

Table B.1
Background Metals Concentrations
Detected in All Soils
Camp Stanley Storage Activity, Texas

Sample ID	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
BKGR-SS1	21	73.3	0.62 (U)	18.3	7.9	56	0.04	28	34.4
BKGR-SS2	26	76.3	0.59 (U)	15.2	5.9	49	0.02 (U)	29	20.3
BKGR-SS3	20	69.4	0.60 (U)	16.3	8.4	48	0.05	26	21.8
BKGR-SS4	26 (U)	133	0.67	29.3	14.1	36	0.03 (U)	32	41.2
BKGR-SS5	20	33	0.60 (U)	4.8	5.8	50	0.03	22	15.8
BKGR-SS6	15.8	112	0.61 (U)	24.2	10.3	36	0.04	24	30.6
BKGR-SS7	12 (U)	40.9	0.61 (U)	8.7	4.2	49	0.04	25	12.6
BKGR-SS8	11 (U)	20.3	0.55 (U)	4.7	4	49	0.04	23.6	7.5
BKGR-SS9	25	65	0.59 (U)	13.4	17.2	92	0.03 (U)	24.3	90
BKGR-SS10	4.7	25.5	0.54 (U)	8.3	4.8	48	0.77	25	31
BKGR-SS11	3	100	3.8 (U)	7.1	15.84	28	0.02 (U)	23.71 (J)	41.80 (J)
BKGR-SS12	4.3	91	2.1	14	15.45	19	0.02 (U)	19.15 (J)	60.59 (J)
BKGR-SS13	4.4	25	3.6 (U)	7.1	9.68	7.5	0.02 (U)	16.53 (M)	31.90 (J)
BKGR-SS14	4.3	34	3.6 (U)	8.2	13.00	19	0.02 (U)	13.57 (J)	30.10 (J)
BKGR-SS15	5.66 (M)	39.72	0.12 (M)	10.9 (F)	9.32	16.14 (M)	0.02 (F)	7.42 (M)	11.42 (J)
BKGR-SS16	5.3	61	3	19	8.92	19	0.02 (U)	6.66 (M)	12.69 (J)
BKGR-SS17	4.0	77	4.2 (U)	11	11.42 (J)	16	0.02 (U)	15.08 (M)	33.72 (J)
BKGR-SS18	4.6	100	2.6	17	12.36 (J)	15	0.02 (U)	13.74 (J)	31.00 (J)
BKGR-SS19	4.6 (U)	19	3.6 (U)	2.6	4.37 (J)	5.3	0.02 (U)	4.99 (J)	11.41 (J)
BKGR-SS20	5.0 (U)	65	3.8 (U)	5.7	9.26 (J)	9.8	0.02 (U)	12.92 (M)	26.18 (J)
BKGR-SS21	4.8 (U)	22	3.6 (U)	2.5	8.43 (J)	8.9	0.02 (U)	9.34 (J)	19.56 (J)
BKGR-SS22	2.7	62	3.8 (U)	5.6	6.07	10	0.02 (U)	4.97 (J)	9.23 (J)
BKGR-SS23	5.2 (U)	36	3.6 (U)	4.1	11.52 (J)	5.5	0.02 (U)	13.18 (J)	29.66 (J)
BKGR-SS24	4.8 (U)	91	4.0 (U)	6.9	5.59	13	0.02 (U)	4.95 (J)	9.10 (J)
BKGR-SS25	5.4 (U)	78	3.8 (U)	5.4	14.18	6.4	0.02 (U)	10.50 (J)	31.12 (J)
BKGR-SS26	2.6	37	3.8 (U)	6.1	6.37 (J)	13	0.02 (U)	5.44 (J)	14.00 (J)
BKGR-SS27	4.8 (U)	28	3.6 (U)	4.3	10.17	6	0.02 (U)	10.22 (J)	25.69 (J)
BKGR-SS28	4.6 (U)	12	3.4 (U)	3.3	6.55	6.9	0.02 (U)	9.04 (J)	17.68 (J)
BKGR-SS29	4.4 (U)	13	3.4 (U)	2.4	11.30	5.3	0.02 (U)	12.21 (J)	23.26 (J)
BKGR-SS30	4.4 (U)	18	3.4 (U)	2.9	3.13	7.3	0.02 (U)	3.16 (J)	7.28 (J)
BKGR-SS31	5.2 (U)	43	3.8 (U)	8.6	10.07 (J)	7.9	0.02 (U)	11.79 (J)	21.63 (J)
BKGR-SS32	5.0 (U)	41	3.8 (U)	6.5	4.46	12	0.02 (U)	4.67 (J)	8.26 (J)
BKGR-SS33	5.0 (U)	45	3.8 (U)	3.9	4.74	7.4	0.02 (U)	6.39 (M)	8.19 (J)
BKGR-SS34	4.8 (U)	20	3.6 (U)	2.4	13.91	5.5	0.02 (U)	18.03 (M)	35.55 (J)
BKGR-SS35	5.0 (U)	39	3.8 (U)	3.6	6.85	8.7	0.02 (U)	11.33 (M)	21.48 (J)
BKGR-SS36	5.38 (M)	26.93	0.18 (M)	4.6 (F)	6.07	13.55 (M)	0.01 (U)	4.47 (J)	11.99 (J)
BKGR-SS37	11.63 (M)	101.32	0.26 (M)	22.9	14.84	43.27 (M)	0.04 (F)	21.38 (J)	46.07 (J)
BKGR-SS38	7.00 (M)	78.47	0.25 (M)	20.4	11.46	51.91 (M)	0.03 (F)	11.33 (J)	34.04 (J)
BKGR-SS40	6.95 (M)	95.96 (J)	0.21 (M)	23.9	14.48 (J)	21.75 (M)	0.06 (F)	15.76 (J)	35.12 (J)
BKGR-SS41	9.96 (M)	91.58	0.42 (M)	24.6	13.72	23.46 (M)	0.04 (F)	19.54 (J)	52.50 (J)
BKGR-SS42	3.79 (M)	15.44	0.15 (M)	4.4 (F)	2.91	16.92 (M)	0.02 (F)	3.74 (J)	11.47 (J)
BKGR-SS43	4.98 (M)	19.52	0.11 (M)	7.0 (F)	3.77 (J)	8.62 (M)	0.03 (F)	5.02 (J)	10.25 (J)
BKGR-SS44	5.39 (M)	33.69	0.16 (M)	9.3 (F)	5.13	12.07 (M)	0.01 (U)	7.42 (J)	45.69 (J)
BKGR-SS45	11.17 (M)	82.27	0.42 (J)	22.2	13.35	24.82 (J)	0.06 (F)	17.87 (J)	49.65 (J)
BKGR-SS46	7.13 (J)	73.17	0.20 (J)	14.3 (F)	7.24	10.50 (J)	0.01 (U)	10.55 (J)	22.27 (J)
BKGR-SS47	4.36 (M)	25.75	0.11	5.4 (F)	4.51	23.68 (J)	0.01 (U)	4.09 (J)	11.57 (J)
BKGR-SS48	9.89 (M)	98.71	0.46	23.5	14.96	98.03 (J)	0.01 (U)	15.91 (J)	43.85 (J)
BKGR-SS49	6.20 (M)	55.98	0.23	14.6 (F)	10.07	28.09 (J)	0.01 (U)	10.64 (J)	20.02 (J)
BKGR-SS50	5.38 (M)	21.14	0.14	6.4 (F)	5.32	12.20 (J)	0.01 (U)	5.34 (J)	9.63 (J)
BKGR-SS51	5.74 (M)	42.55	0.15	12.4 (F)	26.96	23.46 (J)	0.01 (U)	7.85 (J)	19.43 (J)
BKGR-SS52	12.56 (M)	91.87	0.27	15.8 (F)	15.66	60.55 (J)	0.13	14.97 (J)	31.35 (J)
BKGR-SS53	4.71 (M)	35.01	0.29	7.7 (F)	6.53	31.85 (J)	0.02 (F)	5.41 (J)	18.59 (J)
BKGR-SS54	2.64 (M)	77.28 (M)	0.27 (M)	8.4 (F)	7.61 (J)	17.86 (M)	0.02 (F)	8.16 (J)	26.78 (J)
BKGR-SS55	5.35 (M)	80.46 (M)	0.23 (M)	7.3 (F)	4.48	11.38 (M)	0.01 (U)	8.87 (J)	12.91 (J)
BKGR-SS56	6.18 (M)	67.29 (M)	0.17 (M)	8.8 (F)	5.42	11.55 (M)	0.01 (U)	8.24 (J)	16.64 (J)
BKGR-SS57	7.14 (M)	117.55 (M)	0.31 (M)	24.9	19.43	212.59 (M)	0.20	17.45 (J)	98.57 (J)
BKGR-SS58	5.05 (M)	74.17 (M)	0.19 (M)	15.2 (F)	12.83	20.99 (M)	0.01 (U)	11.90 (J)	29.84 (J)
BKGR-SS59	6.60 (M)	76.89 (M)	0.23 (M)	20.5	11.44	13.87 (M)	0.01 (U)	15.29 (J)	29.23 (J)
BKGR-SS61	6.84 (M)	105.38 (M)	0.21 (M)	26.0	14.56 (J)	21.18 (M)	0.04 (F)	19.42 (J)	40.48 (J)
BKGR-SS62	6.88 (M)	269.67 (M)	0.18 (M)	17.1 (F)	10.14 (J)	23.79 (M)	0.05 (F)	24.98 (J)	22.10 (J)
BKGR-SS63	7.15 (M)	60.05	0.17 (M)	15.3 (F)	9.78	23.21 (M)	0.04 (F)	9.27 (M)	17.02 (M)

Sample ID	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
BKGR-SS64	5.89 (M)	54.53	0.17 (M)	12.4 (F)	8.22	29.28 (M)	0.04 (F)	7.45 (M)	20.66 (M)
BKGR-SS65	6.84 (M)	51.35	0.15 (M)	11.6 (F)	13.44	15.48 (M)	0.03 (F)	7.37 (M)	17.38 (M)
BKGR-SS66	4.31 (M)	82.38	0.19 (M)	16.6 (F)	10.38	19.04 (M)	0.02 (F)	8.45 (M)	25.61 (M)
BKGR-SS67	2.12 (M)	33.72	0.10 (M)	5.5 (M)	4.41	16.77 (M)	0.03 (F)	3.24 (M)	7.02 (M)
BKGR-SS68	3.80 (M)	85.77	0.18 (M)	19.3 (F)	9.45	21.79 (M)	0.02 (F)	9.17 (M)	22.15 (M)
BKGR-SS69	3.87 (M)	122.37	0.20 (M)	27.7	14.71	43.85 (M)	0.04 (F)	14.65 (M)	31.25 (M)
BKGR-SS70	3.20 (M)	26.99	0.13 (M)	6.4 (F)	6.53	13.36 (M)	0.03 (F)	4.39 (M)	11.08 (M)
BKGR-SS71	10.04 (M)	92.51	0.20 (M)	29.0	16.59	30.16 (M)	0.04 (F)	17.31 (M)	32.03 (M)
BKGR-SS72	6.26 (M)	30.47	0.16 (J)	9.7 (F)	6.49	11.45 (M)	0.03 (F)	8.03 (J)	19.91 (J)
BKGR-SS73	9.88 (M)	56.23	0.19 (J)	13.9 (F)	8.67	41.19 (M)	0.04 (F)	8.46 (J)	26.59 (J)
BKGR-SS74	7.80 (M)	122.05	0.25	34.1	17.83	24.87 (M)	0.59	22.65 (J)	43.05 (J)
BKGR-SS75	7.08 (M)	55.91	0.22 (J)	15.1 (F)	7.37	45.79 (M)	0.08 (F)	7.88 (J)	63.77 (J)
BKGR-SS76	9.53 (M)	146.38	0.22 (J)	34.7	16.18	20.04 (M)	0.04 (F)	21.86 (J)	37.66 (J)
BKGR-SS77	11.12 (M)	70.28	0.23 (J)	17.4 (F)	15.40	14.08 (M)	0.12	12.58 (J)	33.73 (J)
BKGR-SS78	7.47 (M)	37.32	0.28 (J)	6.7 (F)	5.87	14.38 (M)	0.33	6.88 (J)	15.36 (J)
BKGR-SS79	5.73 (M)	18.62	0.11 (J)	5.4 (F)	6.00	16.08 (M)	0.03 (F)	4.27 (J)	10.13 (J)
BKGR-SS80	4.88 (M)	84.33	0.23 (J)	17.6 (F)	16.70	23.38 (M)	0.05 (F)	11.71 (J)	37.14 (J)
Percentage of Nondetects	23	0	38	0	0	0	50	0	0
Procedure (described below)	Procedure 2	Procedure 1	Procedure 3	Procedure 1	Procedure 1	Procedure 1	Procedure 3	Procedure 1	Procedure 1
Upper Tolerance Limit	19.6	186	3.0	40.2	23.2	84.5	0.77	35.5	73.2

Revision 2 Note: Sample results previously provided by ITS Laboratory have been replaced.

Definition of qualifiers:

U The analyte was analyzed for but not detected. The numerical value reported here for statistical purposes is the SQL. Numerical values reported by the laboratory for non-detect results are listed in Appendix A.

J The analyte was positively identified; the quantitation is an estimation.

F The analyte was positively identified but the associated numerical value is below the SQL.

M A matrix effect was present.

Rejected values ("R" qualifier) are ignored for all evaluations and calculations in all steps.

The data are evaluated to determine the percentage of non-detect values ("U" qualifier) and SQL values present.

All non-detects and detects below the SQL have been replaced with the SQL for the purposes of these statistical calculations.

The statistical procedures are as follows:

Procedure 1: If less than 15% of all samples are SQL values, a parametric tolerance limit is used.

Procedure 2: If the percent of the SQL values is between 15% and 50%, Cohen's or Aitchison's adjustment is made to the sample mean and the standard deviation in order to continue with a parametric tolerance limit.

Procedure 3: If the percent of SQL values is greater than 50%, or the data are non normally or non lognormally distributed, a nonparametric tolerance limit is used. The nonparametric TL is the largest detected value observed.