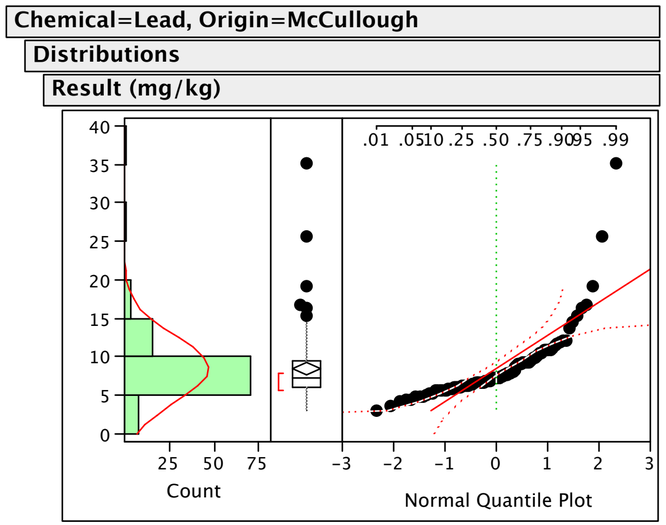
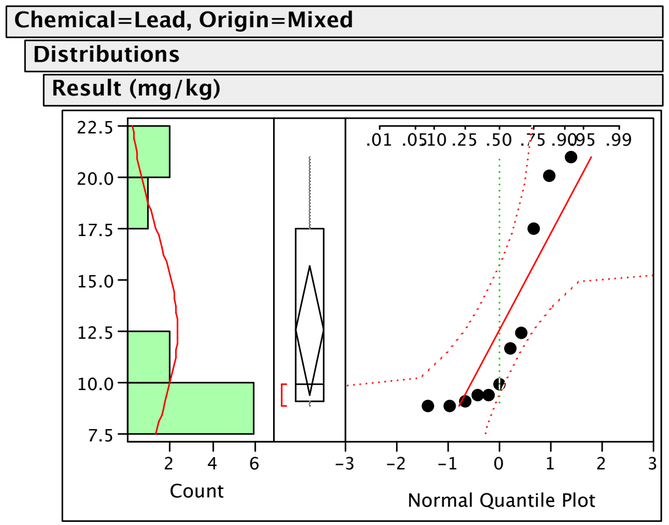
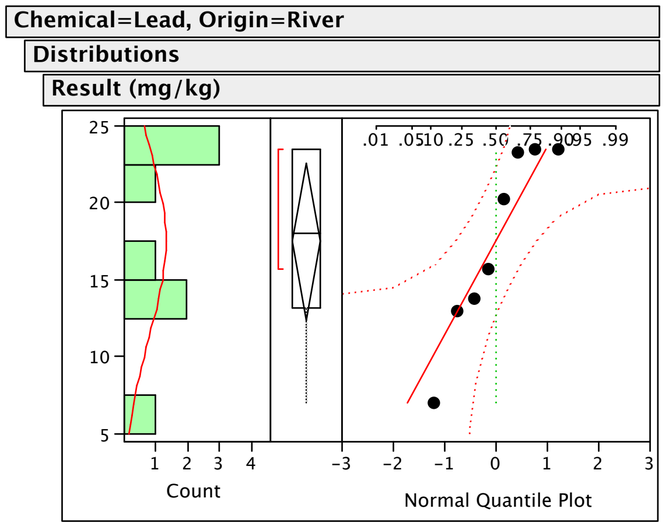


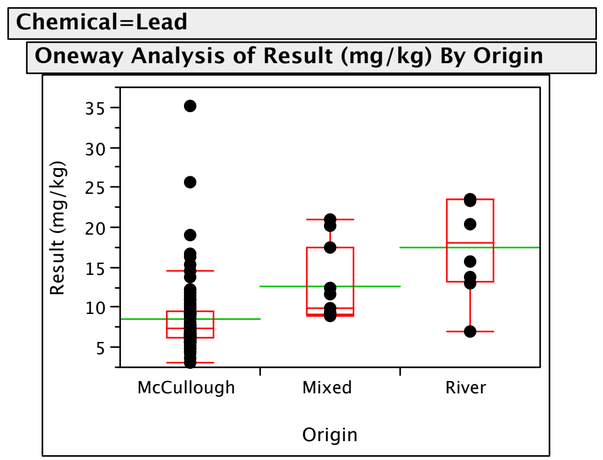
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









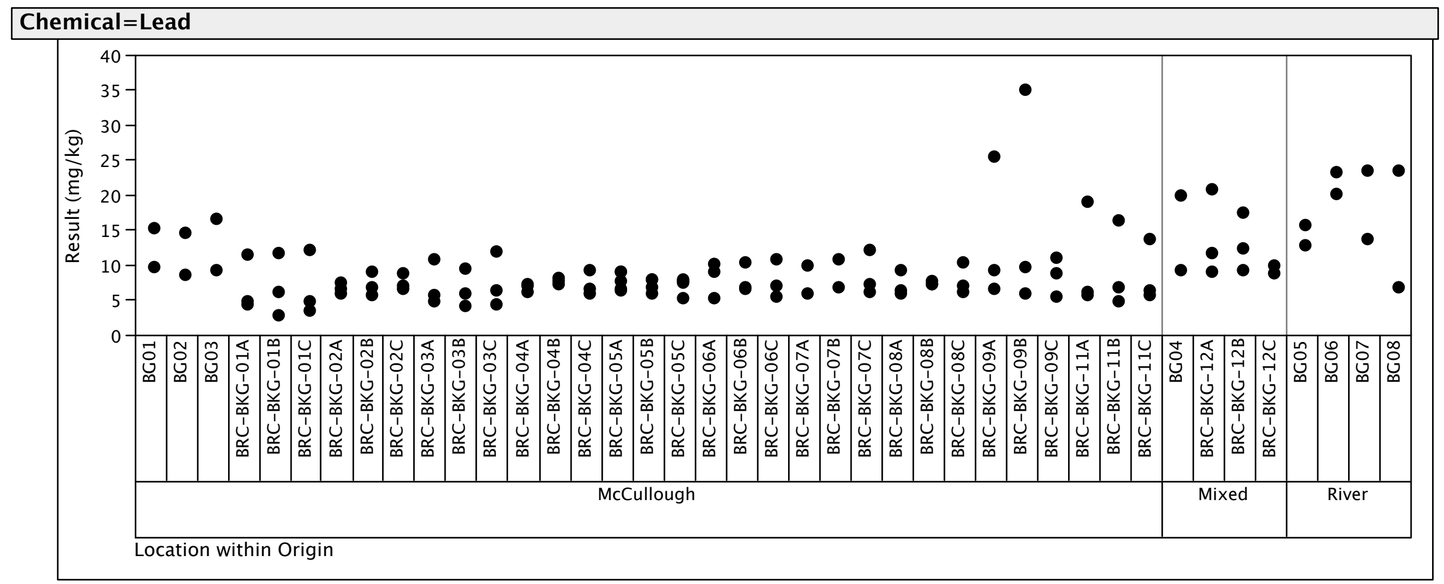
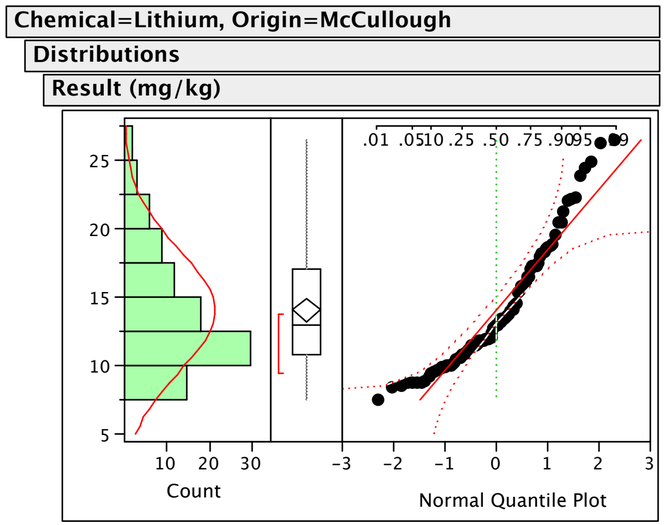
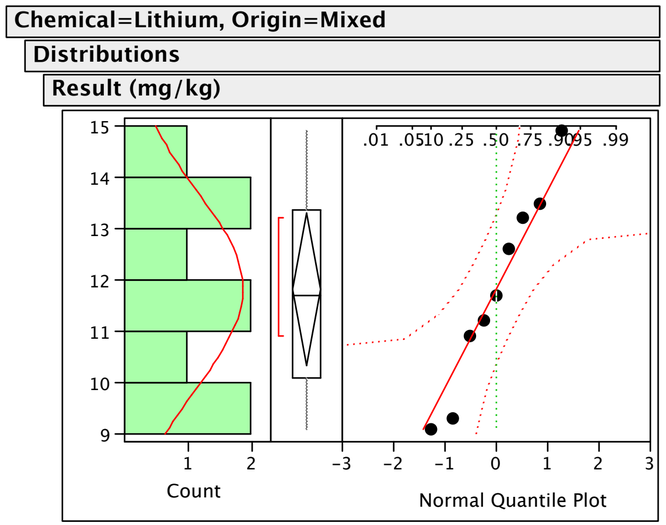
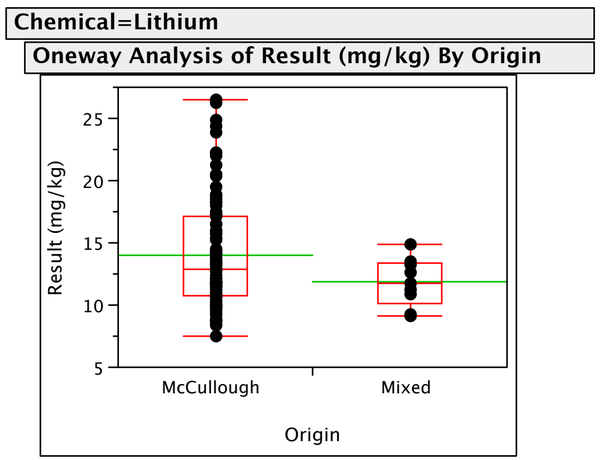


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







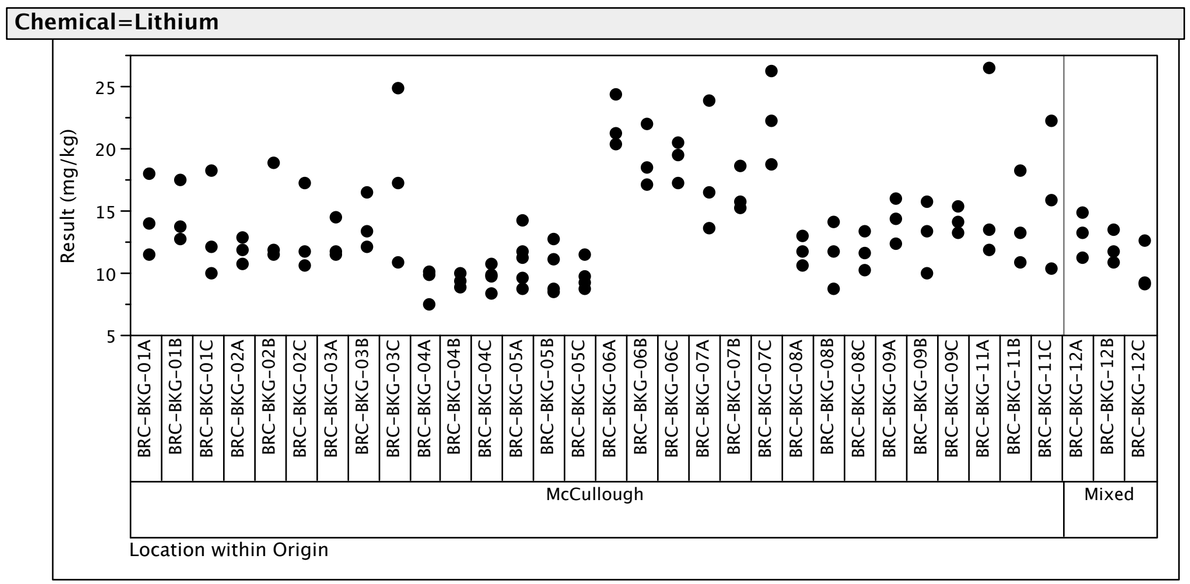
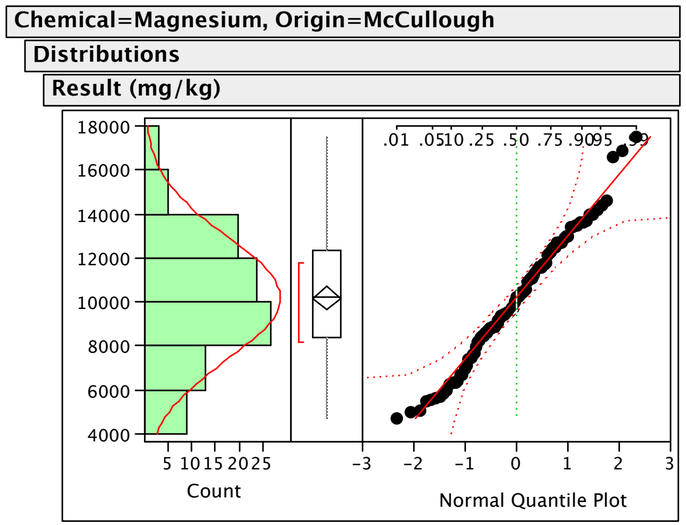
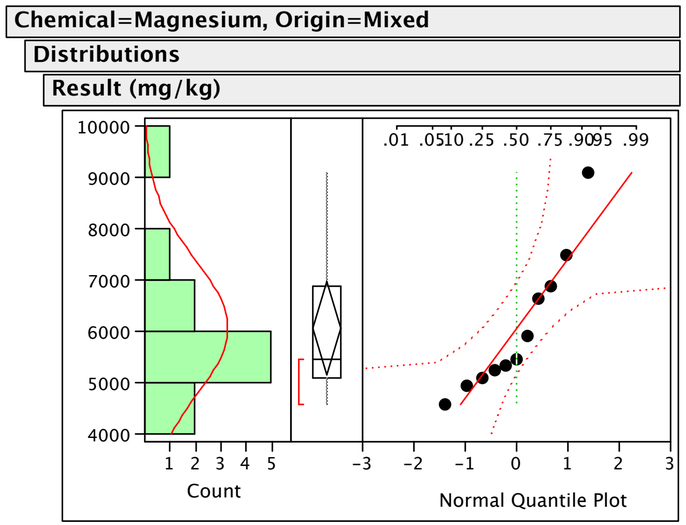
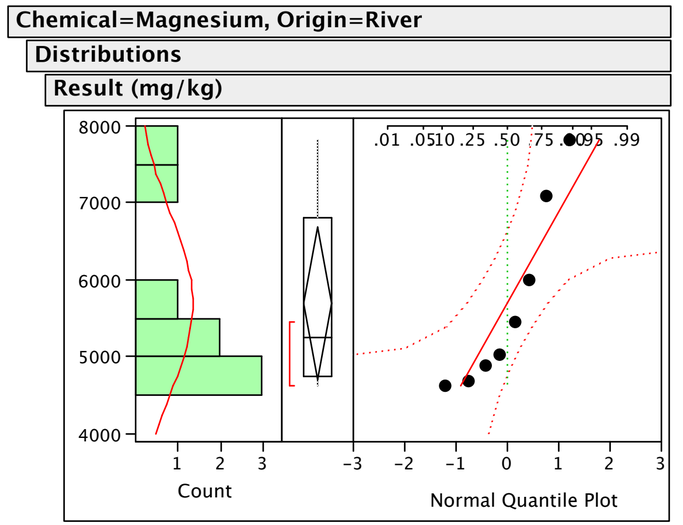


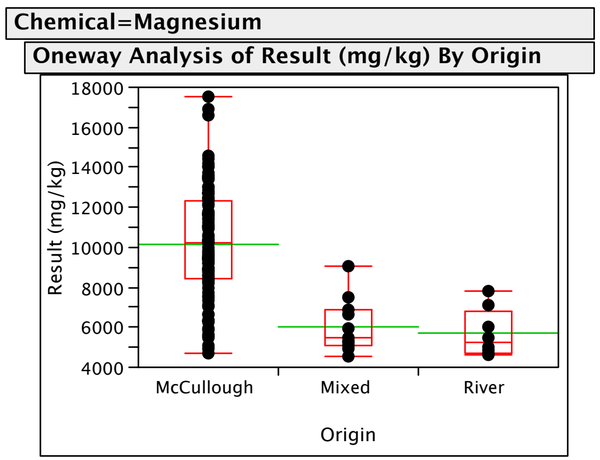
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









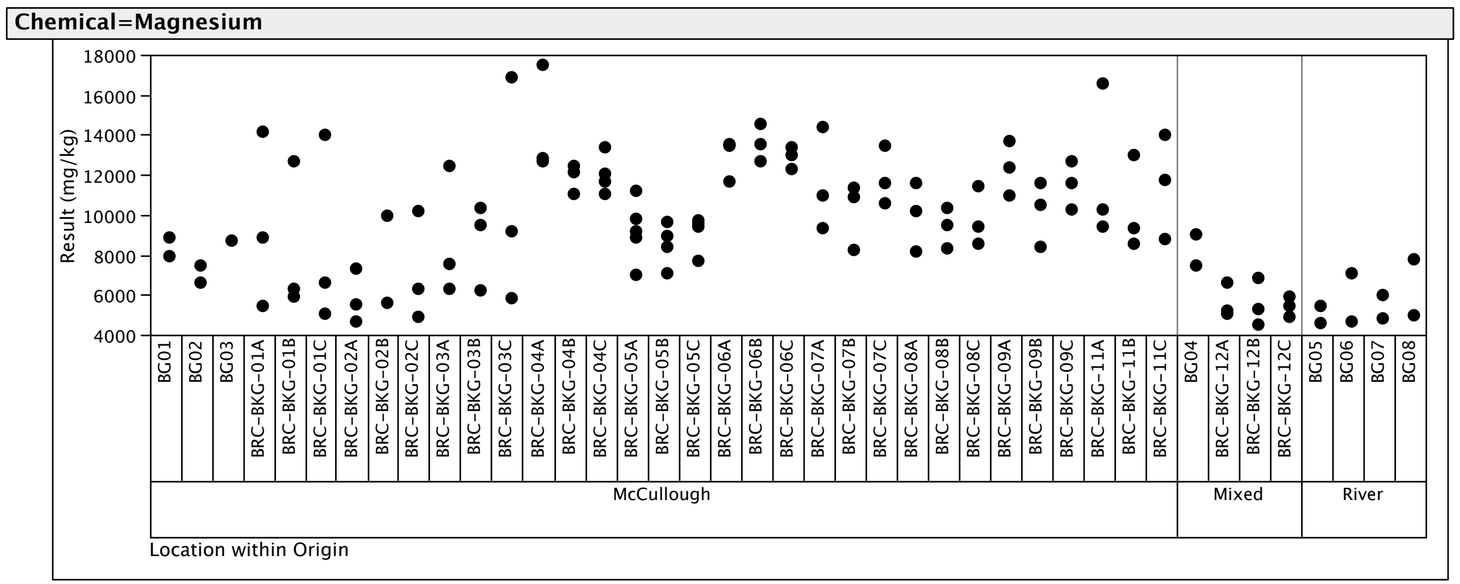
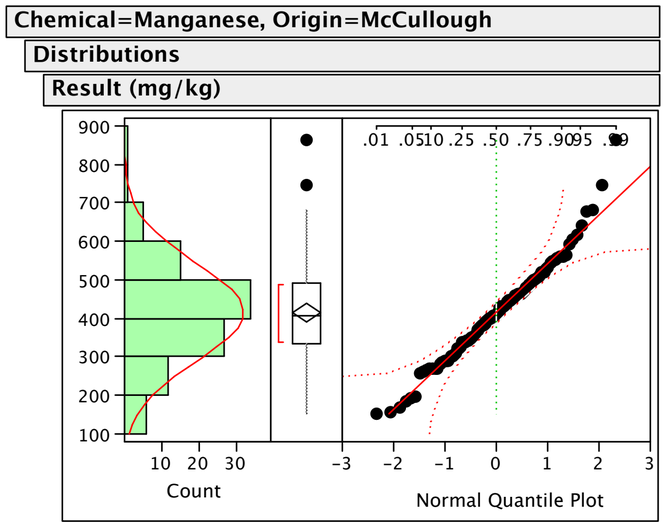
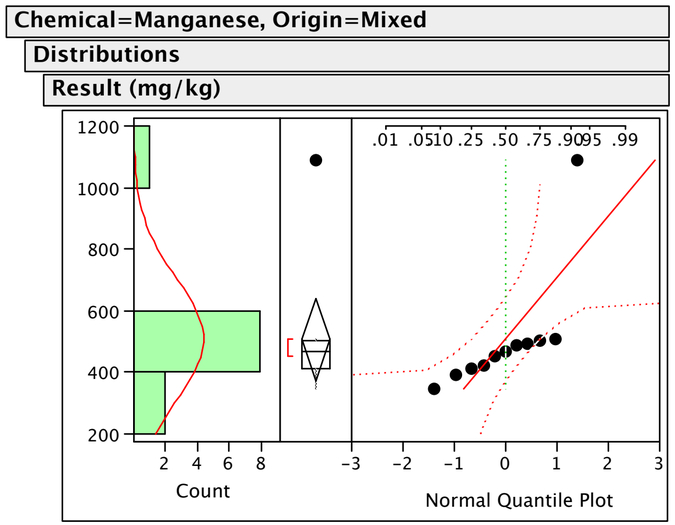
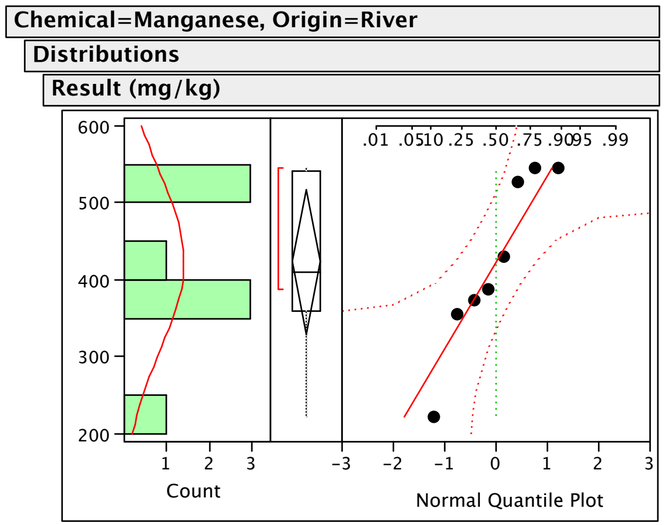


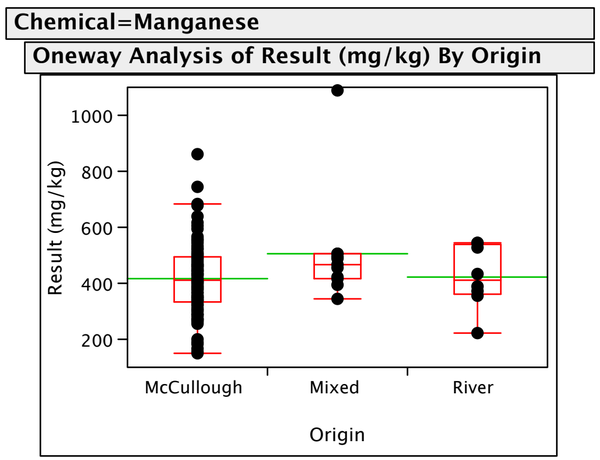
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









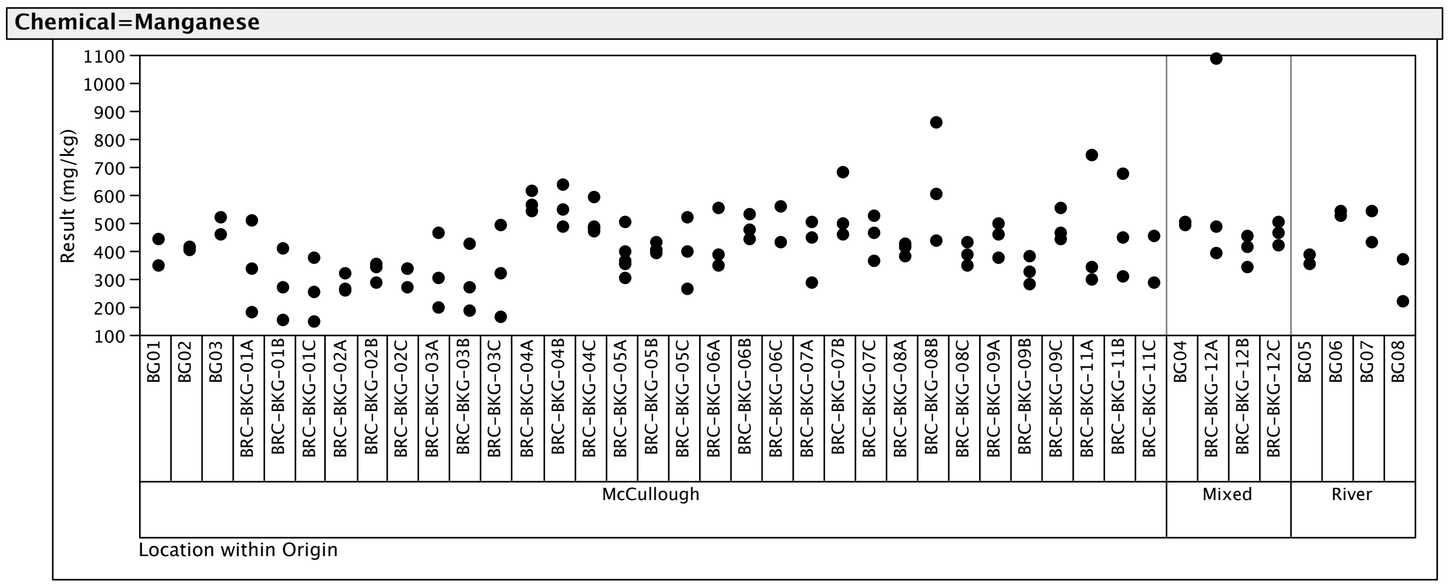
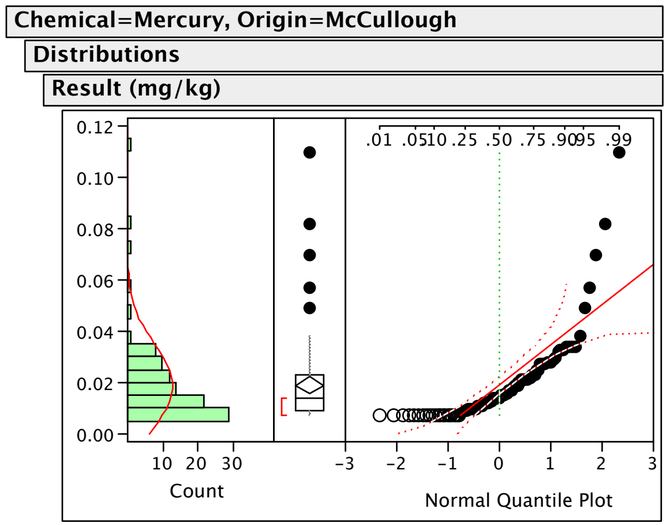
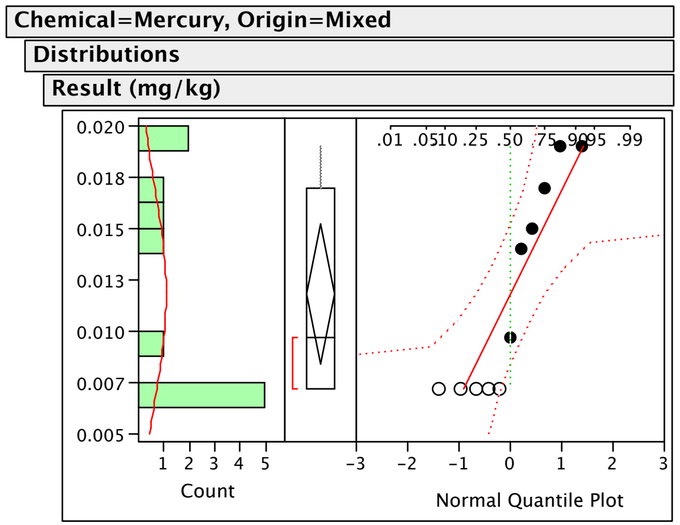
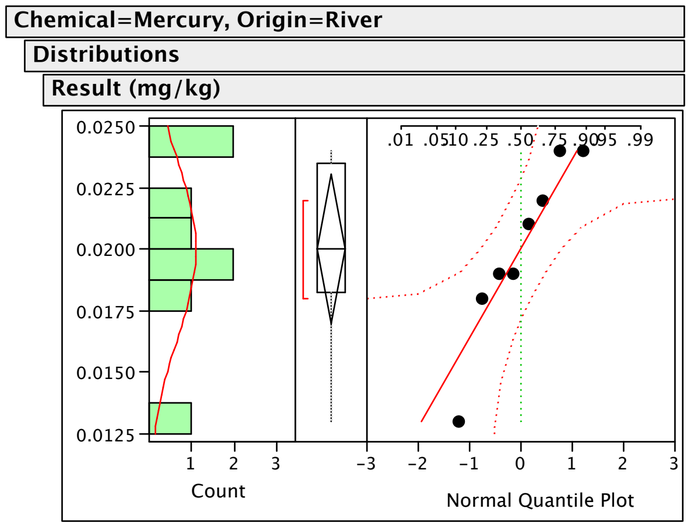


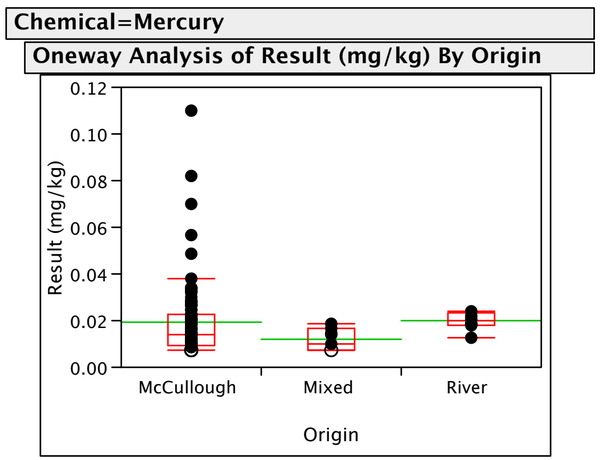
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









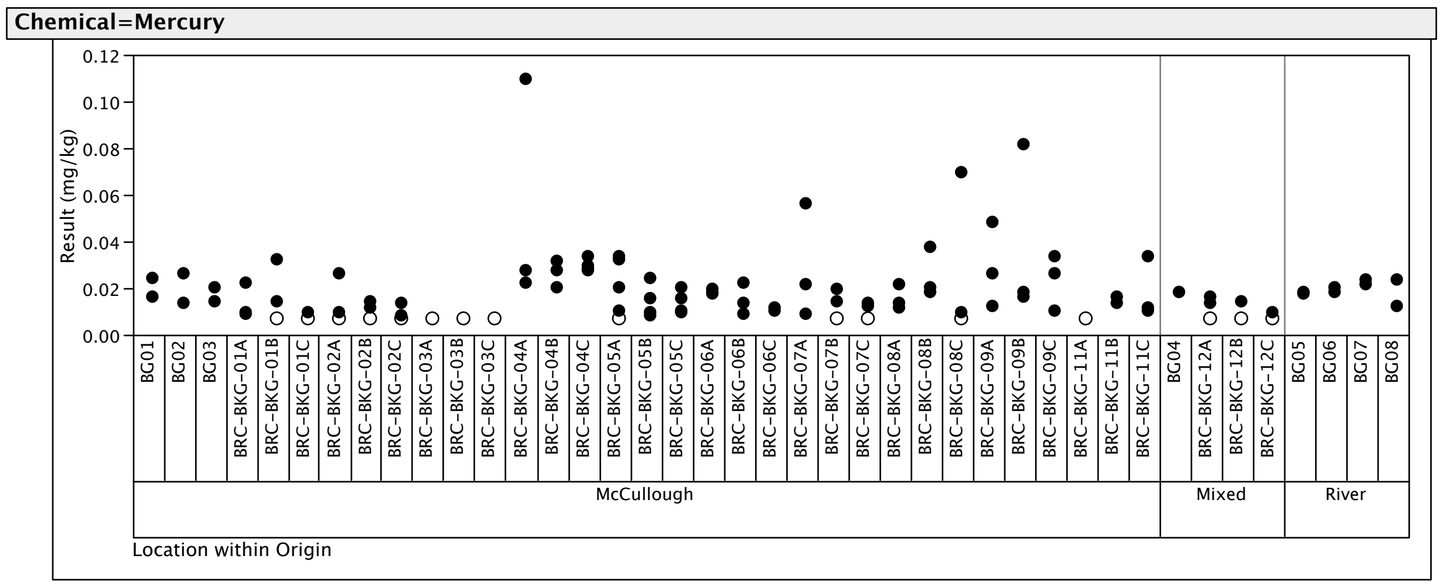
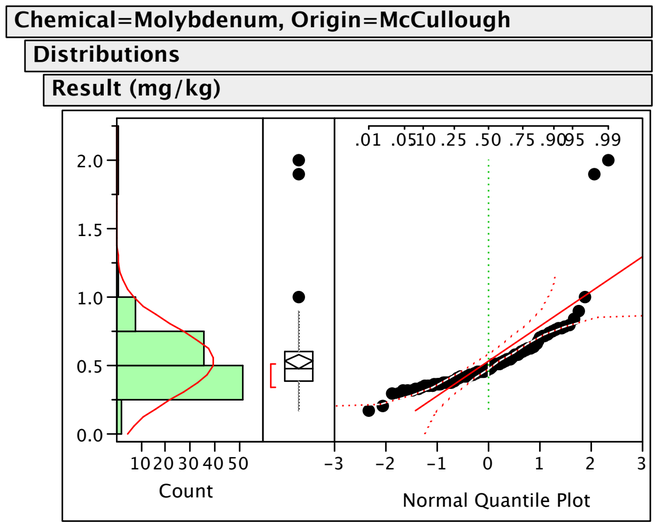
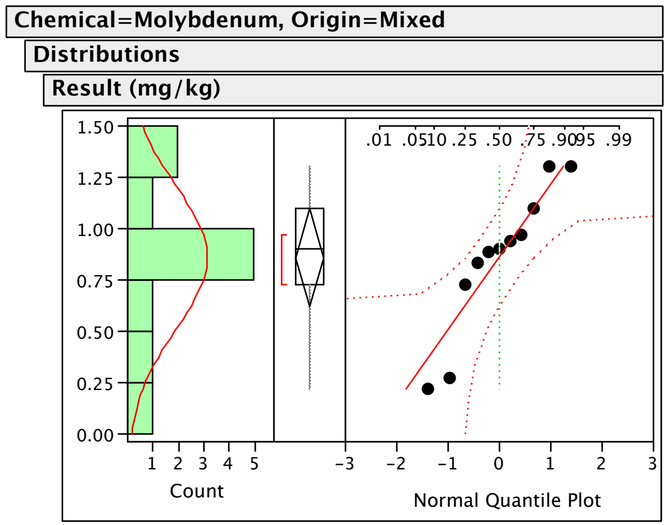
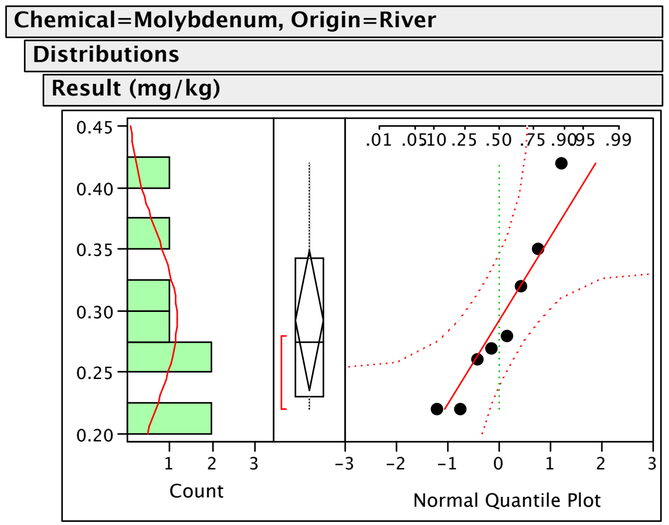


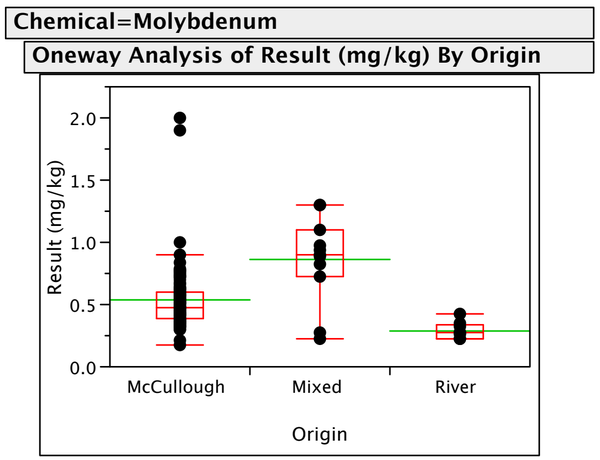
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









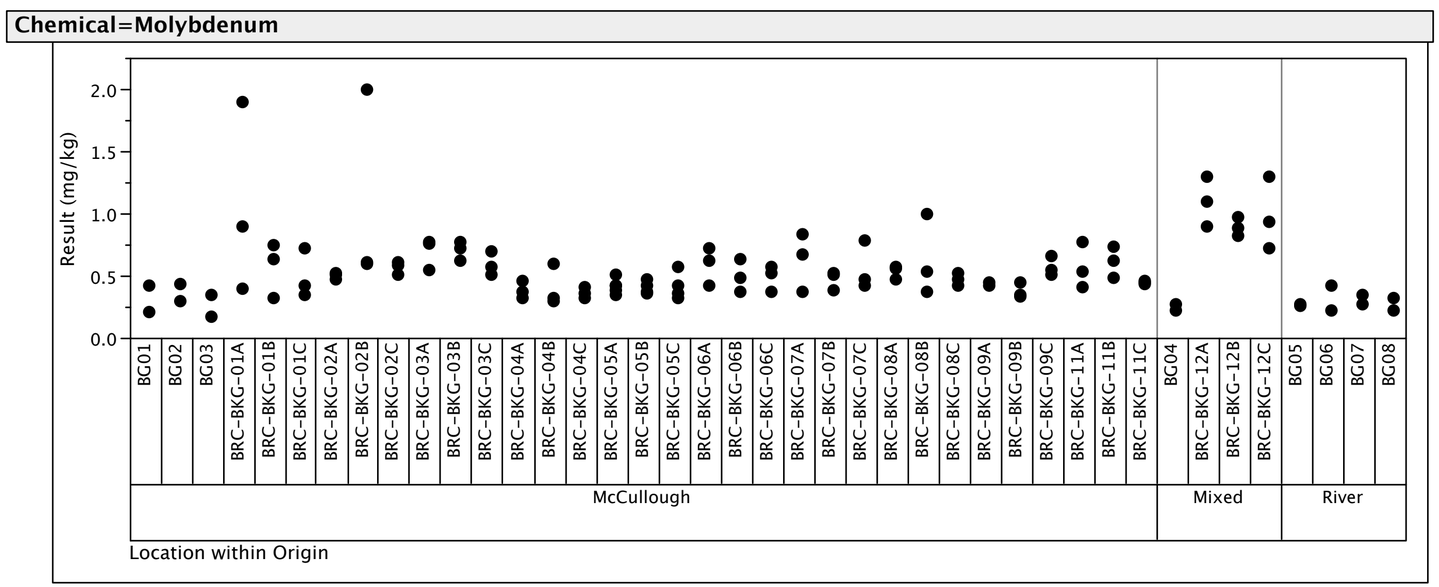
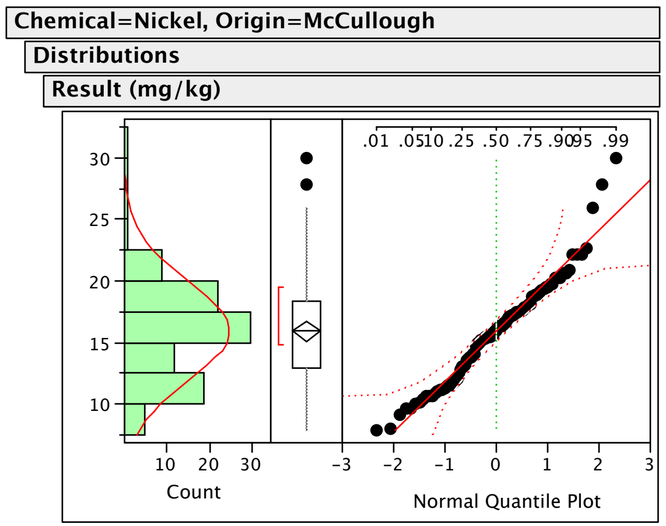
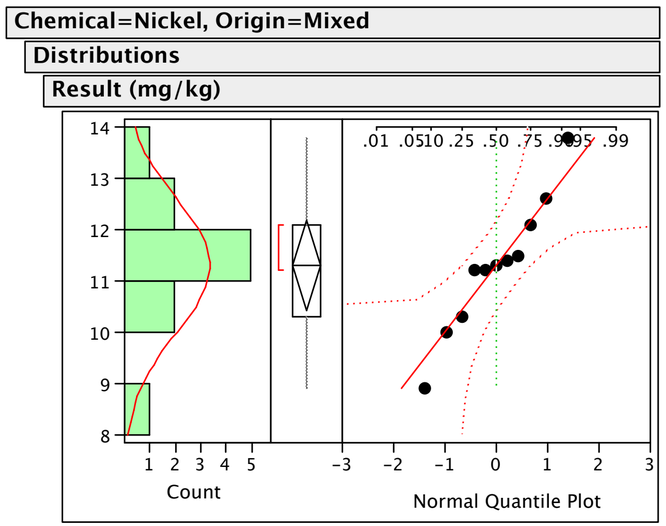
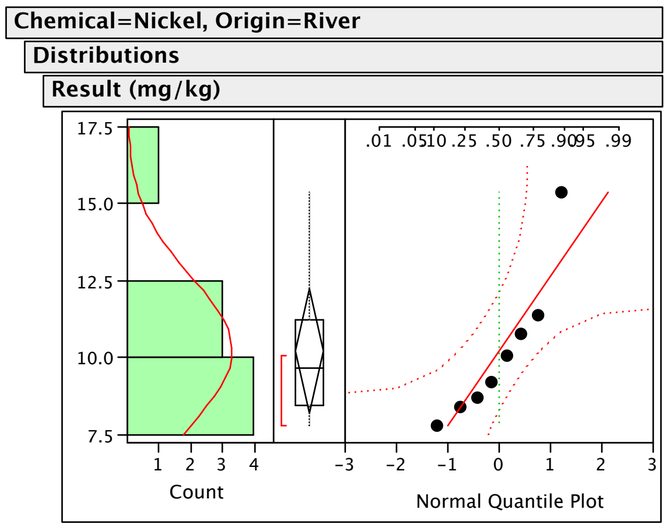


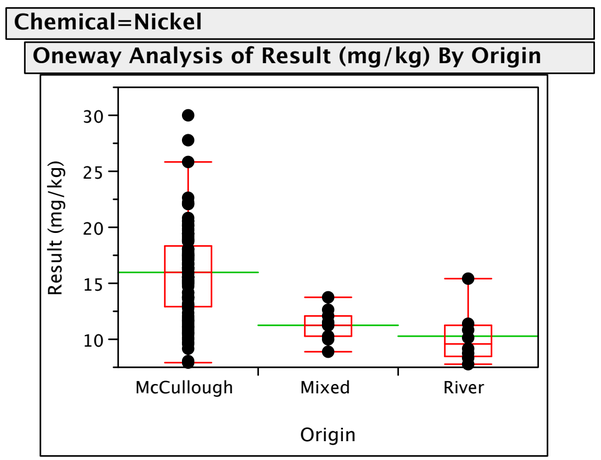
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









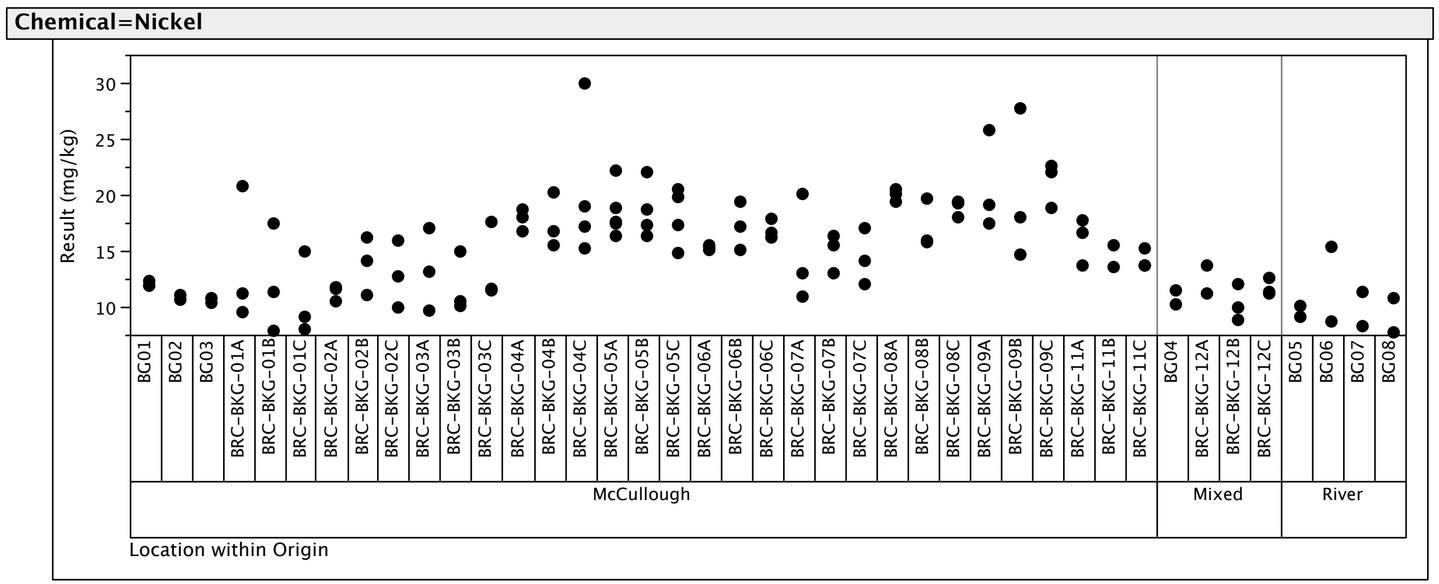
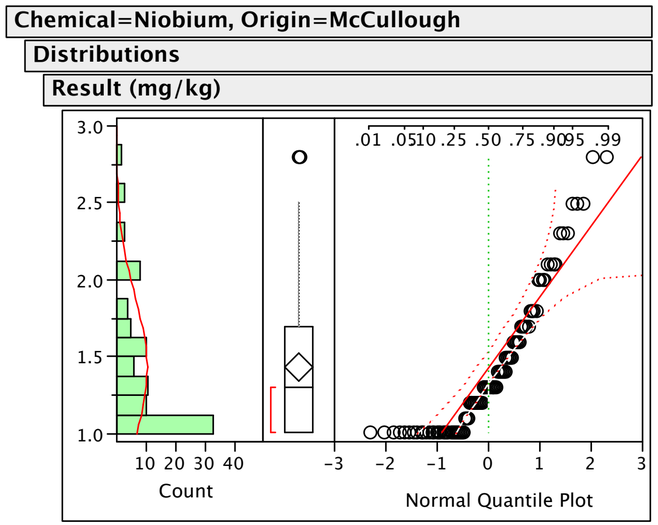
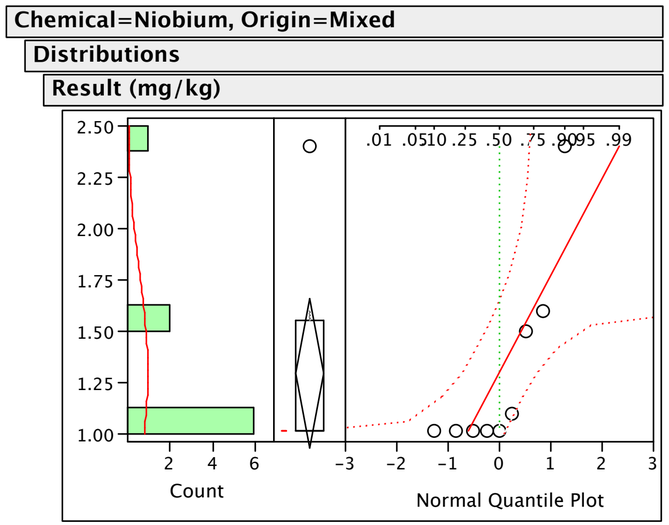
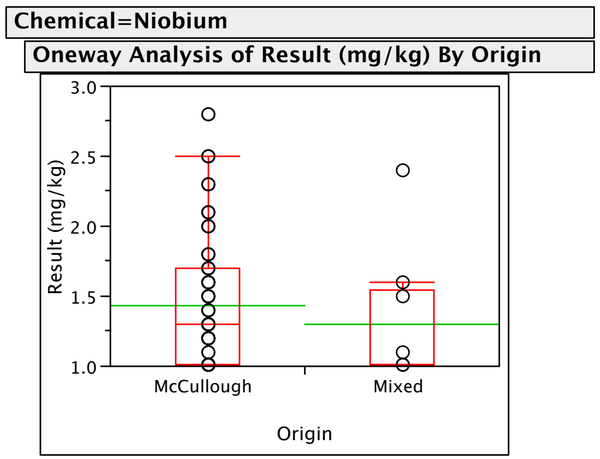


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







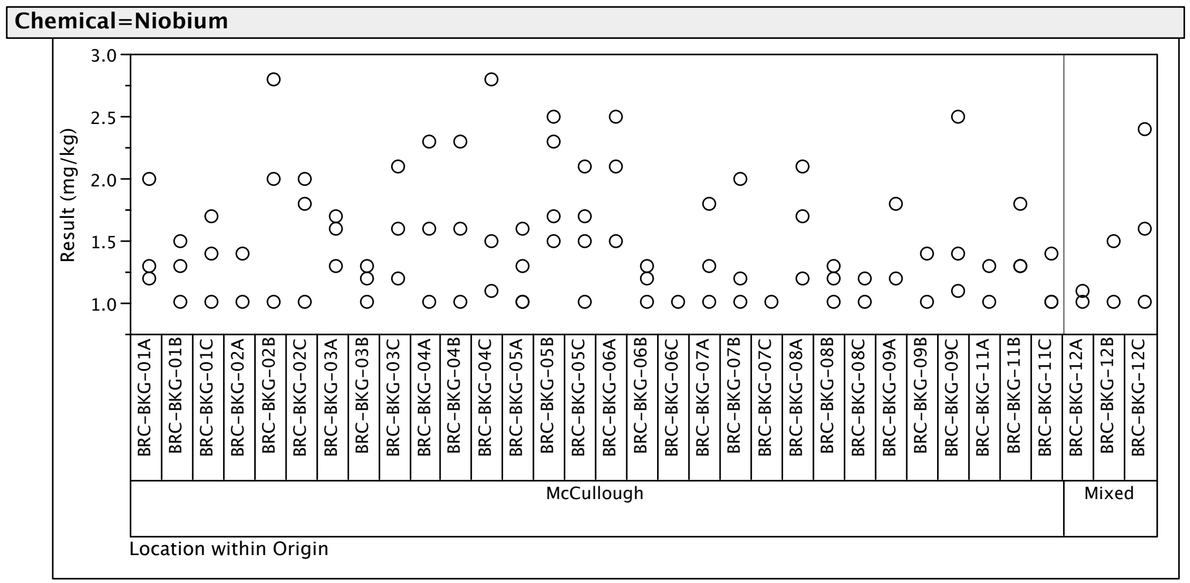
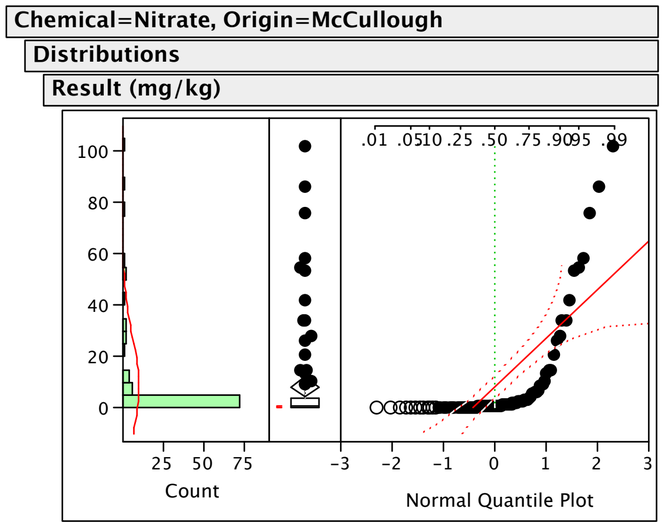
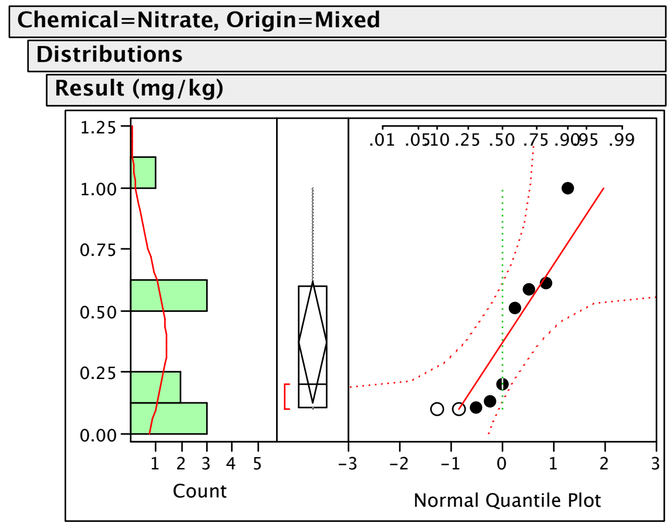
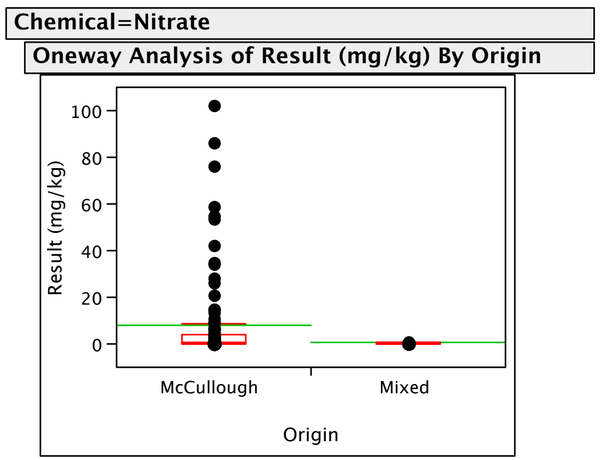


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







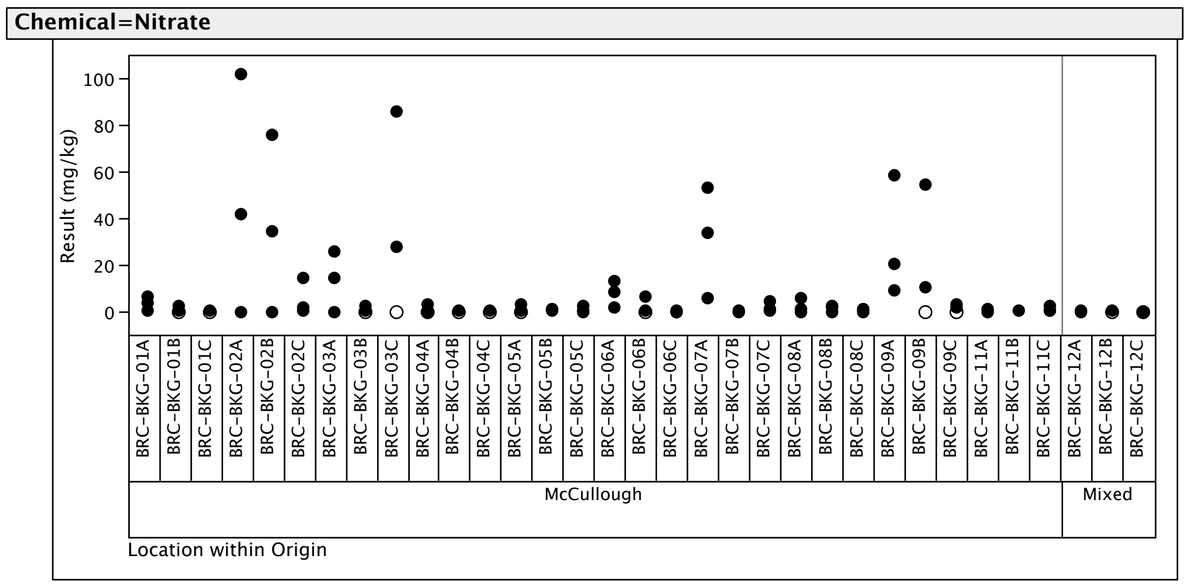
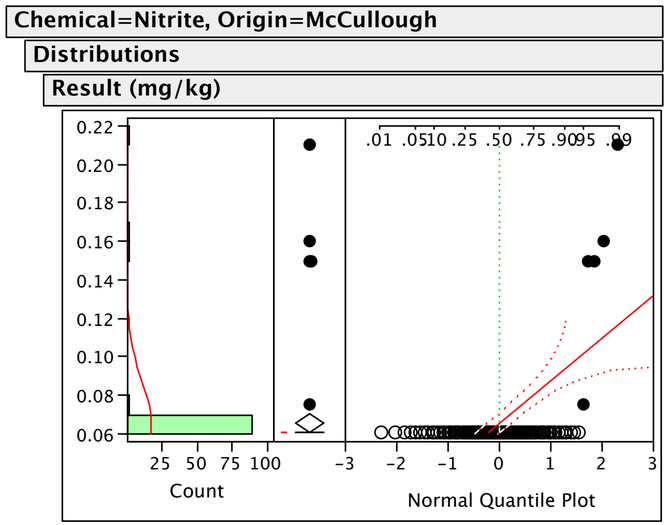
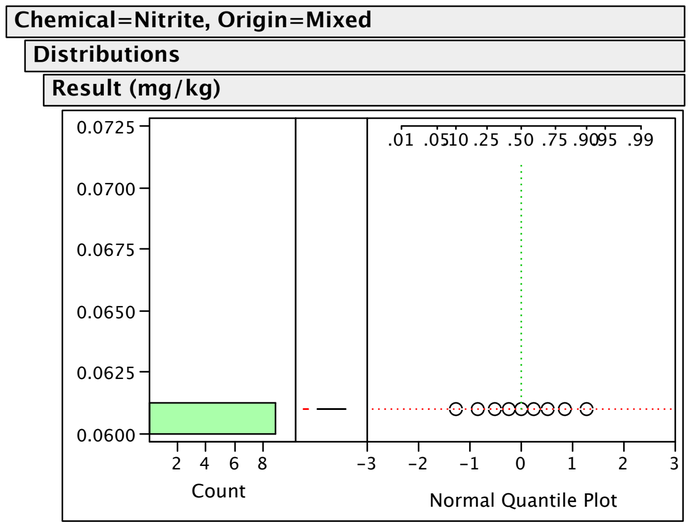
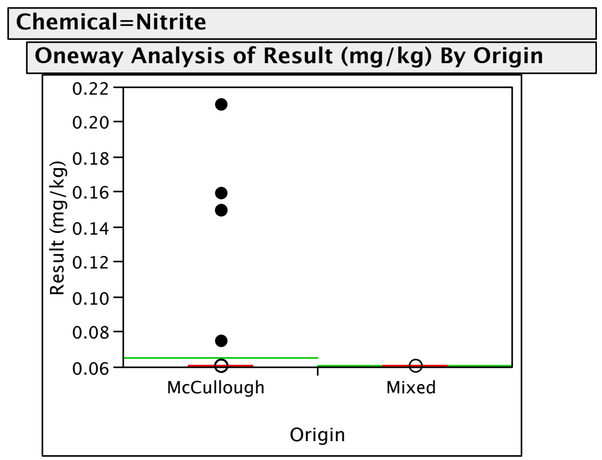


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







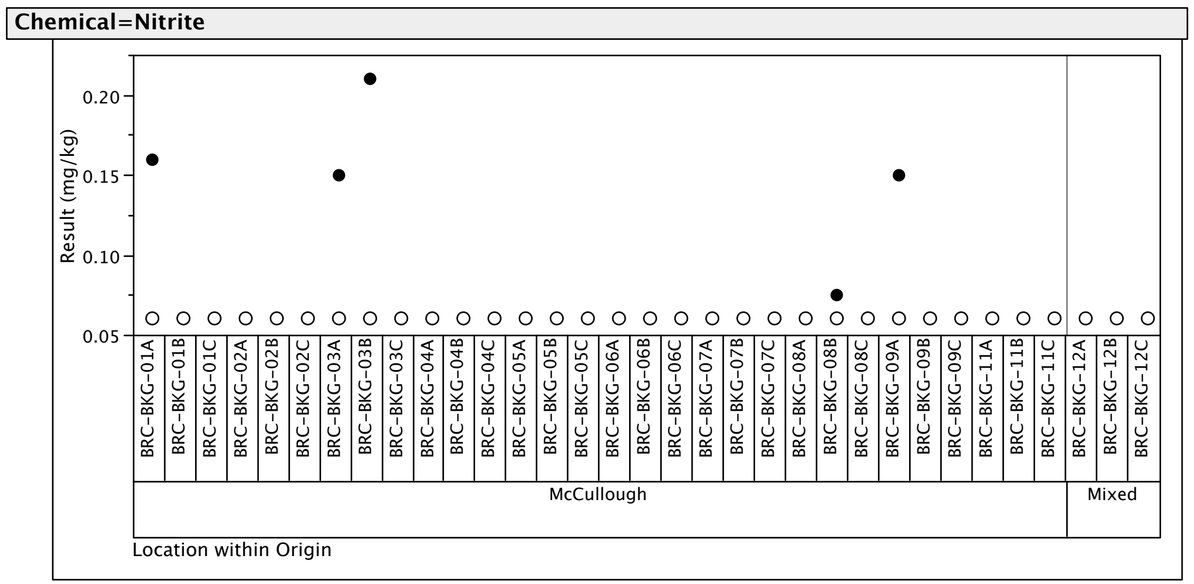
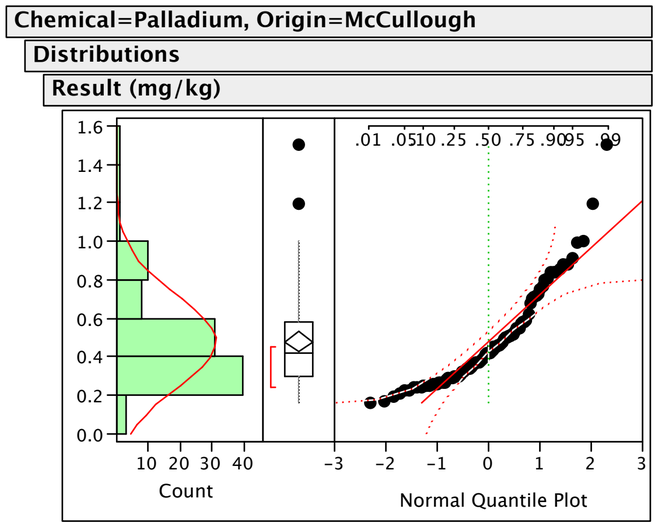
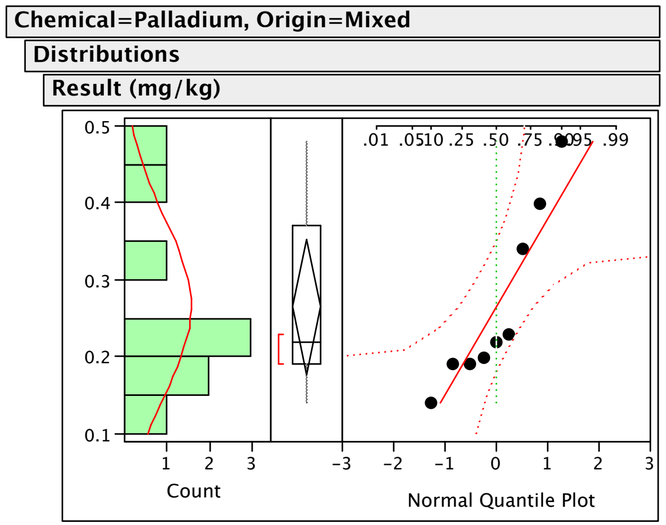
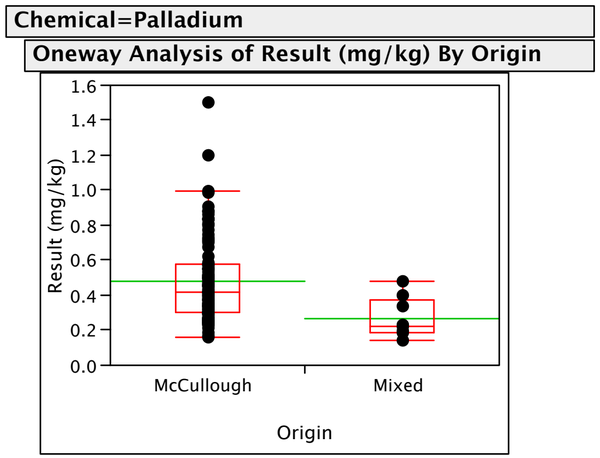


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







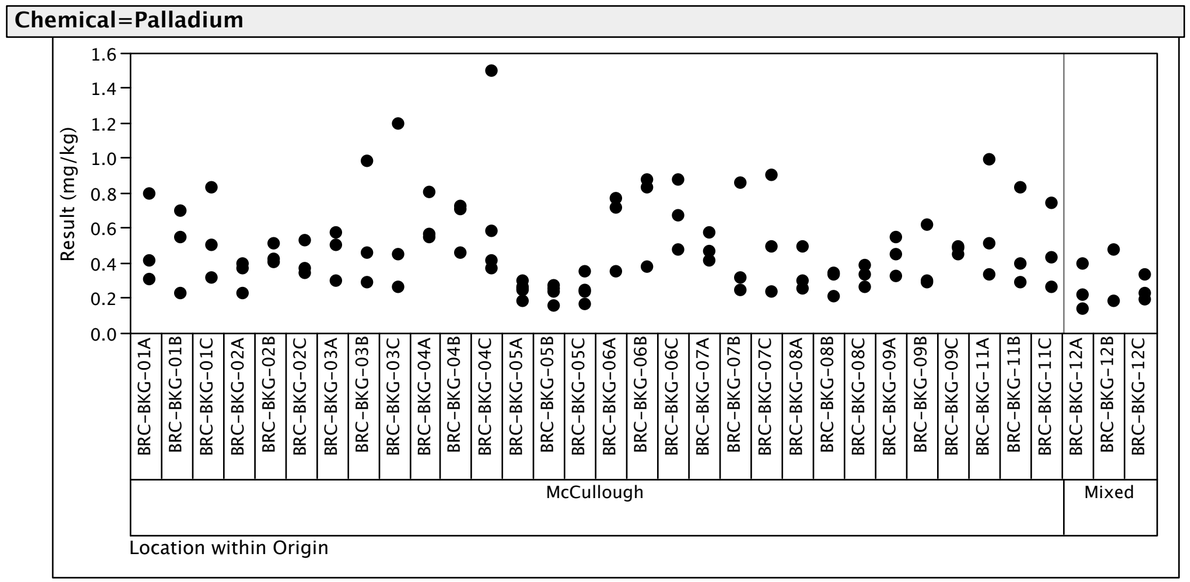
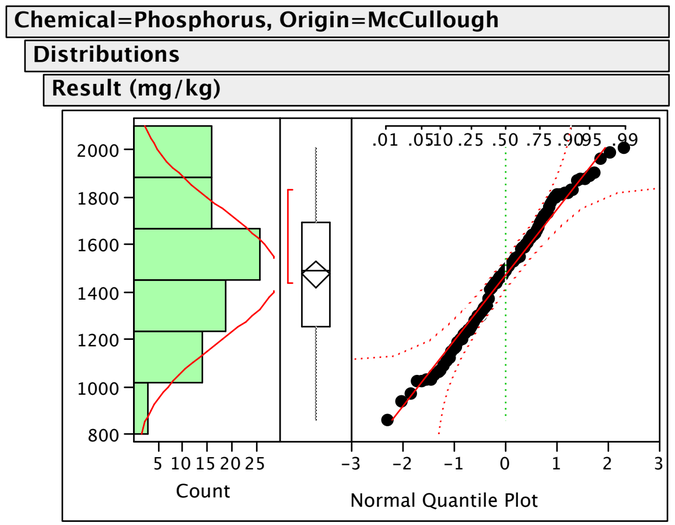
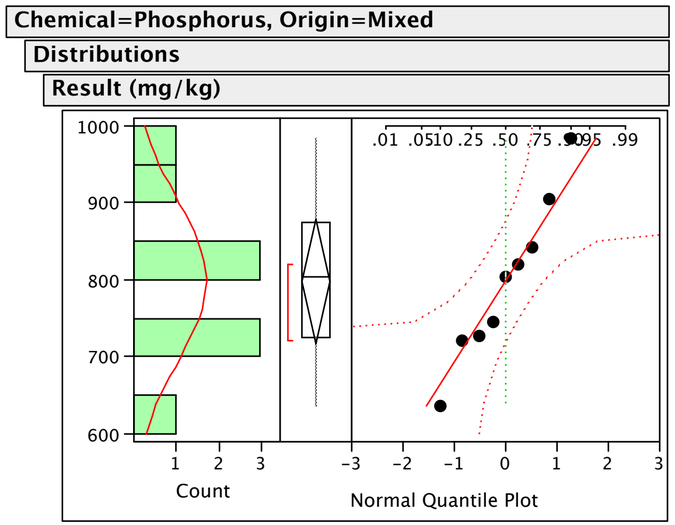
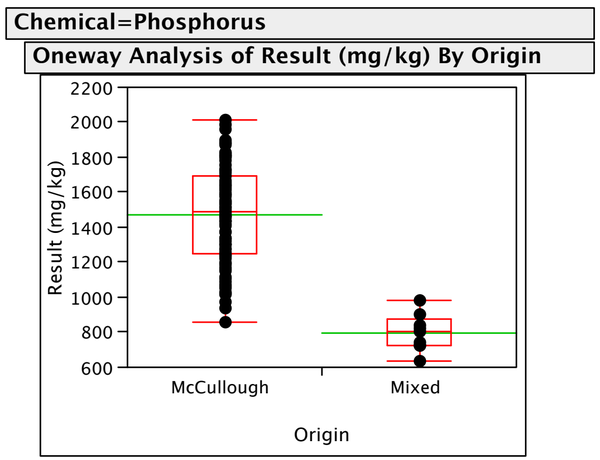


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







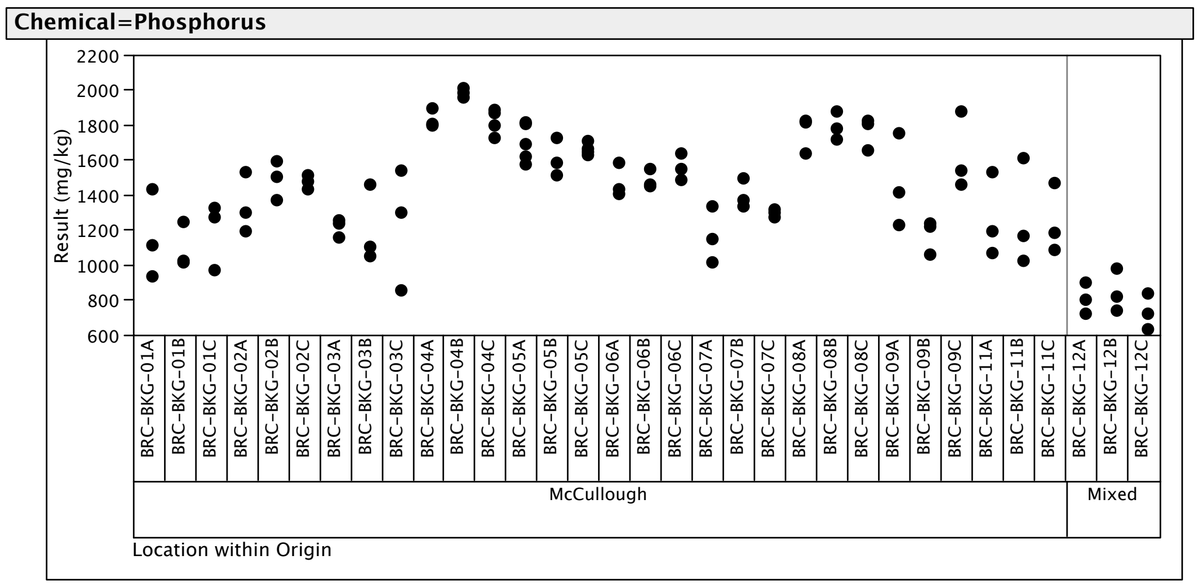
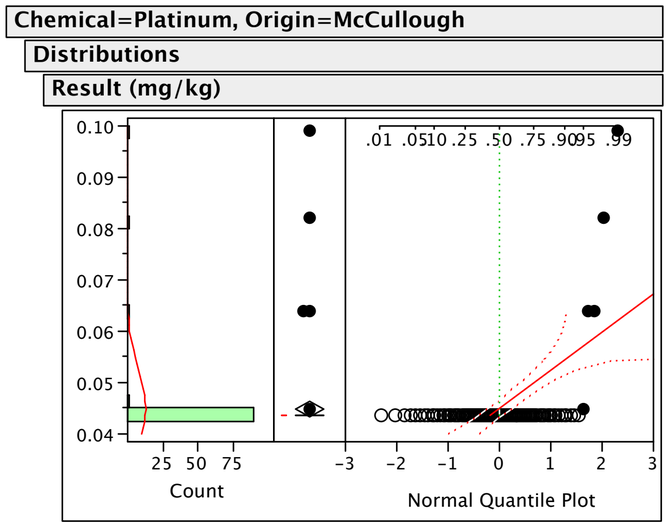
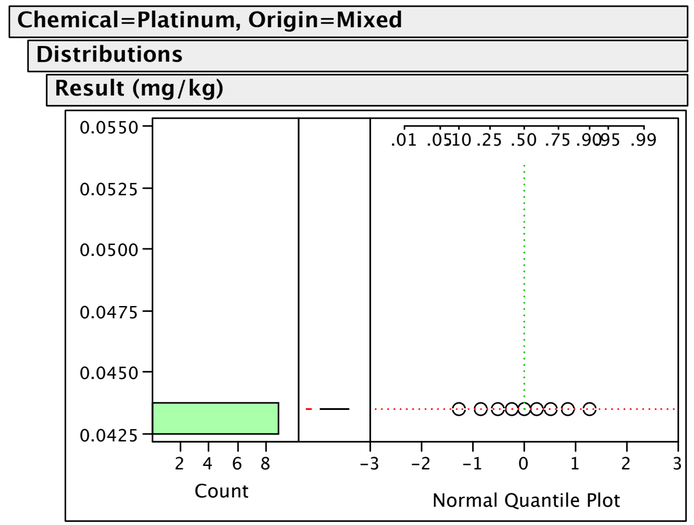
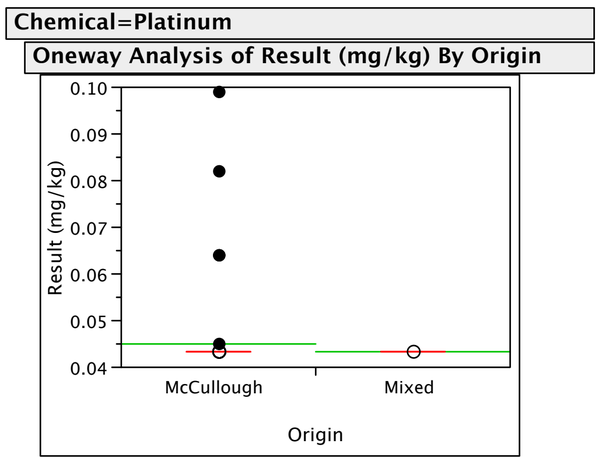


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







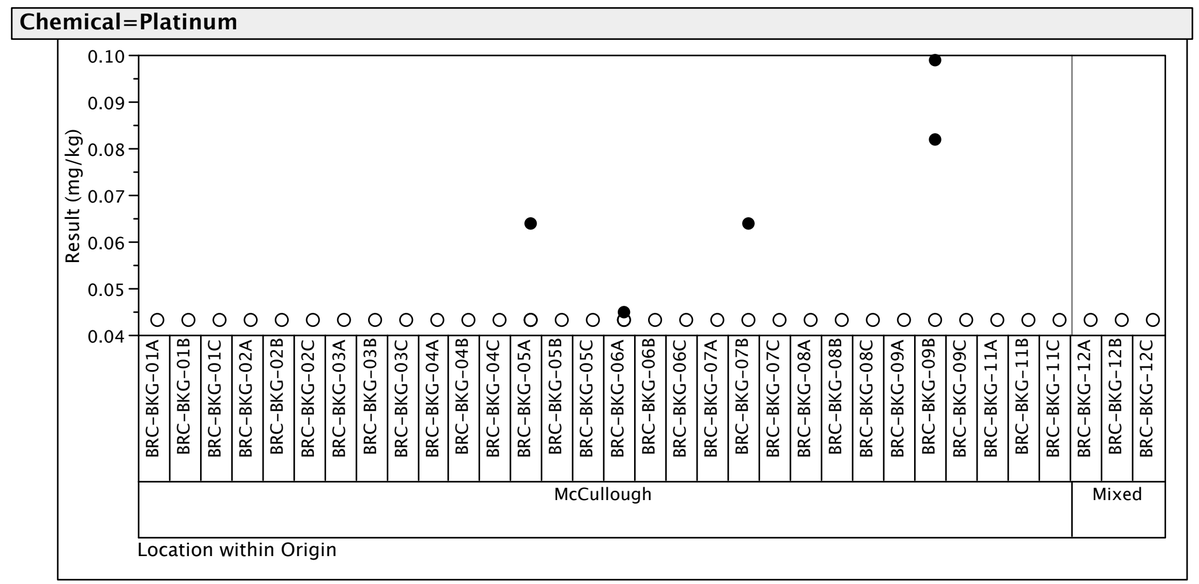
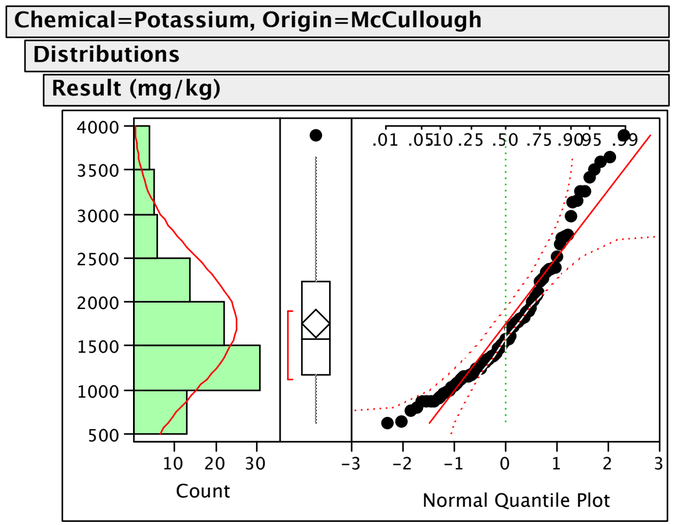
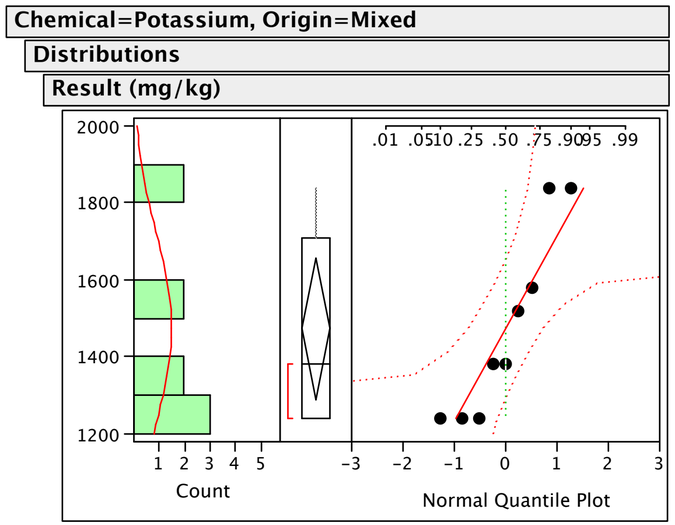
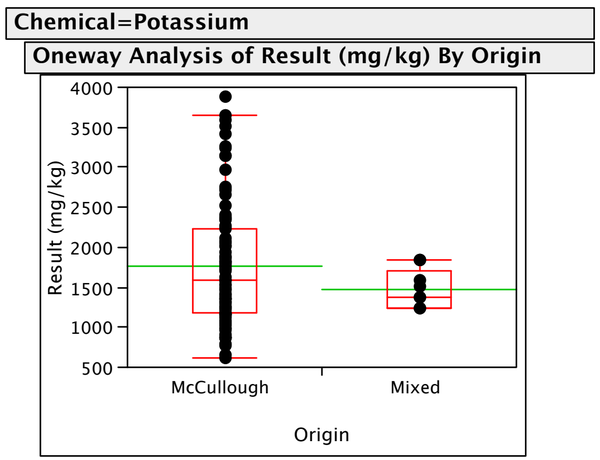


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







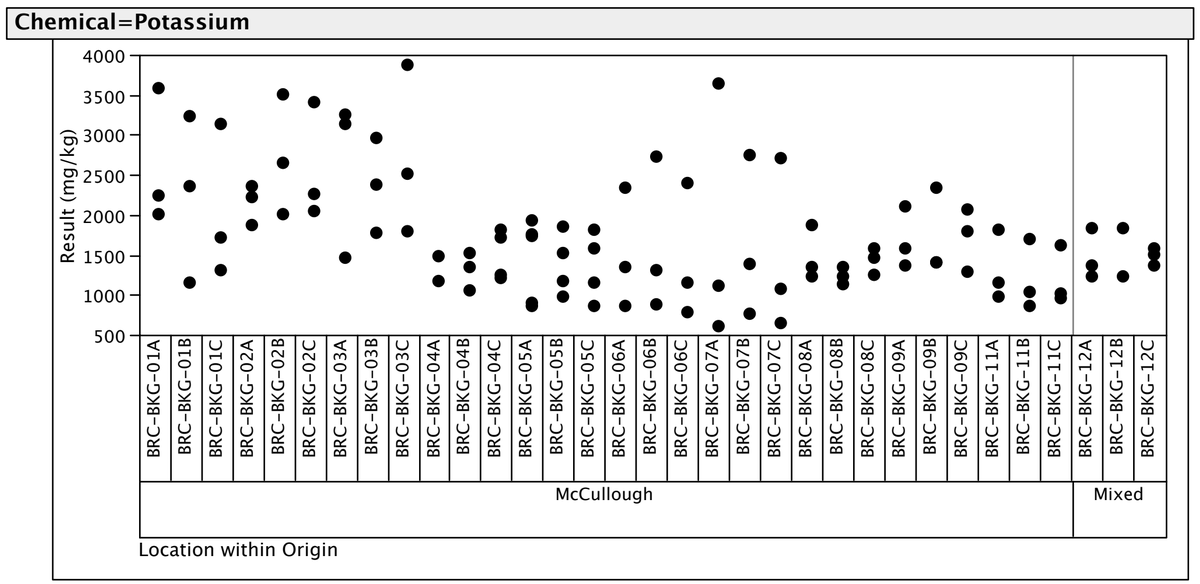
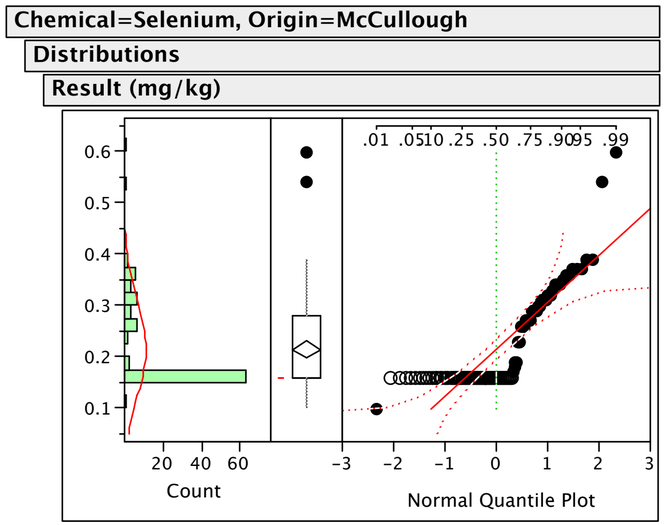
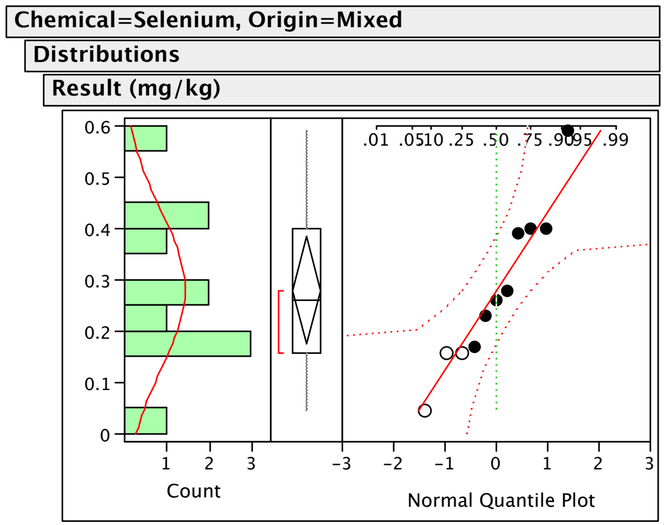
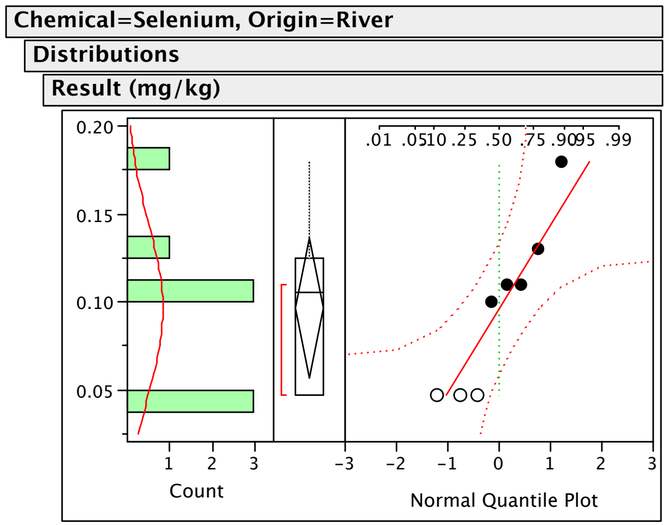


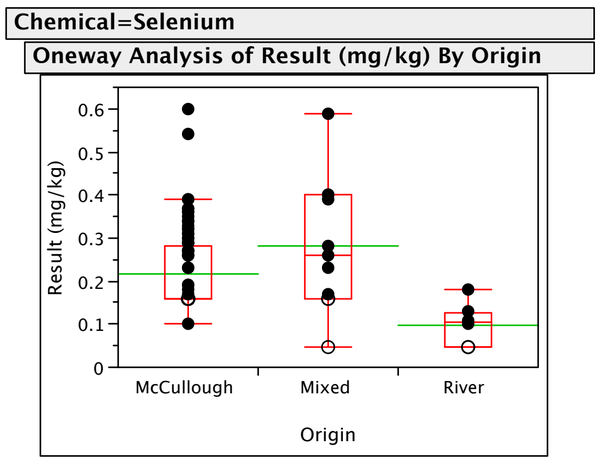
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









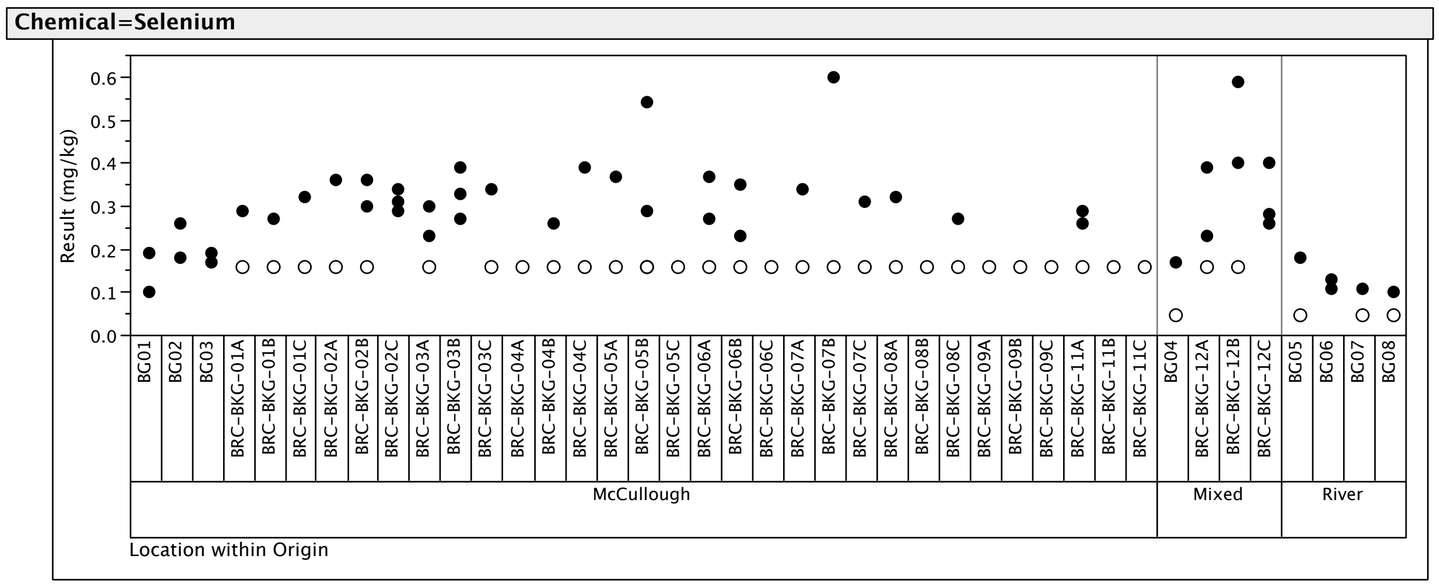
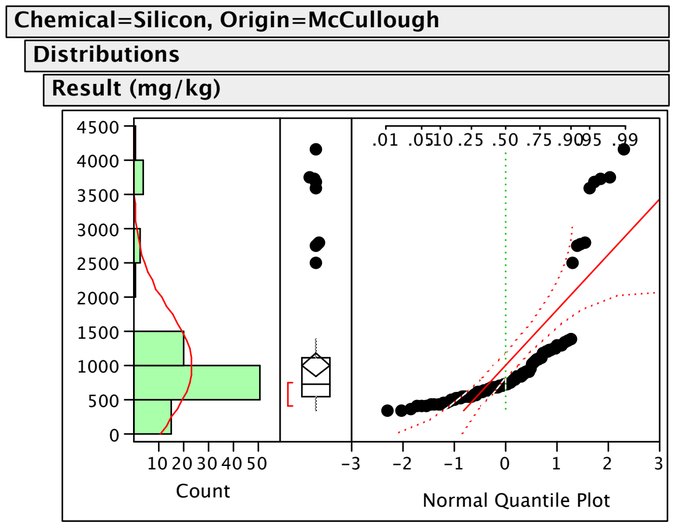
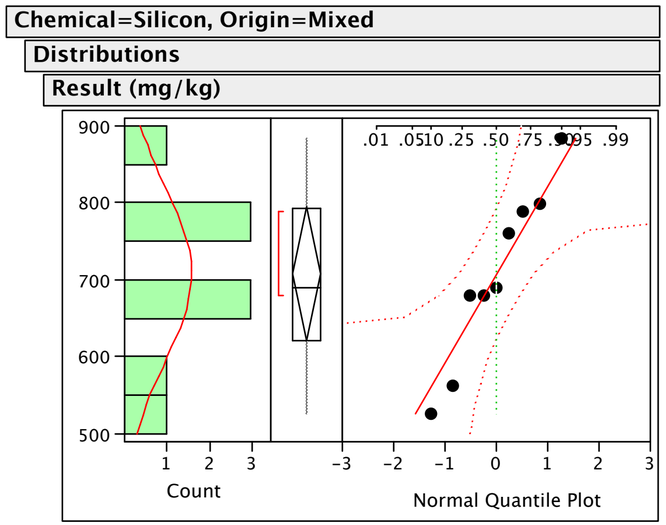
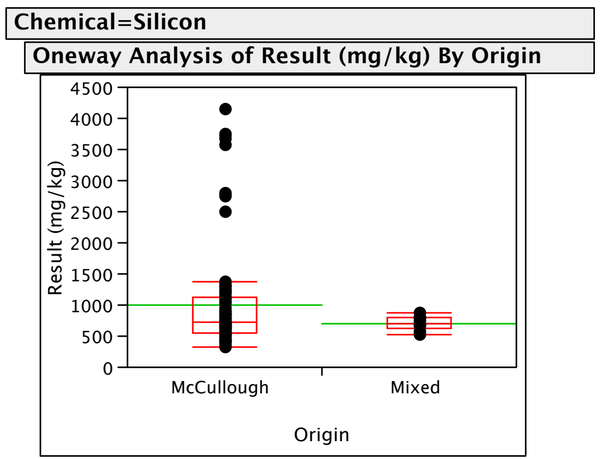


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







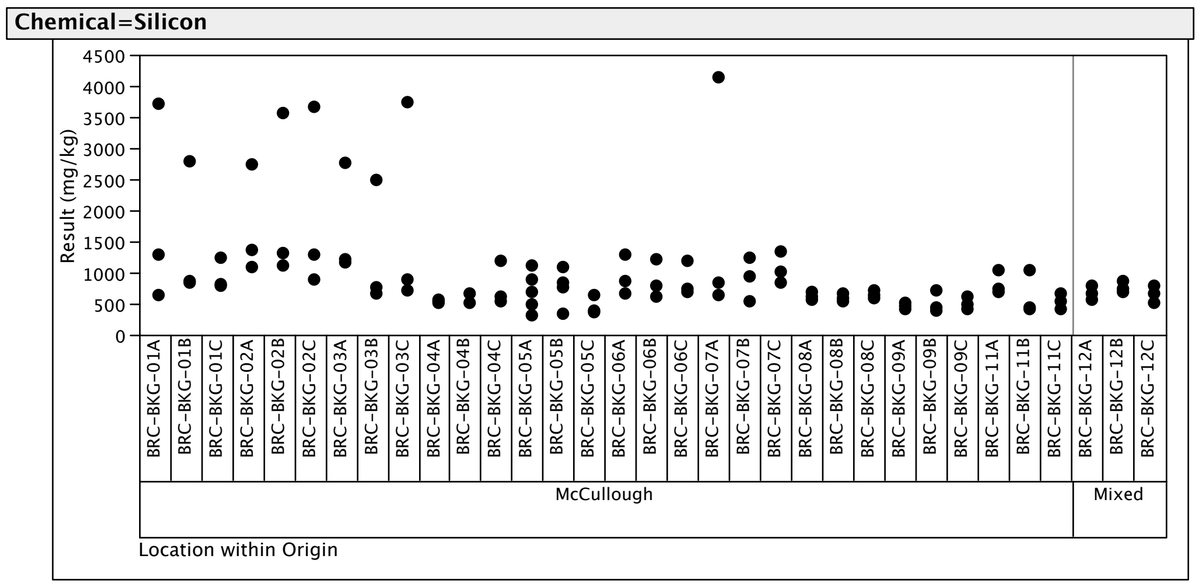
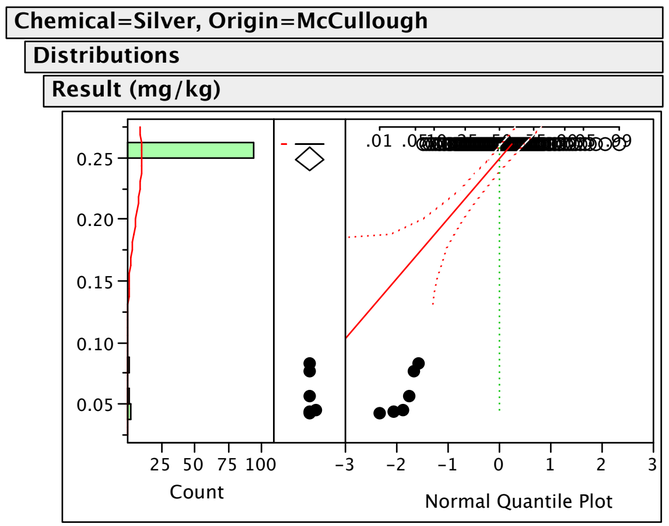
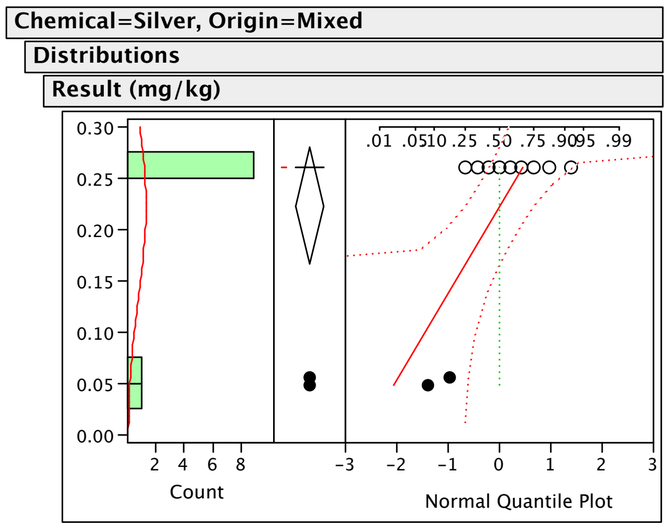
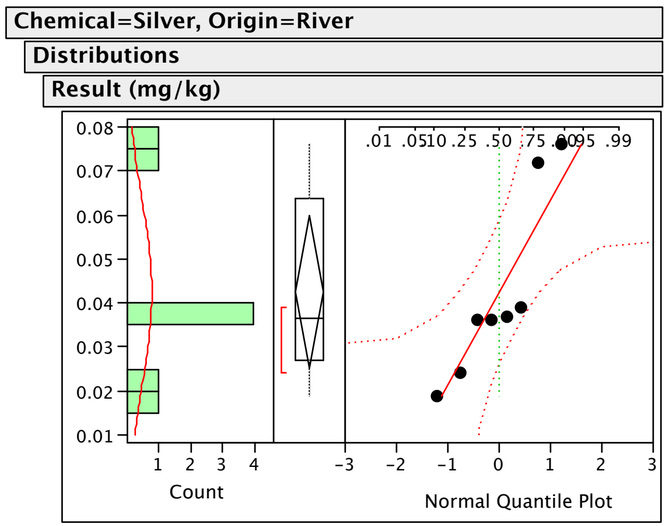


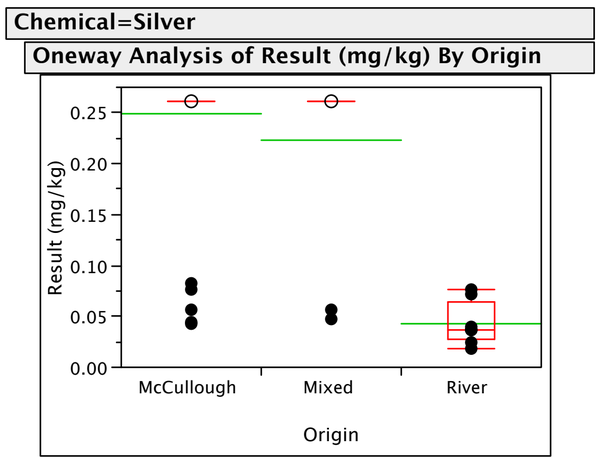
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









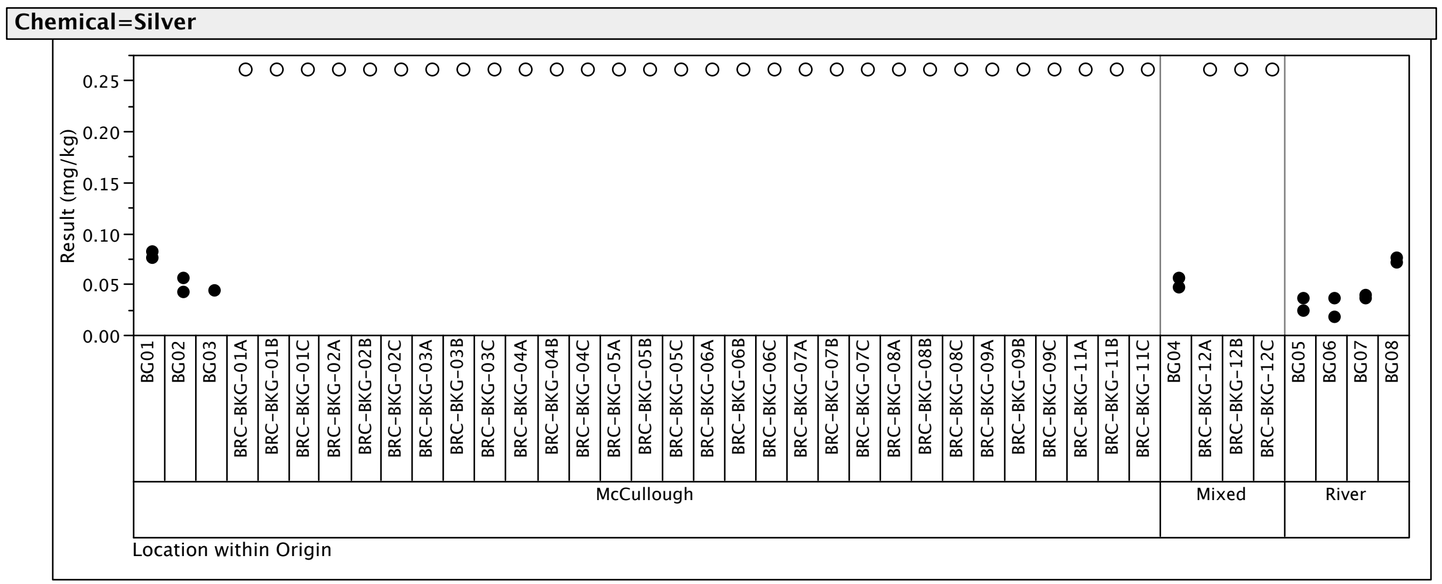
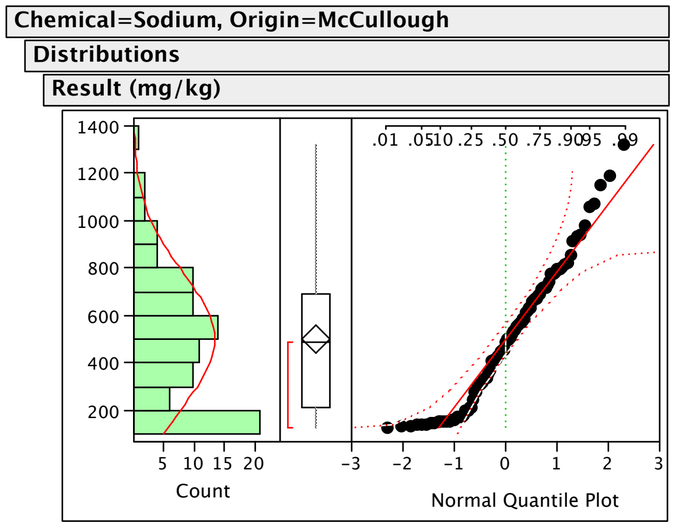
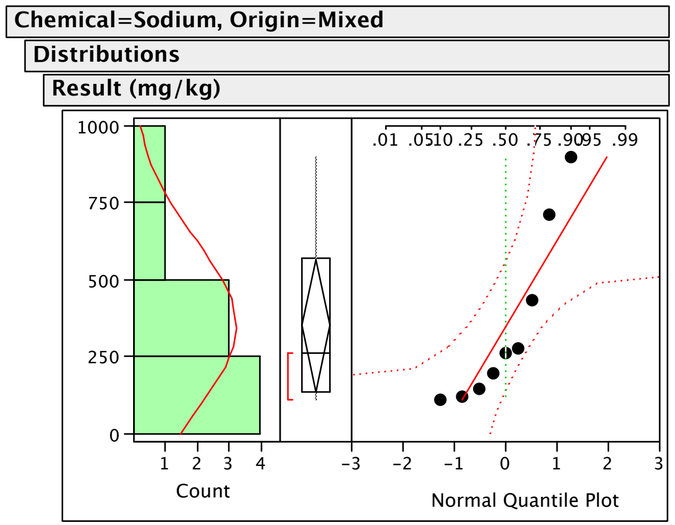
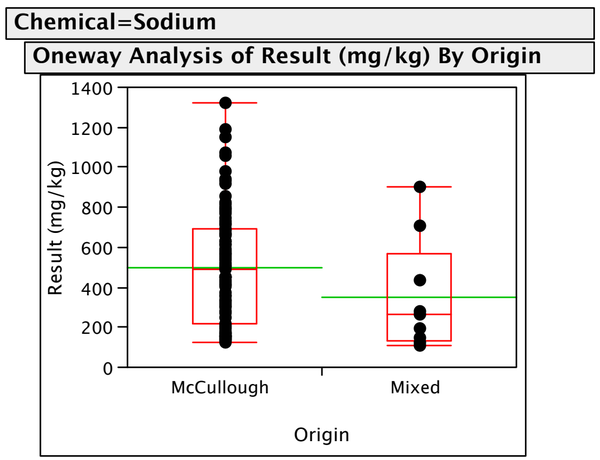


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







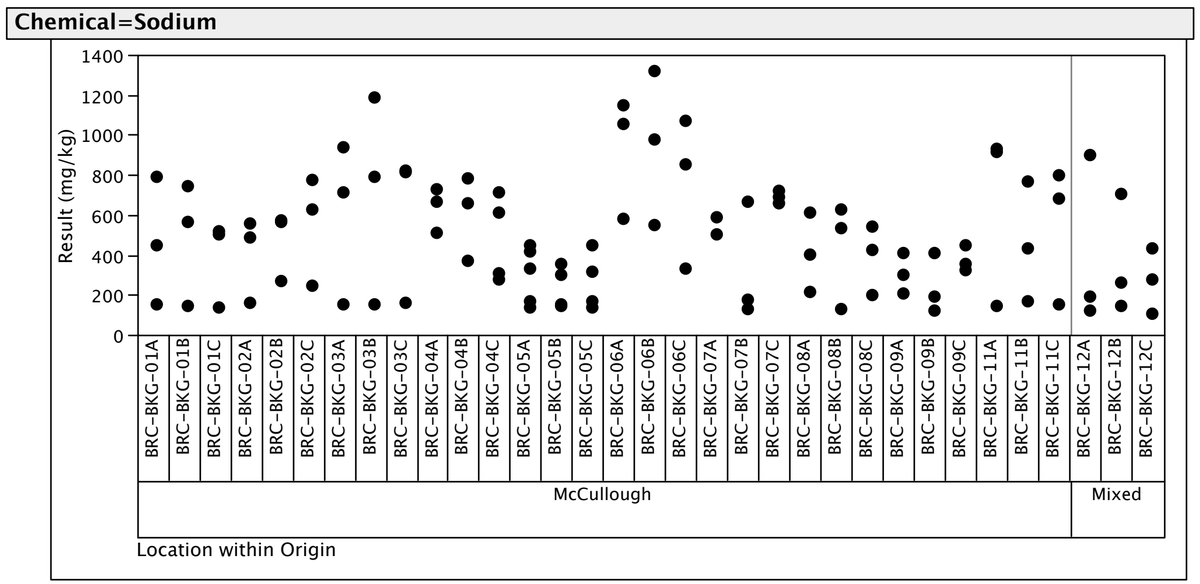
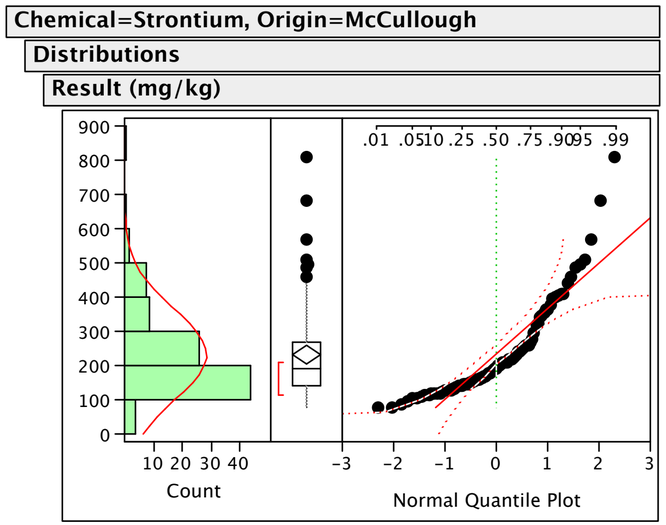
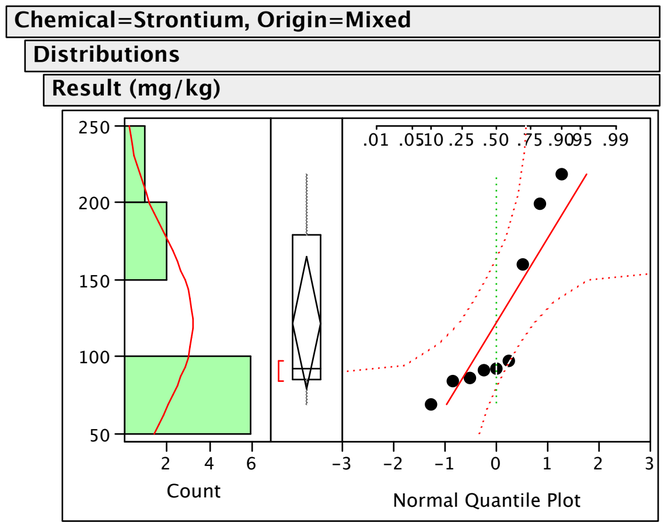
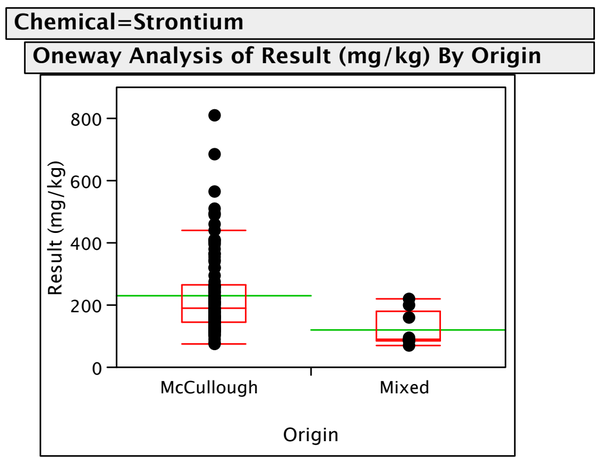


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







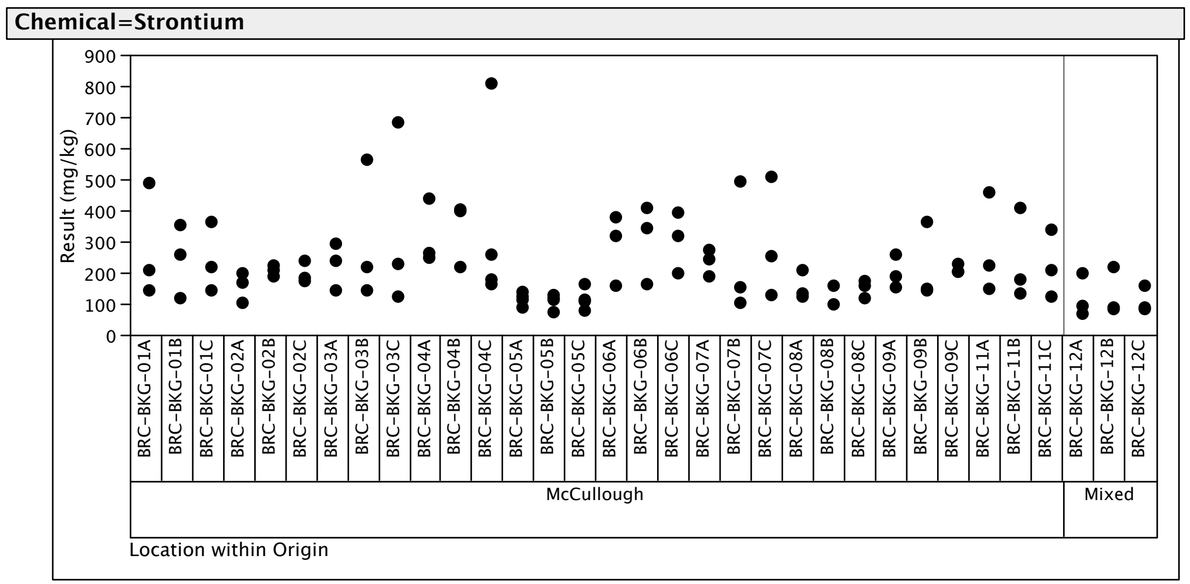
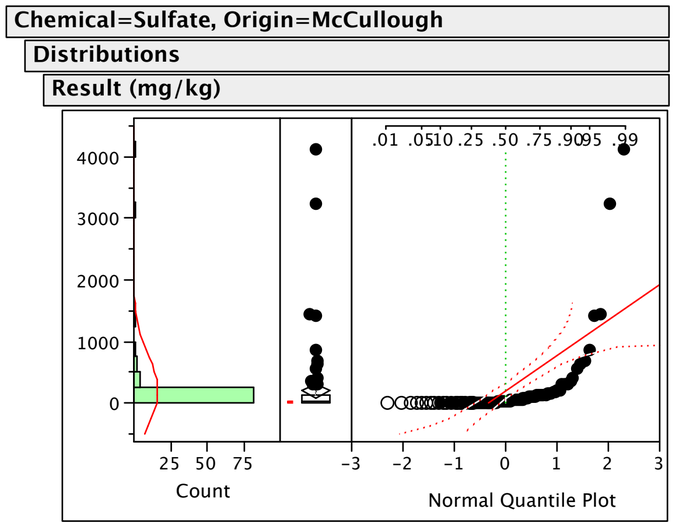
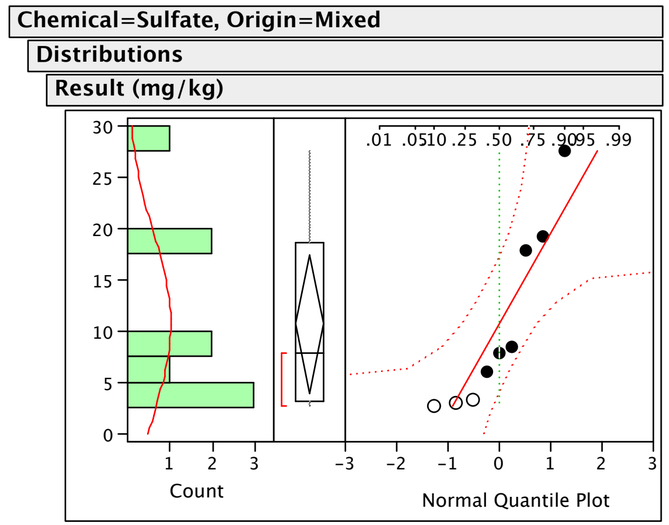
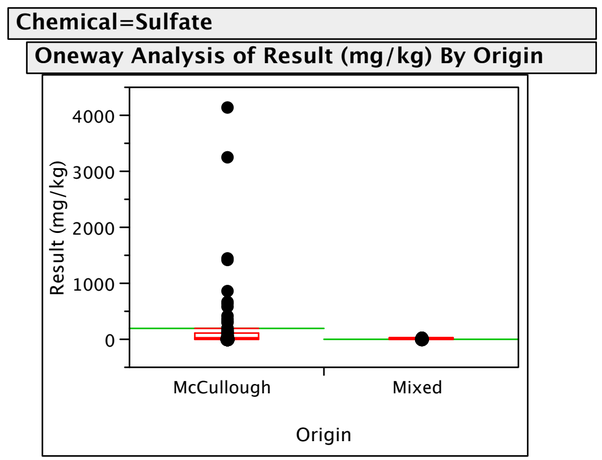


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







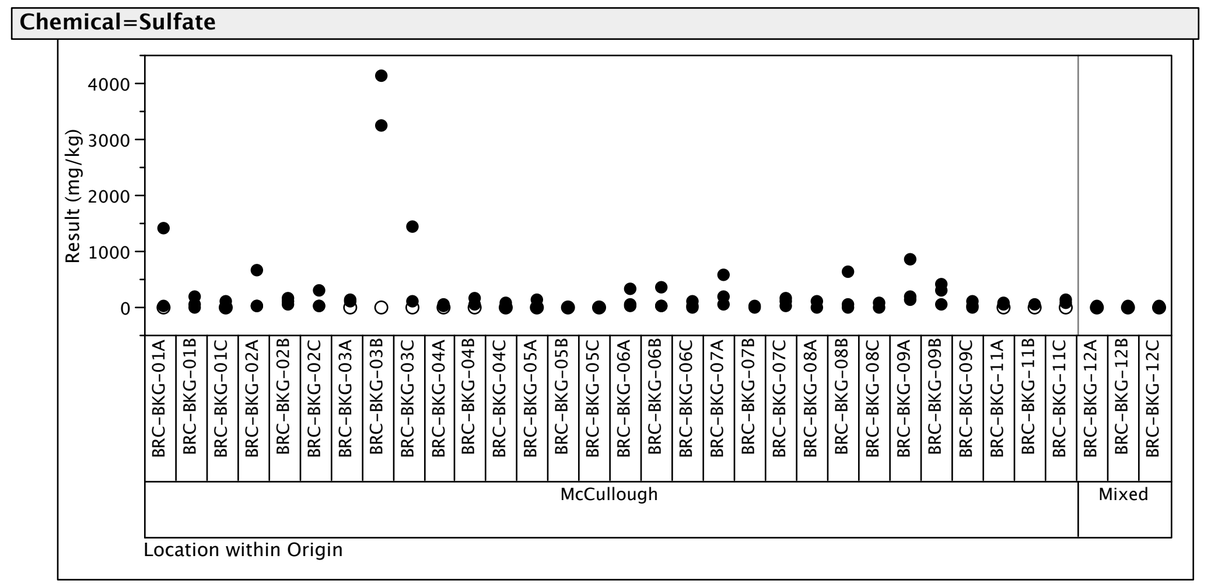
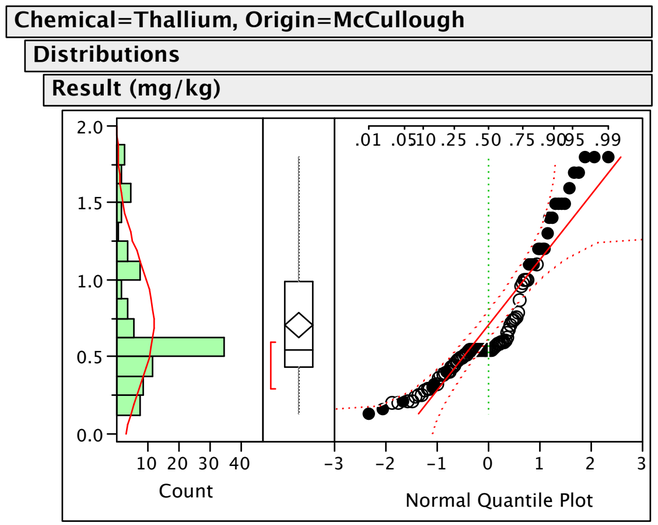
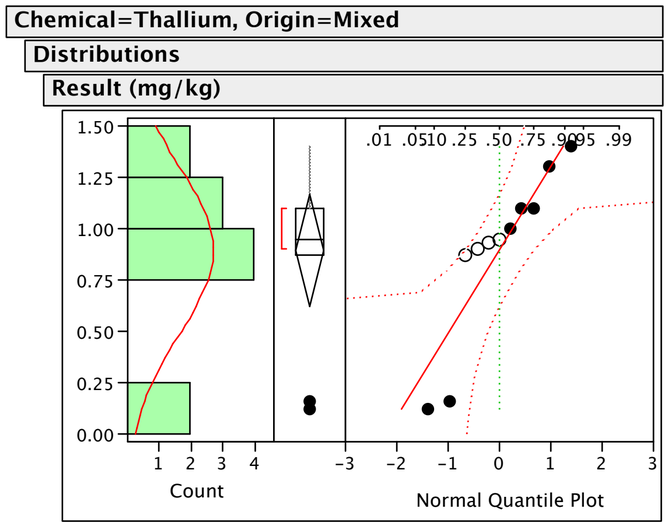
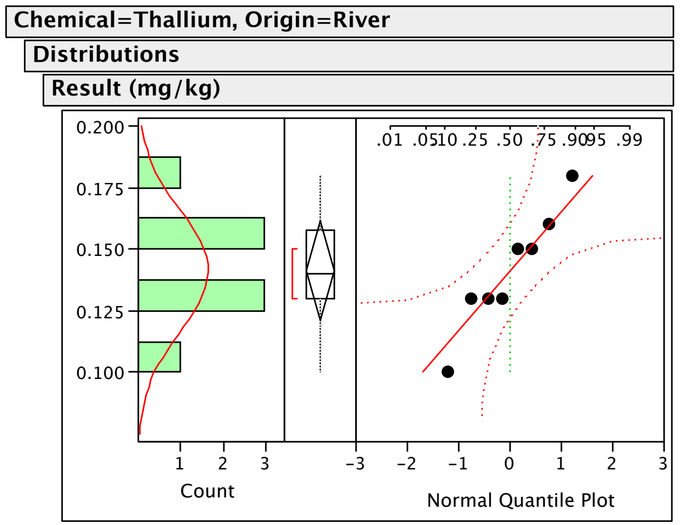


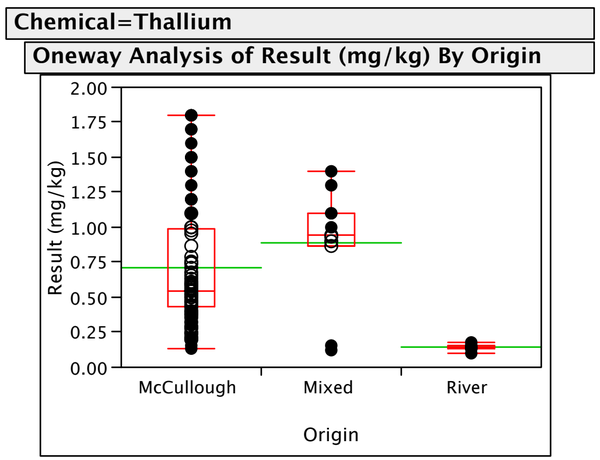
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









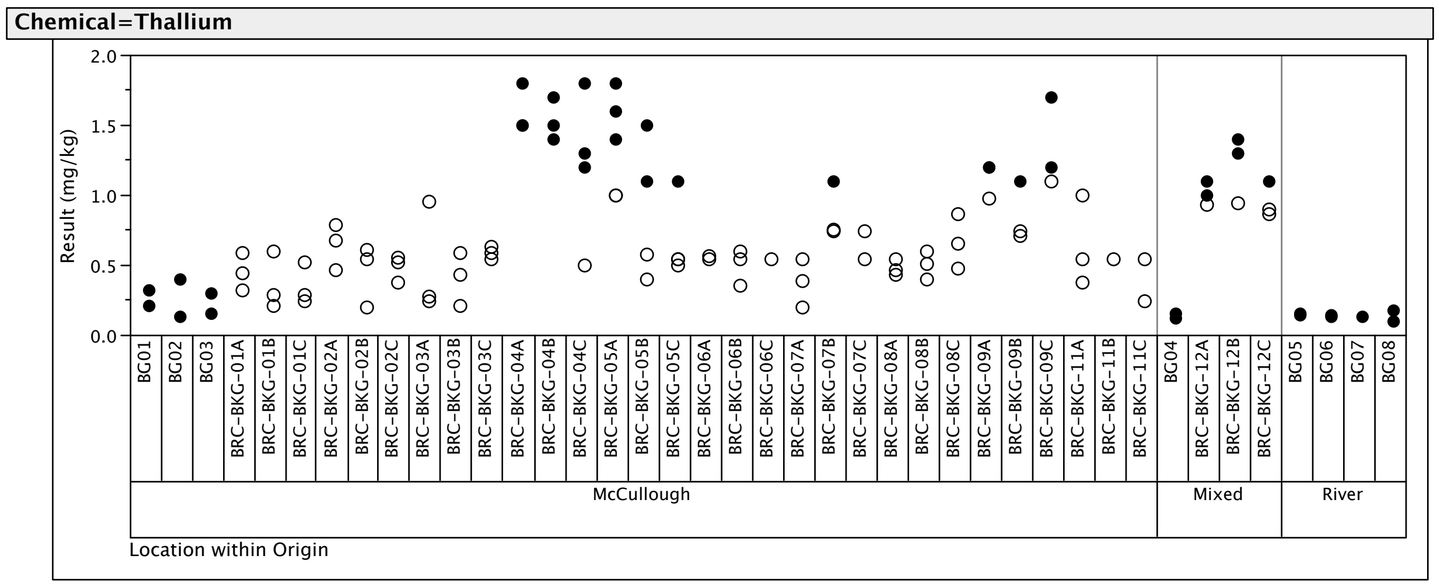
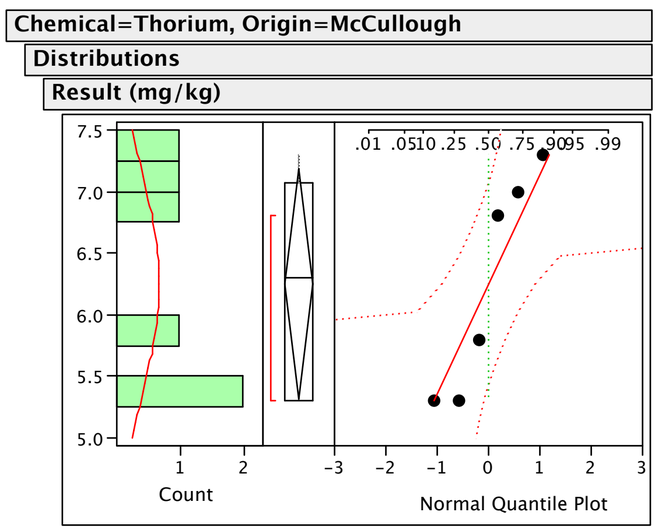
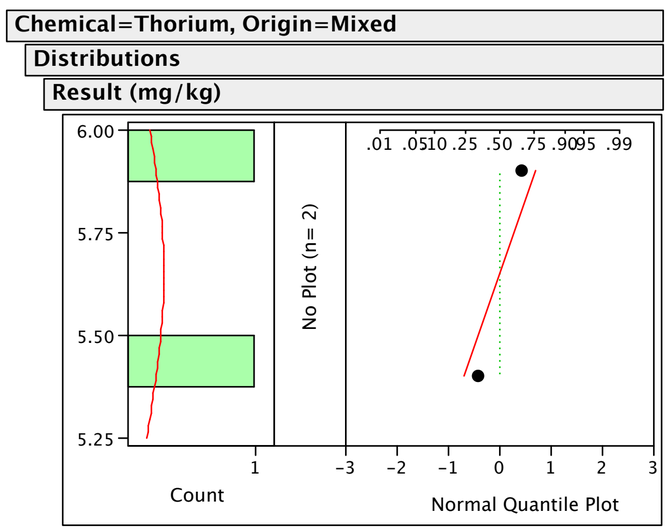
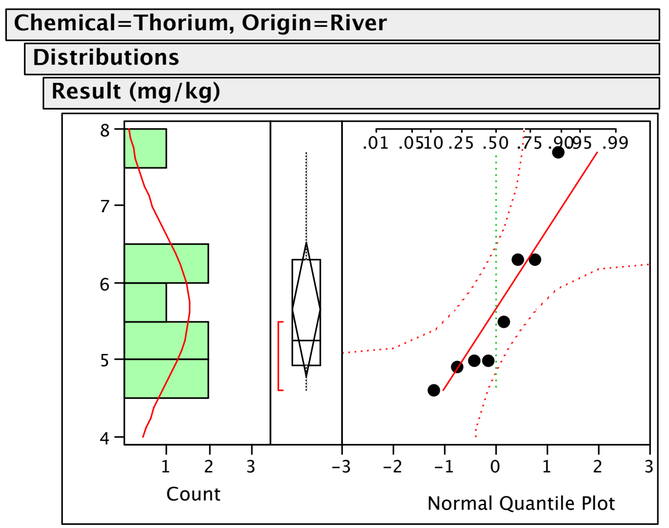


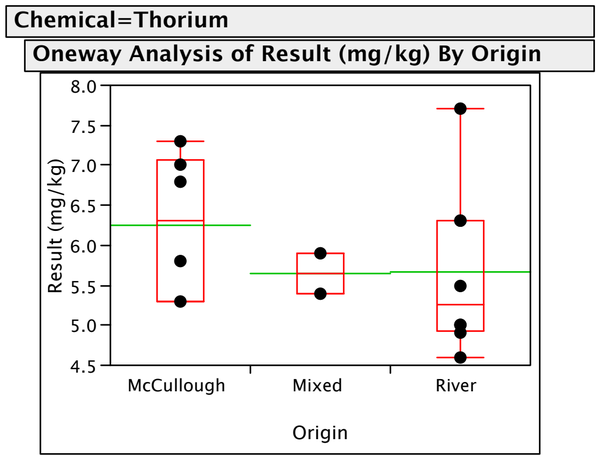
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









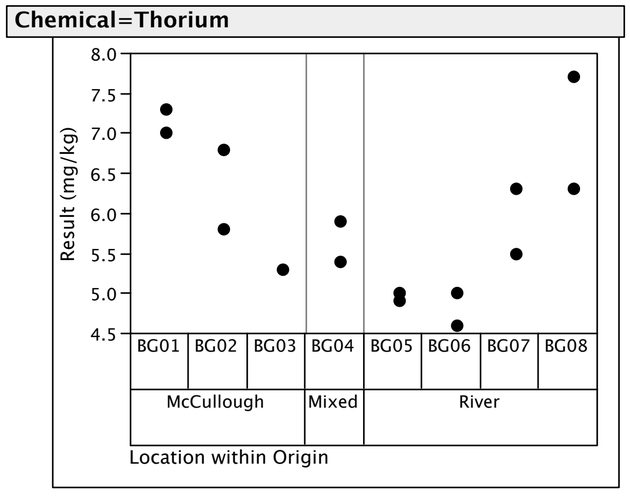
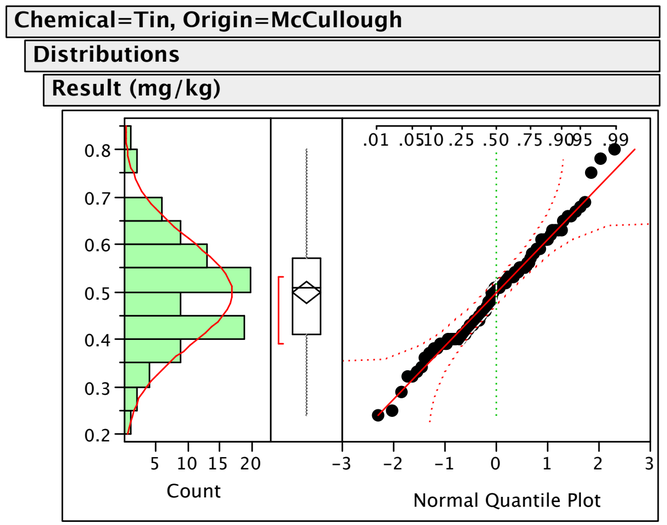
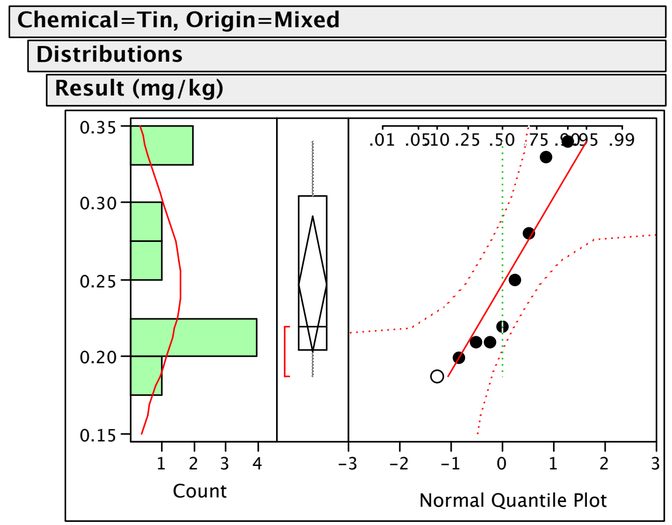
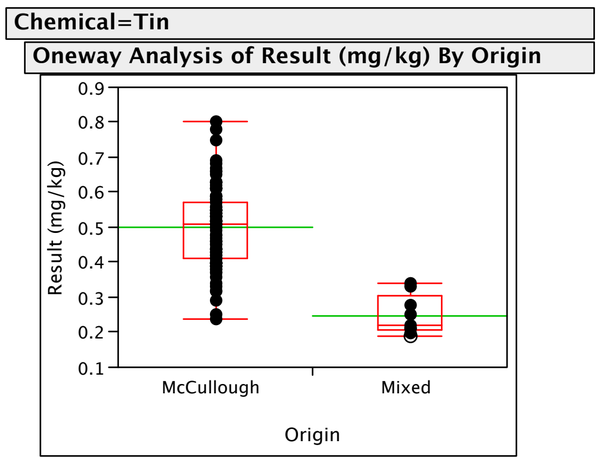


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







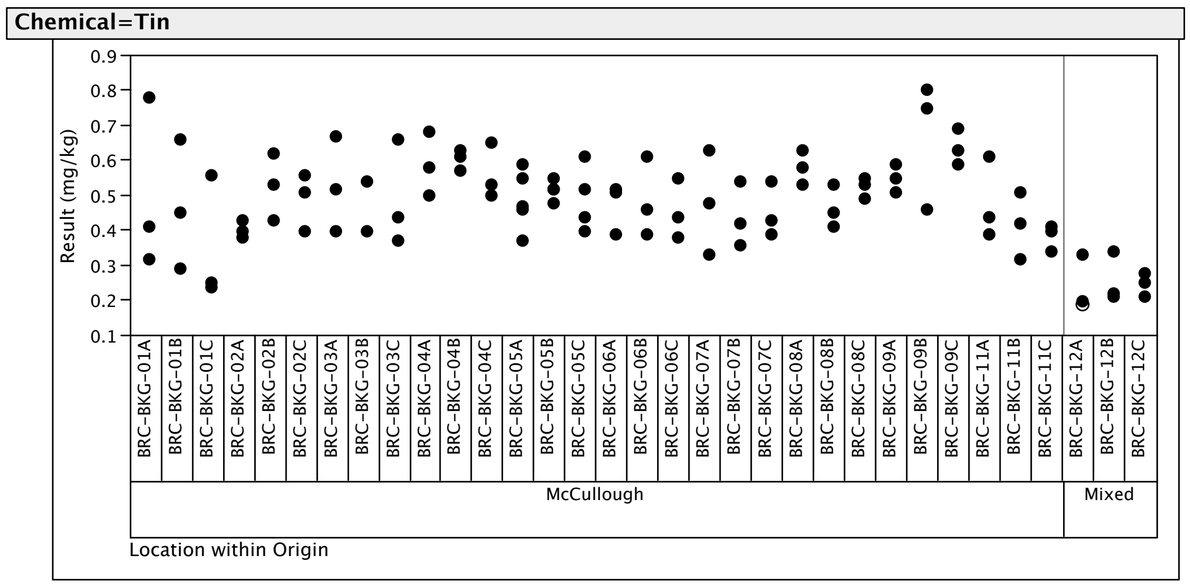
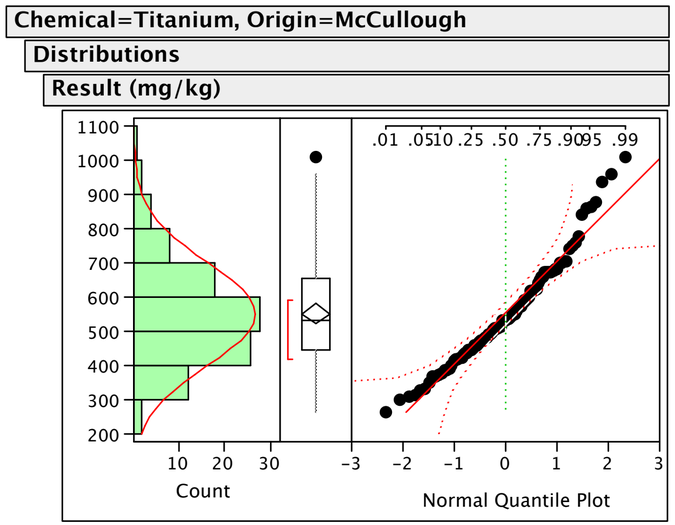
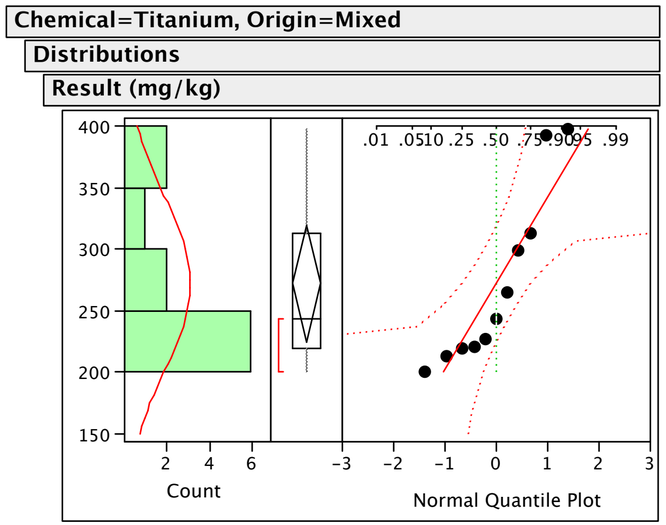
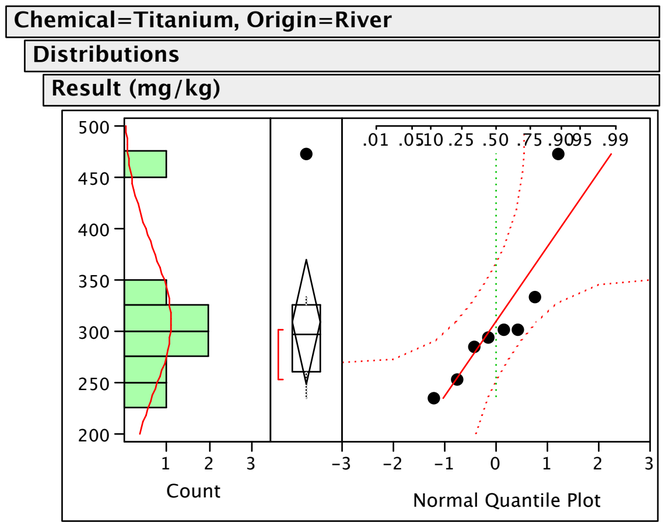


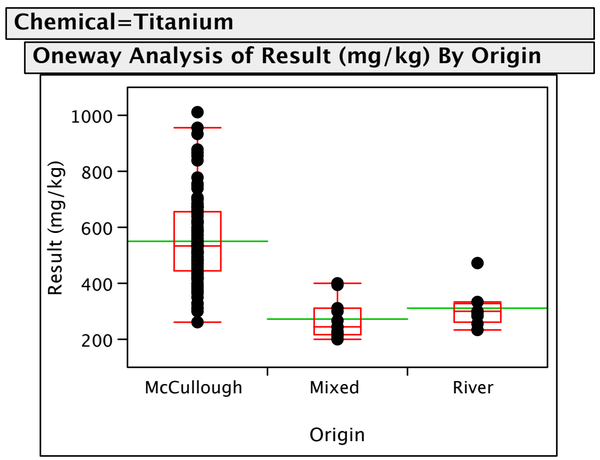
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









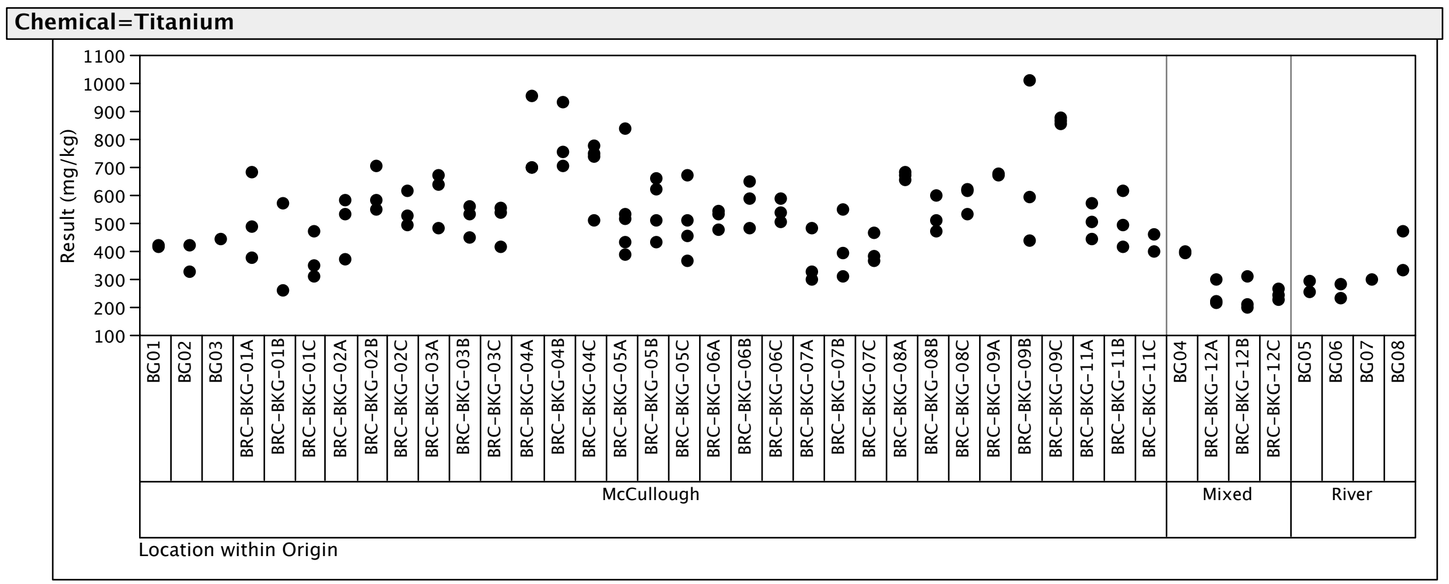
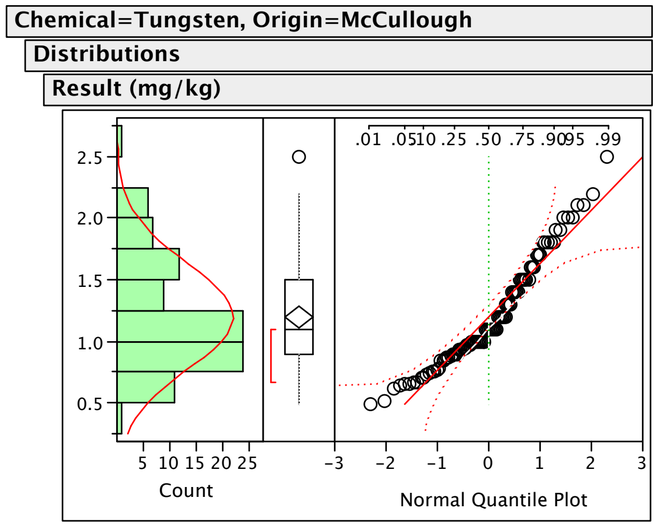
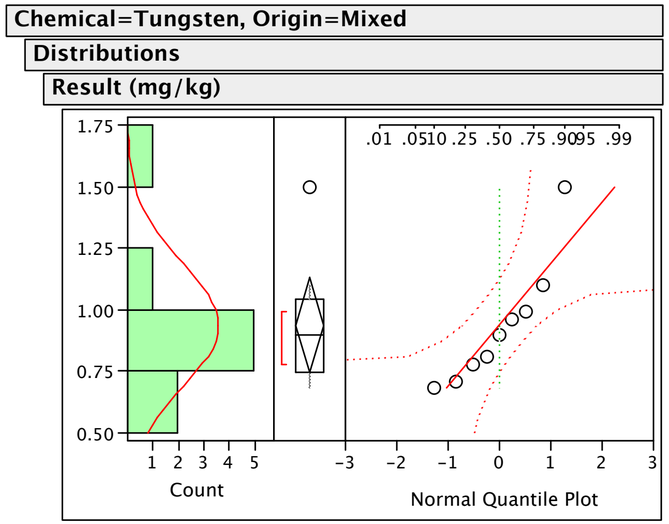
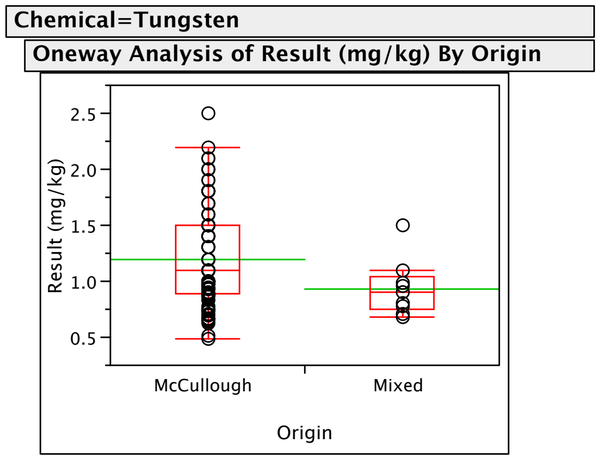


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







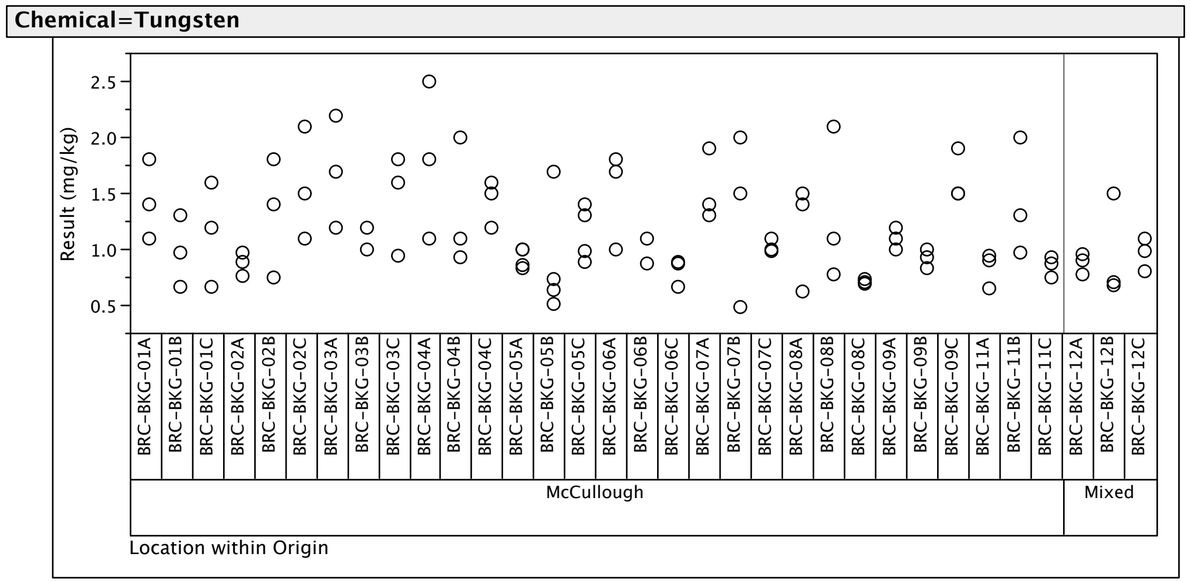
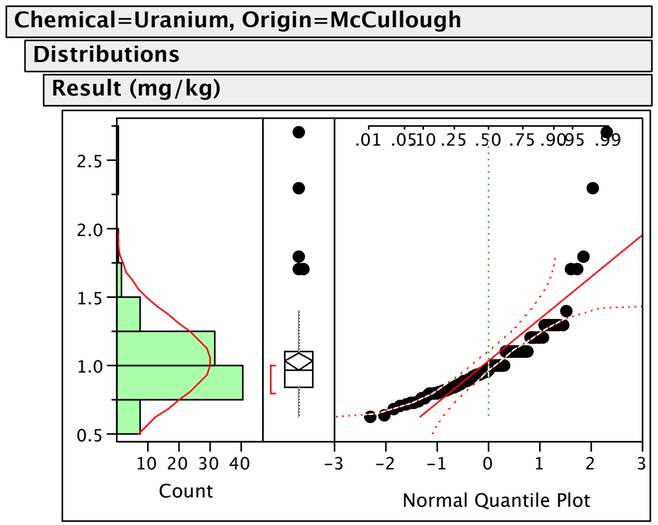
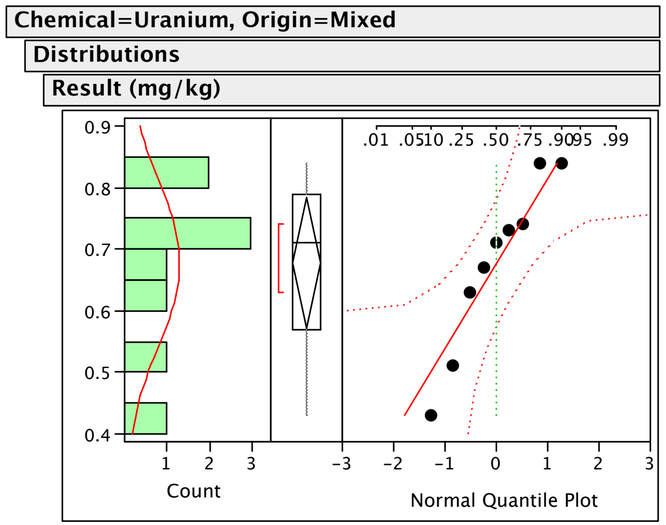
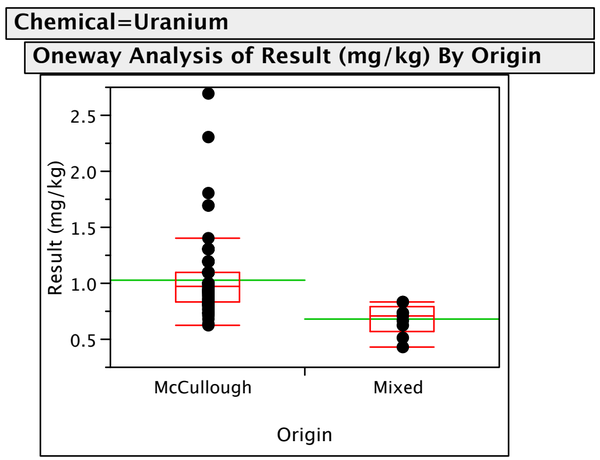


FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







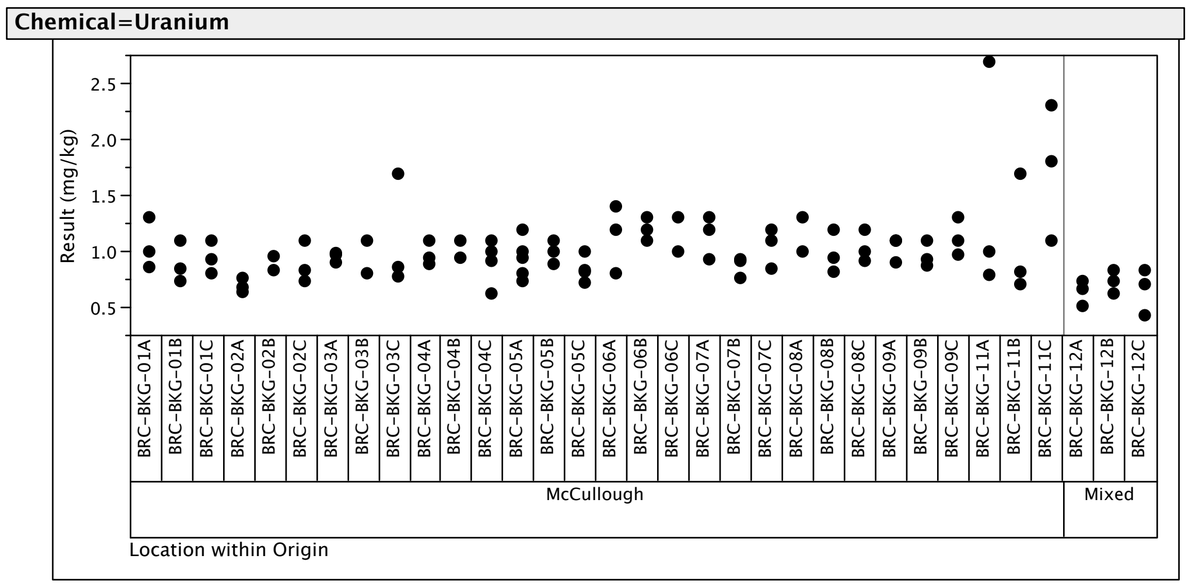
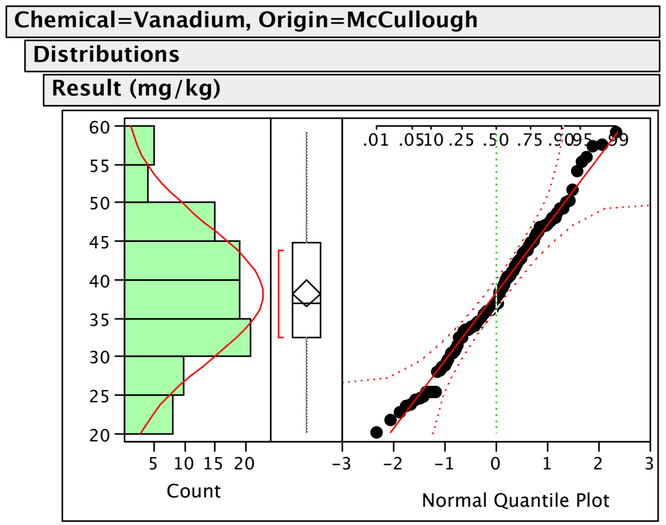
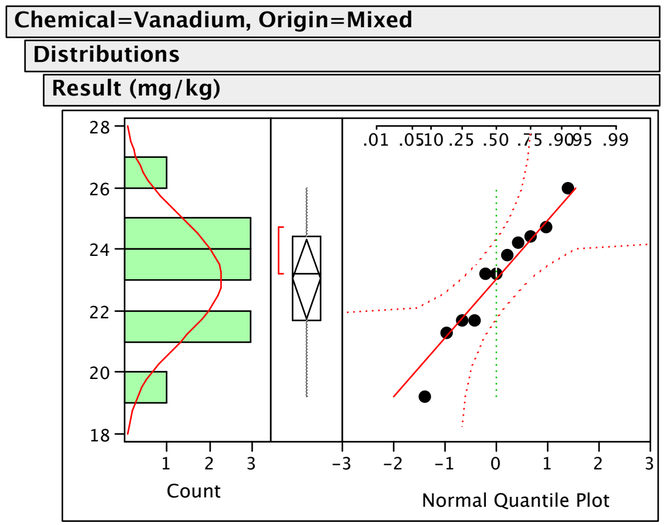
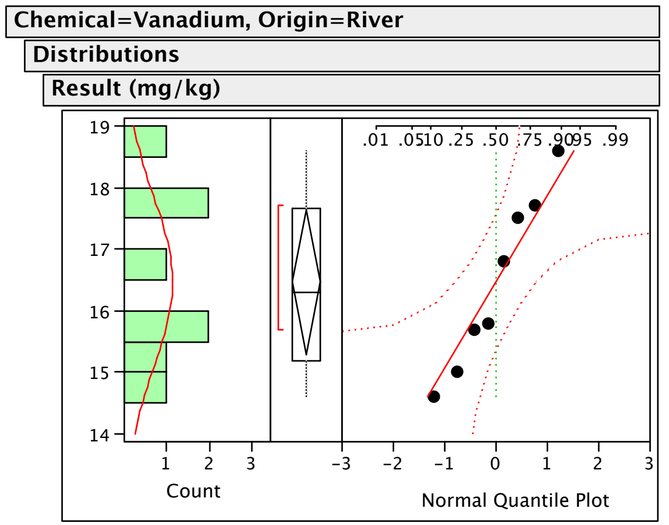


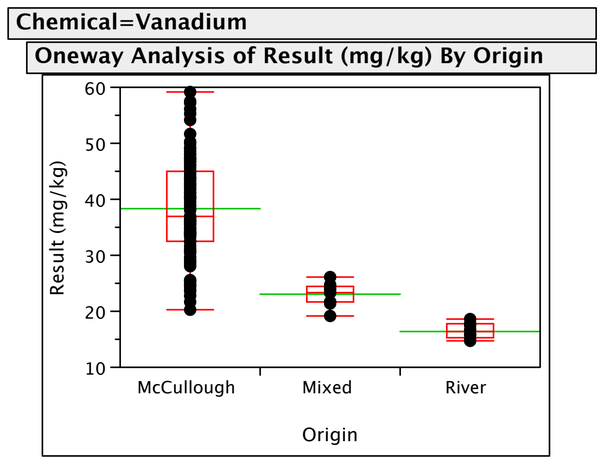
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









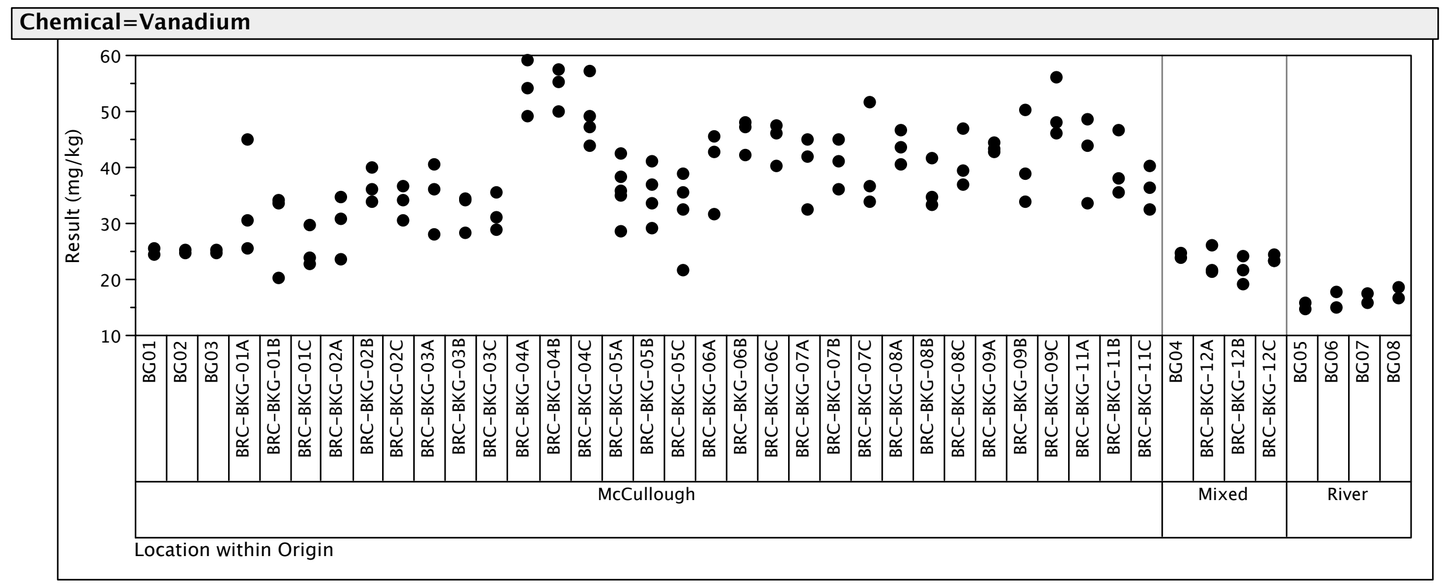
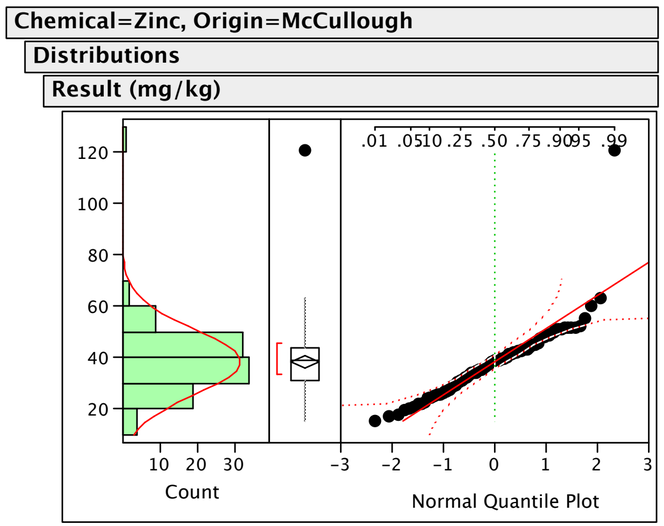
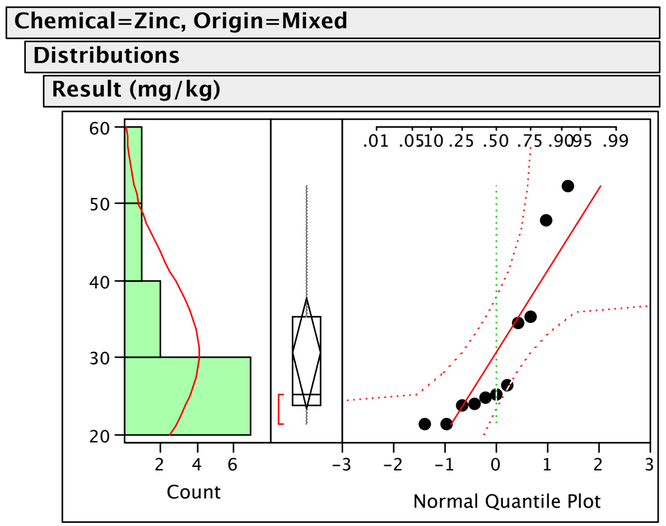
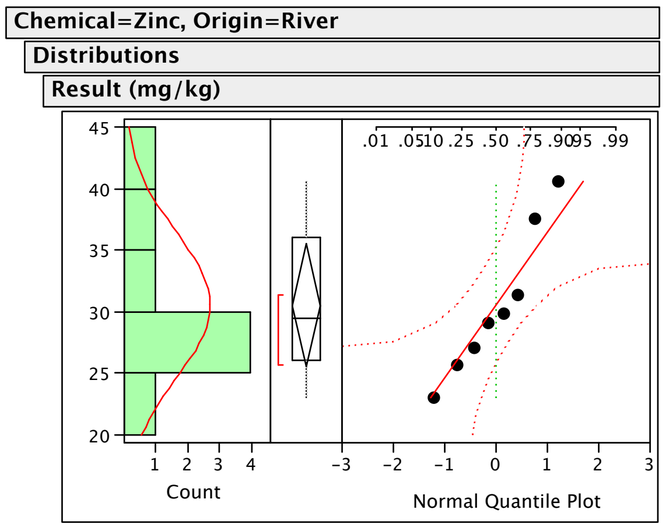


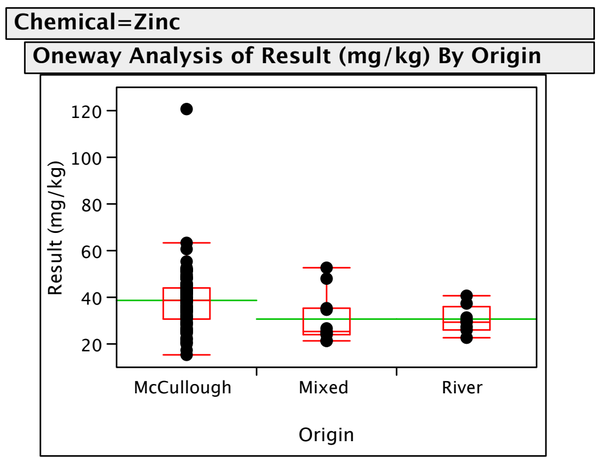
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









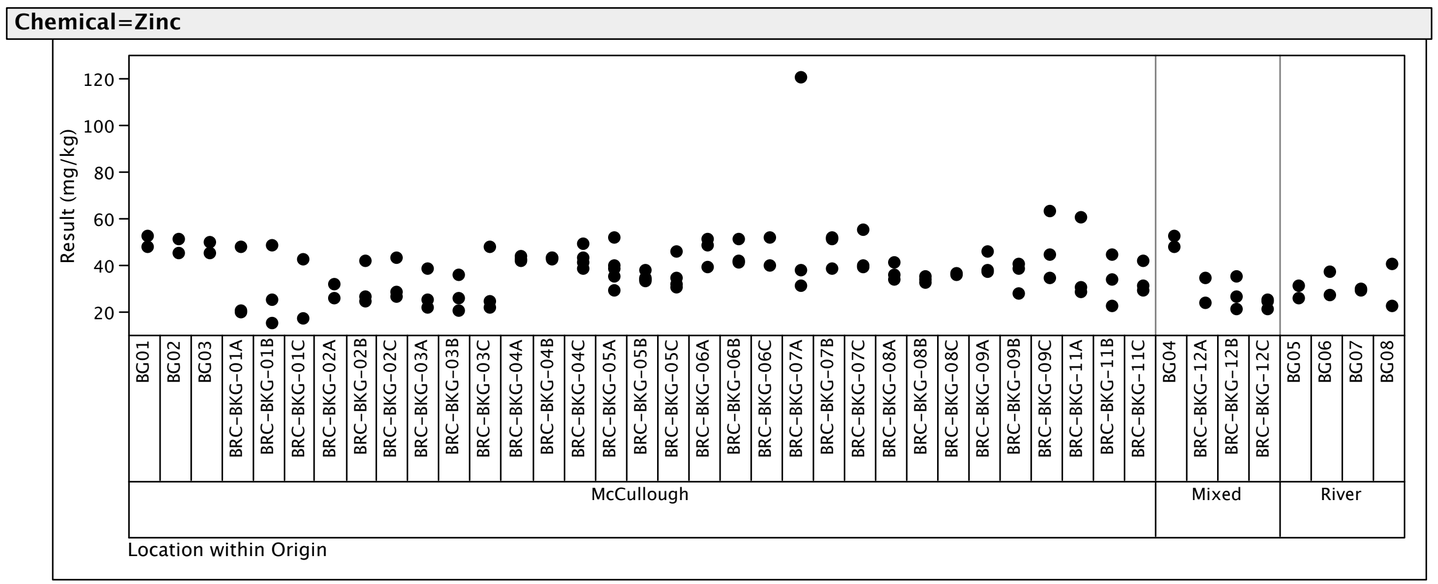
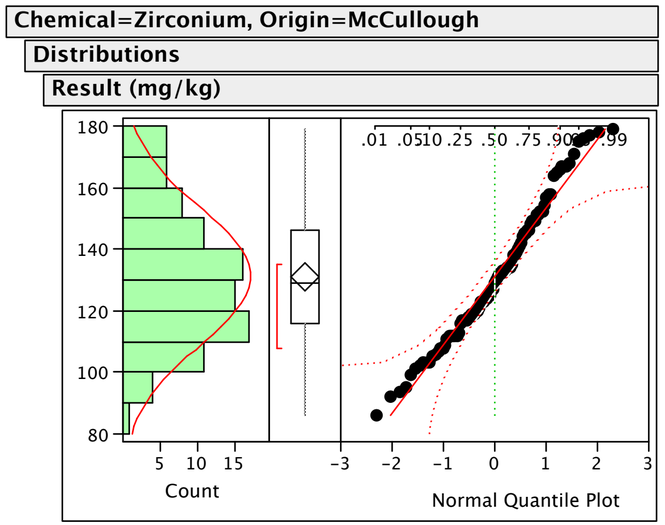
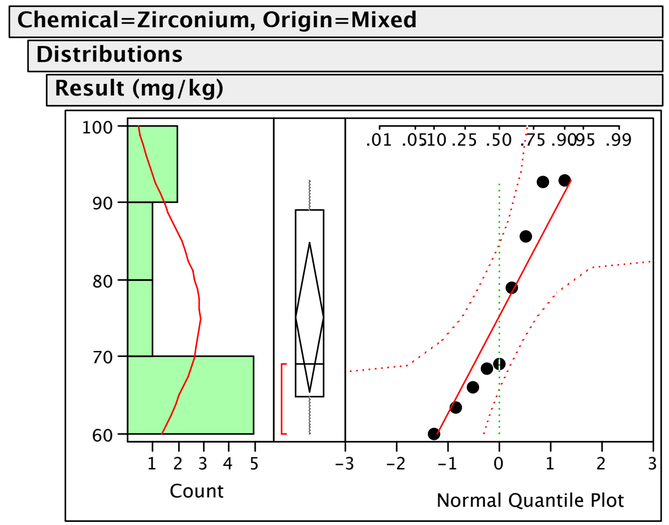
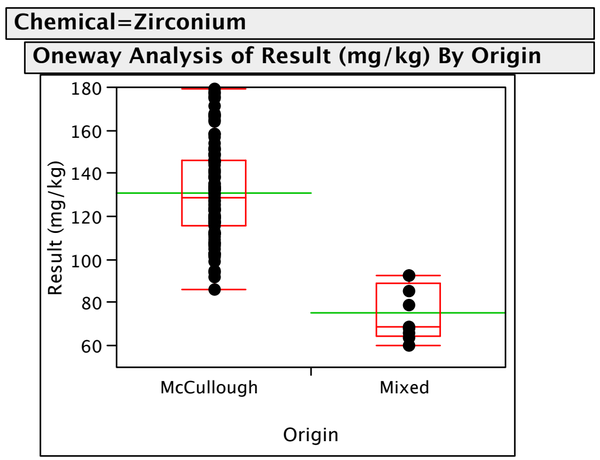


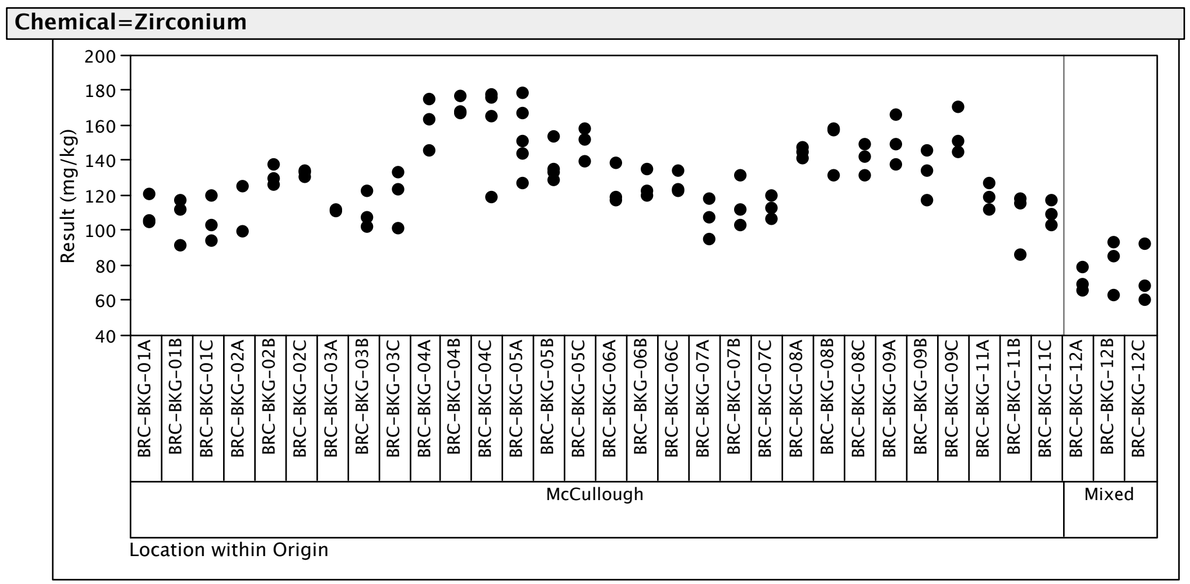
FIGURE G-5 (Continued)

COMPARISON OF METAL AND ANION CONCENTRATIONS IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN



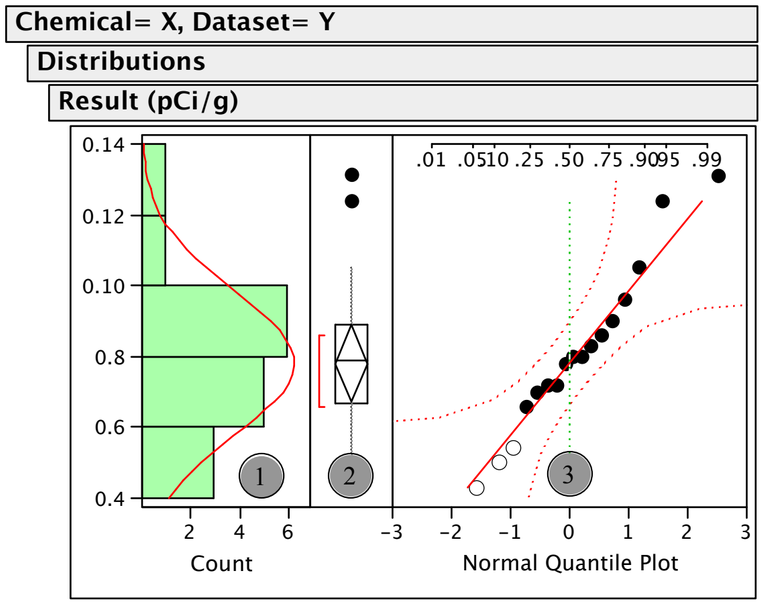


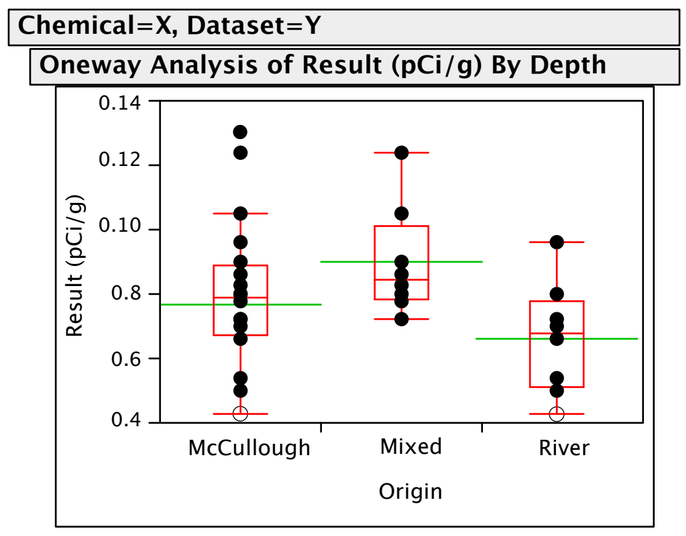




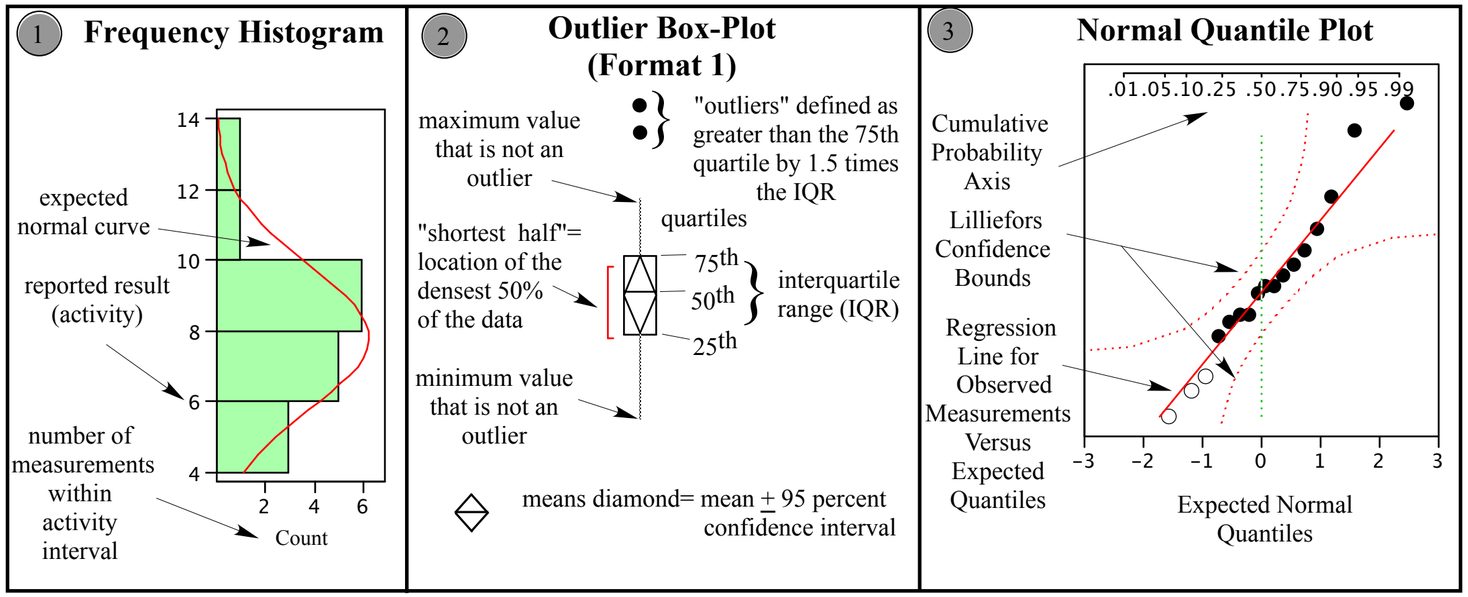
KEYS FOR INTERPRETING GRAPHICS IN FIGURE G-6

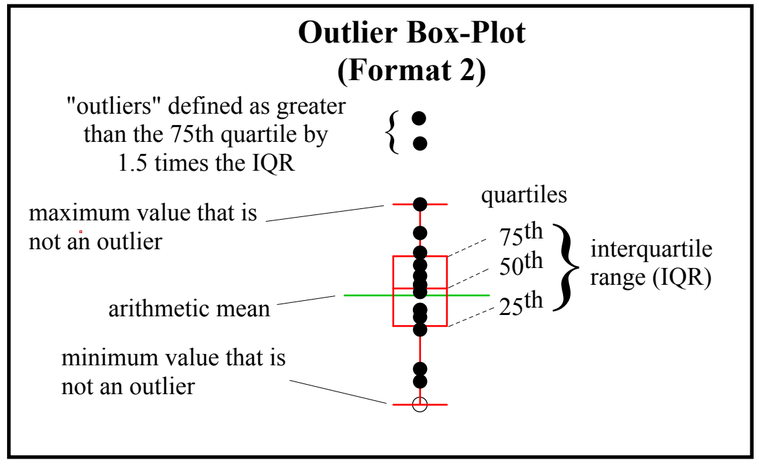
Example Figures From Appendix





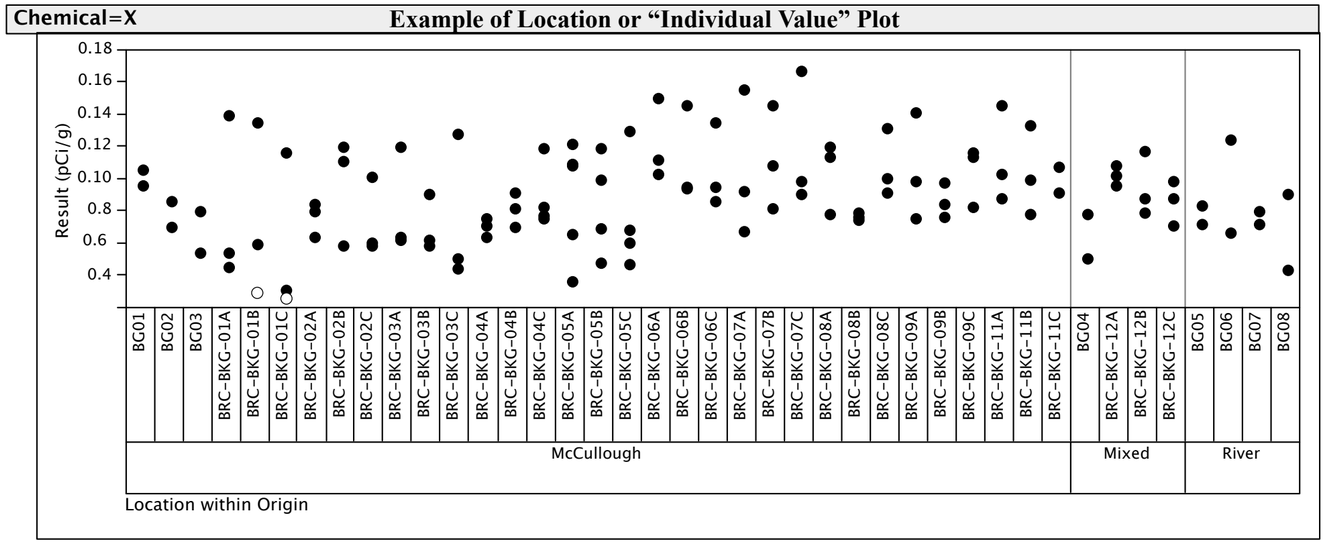
Keys to Individual Figure Panels





detected result

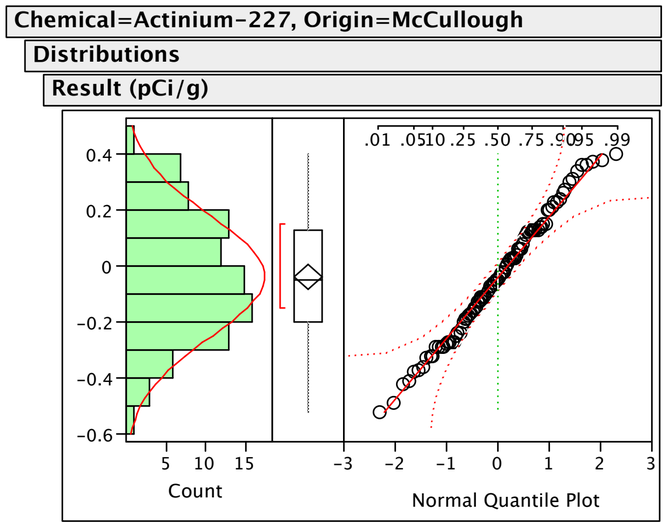
censored result

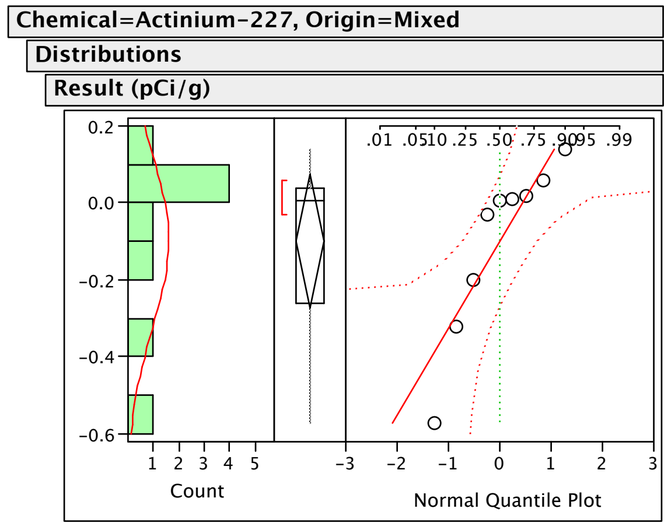


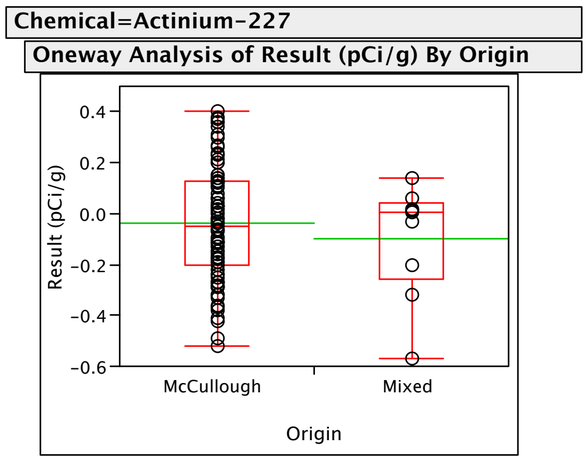
Results are Plottted for Individual Locations and Grouped by Soil Origin

FIGURE G-6

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







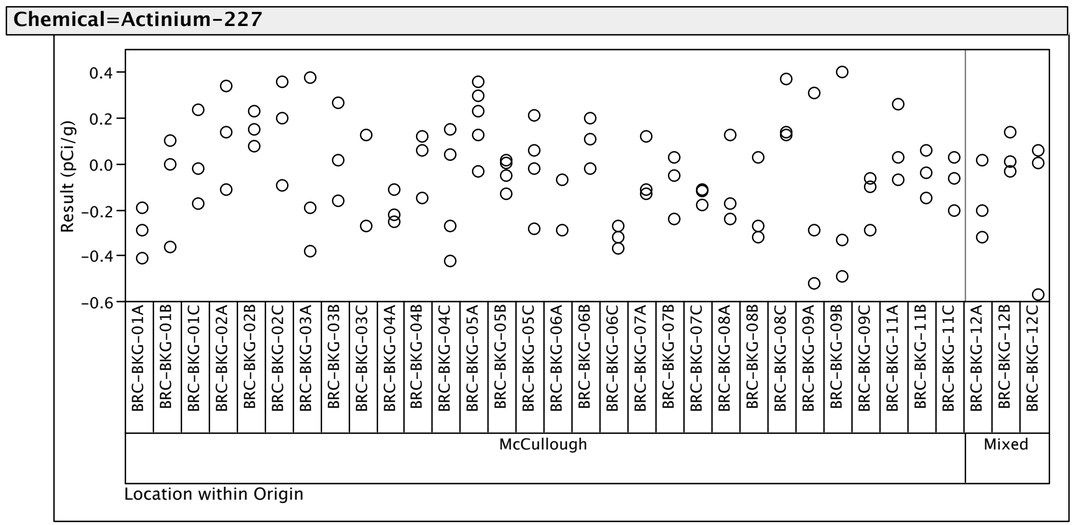
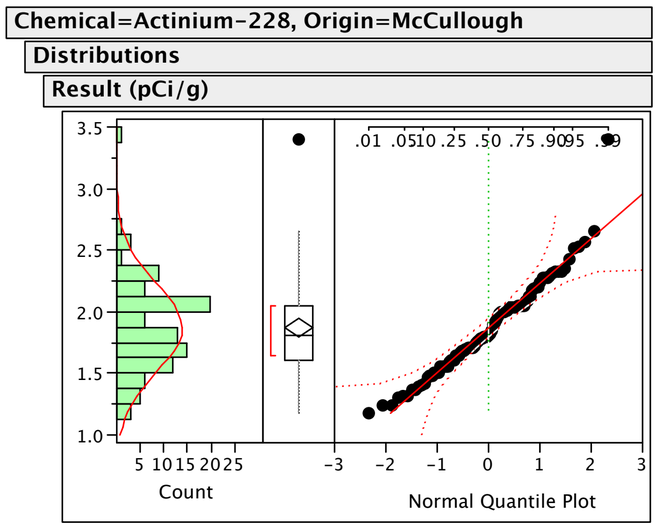
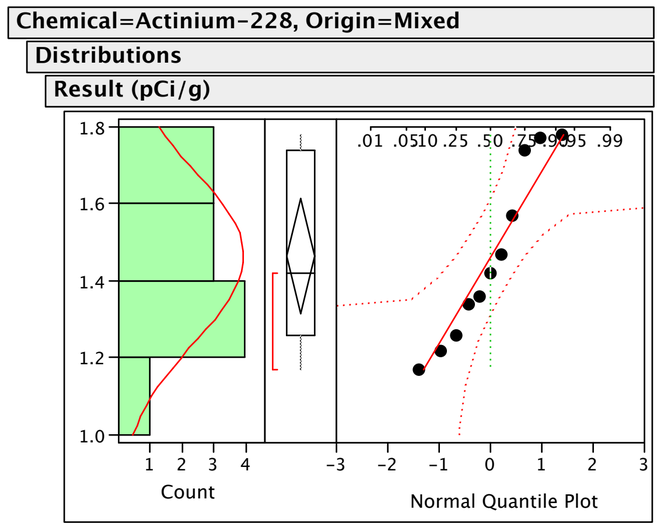
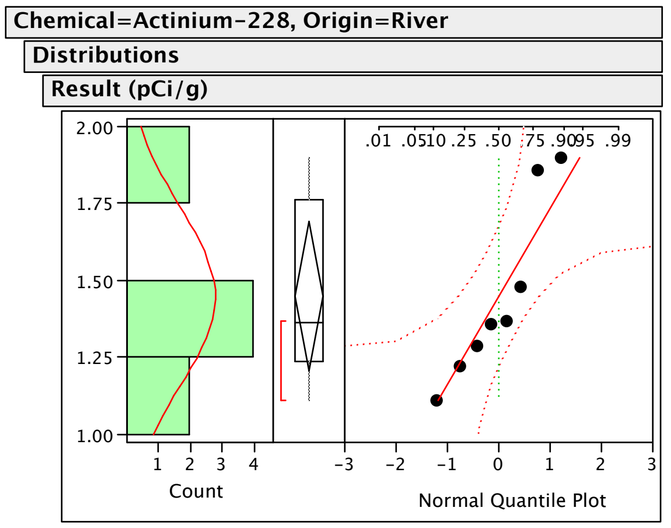


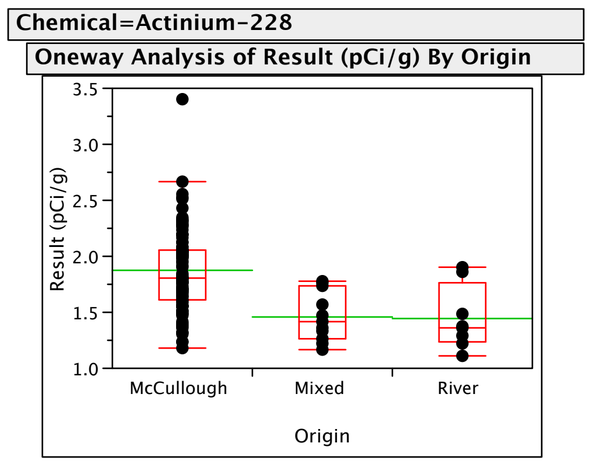
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









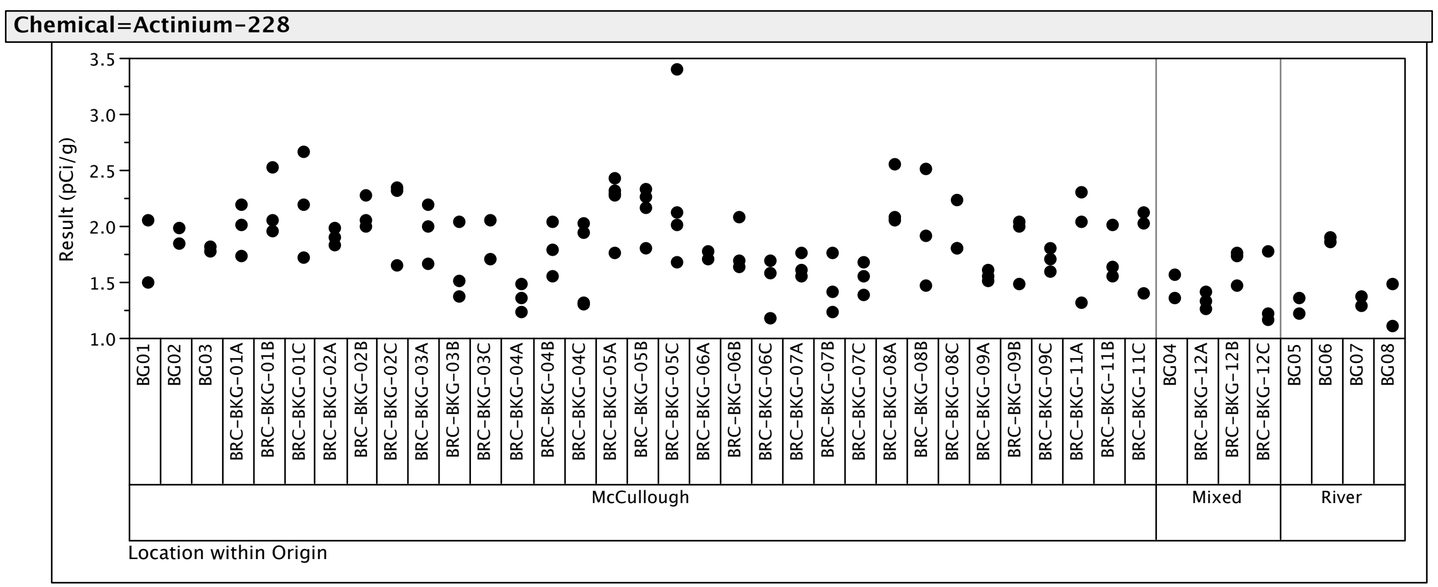
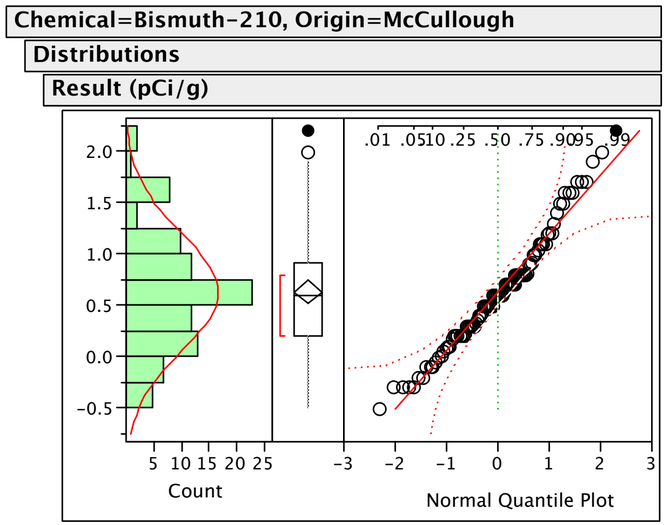
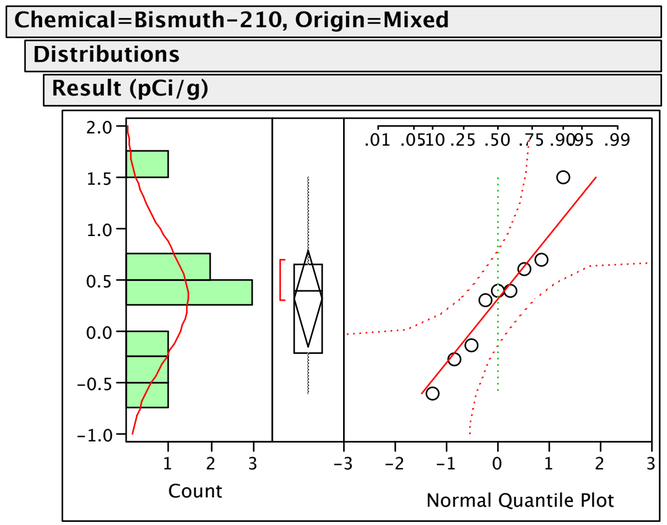
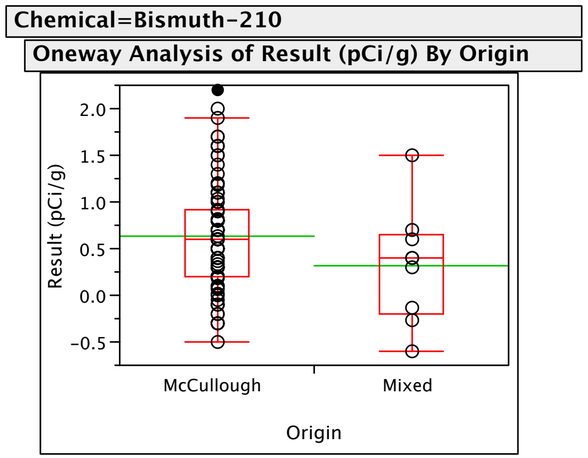


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







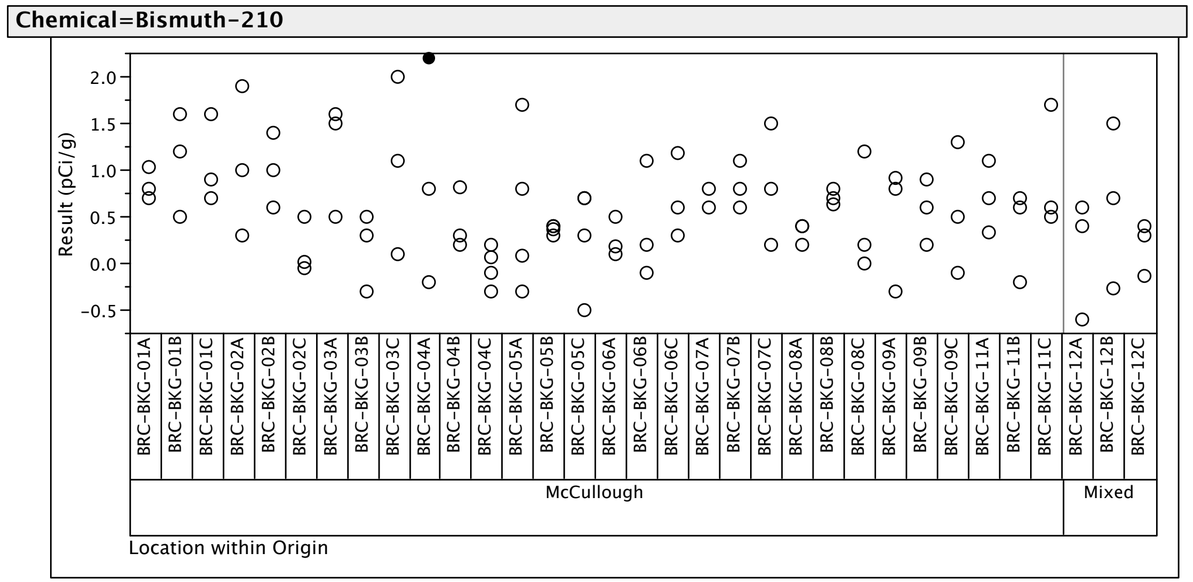
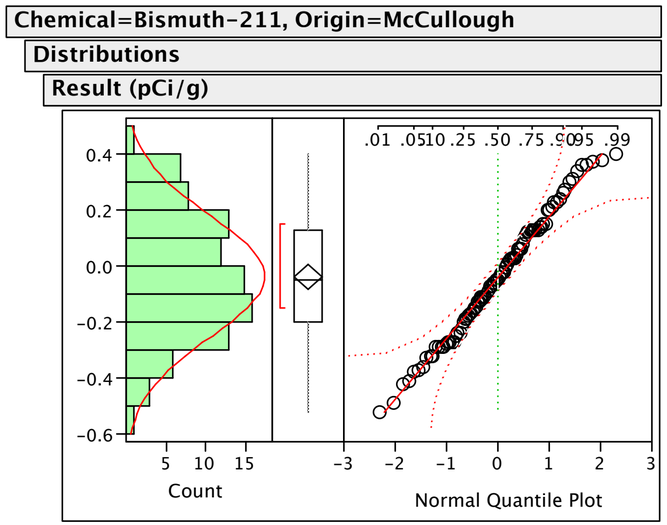
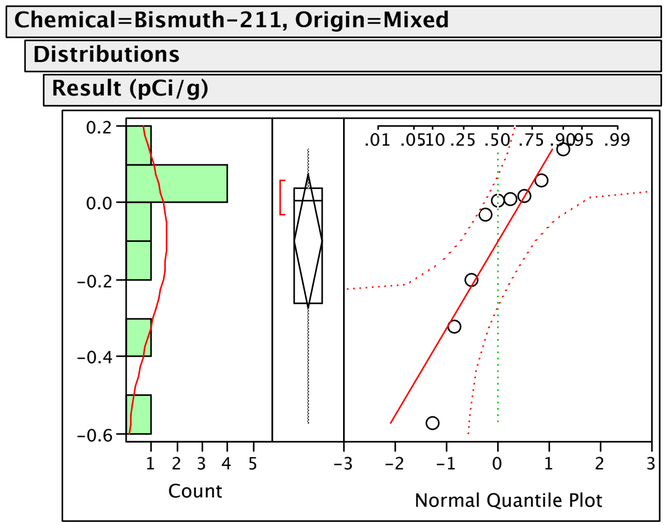
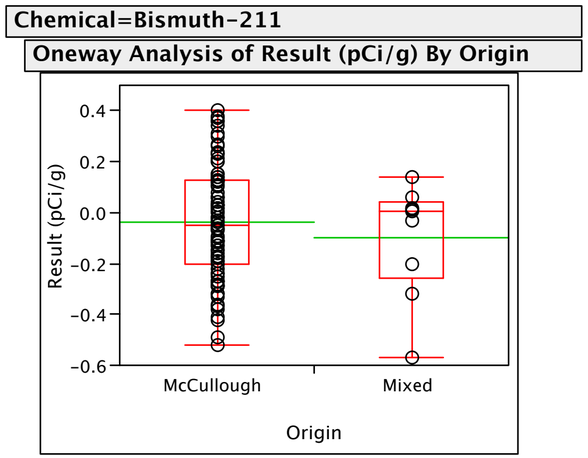


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







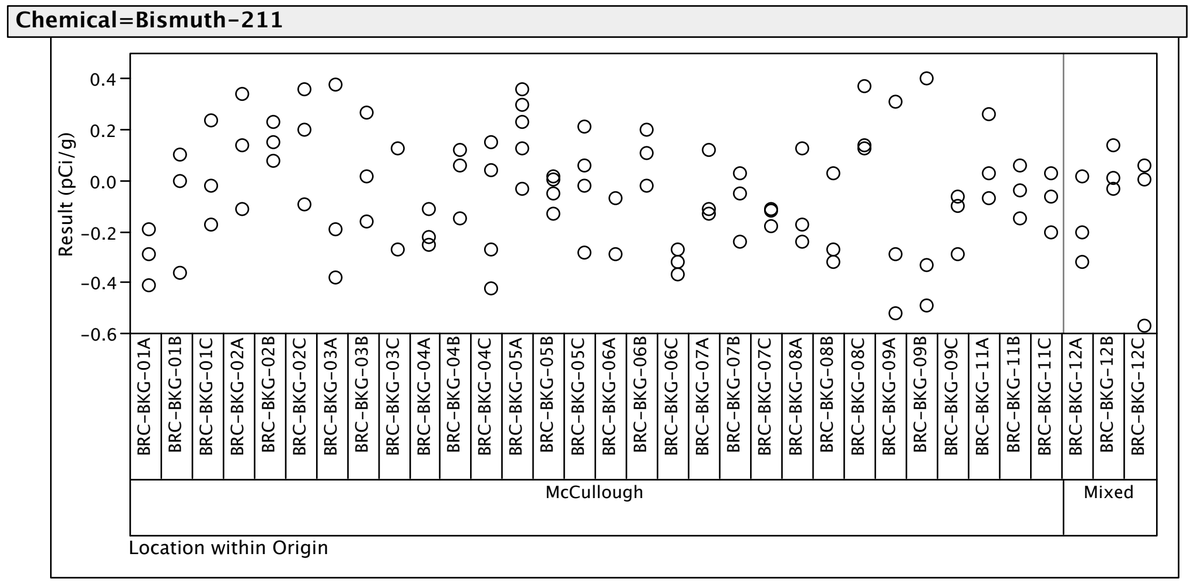
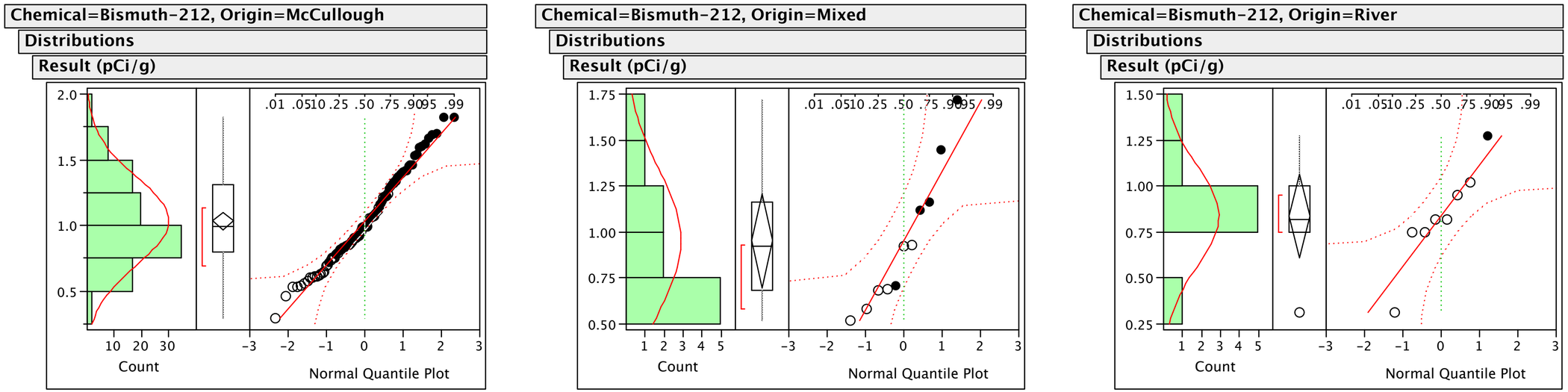
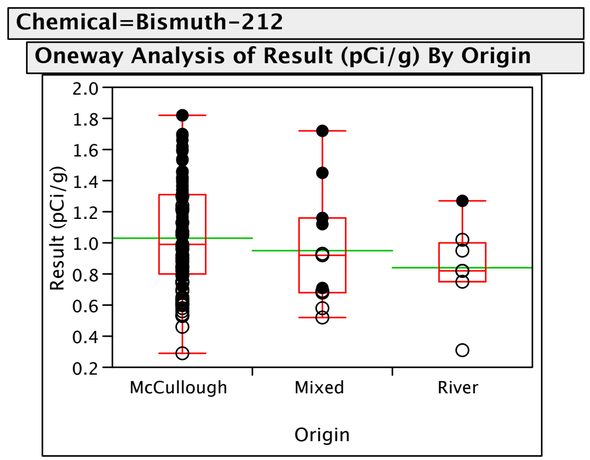


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





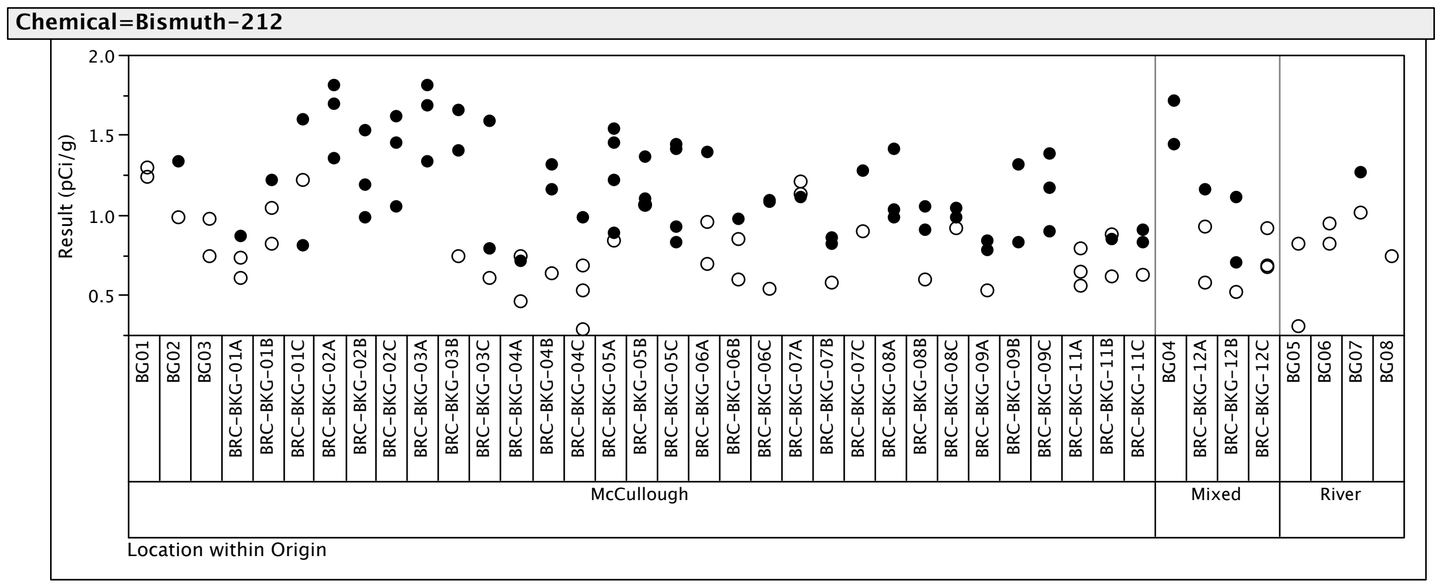
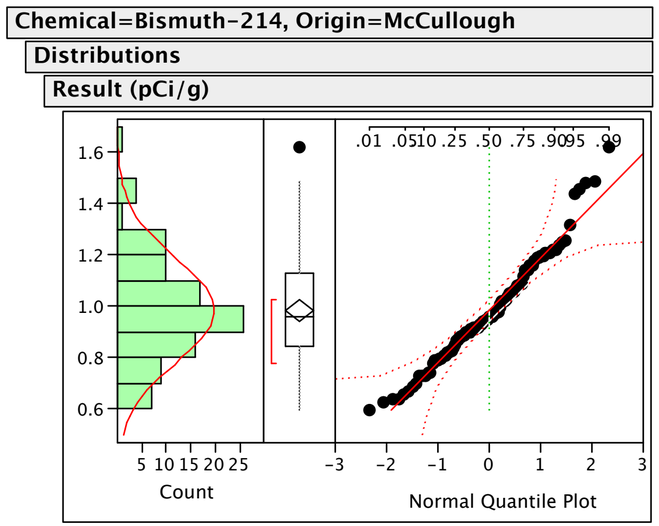
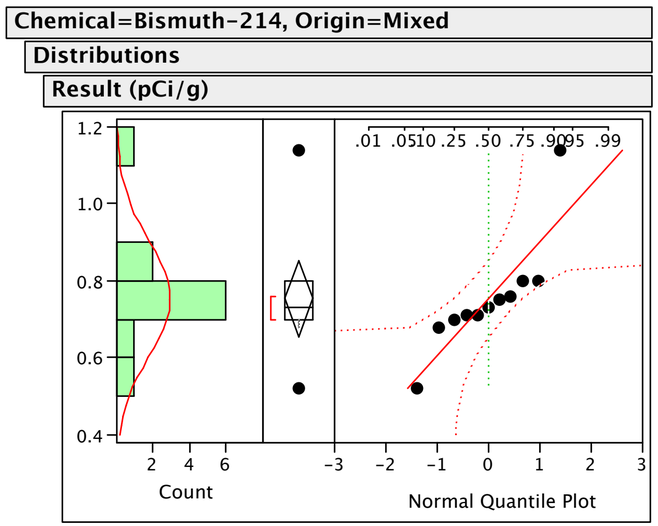
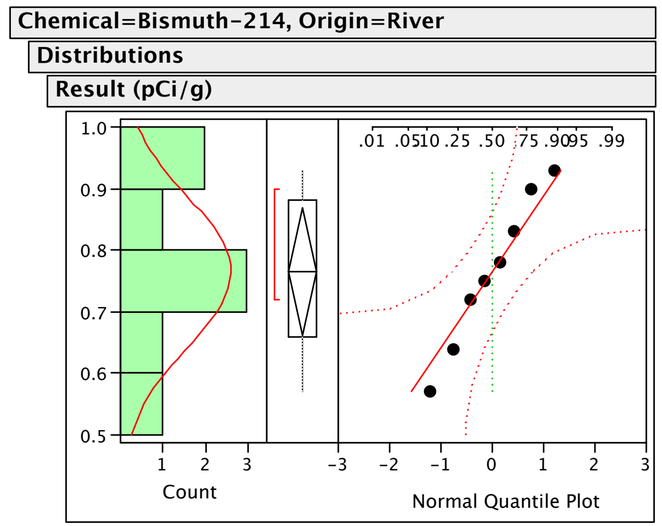


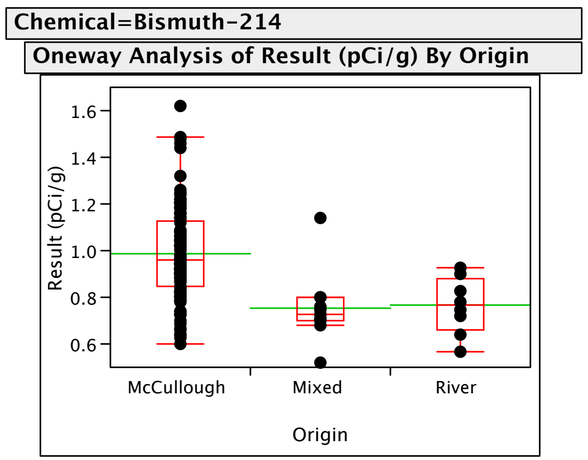
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









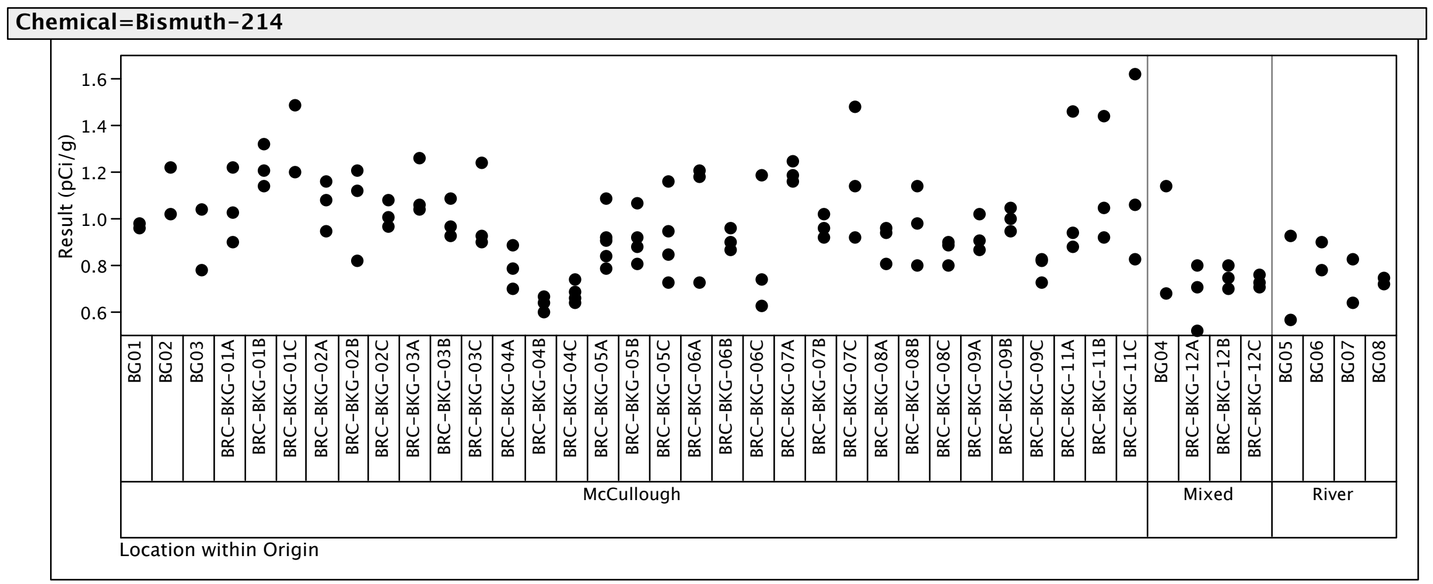
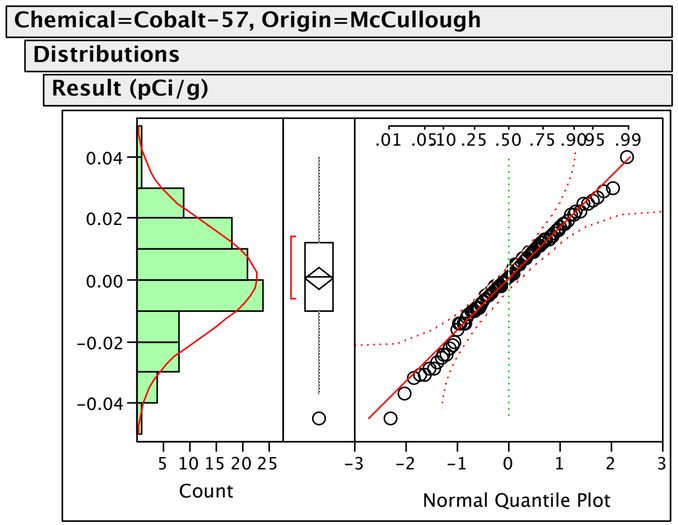
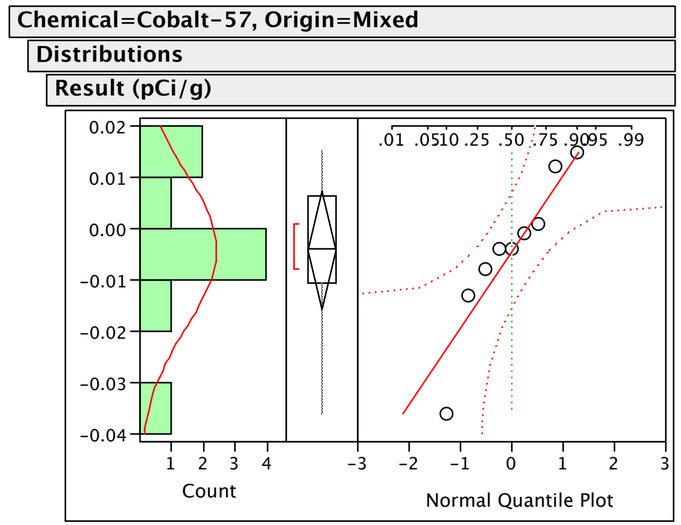
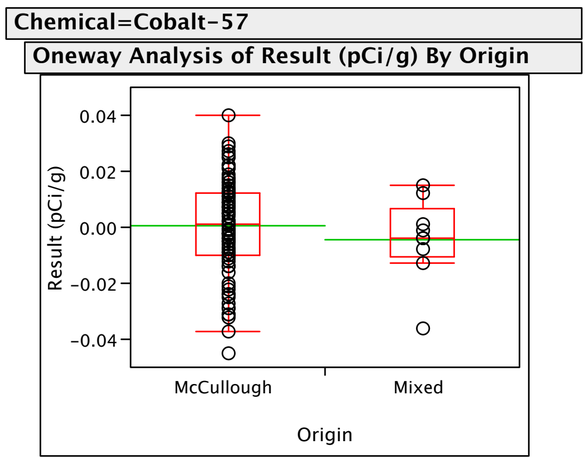


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







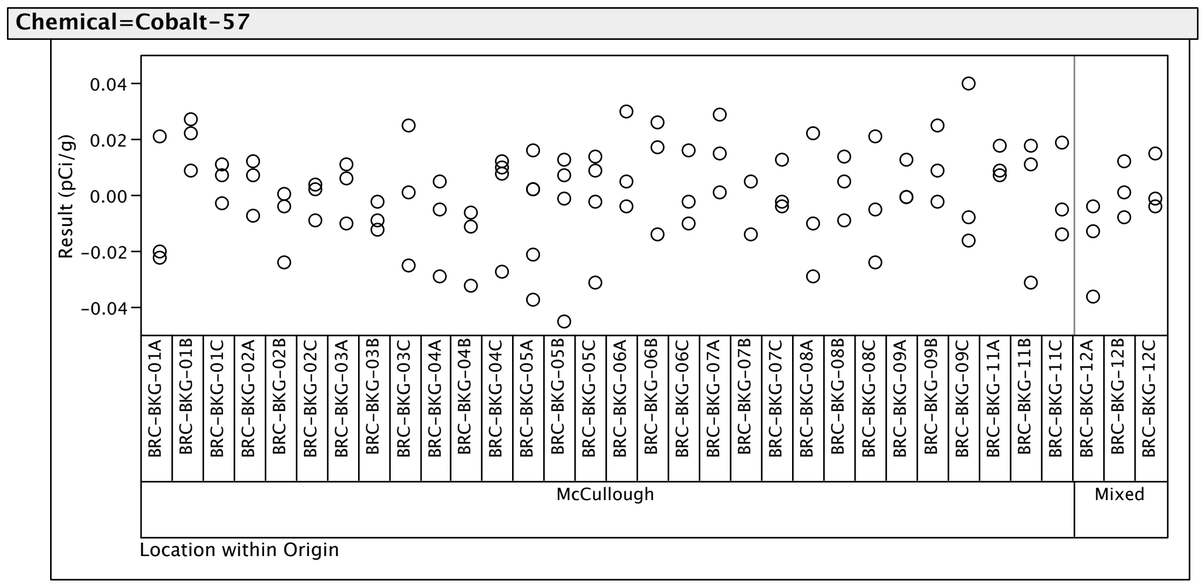
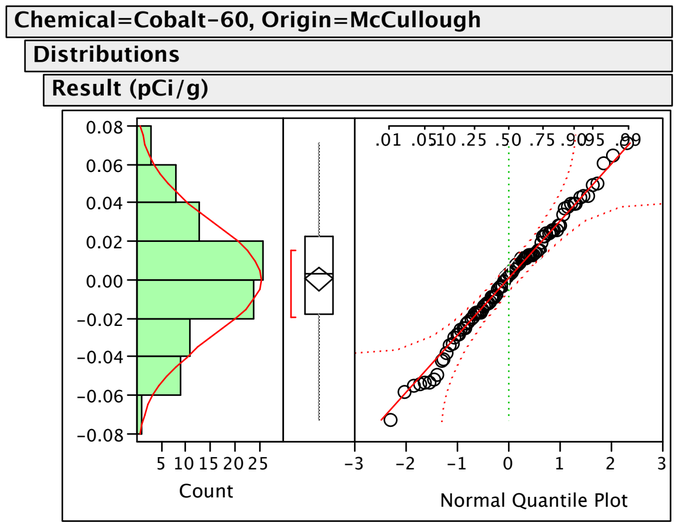
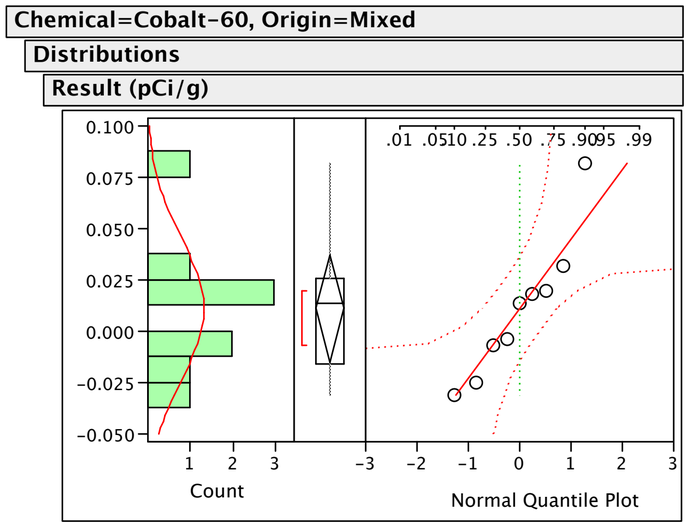
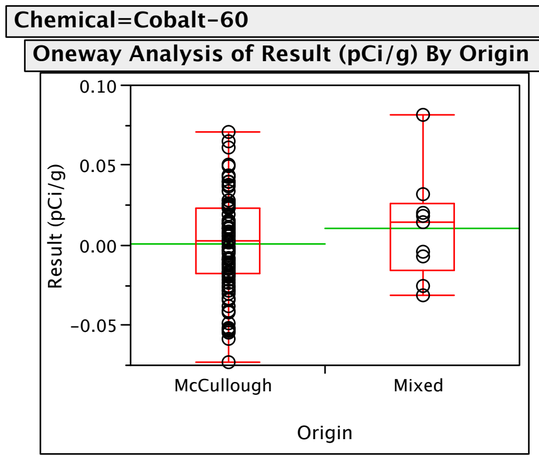


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







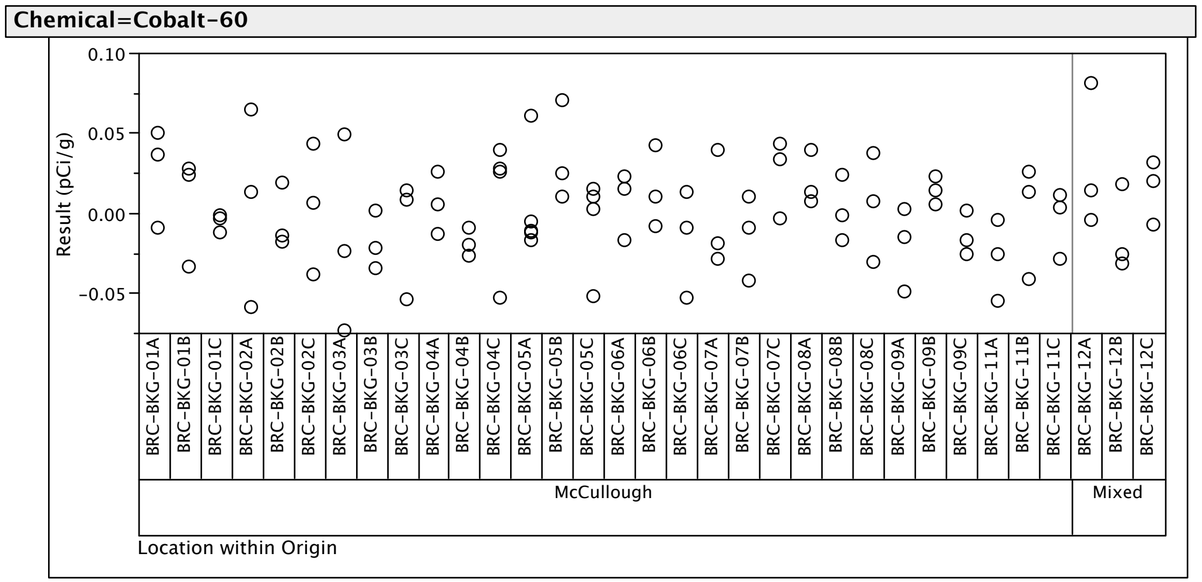
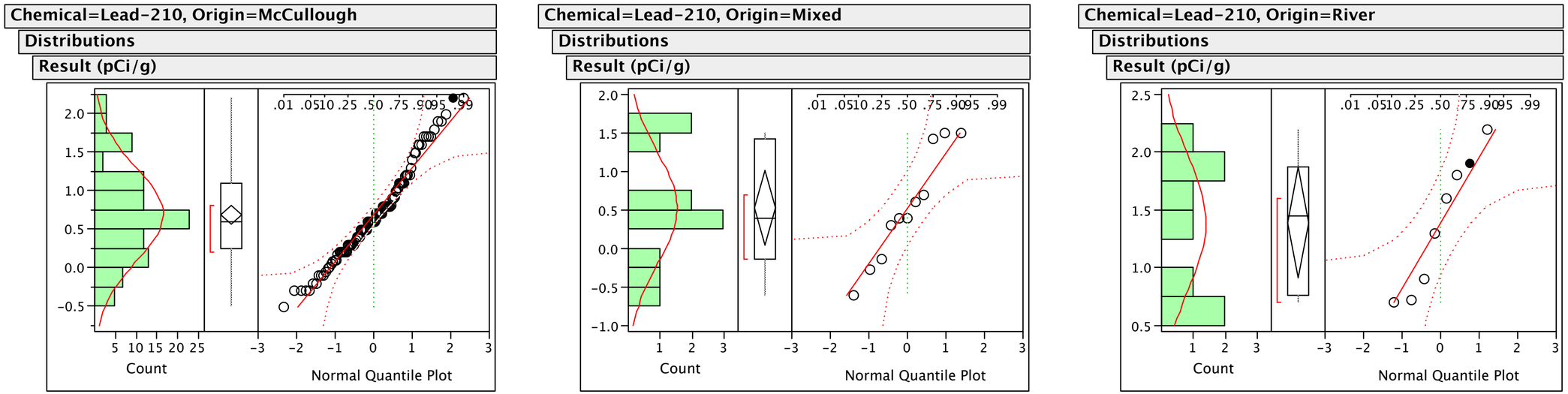
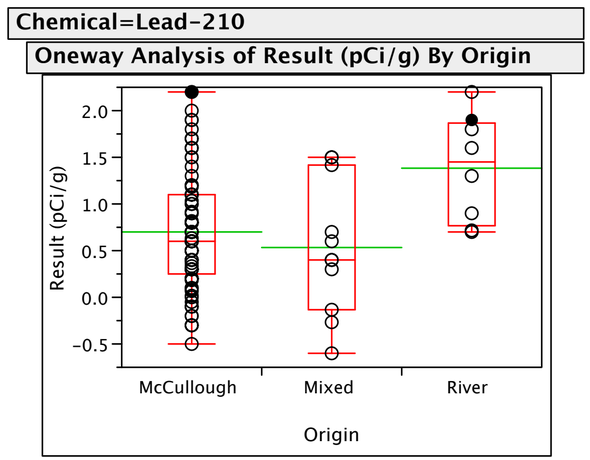


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





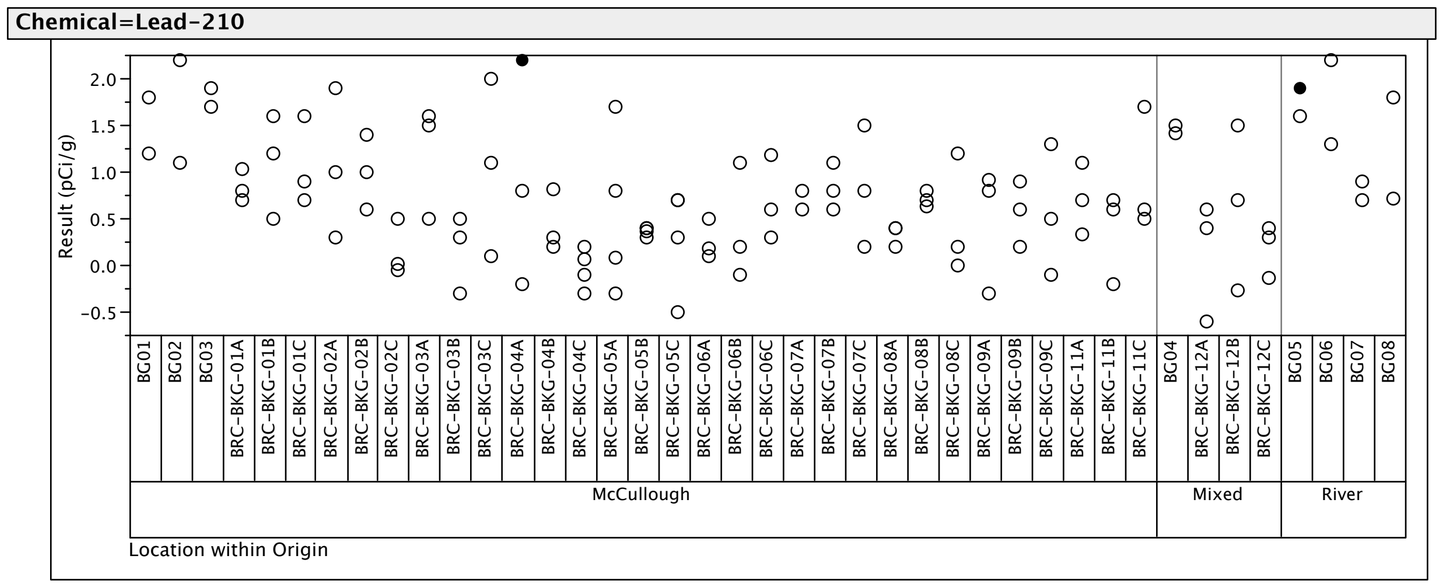
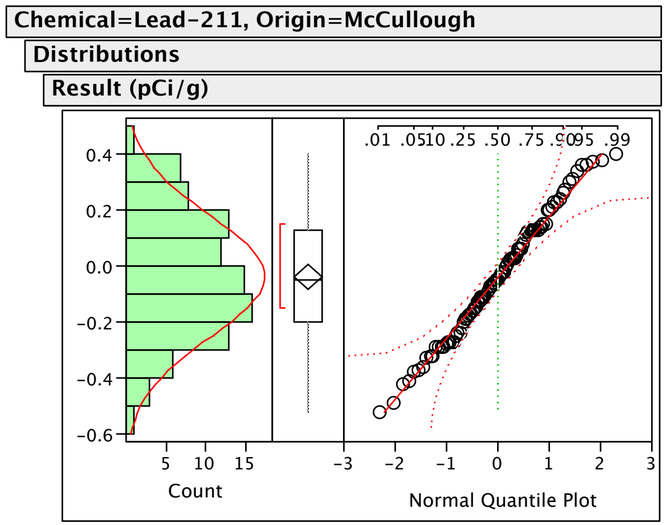
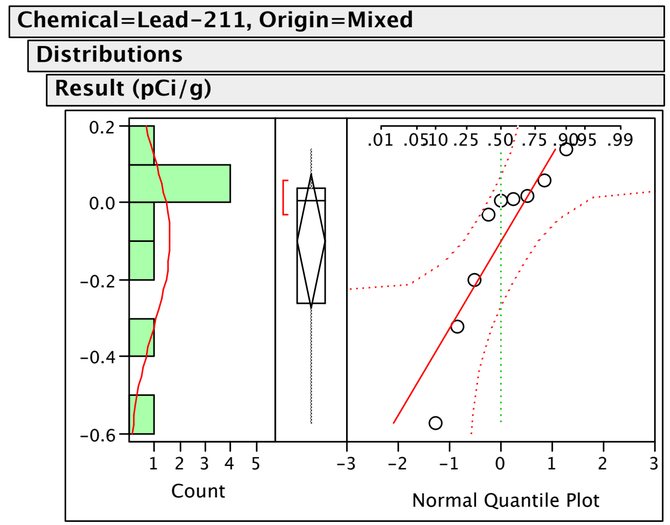
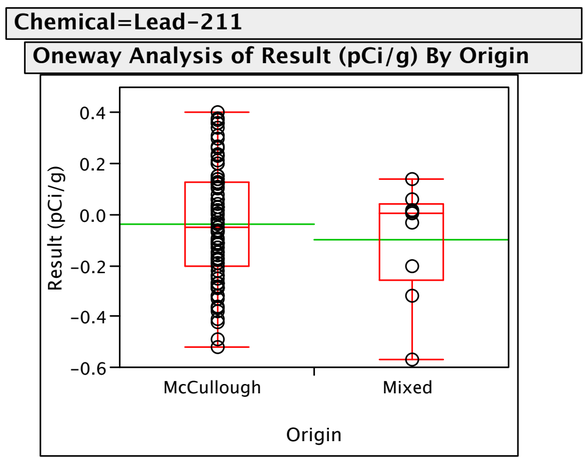


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







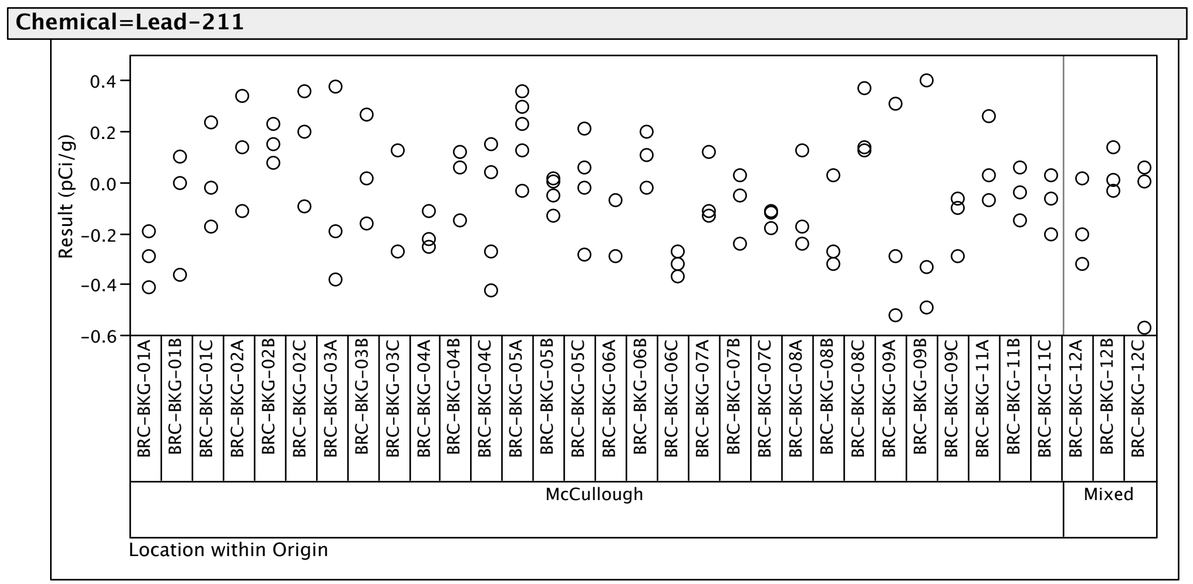
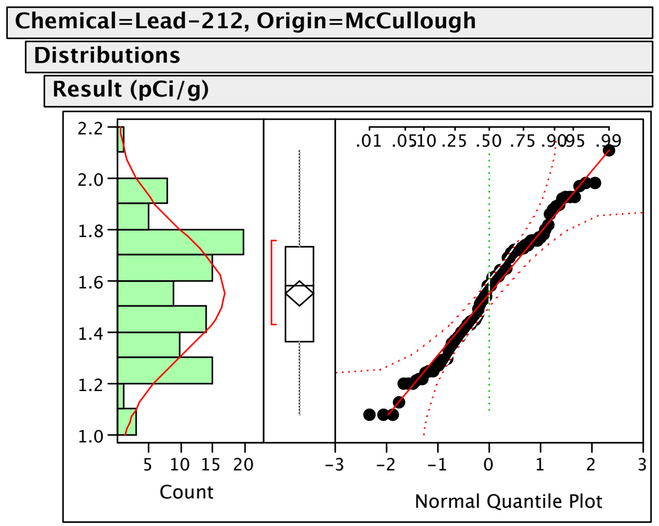
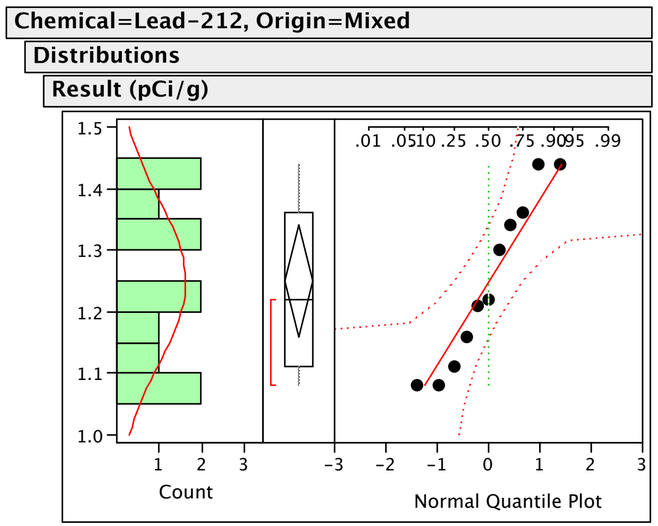
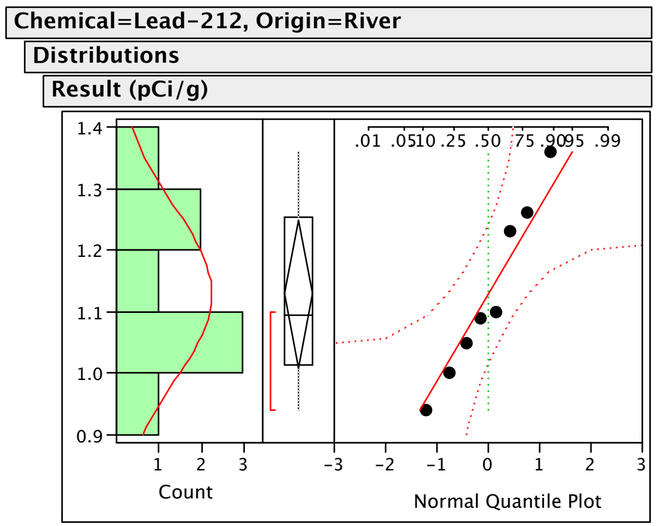


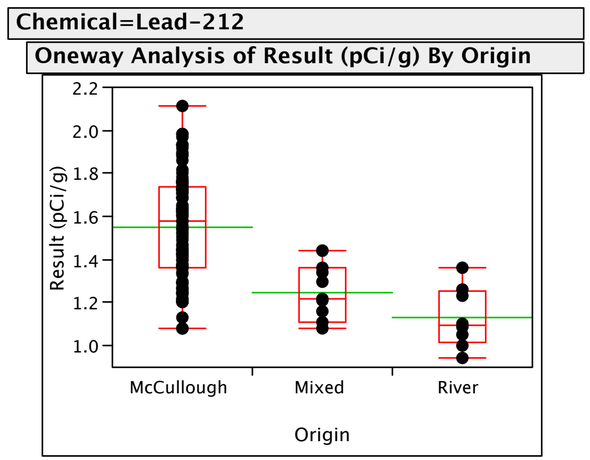
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









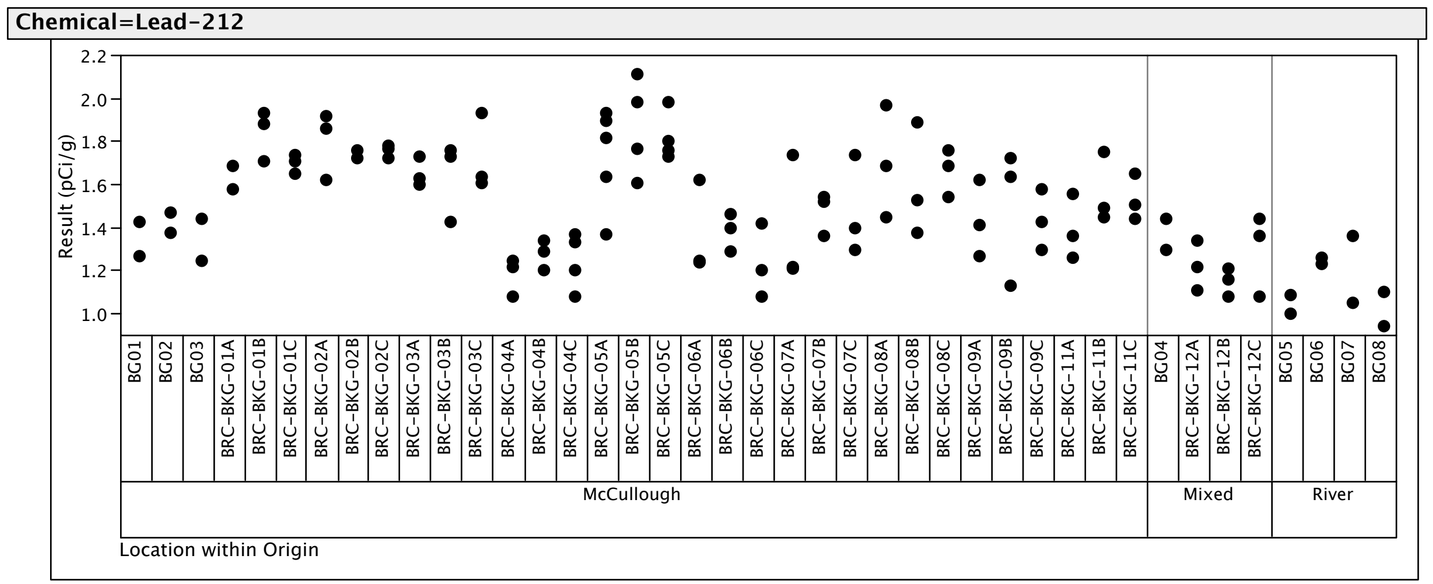
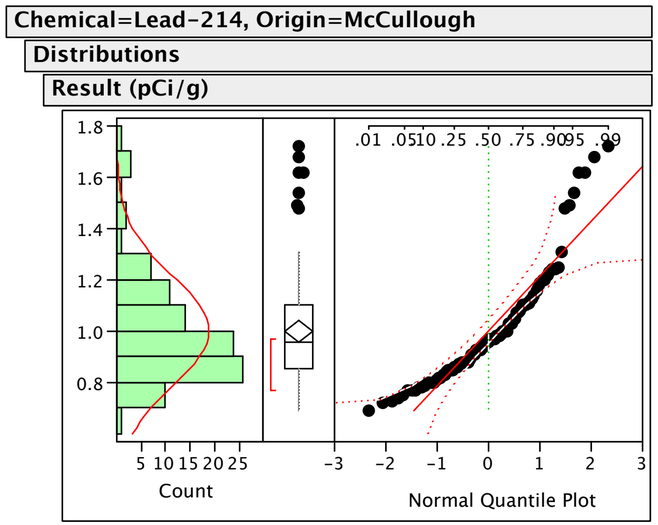
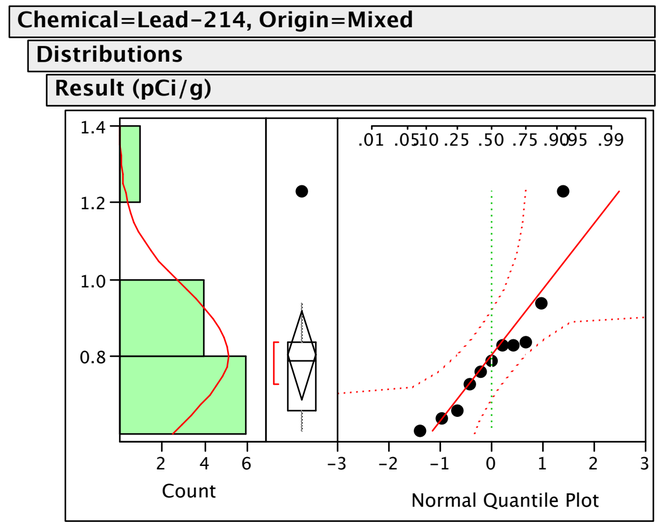
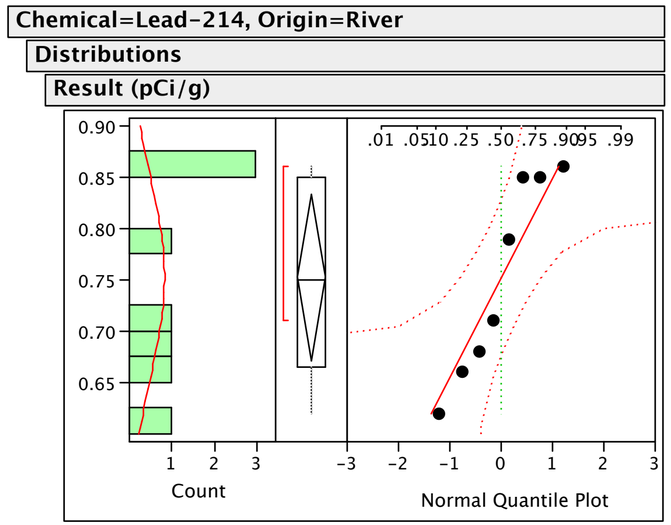


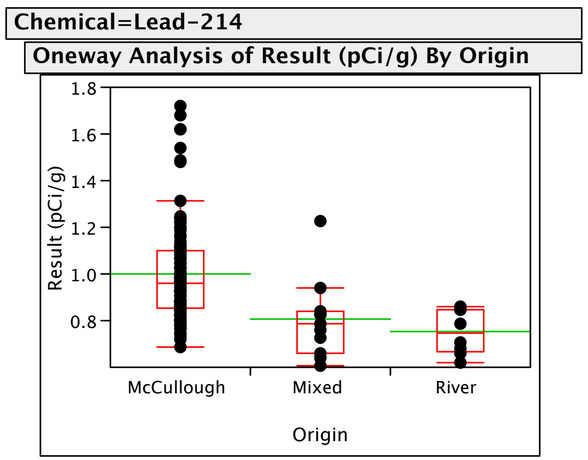
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









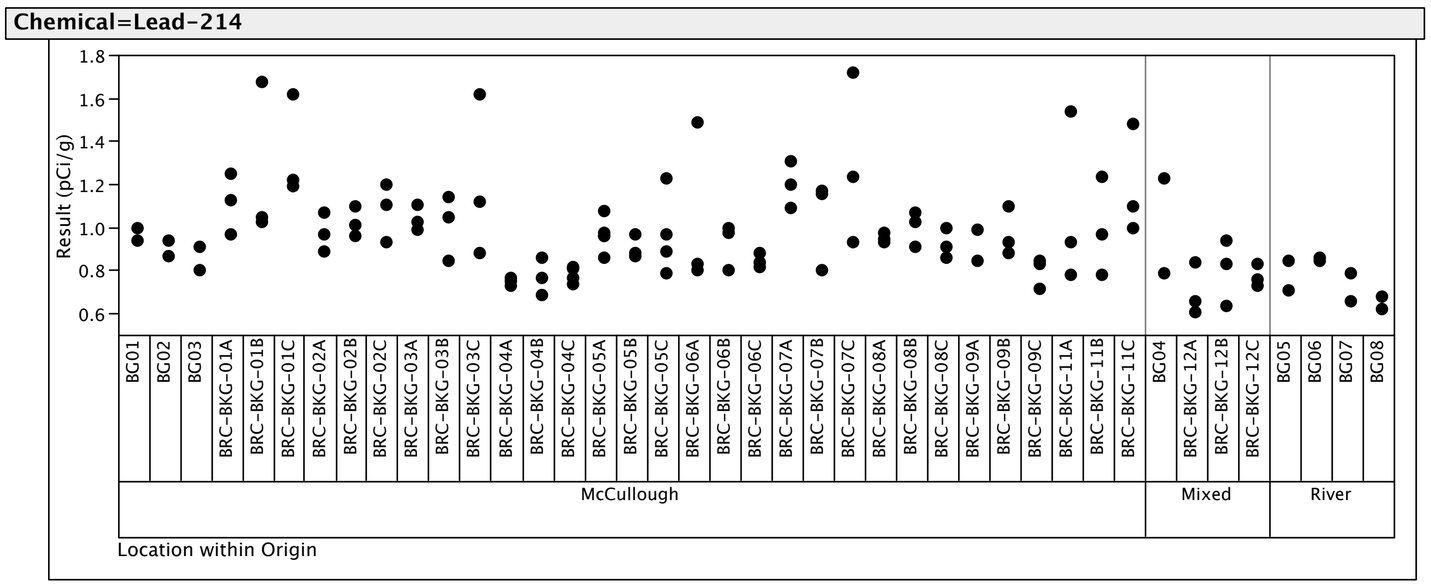
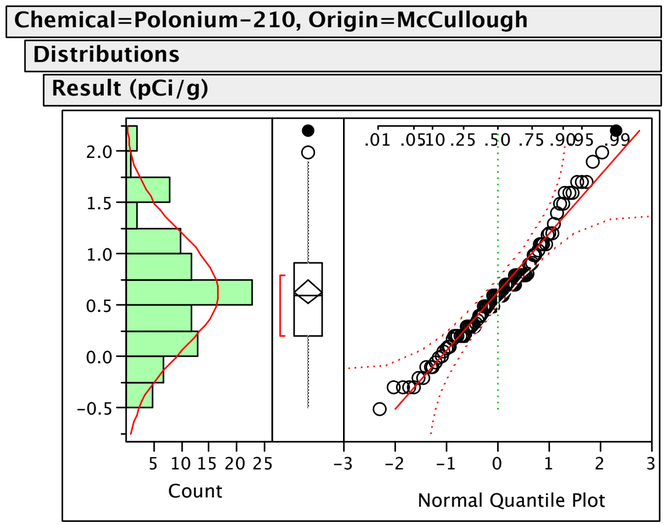
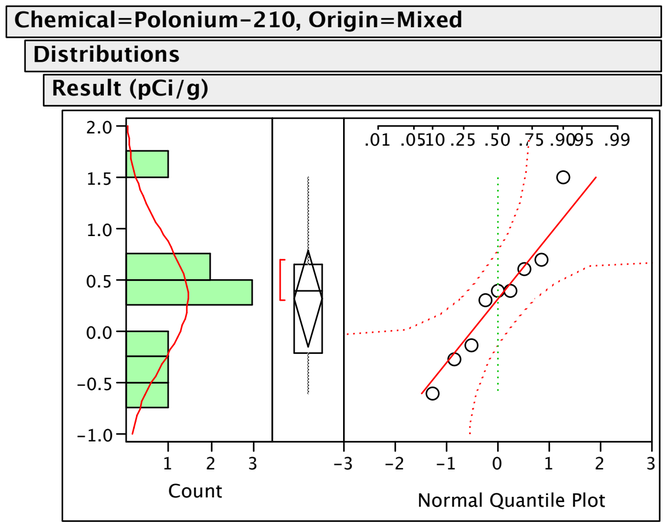
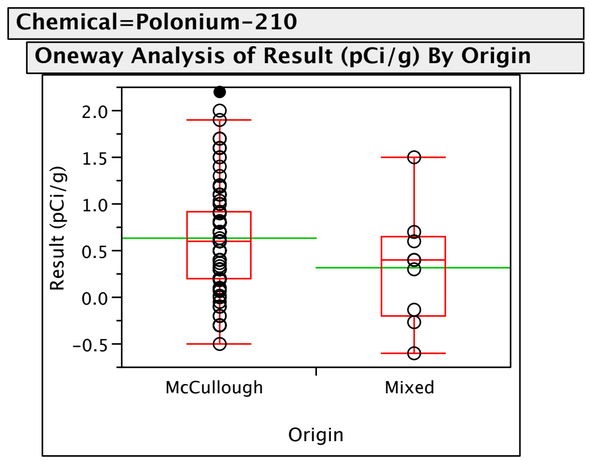


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







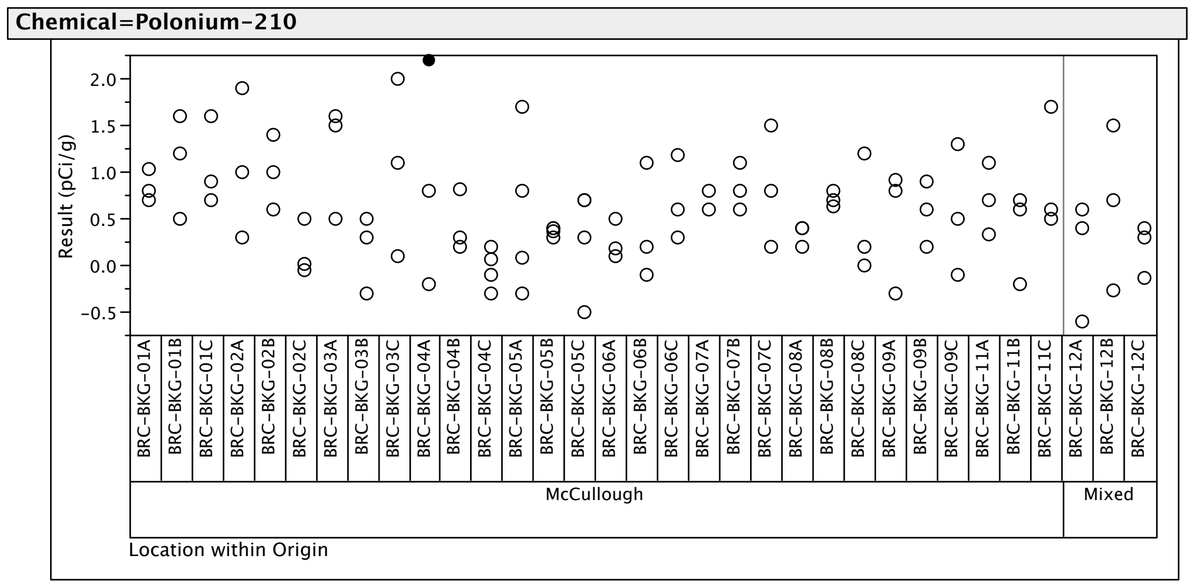
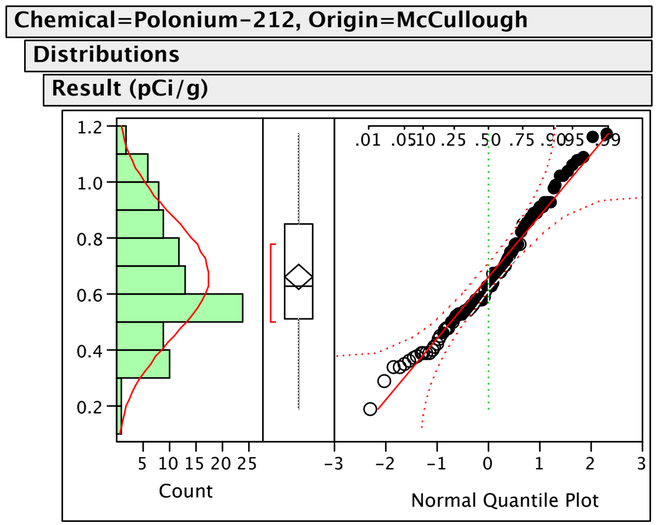
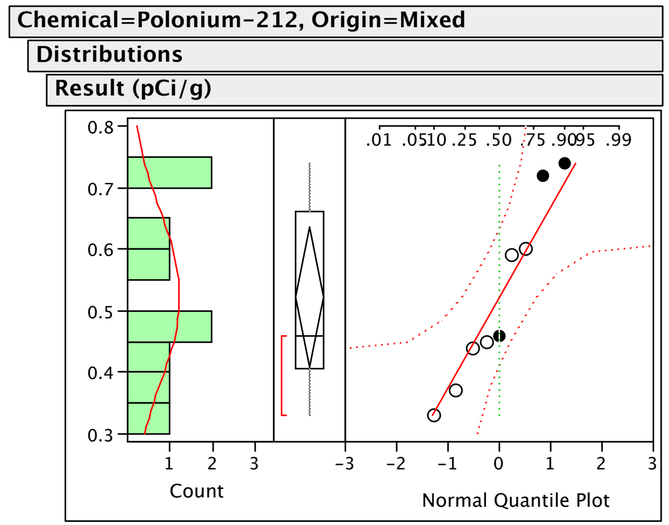
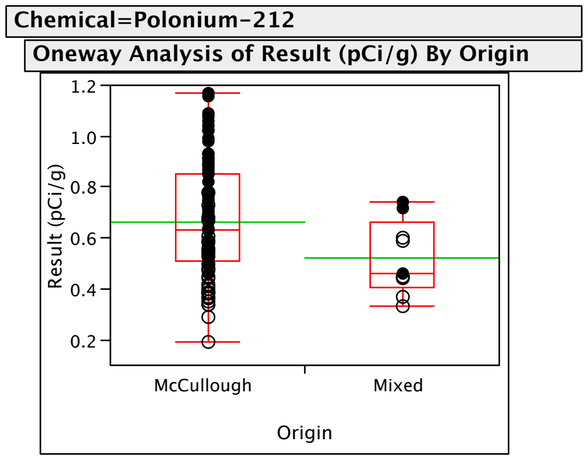


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







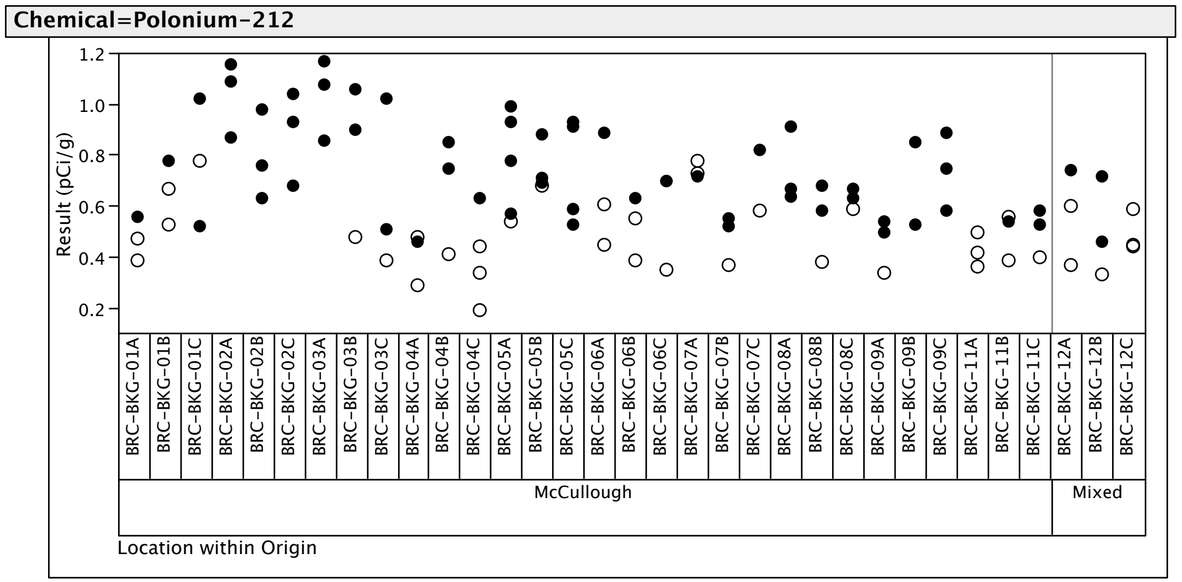
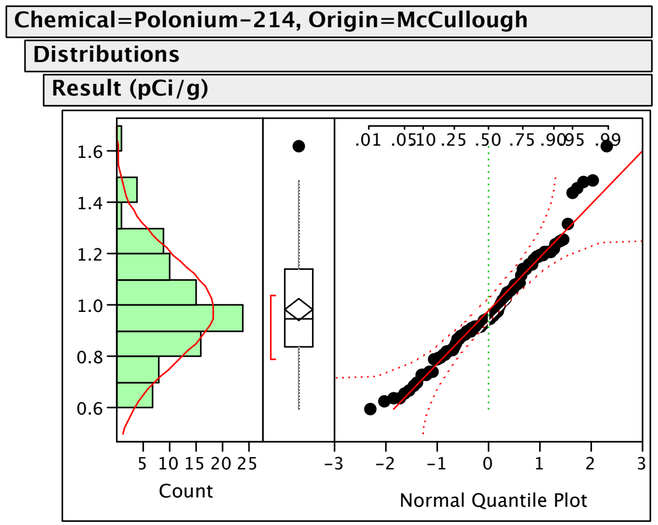
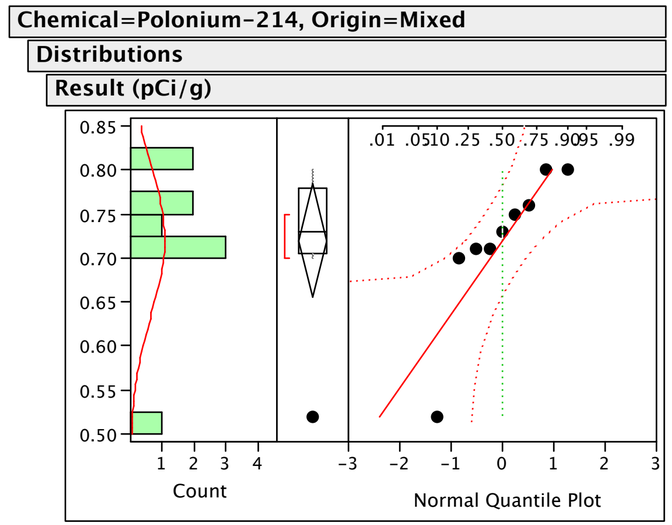
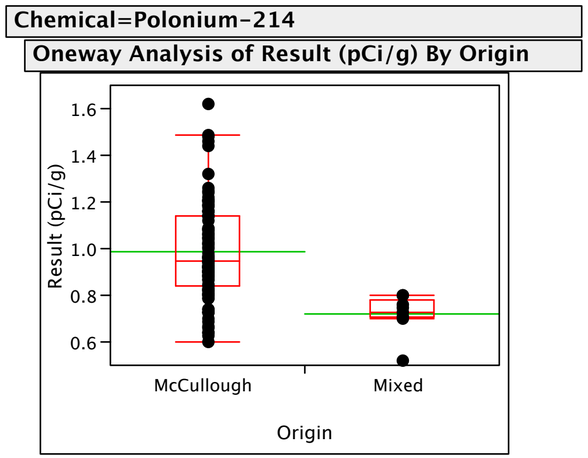


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







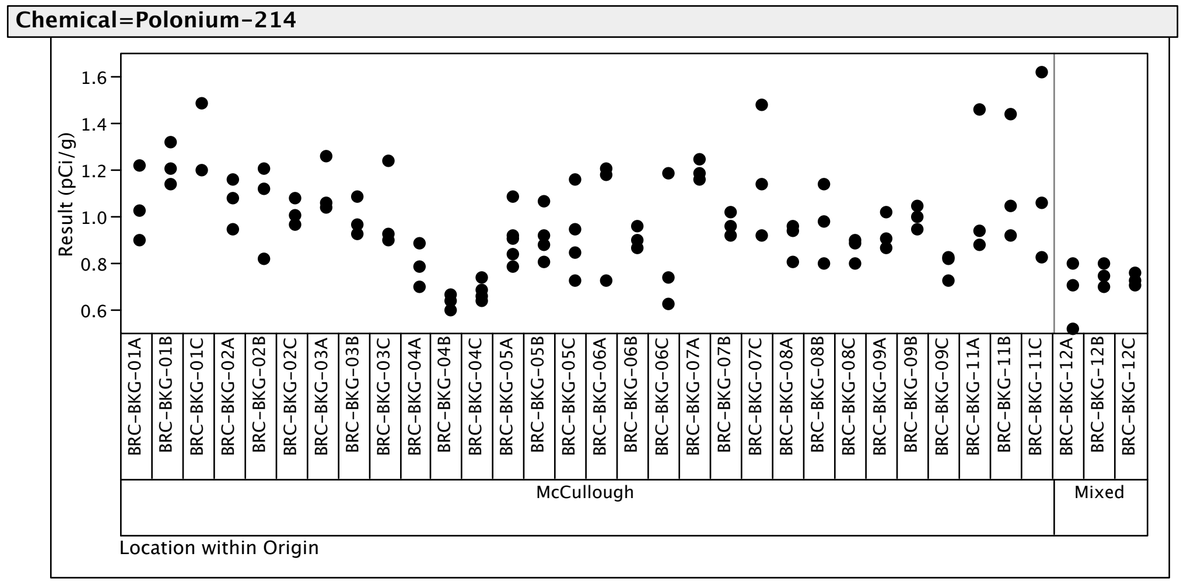
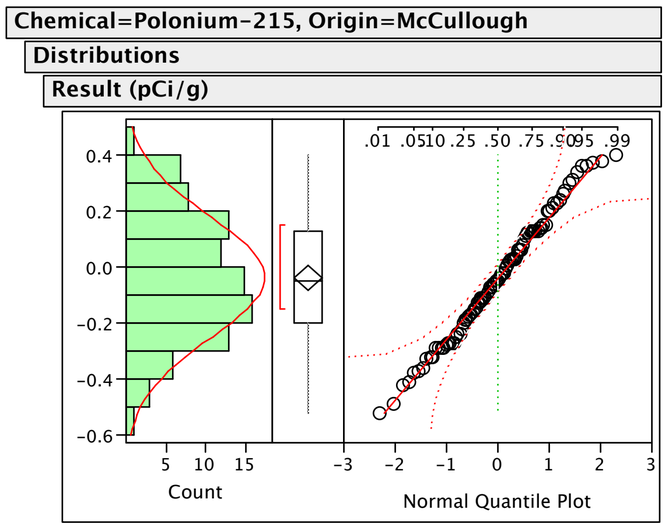
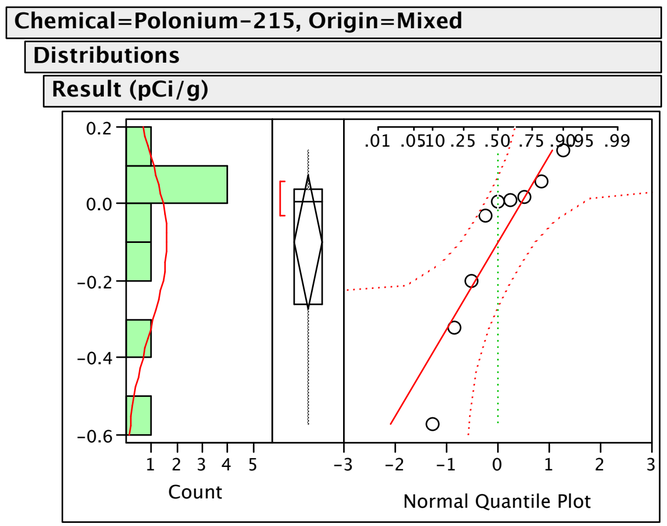
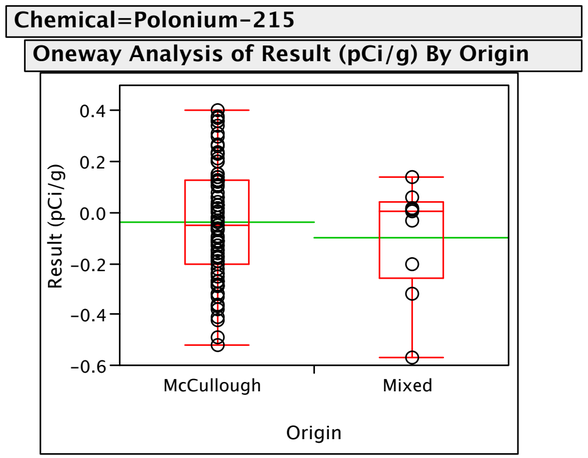


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







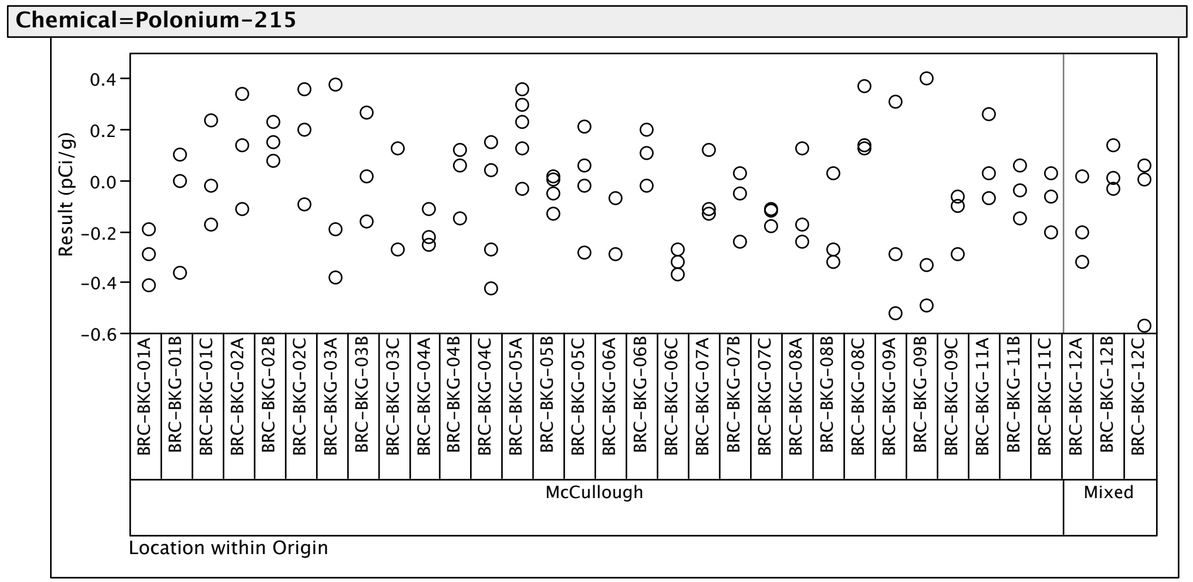
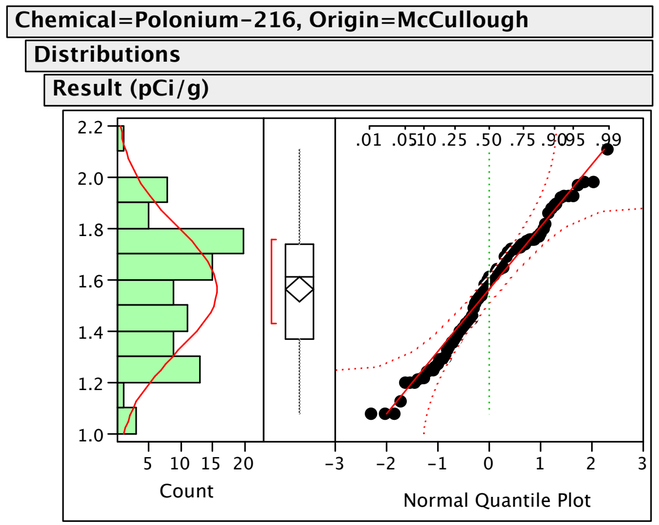
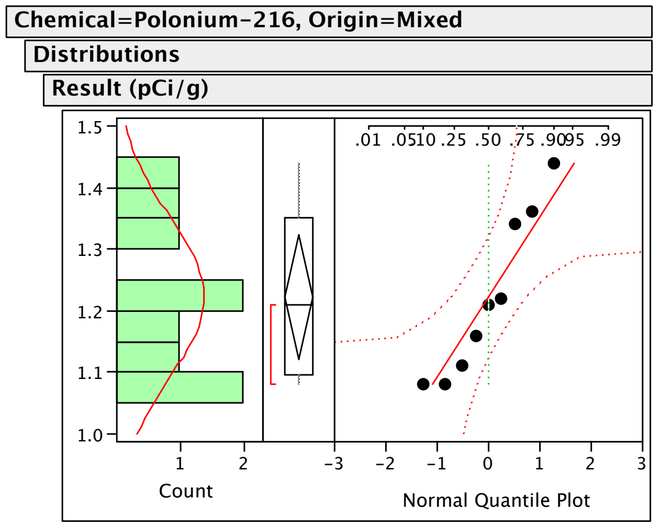
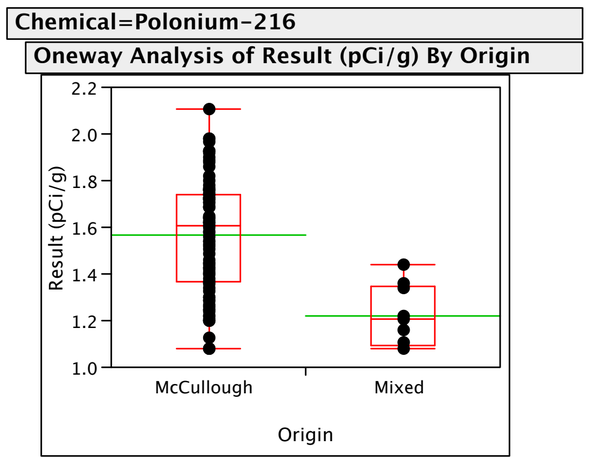


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







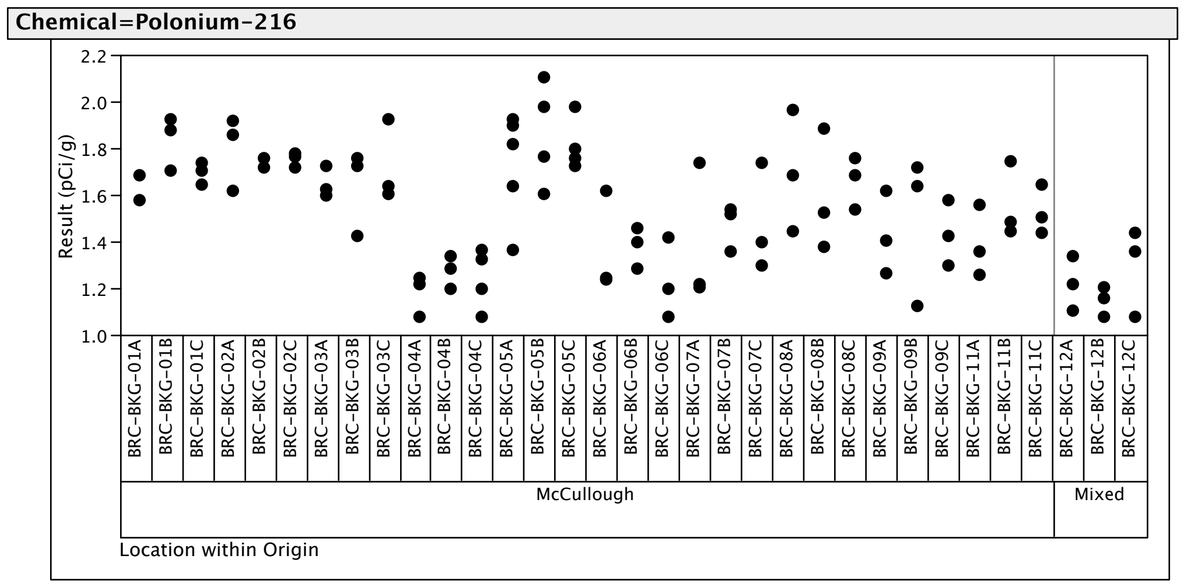
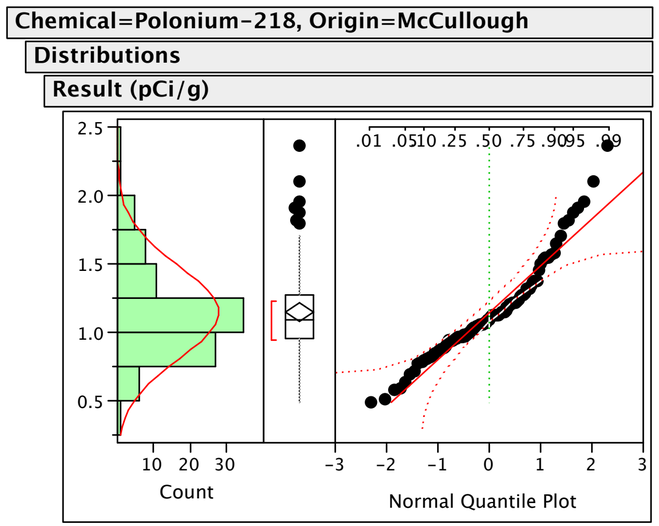
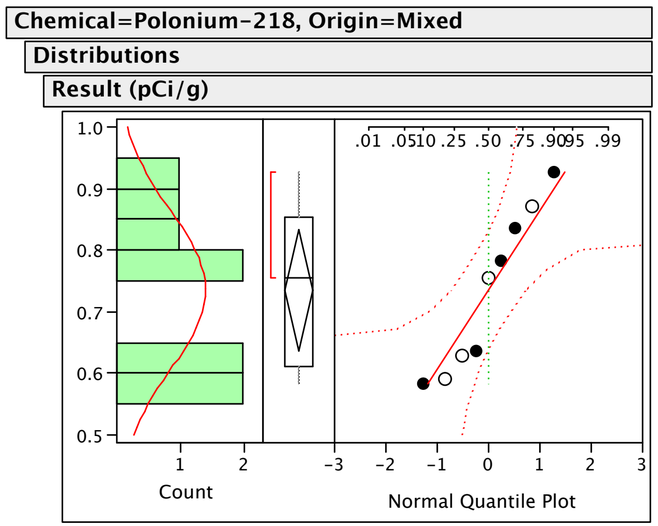
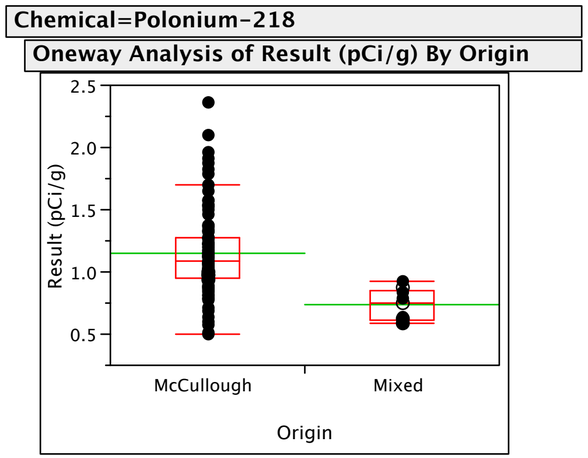


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







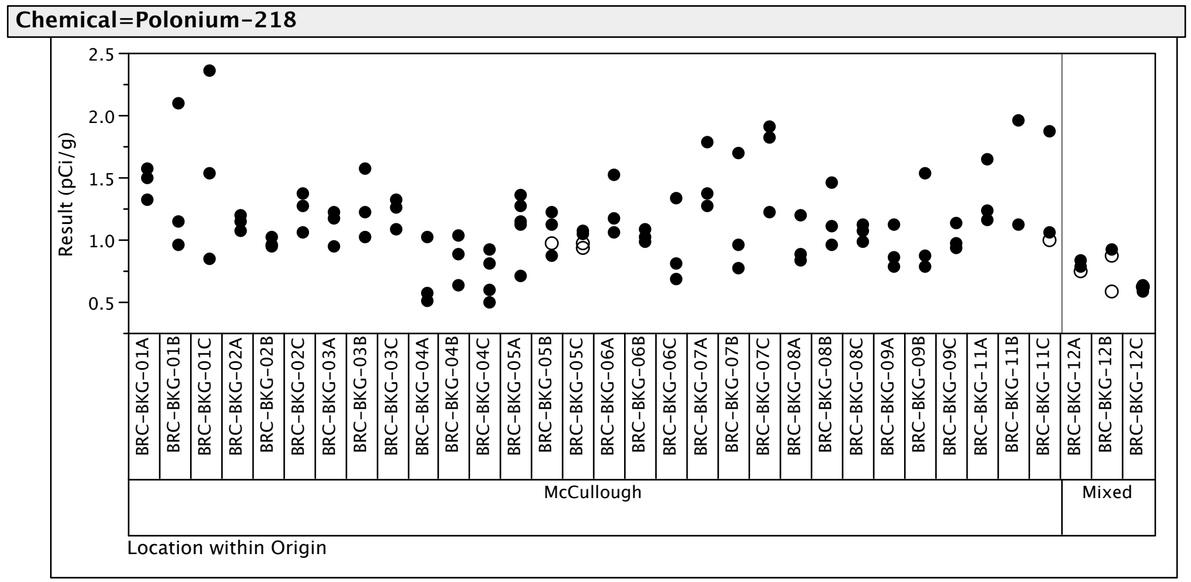
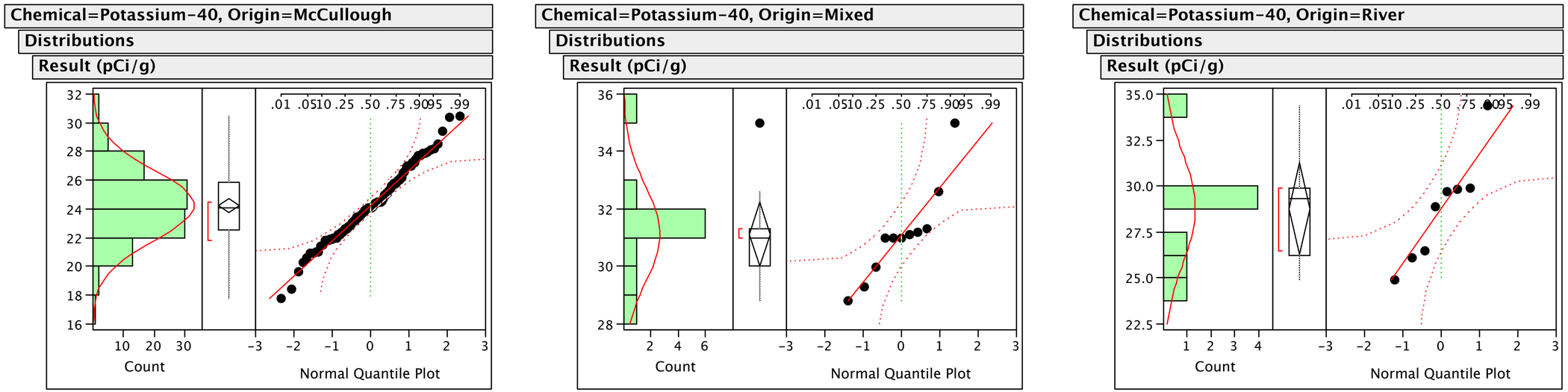
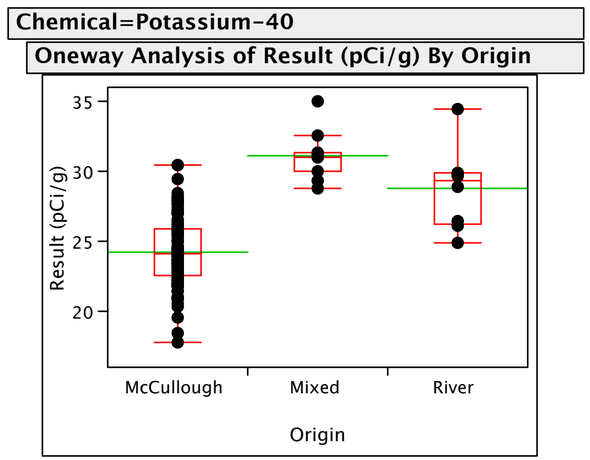


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





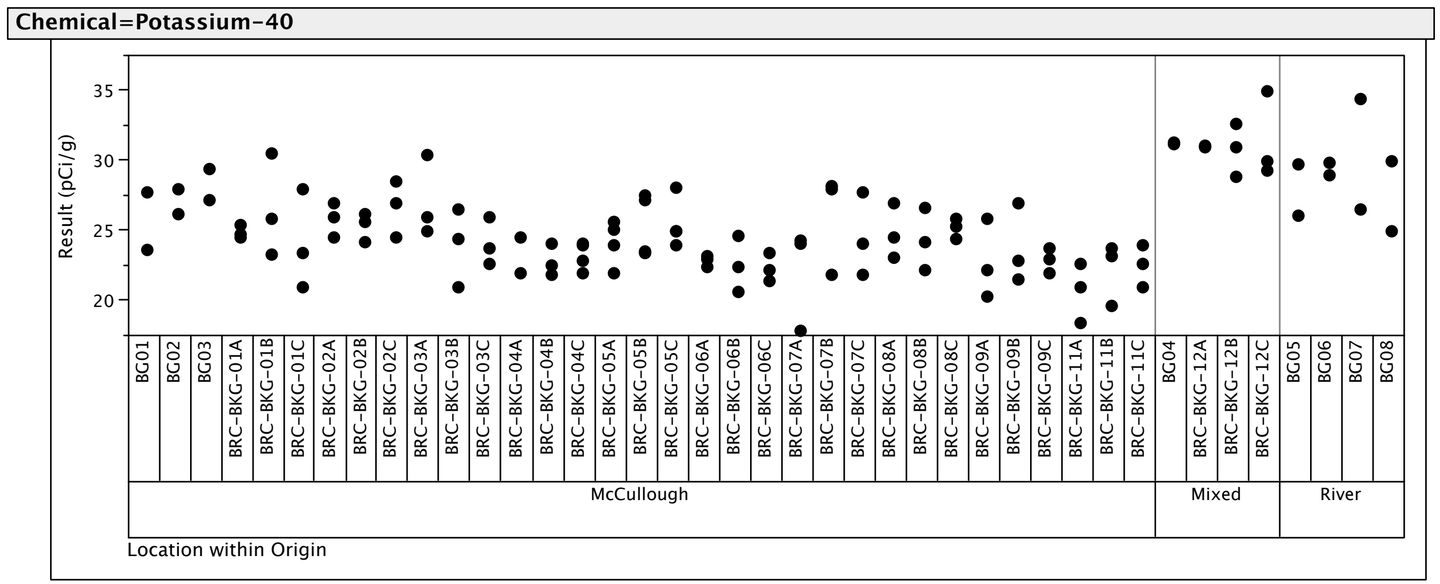
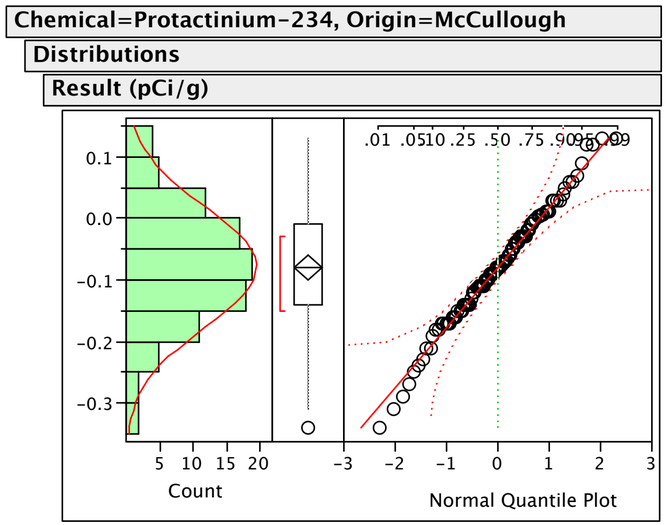
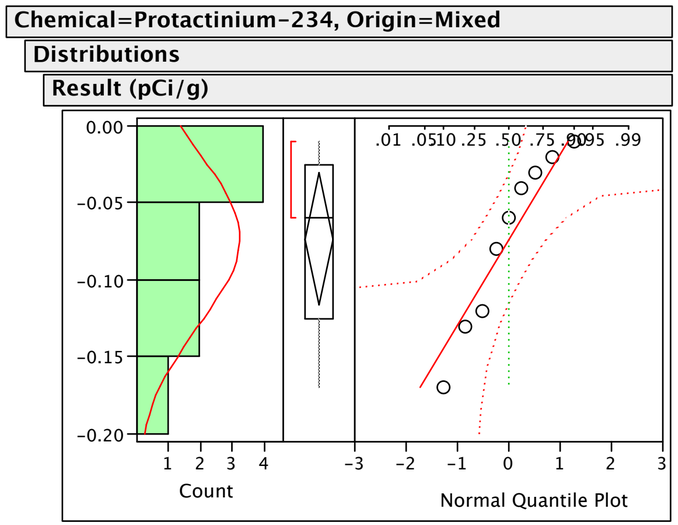
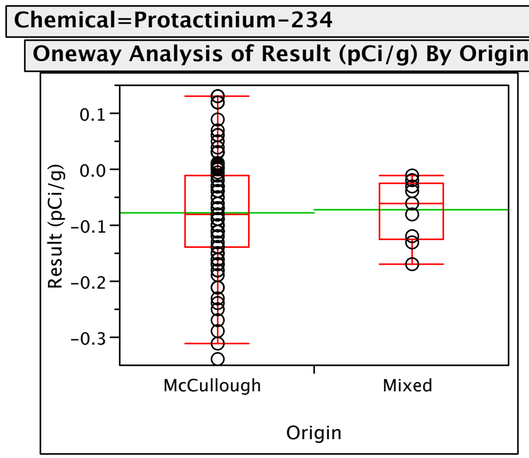


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







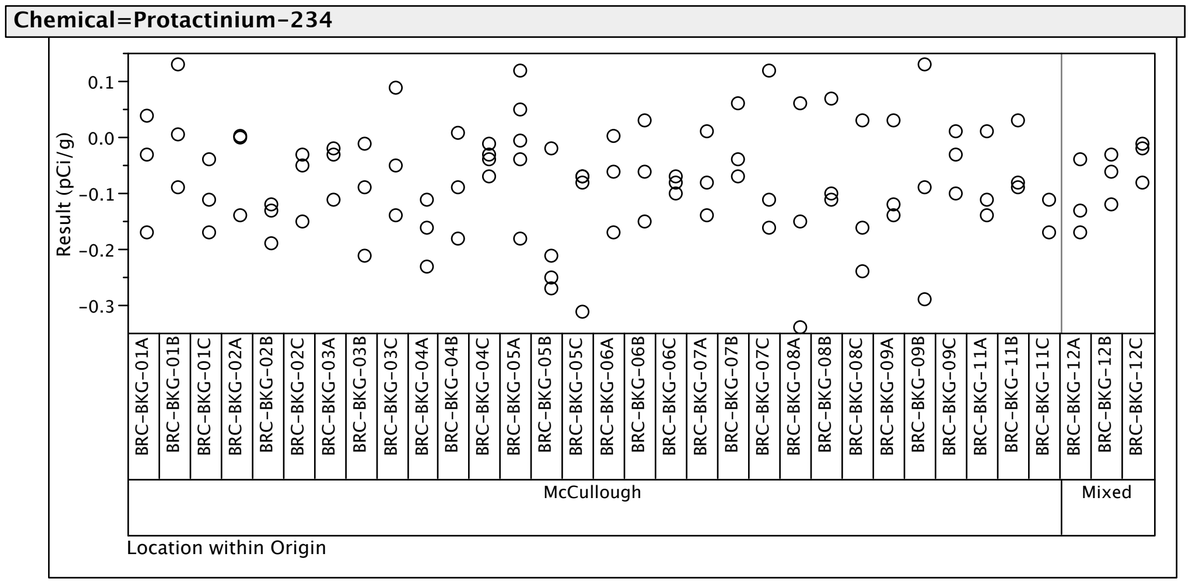
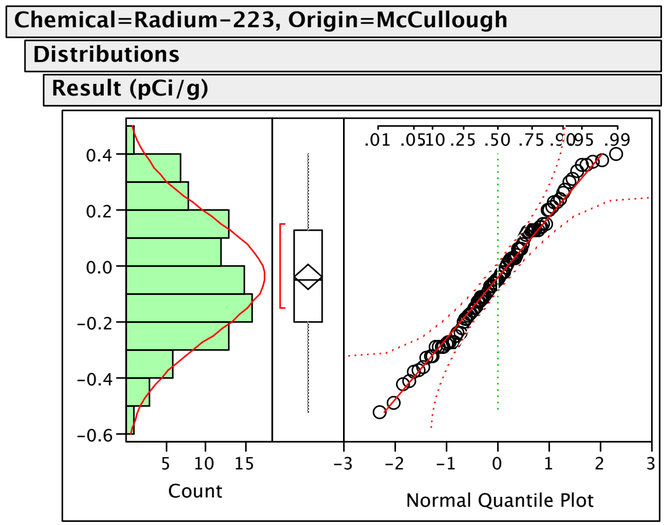
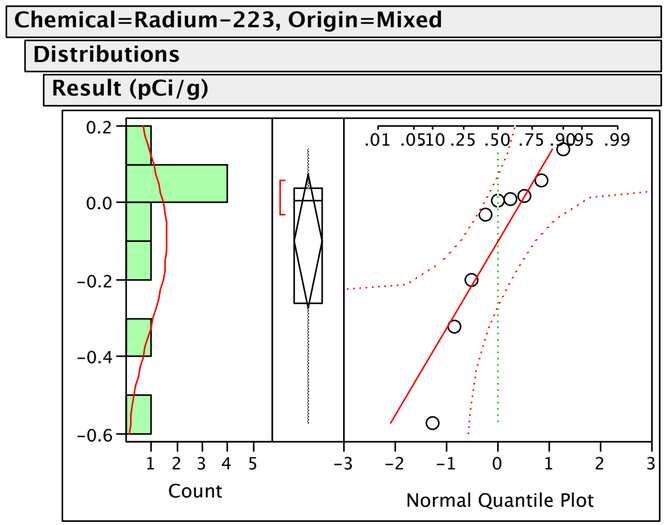
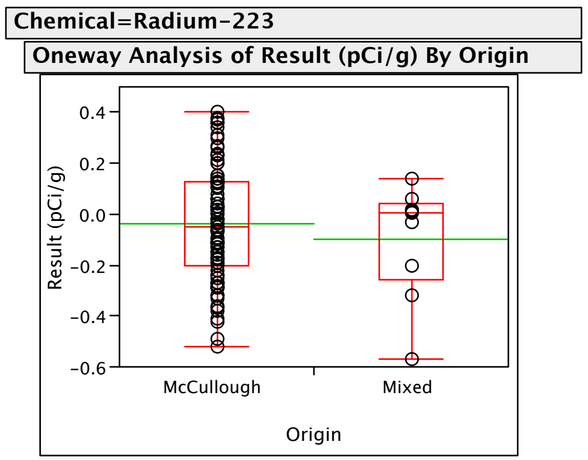


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







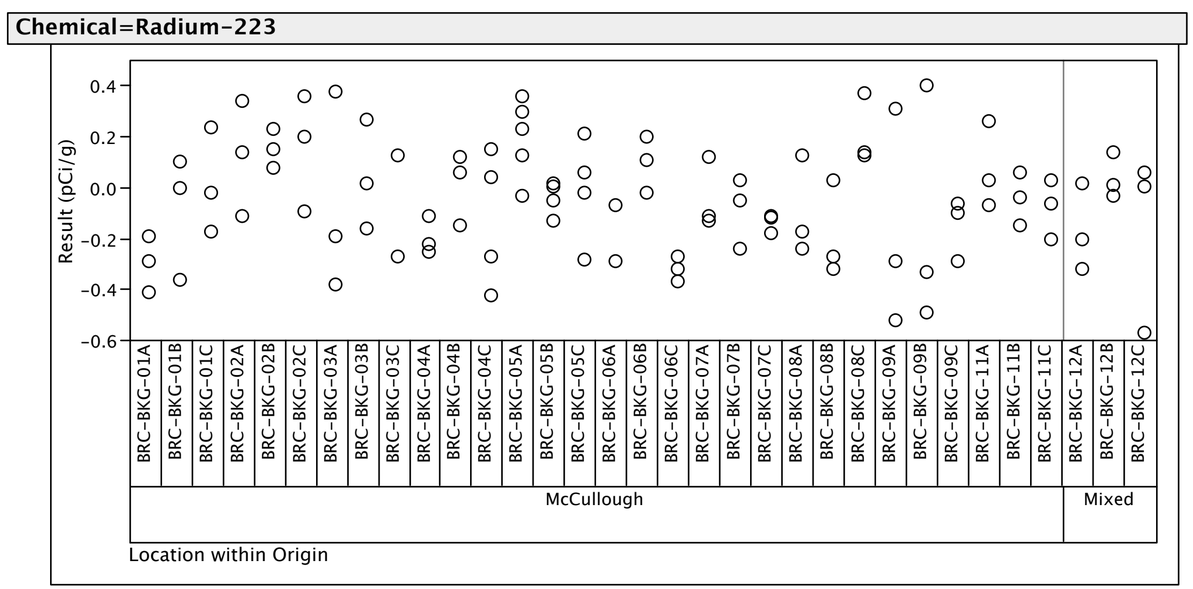
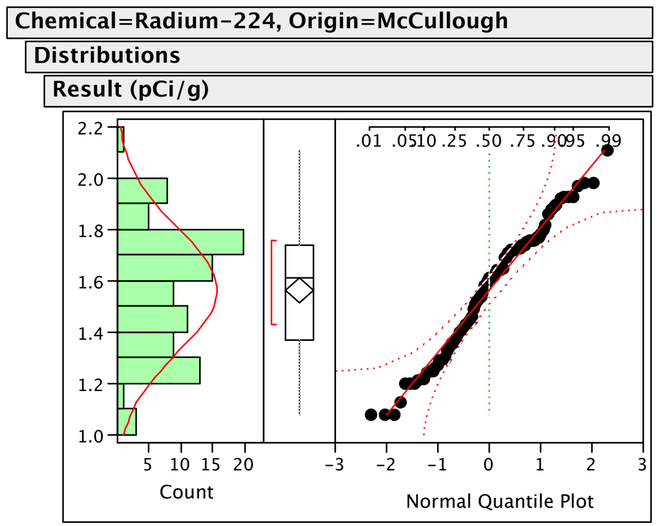
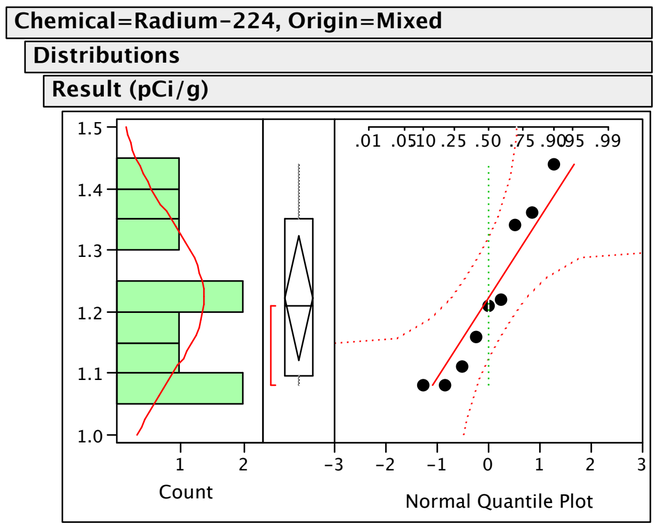
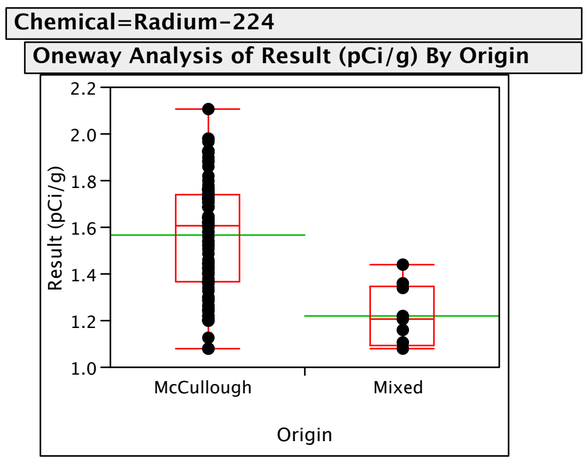


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







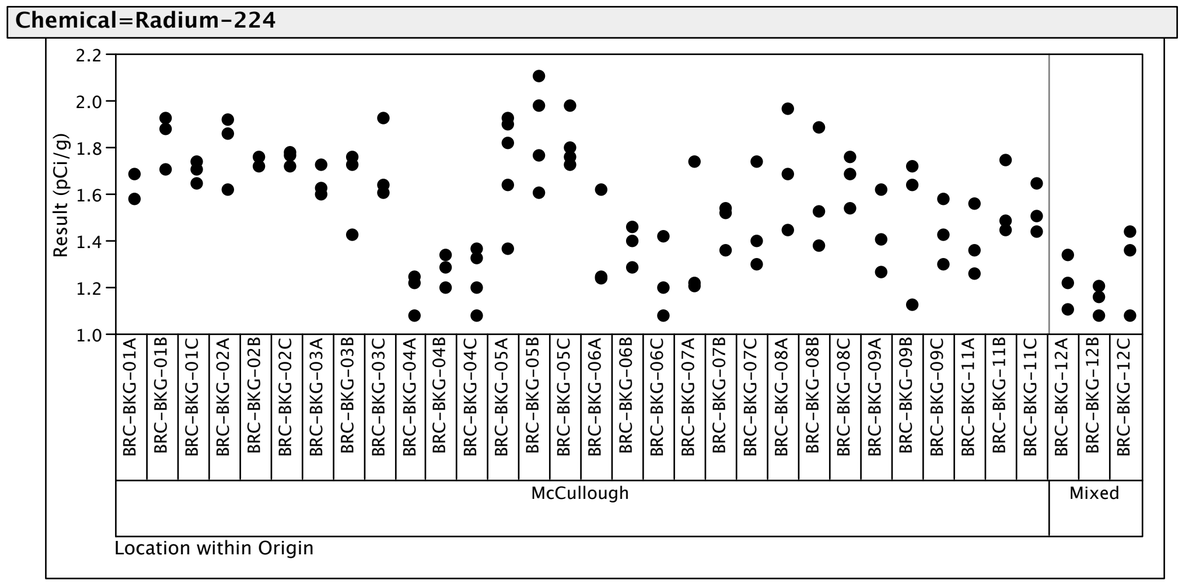
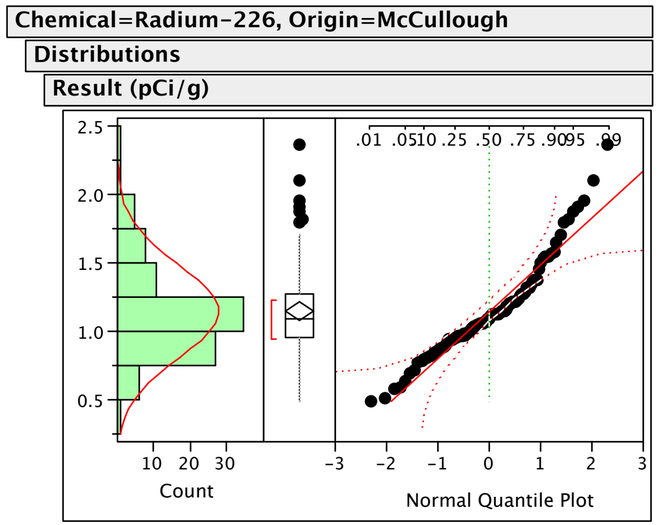
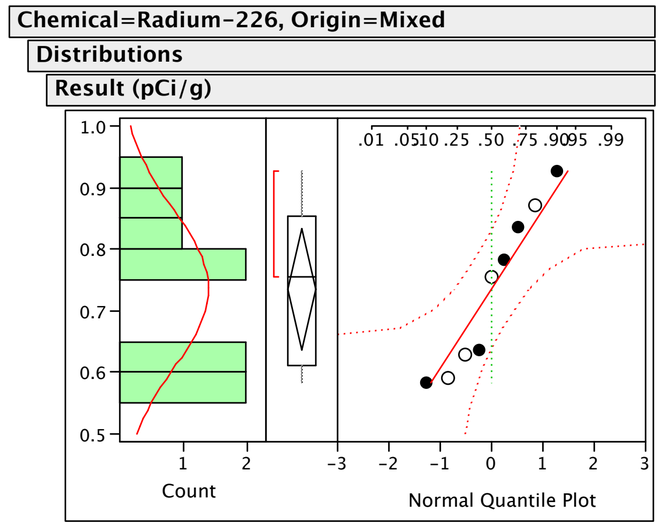
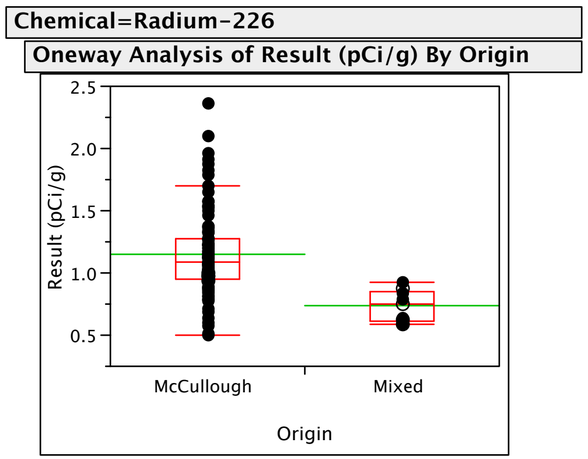


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







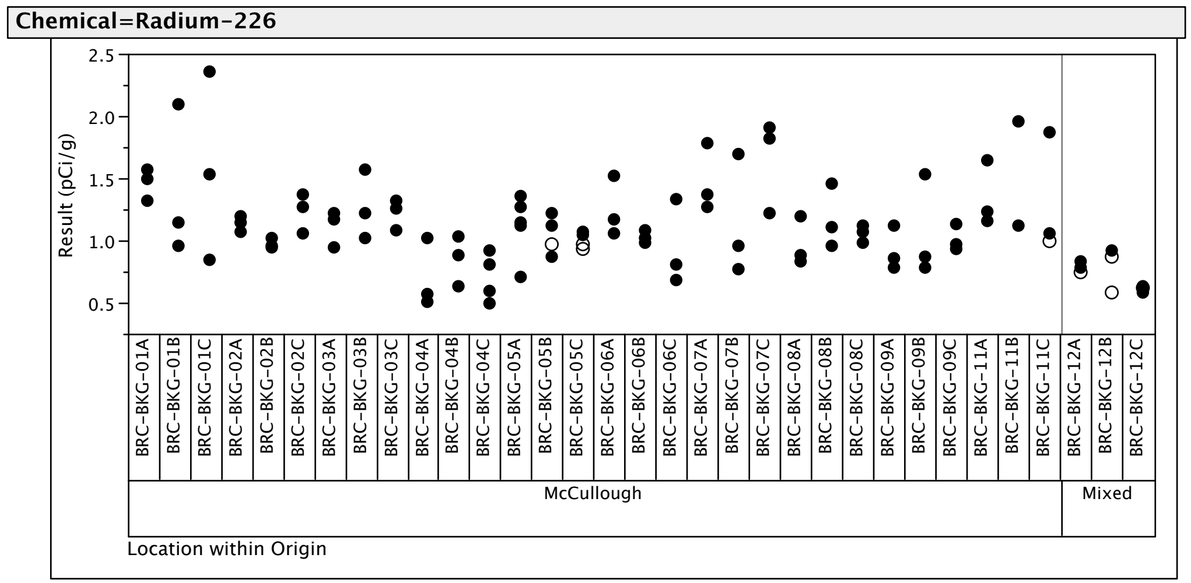
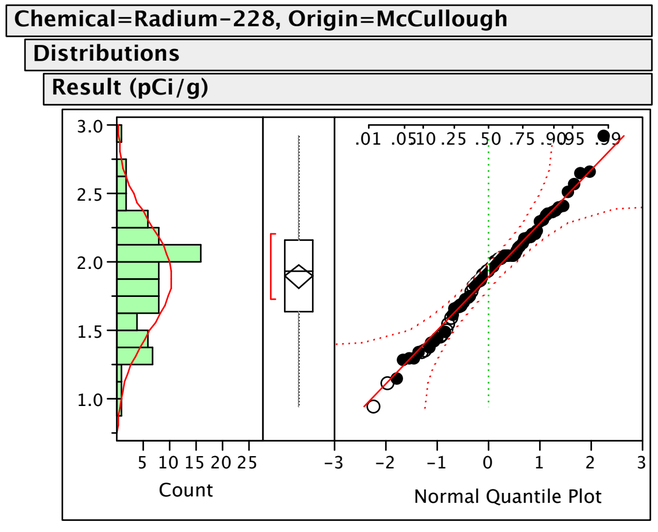
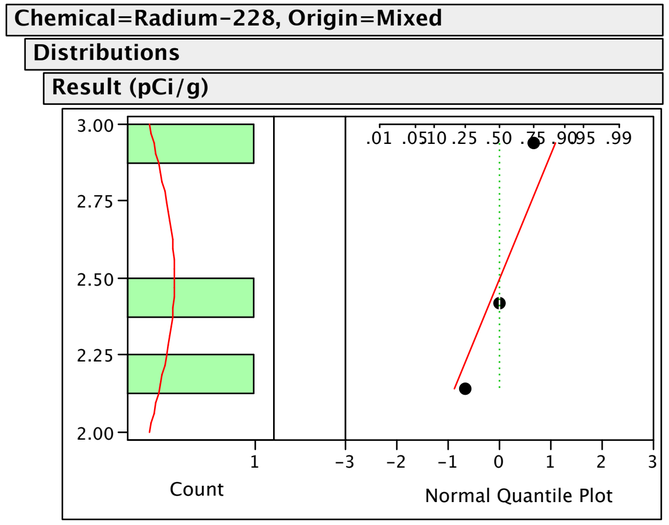
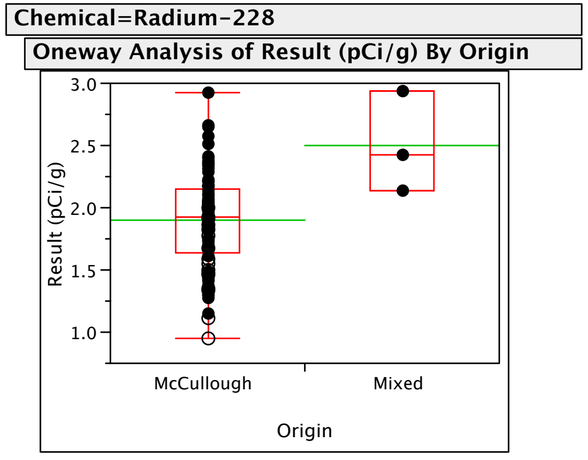


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







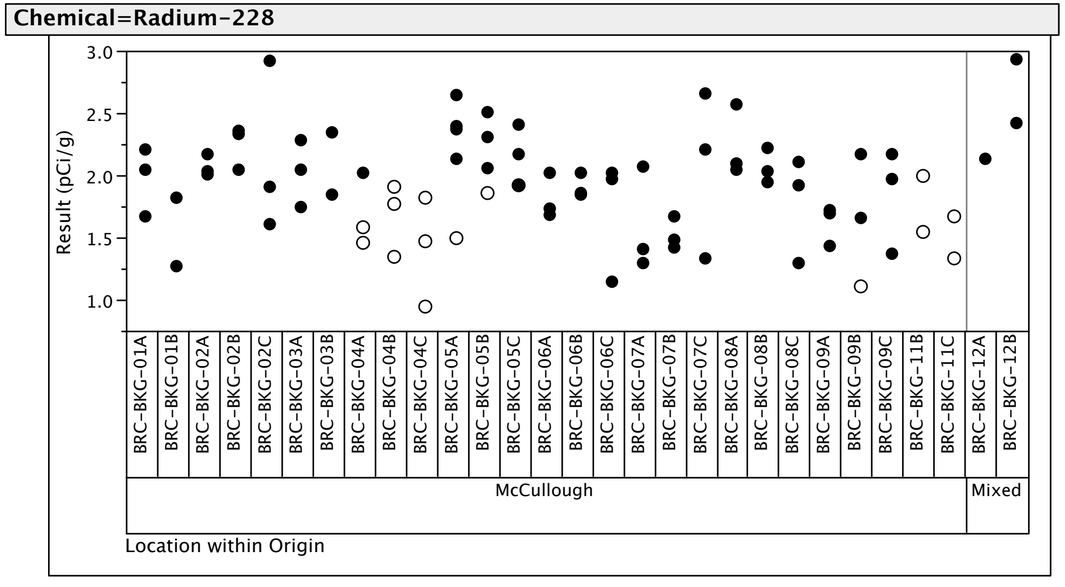
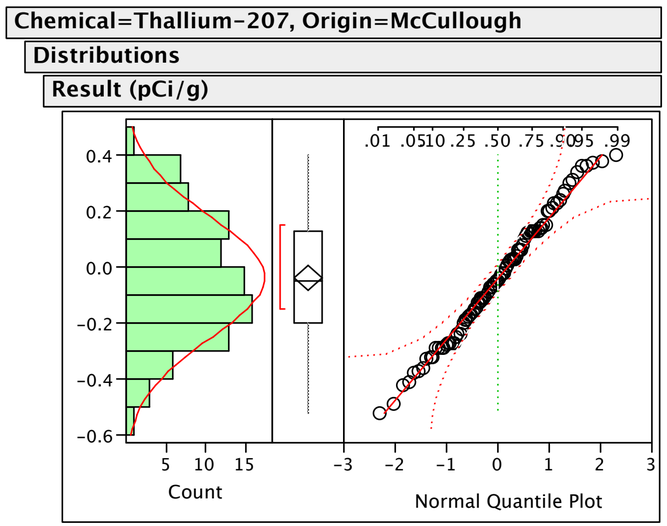
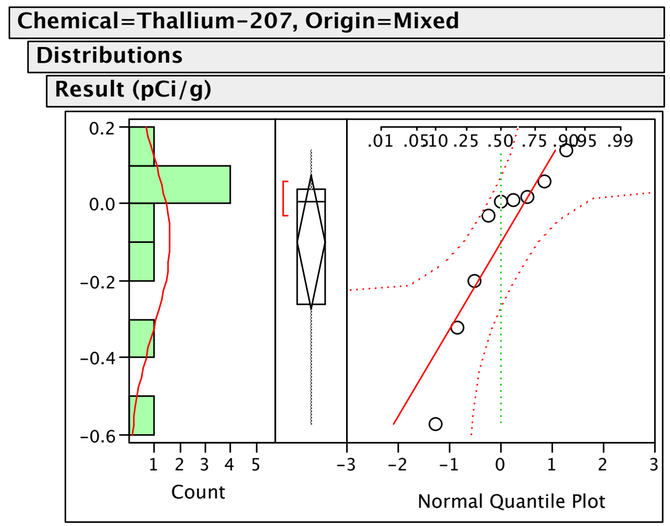
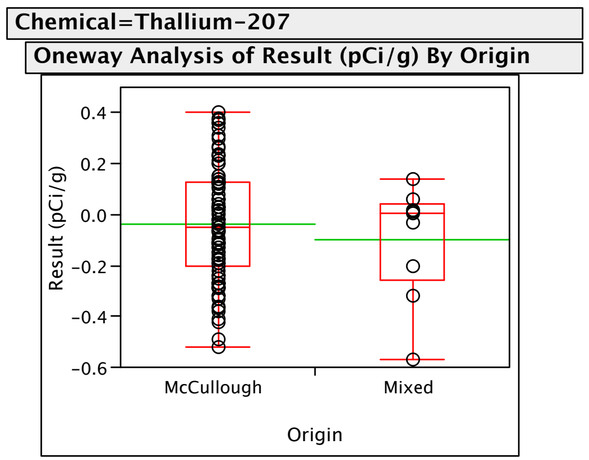


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







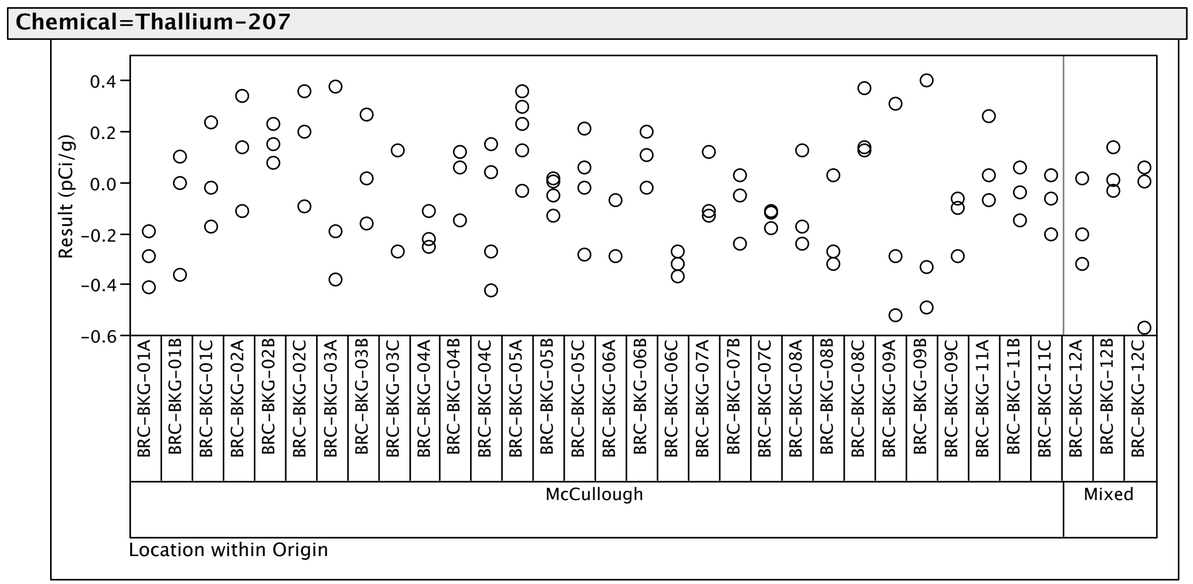
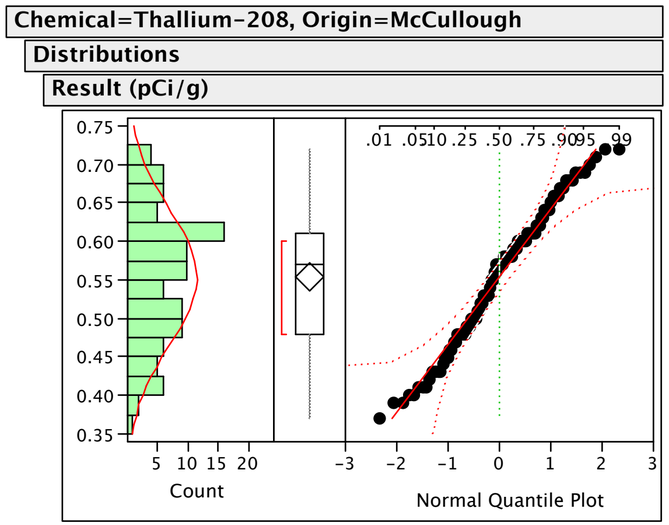
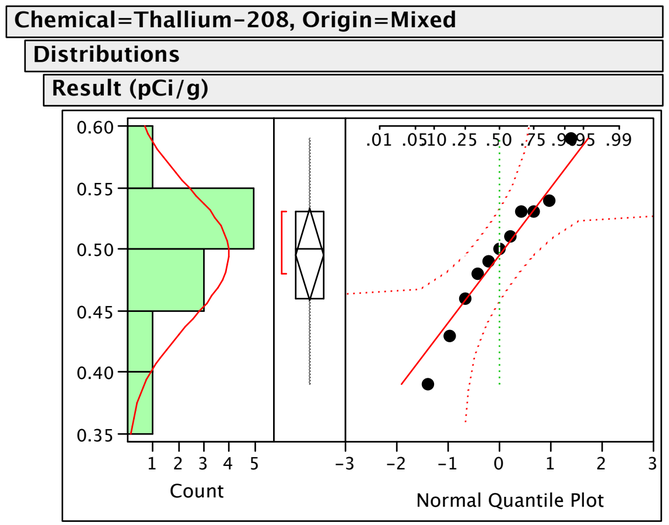
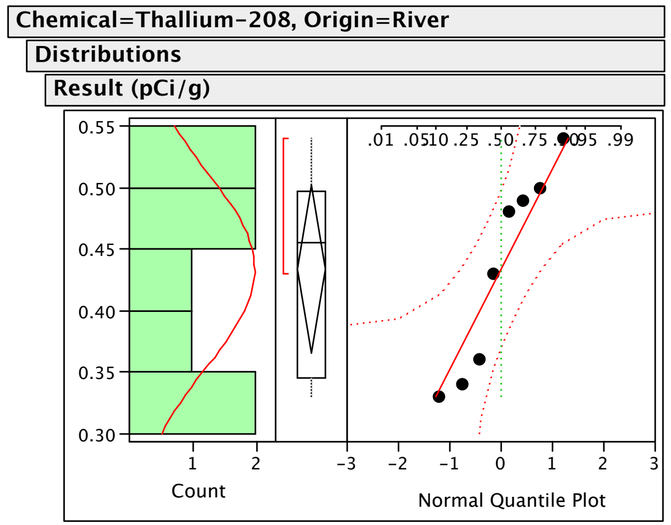


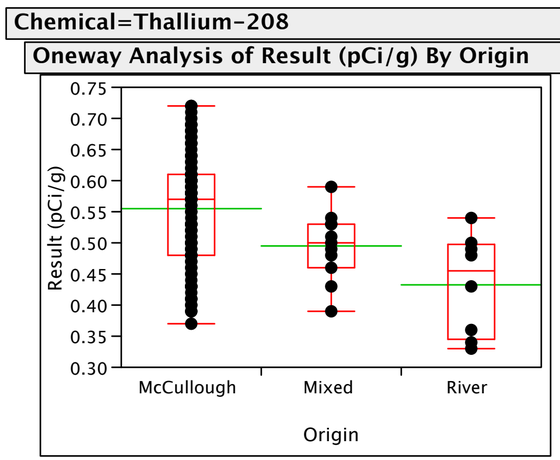
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









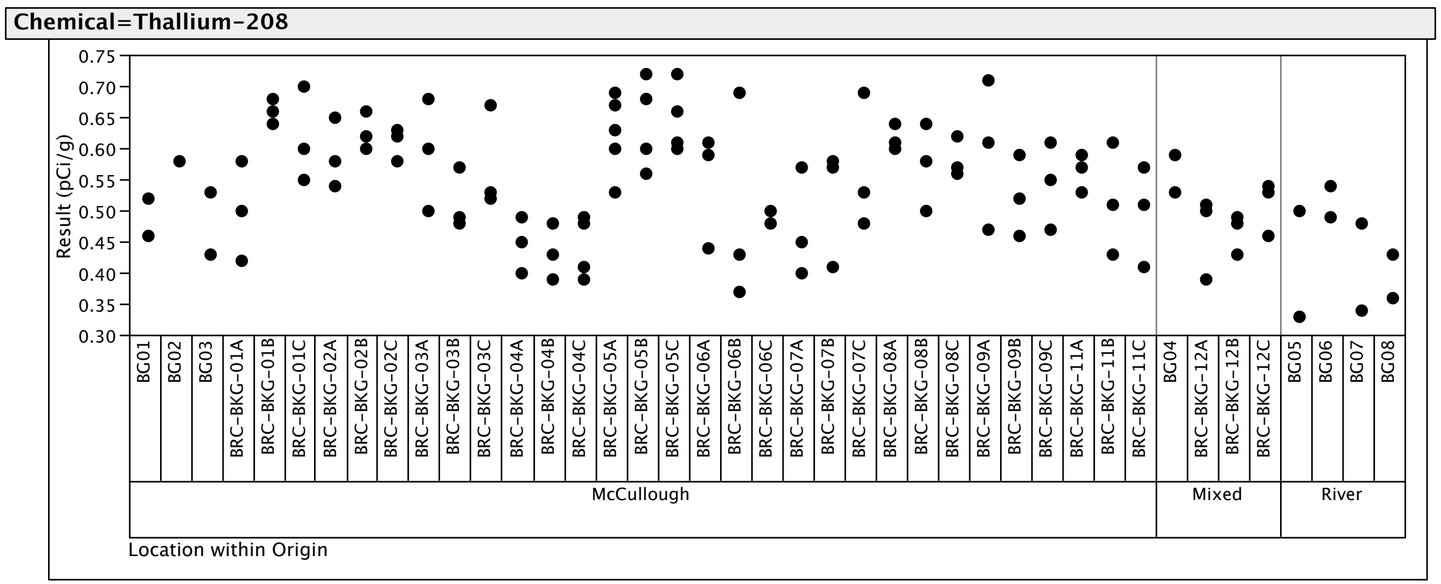
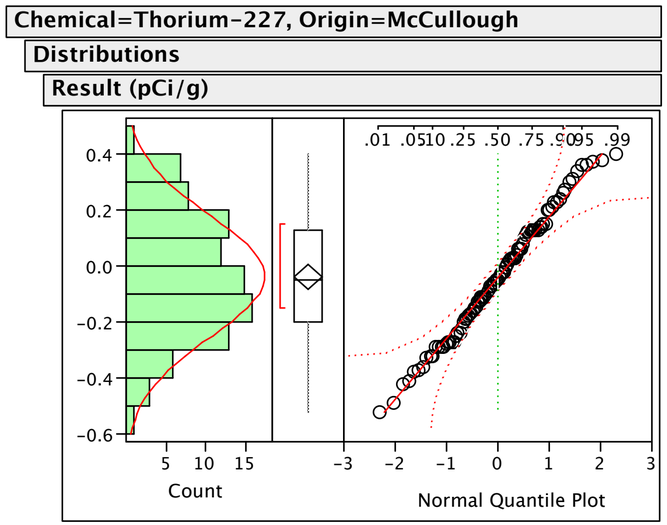
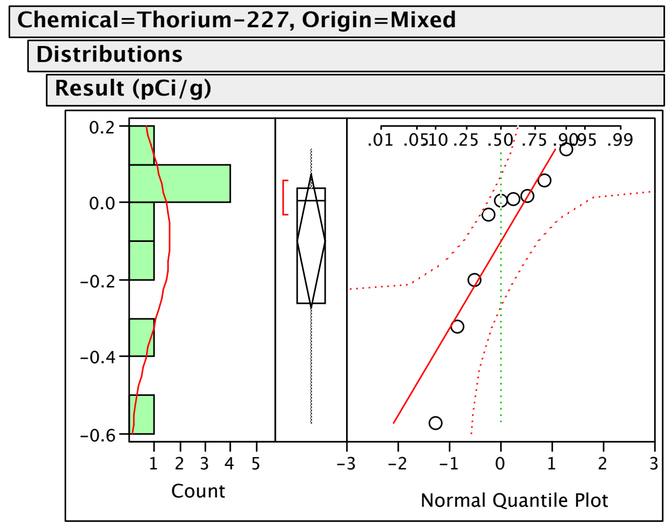
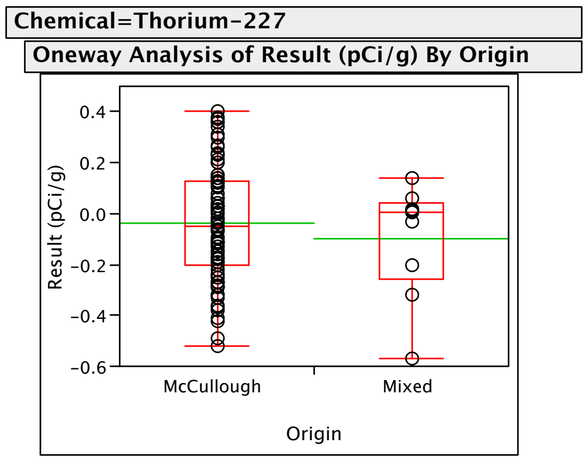


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







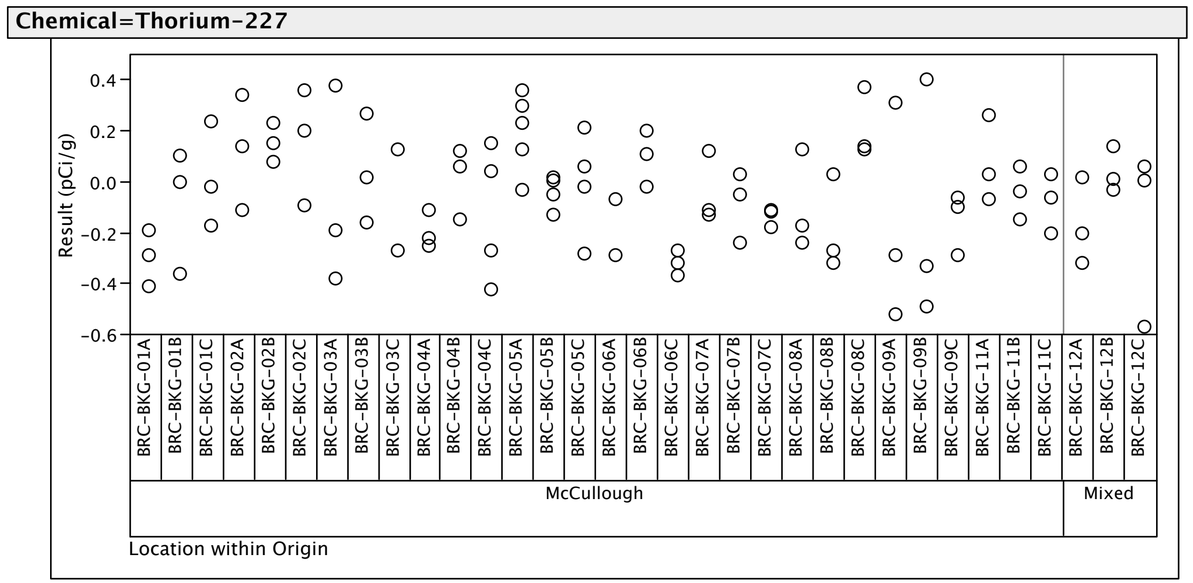
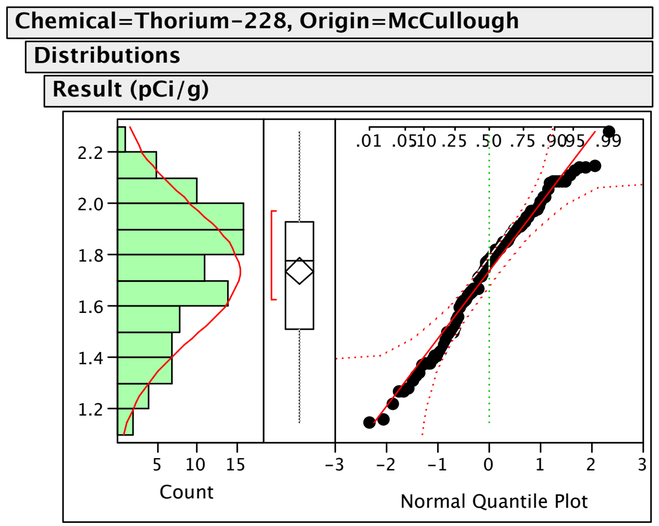
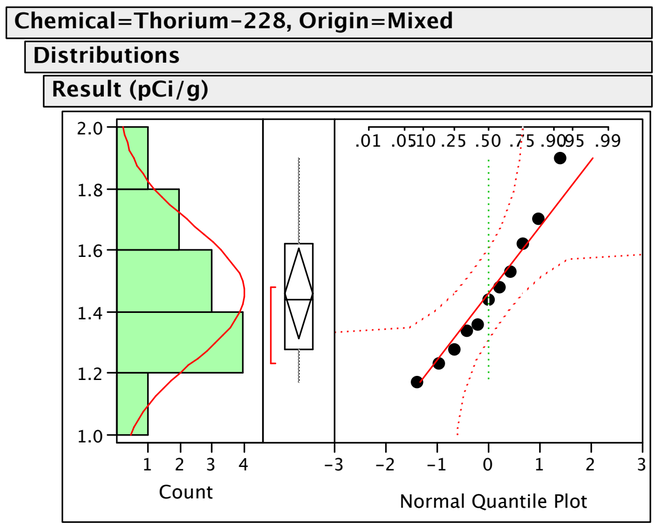
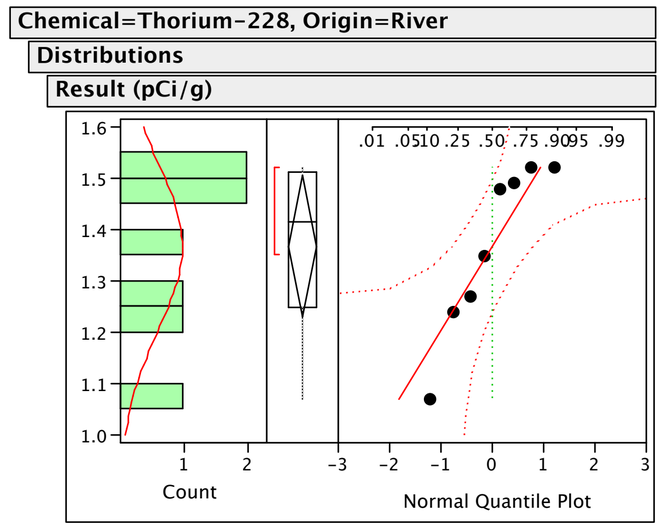


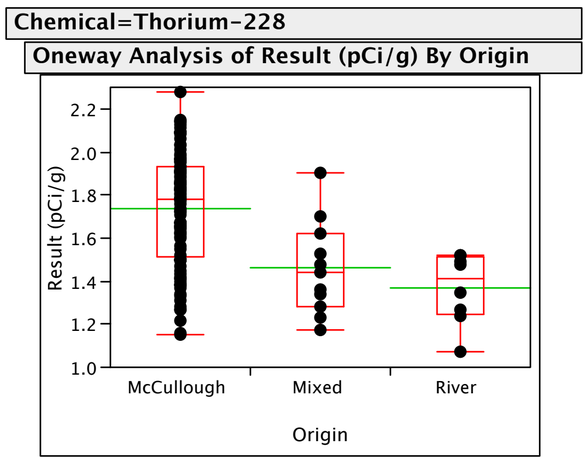
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









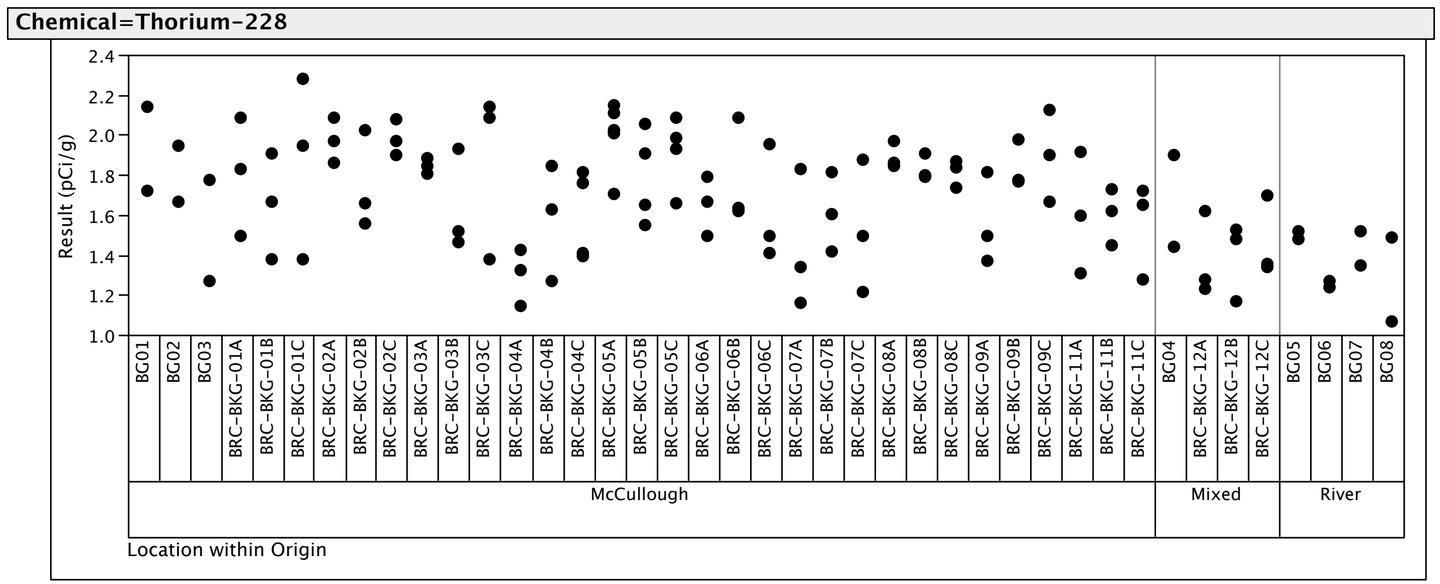
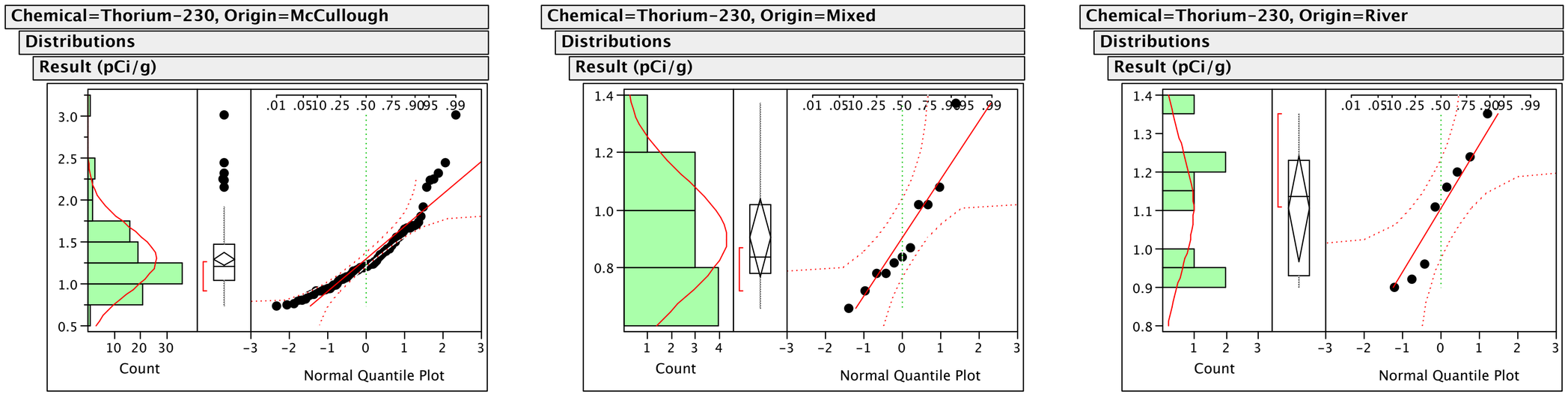
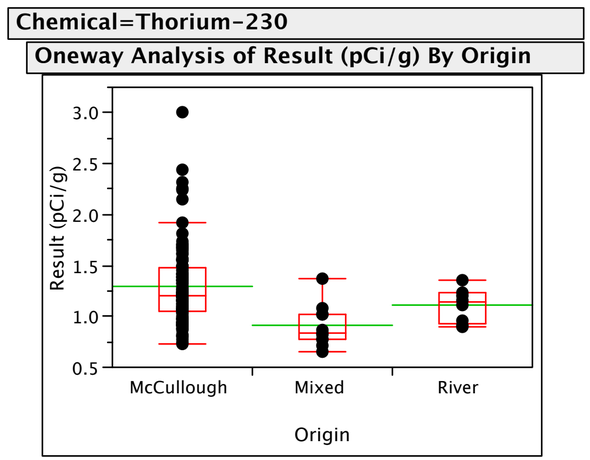


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





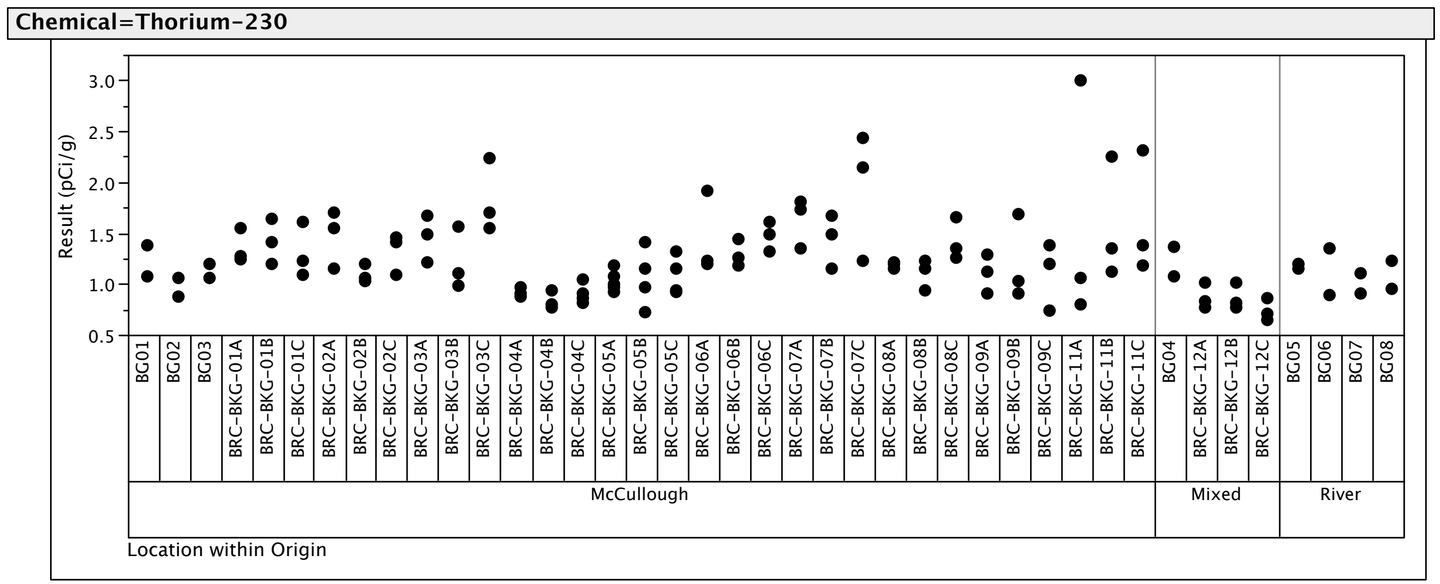
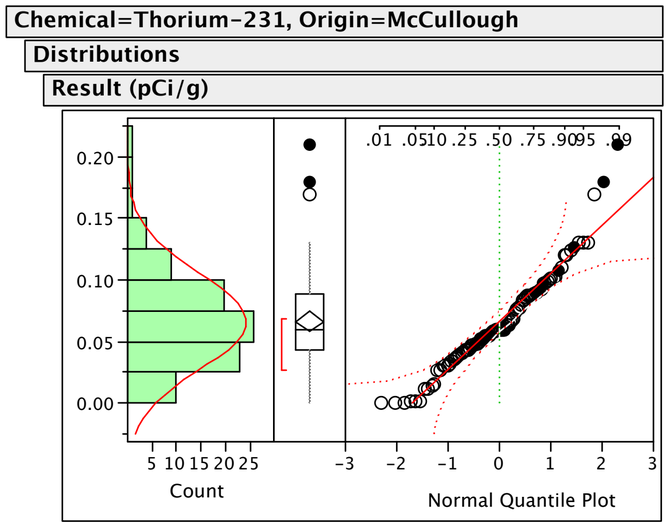
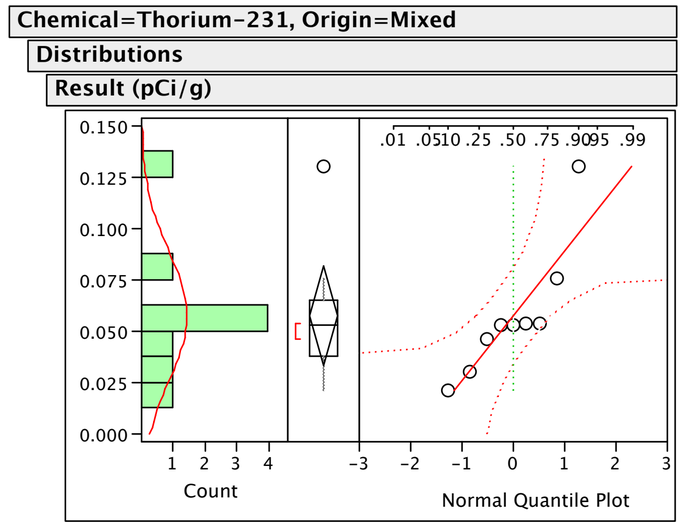
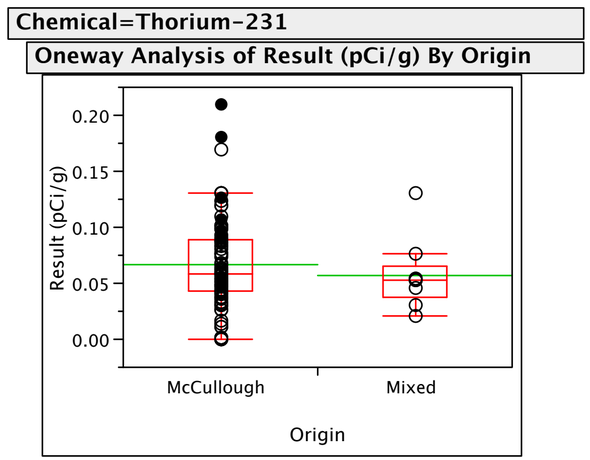


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN







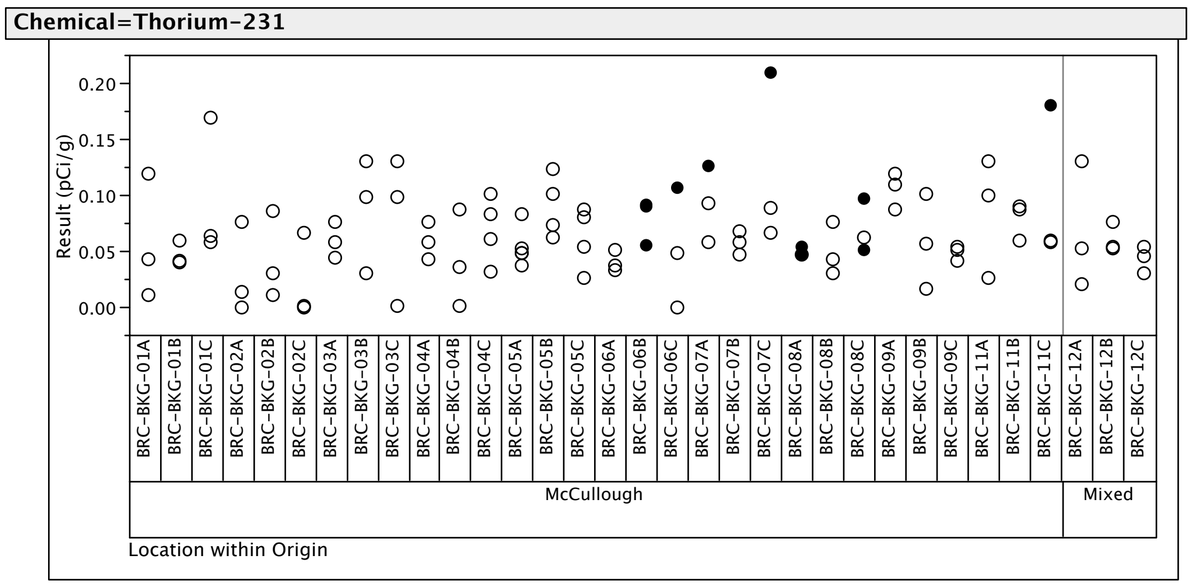
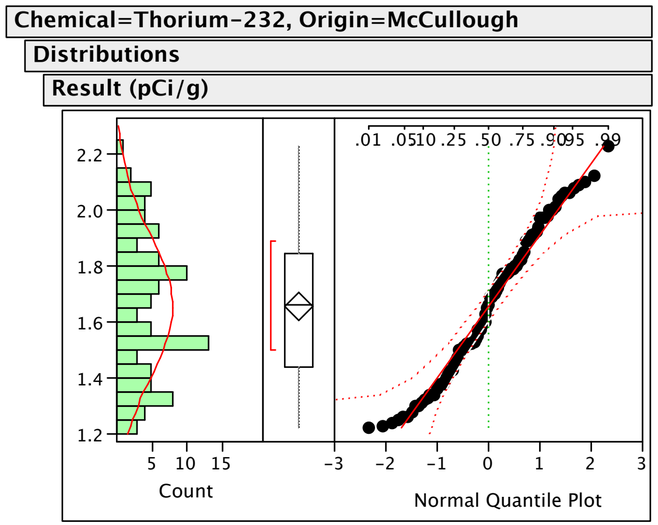
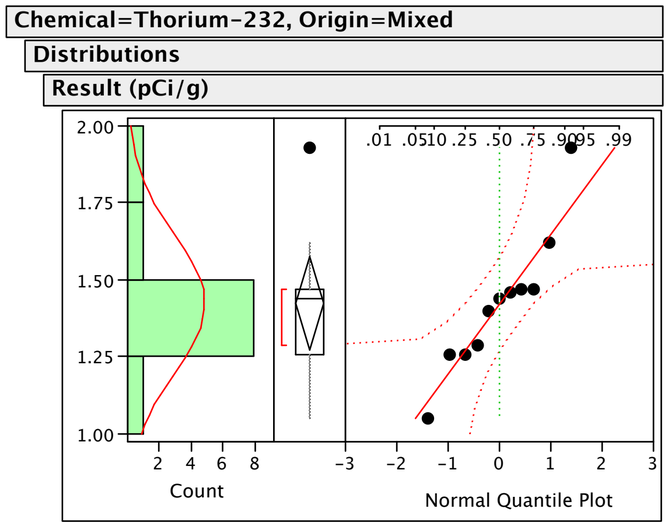
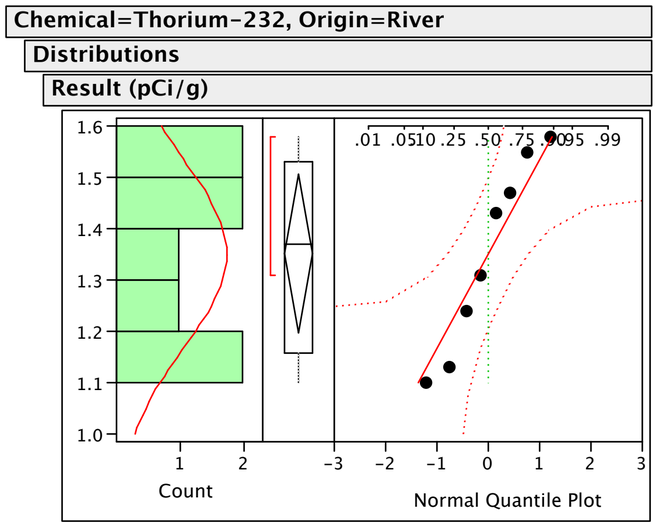


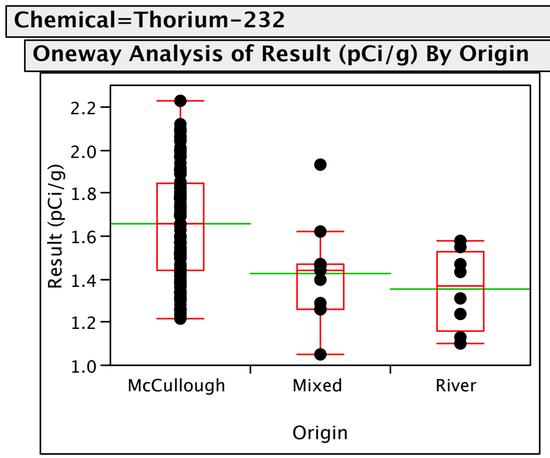
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









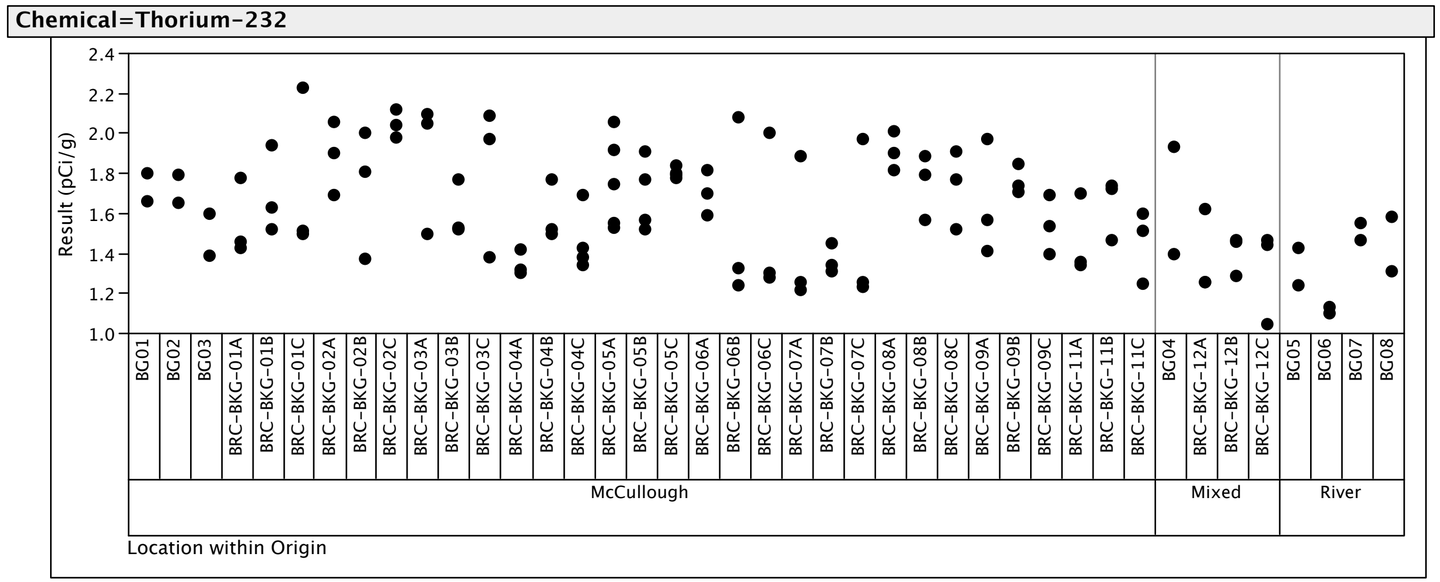
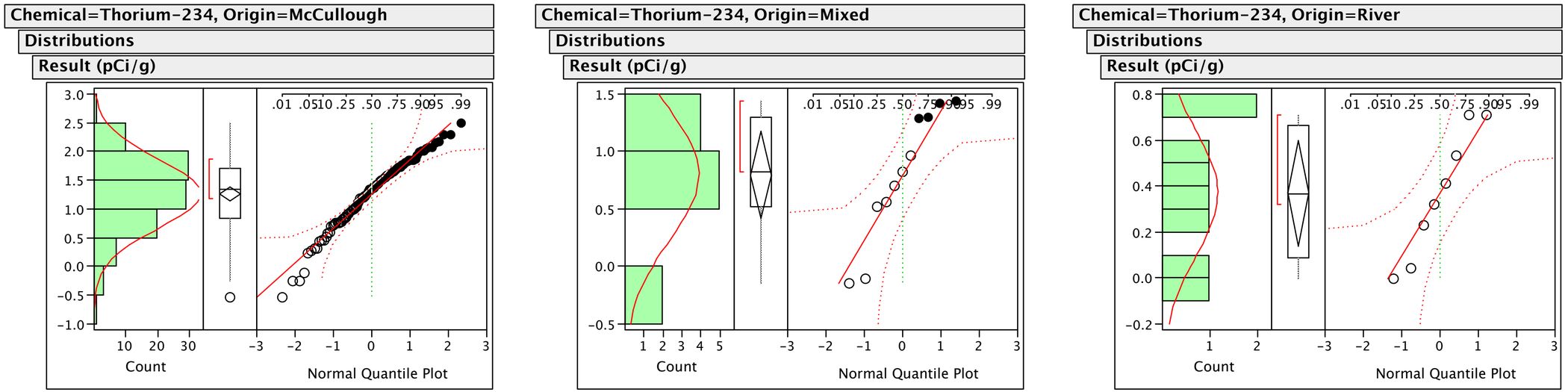
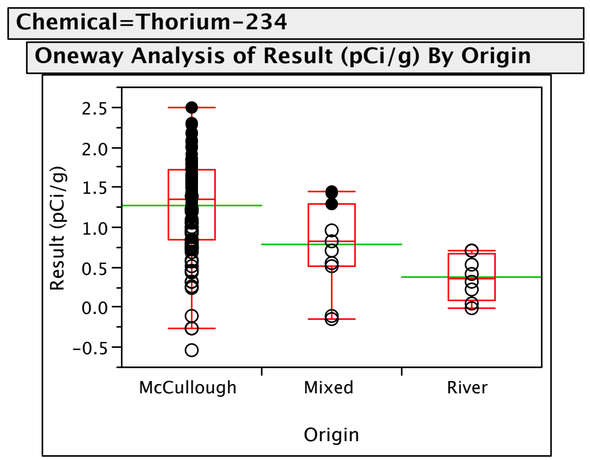


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





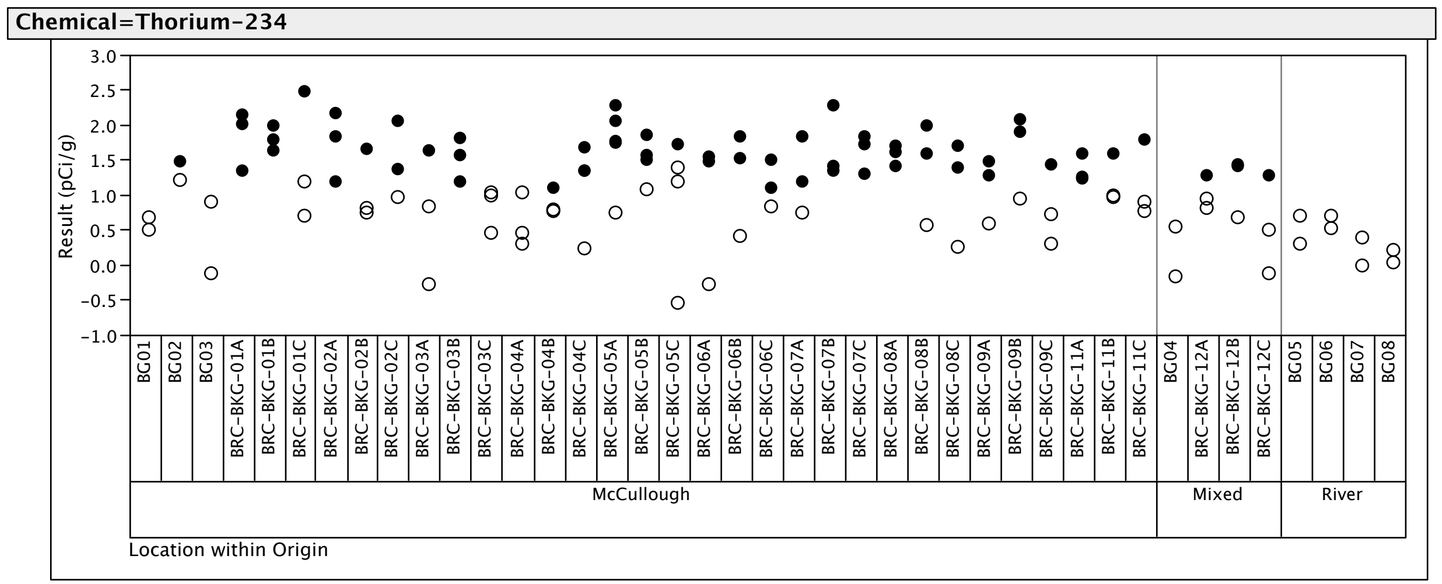
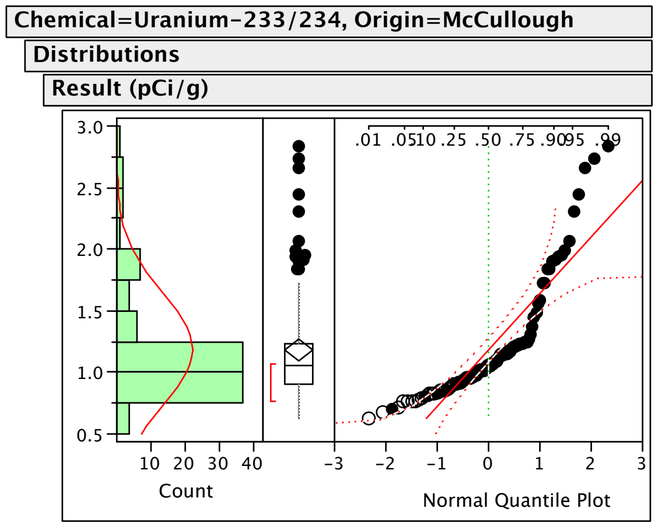
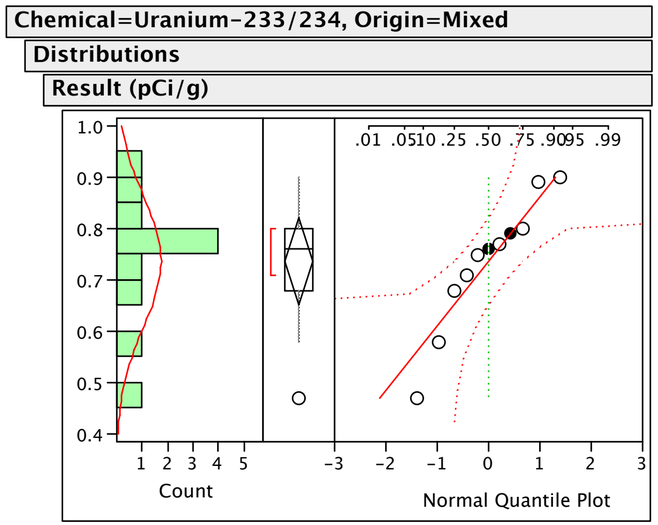
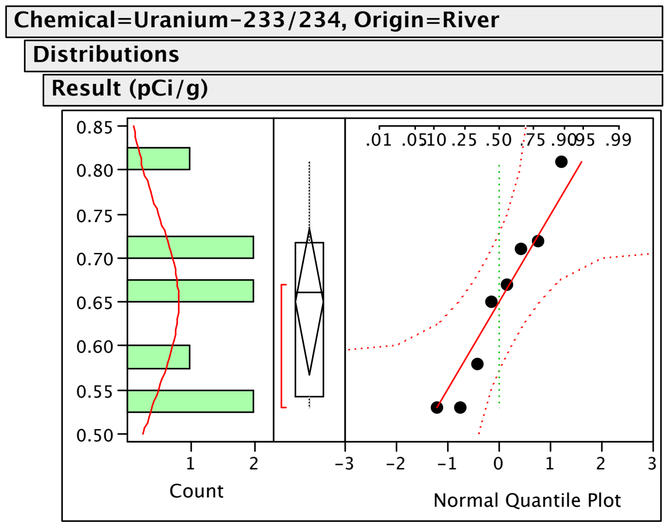


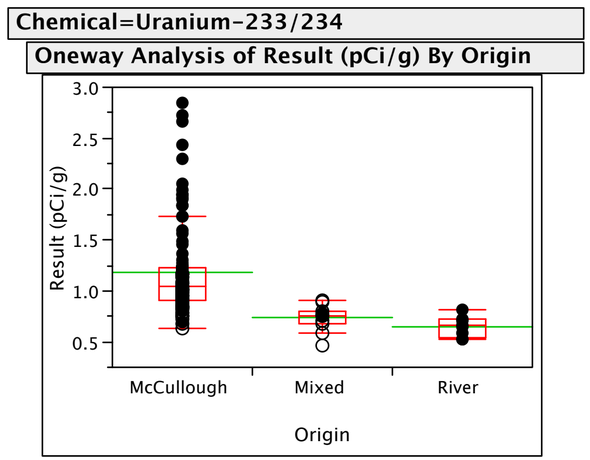
FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN









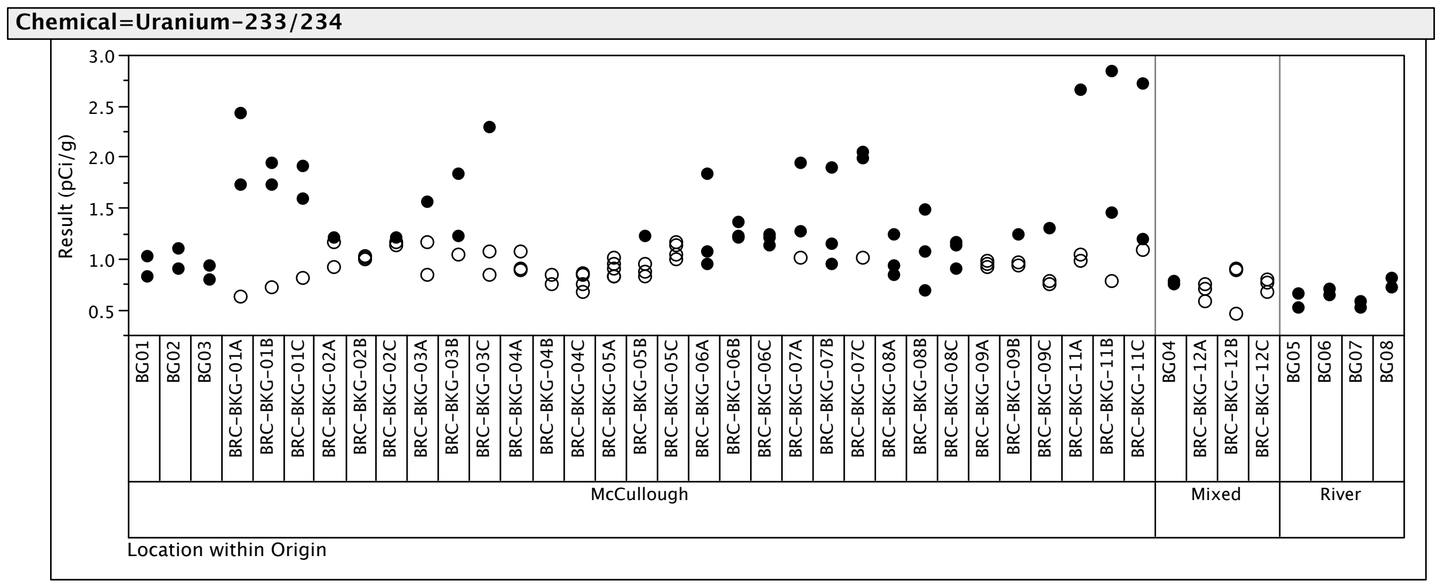
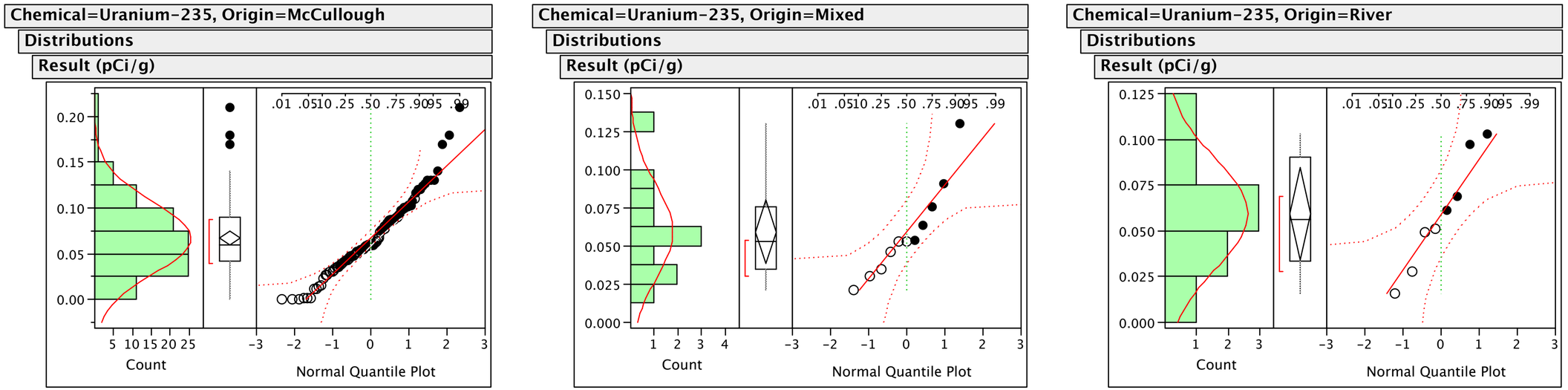
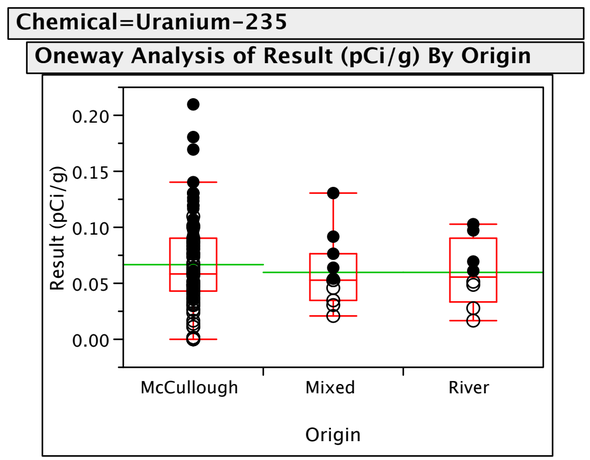


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN





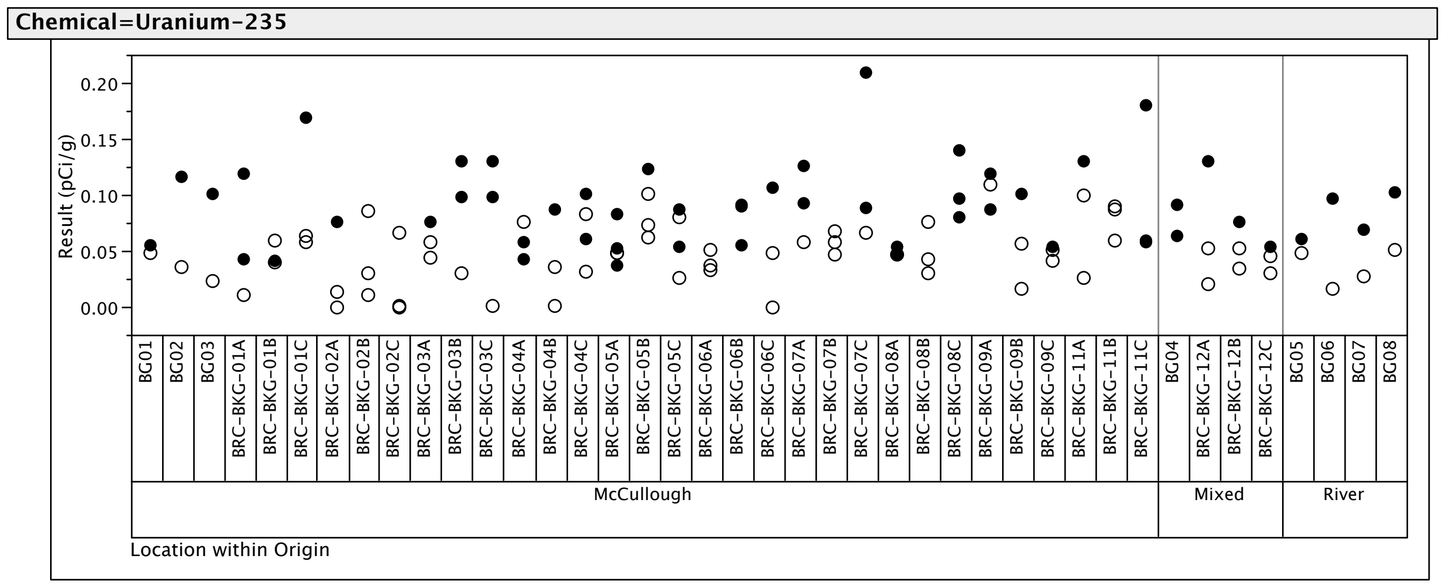


FIGURE G-6 (Continued)

COMPARISON OF RADIONUCLIDE ACTIVITIES IN COMBINED BRC/TIMET/ENVIRON BACKGROUND SOIL BY ORIGIN