

TETRA TECH EM, INC.  
BOISE, ID

CLIENT # T029  
REPORT # 09-010

SUBMITTED BY:  
***CHESTER LabNet***  
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# **CHESTER LabNet**

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## **Case Narrative**

Date: January 21, 2009

### **General Information**

Client: Tetra Tech EM, Inc.  
Client Number: T029  
Report Number: 09-010  
Sample Description: 47mm Teflon filter

### **Analysis**

Analytes: Particulate Mass, XRF Metals (Na - Pb)  
Analytical Protocols: Gravimetry, X-Ray Fluorescence protocol 6  
Analytical Notes: No problems were encountered during the analyses. Results have **not** been blank corrected.  
QA/QC Review: All of the data have been reviewed by the analysts performing the analyses and the project manager. All of the quality control and sample-specific information in this package is complete and meets or exceeds the minimum requirements for acceptability.  
Comments: If you have any questions or concerns regarding this analysis, please feel free to contact the project manager.  
Disclaimer: This report shall not be reproduced, except in full, without the written approval of the laboratory. The results only represent that of the samples as received into the laboratory.



Project Manager  
Paul Duda

1/21/09  
Date

**Tetra Tech EMI**  
**Gravimetric Data**

Lab ID	Client ID	Site	Sample Date	Particle Size	Tare Wt.(mg)	Gross Wt.(mg)	Net Wt.(µg)	Volume (m³)	Conc. (µg/m³)	Comments
08-T6883	OFF01-122708	OFF01	12/27/09	TSP	143.533	143.588	55	14.28	3.85	
08-T6884	OFF02-122708	OFF02	12/27/09	TSP	146.132	146.209	77	14.44	5.33	
08-T6885	BMI03-123008	BMI03	12/30/09	TSP	144.713	145.145	432	17.54	24.63	
08-T6886	BMI01-123008	BMI01	12/30/09	TSP	142.276	142.963	687	21.00	32.71	
08-T6887	CAMU06-123008	CAMU06	12/30/09	TSP	144.878	146.174	1296	21.75	59.59	
08-T6888	CAMU03-123008	CAMU03	12/30/09	TSP	143.606	144.888	1282	24.04	53.33	
08-T6889	BMI02-010609	BMI02	1/6/09	TSP	138.680	138.859	179	24.04	7.45	
08-T6890	BMI01-010609	BMI01	1/6/09	TSP	152.275	152.459	184	24.04	7.65	
08-T6891	CAMU03-010609	CAMU03	1/6/09	TSP	153.637	153.647	10	24.04	0.42	
08-T6892	CAMU06-010609	CAMU06	1/6/09	TSP	148.282	149.193	911	20.51	44.42	
08-T6893	BMI06-010609	BMI06	1/6/09	TSP	145.314	145.513	199	24.04	8.28	
08-T6894	BMI11-010609	BMI11	1/6/09	TSP	147.743	147.932	189	24.04	7.86	
08-T6895	BMI01-010909	BMI01	1/9/09	TSP	147.588	147.807	219	24.04	9.11	
08-T6896	BMI03-010909	BMI03	1/9/09	TSP	149.708	150.324	616	24.04	25.62	
08-T6897	BMI11-010909	BMI11	1/9/09	TSP	145.871	146.234	363	24.04	15.10	
08-T6898	BMI06-010909	BMI06	1/9/09	TSP	145.854	146.216	362	21.57	16.78	
08-T6899	CAMU04-010909	CAMU04	1/9/09	TSP	144.404	145.344	940	24.16	38.91	
08-T6900	CAMU06-010909	CAMU06	1/9/09	TSP	146.252	147.874	1622	23.79	68.18	
08-T6901	BMI06-011309	BMI06	1/13/09	TSP	141.959	142.045	86	24.04	3.58	
08-T6902	CAMU03-011309	CAMU03	1/13/09	TSP	142.401	142.756	355	24.04	14.77	
08-T6903	BMI01-011309	BMI01	1/13/09	TSP	141.245	141.542	297	18.28	16.25	
08-T6904	CAMU06-011309	CAMU06	1/13/09	TSP	143.326	143.897	571	24.04	23.75	
08-T6906	BMI03-011309	BMI03	1/13/09	TSP	140.960	141.124	164	24.04	6.82	

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6883  
Client ID: OFF01-122708  
Filter ID: P8013290  
Site: OFF01  
Sample Date: 12/27/09  
Filter Lot #: 8070002  
Volume: 14.28 +/- 1.428 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	55. ± 10.		3.852 ± 0.7992
XRF			
* Na	0.0000 ± 0.2633	0.0000 ± 0.4787	0.0000 ± 0.0184
* Mg	0.3672 ± 0.1446	0.6677 ± 0.2897	0.0257 ± 0.0105
* Al	0.2531 ± 0.1017	0.4602 ± 0.2030	0.0177 ± 0.0073
Si	2.194 ± 0.1367	3.990 ± 0.7669	0.1537 ± 0.0181
* P	0.0000 ± 0.0226	0.0000 ± 0.0411	0.0000 ± 0.0016
S	1.059 ± 0.1085	1.925 ± 0.4018	0.0741 ± 0.0106
Cl	0.7300 ± 0.0610	1.327 ± 0.2656	0.0511 ± 0.0067
K	0.3898 ± 0.0316	0.7088 ± 0.1411	0.0273 ± 0.0035
Ca	4.135 ± 0.2113	7.518 ± 1.420	0.2895 ± 0.0325
Ti	0.1650 ± 0.0136	0.3000 ± 0.0599	0.0116 ± 0.0015
* V	0.0000 ± 0.0068	0.0000 ± 0.0123	0.0000 ± 0.0005
* Cr	0.0192 ± 0.0079	0.0349 ± 0.0157	0.0013 ± 0.0006
Mn	0.9955 ± 0.0836	1.810 ± 0.3625	0.0697 ± 0.0091
Fe	1.037 ± 0.0576	1.886 ± 0.3586	0.0726 ± 0.0083
* Co	0.0056 ± 0.0215	0.0103 ± 0.0391	0.0004 ± 0.0015
* Ni	0.0000 ± 0.0147	0.0000 ± 0.0267	0.0000 ± 0.0010
Cu	0.1006 ± 0.0158	0.1829 ± 0.0440	0.0070 ± 0.0013
Zn	0.0814 ± 0.0124	0.1479 ± 0.0351	0.0057 ± 0.0010
* Ga	0.0000 ± 0.0102	0.0000 ± 0.0185	0.0000 ± 0.0007
* Ge	0.0215 ± 0.0090	0.0390 ± 0.0179	0.0015 ± 0.0007
* As	0.0000 ± 0.0124	0.0000 ± 0.0226	0.0000 ± 0.0009
* Se	0.0158 ± 0.0068	0.0288 ± 0.0134	0.0011 ± 0.0005
Br	0.0170 ± 0.0056	0.0308 ± 0.0117	0.0012 ± 0.0004
* Rb	0.0011 ± 0.0068	0.0021 ± 0.0123	0.0001 ± 0.0005
* Sr	0.0090 ± 0.0079	0.0164 ± 0.0147	0.0006 ± 0.0006
* Y	0.0000 ± 0.0090	0.0000 ± 0.0164	0.0000 ± 0.0006
* Zr	0.0170 ± 0.0113	0.0308 ± 0.0213	0.0012 ± 0.0008
* Mo	0.0282 ± 0.0170	0.0514 ± 0.0322	0.0020 ± 0.0012
* Pd	0.0260 ± 0.0475	0.0473 ± 0.0867	0.0018 ± 0.0033
* Ag	0.0000 ± 0.0486	0.0000 ± 0.0883	0.0000 ± 0.0034
* Cd	0.0000 ± 0.0531	0.0000 ± 0.0966	0.0000 ± 0.0037
* In	0.0000 ± 0.0588	0.0000 ± 0.1068	0.0000 ± 0.0041
* Sn	0.0000 ± 0.0689	0.0000 ± 0.1253	0.0000 ± 0.0048
* Sb	0.3164 ± 0.1446	0.5753 ± 0.2830	0.0222 ± 0.0104
* Ba	0.0768 ± 0.0305	0.1397 ± 0.0610	0.0054 ± 0.0022
* La	0.0000 ± 0.0237	0.0000 ± 0.0431	0.0000 ± 0.0017
* Hg	0.0350 ± 0.0158	0.0637 ± 0.0310	0.0025 ± 0.0011
* Pb	0.0034 ± 0.0203	0.0062 ± 0.0370	0.0002 ± 0.0014

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6884  
Client ID: OFF02-122708  
Filter ID: P8013291  
Site: OFF02  
Sample Date: 12/27/09  
Filter Lot #: 8070002  
Volume: 14.44 +/- 1.444 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	77. ± 10.		5.332 ± 0.8740
XRF			
* Na	0.1921 ± 0.2633	0.2495 ± 0.3435	0.0133 ± 0.0183
* Mg	0.1752 ± 0.1435	0.2275 ± 0.1887	0.0121 ± 0.0100
* Al	0.0170 ± 0.0701	0.0220 ± 0.0910	0.0012 ± 0.0049
Si	1.585 ± 0.1074	2.059 ± 0.3016	0.1098 ± 0.0133
* P	0.0000 ± 0.0226	0.0000 ± 0.0294	0.0000 ± 0.0016
S	0.9718 ± 0.0859	1.262 ± 0.1983	0.0673 ± 0.0090
Cl	0.5797 ± 0.0565	0.7528 ± 0.1222	0.0401 ± 0.0056
K	0.3164 ± 0.0316	0.4109 ± 0.0674	0.0219 ± 0.0031
Ca	3.282 ± 0.1718	4.262 ± 0.5967	0.2273 ± 0.0256
Ti	0.1480 ± 0.0136	0.1922 ± 0.0306	0.0103 ± 0.0014
* V	0.0000 ± 0.0079	0.0000 ± 0.0103	0.0000 ± 0.0005
* Cr	0.0000 ± 0.0090	0.0000 ± 0.0117	0.0000 ± 0.0006
Mn	0.9515 ± 0.0814	1.236 ± 0.1921	0.0659 ± 0.0087
Fe	0.8520 ± 0.0497	1.107 ± 0.1575	0.0590 ± 0.0068
* Co	0.0463 ± 0.0226	0.0602 ± 0.0304	0.0032 ± 0.0016
* Ni	0.0000 ± 0.0170	0.0000 ± 0.0220	0.0000 ± 0.0012
Cu	0.0576 ± 0.0147	0.0748 ± 0.0214	0.0040 ± 0.0011
Zn	0.0441 ± 0.0124	0.0572 ± 0.0178	0.0031 ± 0.0009
* Ga	0.0113 ± 0.0102	0.0147 ± 0.0133	0.0008 ± 0.0007
* Ge	0.0000 ± 0.0090	0.0000 ± 0.0117	0.0000 ± 0.0006
* As	0.0000 ± 0.0136	0.0000 ± 0.0176	0.0000 ± 0.0009
* Se	0.0102 ± 0.0068	0.0132 ± 0.0090	0.0007 ± 0.0005
* Br	0.0023 ± 0.0056	0.0029 ± 0.0073	0.0002 ± 0.0004
* Rb	0.0000 ± 0.0068	0.0000 ± 0.0088	0.0000 ± 0.0005
* Sr	0.0158 ± 0.0079	0.0205 ± 0.0106	0.0011 ± 0.0006
* Y	0.0000 ± 0.0102	0.0000 ± 0.0132	0.0000 ± 0.0007
* Zr	0.0102 ± 0.0124	0.0132 ± 0.0162	0.0007 ± 0.0009
* Mo	0.0000 ± 0.0181	0.0000 ± 0.0235	0.0000 ± 0.0013
* Pd	0.0000 ± 0.0497	0.0000 ± 0.0646	0.0000 ± 0.0034
* Ag	0.0000 ± 0.0508	0.0000 ± 0.0660	0.0000 ± 0.0035
* Cd	0.0000 ± 0.0565	0.0000 ± 0.0734	0.0000 ± 0.0039
* In	0.0000 ± 0.0610	0.0000 ± 0.0792	0.0000 ± 0.0042
* Sn	0.0599 ± 0.0723	0.0778 ± 0.0945	0.0041 ± 0.0050
* Sb	0.2441 ± 0.1492	0.3170 ± 0.1980	0.0169 ± 0.0105
* Ba	0.0384 ± 0.0316	0.0499 ± 0.0416	0.0027 ± 0.0022
* La	0.0000 ± 0.0237	0.0000 ± 0.0308	0.0000 ± 0.0016
* Hg	0.0034 ± 0.0170	0.0044 ± 0.0220	0.0002 ± 0.0012
* Pb	0.0000 ± 0.0215	0.0000 ± 0.0279	0.0000 ± 0.0015

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6885  
Client ID: BMI03-123008  
Filter ID: P8013292  
Site: BMI03  
Sample Date: 12/30/09  
Filter Lot #: 8070002  
Volume: 17.54 +/- 1.754 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	432. ± 10.		24.63 ± 2.528
XRF			
* Na	0.0000 ± 0.3593	0.0000 ± 0.0832	0.0000 ± 0.0205
Mg	2.556 ± 0.4260	0.5917 ± 0.0996	0.1457 ± 0.0283
Al	3.396 ± 0.2757	0.7860 ± 0.0664	0.1936 ± 0.0249
Si	13.38 ± 0.7232	3.097 ± 0.1821	0.7628 ± 0.0867
* P	0.0000 ± 0.0328	0.0000 ± 0.0076	0.0000 ± 0.0019
S	3.648 ± 0.2136	0.8444 ± 0.0532	0.2080 ± 0.0241
Cl	2.854 ± 0.1627	0.6607 ± 0.0407	0.1627 ± 0.0187
K	2.519 ± 0.3220	0.5830 ± 0.0758	0.1436 ± 0.0233
Ca	22.97 ± 1.157	5.318 ± 0.2948	1.310 ± 0.1466
Ti	1.003 ± 0.0542	0.2323 ± 0.0137	0.0572 ± 0.0065
V	0.0463 ± 0.0147	0.0107 ± 0.0034	0.0026 ± 0.0009
* Cr	0.0090 ± 0.0090	0.0021 ± 0.0021	0.0005 ± 0.0005
Mn	1.026 ± 0.0859	0.2375 ± 0.0206	0.0585 ± 0.0076
Fe	6.299 ± 0.3187	1.458 ± 0.0811	0.3591 ± 0.0402
* Co	0.0418 ± 0.0362	0.0097 ± 0.0084	0.0024 ± 0.0021
* Ni	0.0158 ± 0.0170	0.0037 ± 0.0039	0.0009 ± 0.0010
Cu	0.2418 ± 0.0203	0.0560 ± 0.0049	0.0138 ± 0.0018
Zn	0.3526 ± 0.0441	0.0816 ± 0.0104	0.0201 ± 0.0032
* Ga	0.0000 ± 0.0102	0.0000 ± 0.0024	0.0000 ± 0.0006
* Ge	0.0045 ± 0.0090	0.0010 ± 0.0021	0.0003 ± 0.0005
* As	0.0328 ± 0.0147	0.0076 ± 0.0034	0.0019 ± 0.0009
* Se	0.0090 ± 0.0068	0.0021 ± 0.0016	0.0005 ± 0.0004
Br	0.0542 ± 0.0068	0.0126 ± 0.0016	0.0031 ± 0.0005
* Rb	0.0079 ± 0.0068	0.0018 ± 0.0016	0.0005 ± 0.0004
Sr	0.1785 ± 0.0124	0.0413 ± 0.0030	0.0102 ± 0.0012
* Y	0.0181 ± 0.0102	0.0042 ± 0.0024	0.0010 ± 0.0006
Zr	0.1062 ± 0.0136	0.0246 ± 0.0032	0.0061 ± 0.0010
* Mo	0.0023 ± 0.0181	0.0005 ± 0.0042	0.0001 ± 0.0010
* Pd	0.0000 ± 0.0486	0.0000 ± 0.0112	0.0000 ± 0.0028
* Ag	0.0000 ± 0.0520	0.0000 ± 0.0120	0.0000 ± 0.0030
* Cd	0.0000 ± 0.0554	0.0000 ± 0.0128	0.0000 ± 0.0032
* In	0.0904 ± 0.0633	0.0209 ± 0.0147	0.0052 ± 0.0036
* Sn	0.0486 ± 0.0734	0.0112 ± 0.0170	0.0028 ± 0.0042
* Sb	0.1989 ± 0.1480	0.0460 ± 0.0343	0.0113 ± 0.0085
Ba	0.3345 ± 0.0531	0.0774 ± 0.0124	0.0191 ± 0.0036
* La	0.0000 ± 0.0542	0.0000 ± 0.0126	0.0000 ± 0.0031
* Hg	0.0113 ± 0.0158	0.0026 ± 0.0037	0.0006 ± 0.0009
Pb	0.1695 ± 0.0249	0.0392 ± 0.0058	0.0097 ± 0.0017

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6886  
Client ID: BMI01-123008  
Filter ID: P8013293  
Site: BMI01  
Sample Date: 12/30/09  
Filter Lot #: 8070002  
Volume: 21.00 +/- 2.100 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	687. ± 10.		32.71 ± 3.306
XRF			
* Na	0.0000 ± 0.6023	0.0000 ± 0.0877	0.0000 ± 0.0287
Mg	6.597 ± 0.8159	0.9603 ± 0.1196	0.3141 ± 0.0500
Al	6.127 ± 0.4859	0.8918 ± 0.0719	0.2918 ± 0.0372
Si	23.37 ± 1.277	3.402 ± 0.1923	1.113 ± 0.1268
* P	0.0000 ± 0.0497	0.0000 ± 0.0072	0.0000 ± 0.0024
S	9.203 ± 0.5051	1.340 ± 0.0761	0.4382 ± 0.0500
Cl	13.97 ± 0.7288	2.033 ± 0.1101	0.6651 ± 0.0750
K	4.504 ± 0.4701	0.6556 ± 0.0691	0.2145 ± 0.0310
Ca	44.09 ± 2.226	6.418 ± 0.3372	2.100 ± 0.2352
Ti	1.879 ± 0.1040	0.2735 ± 0.0156	0.0895 ± 0.0102
* V	0.0305 ± 0.0260	0.0044 ± 0.0038	0.0015 ± 0.0012
Cr	0.0441 ± 0.0124	0.0064 ± 0.0018	0.0021 ± 0.0006
Mn	7.822 ± 0.5616	1.139 ± 0.0834	0.3725 ± 0.0459
Fe	13.70 ± 0.6927	1.994 ± 0.1049	0.6522 ± 0.0731
* Co	0.0000 ± 0.0633	0.0000 ± 0.0092	0.0000 ± 0.0030
* Ni	0.0170 ± 0.0170	0.0025 ± 0.0025	0.0008 ± 0.0008
Cu	0.5401 ± 0.0339	0.0786 ± 0.0051	0.0257 ± 0.0030
Zn	0.8532 ± 0.0475	0.1242 ± 0.0071	0.0406 ± 0.0046
* Ga	0.0000 ± 0.0102	0.0000 ± 0.0015	0.0000 ± 0.0005
* Ge	0.0000 ± 0.0090	0.0000 ± 0.0013	0.0000 ± 0.0004
* As	0.0000 ± 0.0136	0.0000 ± 0.0020	0.0000 ± 0.0006
* Se	0.0079 ± 0.0068	0.0012 ± 0.0010	0.0004 ± 0.0003
Br	0.1186 ± 0.0090	0.0173 ± 0.0013	0.0056 ± 0.0007
* Rb	0.0090 ± 0.0068	0.0013 ± 0.0010	0.0004 ± 0.0003
Sr	0.1921 ± 0.0124	0.0280 ± 0.0019	0.0091 ± 0.0011
* Y	0.0045 ± 0.0090	0.0007 ± 0.0013	0.0002 ± 0.0004
Zr	0.2418 ± 0.0170	0.0352 ± 0.0025	0.0115 ± 0.0014
* Mo	0.0000 ± 0.0170	0.0000 ± 0.0025	0.0000 ± 0.0008
* Pd	0.0452 ± 0.0508	0.0066 ± 0.0074	0.0022 ± 0.0024
* Ag	0.0000 ± 0.0508	0.0000 ± 0.0074	0.0000 ± 0.0024
* Cd	0.0000 ± 0.0554	0.0000 ± 0.0081	0.0000 ± 0.0026
* In	0.0000 ± 0.0622	0.0000 ± 0.0090	0.0000 ± 0.0030
* Sn	0.1074 ± 0.0723	0.0156 ± 0.0105	0.0051 ± 0.0035
* Sb	0.1435 ± 0.1469	0.0209 ± 0.0214	0.0068 ± 0.0070
Ba	0.7130 ± 0.0848	0.1038 ± 0.0124	0.0340 ± 0.0053
* La	0.0000 ± 0.0881	0.0000 ± 0.0128	0.0000 ± 0.0042
* Hg	0.0000 ± 0.0158	0.0000 ± 0.0023	0.0000 ± 0.0008
Pb	0.1401 ± 0.0237	0.0204 ± 0.0035	0.0067 ± 0.0013

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6887  
Client ID: CAMU06-123008  
Filter ID: P8013294  
Site: CAMU06  
Sample Date: 12/30/09  
Filter Lot #: 8070002  
Volume: 21.75 +/- 2.175 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	1,296. ± 10.		59.59 ± 5.976
XRF			
* Na	0.0000 ± 0.8204	0.0000 ± 0.0633	0.0000 ± 0.0377
Mg	7.197 ± 1.053	0.5553 ± 0.0814	0.3309 ± 0.0586
Al	15.87 ± 1.144	1.224 ± 0.0887	0.7294 ± 0.0899
Si	58.12 ± 3.266	4.484 ± 0.2543	2.672 ± 0.3065
* P	0.0000 ± 0.0610	0.0000 ± 0.0047	0.0000 ± 0.0028
S	7.824 ± 0.4452	0.6037 ± 0.0347	0.3597 ± 0.0414
Cl	7.090 ± 0.3898	0.5470 ± 0.0304	0.3260 ± 0.0372
K	9.158 ± 0.7899	0.7066 ± 0.0612	0.4210 ± 0.0556
Ca	68.23 ± 3.456	5.265 ± 0.2697	3.137 ± 0.3516
Ti	1.965 ± 0.1096	0.1516 ± 0.0085	0.0903 ± 0.0103
* V	0.0000 ± 0.0282	0.0000 ± 0.0022	0.0000 ± 0.0013
* Cr	0.0011 ± 0.0136	0.0001 ± 0.0010	0.0001 ± 0.0006
Mn	3.938 ± 0.2882	0.3039 ± 0.0224	0.1811 ± 0.0224
Fe	20.34 ± 1.022	1.569 ± 0.0797	0.9352 ± 0.1046
* Co	0.0000 ± 0.0915	0.0000 ± 0.0071	0.0000 ± 0.0042
* Ni	0.0282 ± 0.0170	0.0022 ± 0.0013	0.0013 ± 0.0008
Cu	0.5752 ± 0.0362	0.0444 ± 0.0028	0.0264 ± 0.0031
Zn	0.9221 ± 0.0802	0.0711 ± 0.0062	0.0424 ± 0.0056
* Ga	0.0000 ± 0.0102	0.0000 ± 0.0008	0.0000 ± 0.0005
* Ge	0.0068 ± 0.0090	0.0005 ± 0.0007	0.0003 ± 0.0004
* As	0.0170 ± 0.0136	0.0013 ± 0.0010	0.0008 ± 0.0006
Se	0.0294 ± 0.0079	0.0023 ± 0.0006	0.0014 ± 0.0004
Br	0.1040 ± 0.0090	0.0080 ± 0.0007	0.0048 ± 0.0006
Rb	0.0316 ± 0.0079	0.0024 ± 0.0006	0.0015 ± 0.0004
Sr	0.4995 ± 0.0271	0.0385 ± 0.0021	0.0230 ± 0.0026
* Y	0.0079 ± 0.0102	0.0006 ± 0.0008	0.0004 ± 0.0005
Zr	0.2249 ± 0.0170	0.0174 ± 0.0013	0.0103 ± 0.0013
* Mo	0.0316 ± 0.0181	0.0024 ± 0.0014	0.0015 ± 0.0008
* Pd	0.0237 ± 0.0520	0.0018 ± 0.0040	0.0011 ± 0.0024
* Ag	0.0000 ± 0.0542	0.0000 ± 0.0042	0.0000 ± 0.0025
* Cd	0.0000 ± 0.0565	0.0000 ± 0.0044	0.0000 ± 0.0026
* In	0.0034 ± 0.0655	0.0003 ± 0.0051	0.0002 ± 0.0030
* Sn	0.1435 ± 0.0757	0.0111 ± 0.0058	0.0066 ± 0.0035
* Sb	0.0373 ± 0.1526	0.0029 ± 0.0118	0.0017 ± 0.0070
Ba	0.8136 ± 0.0938	0.0628 ± 0.0073	0.0374 ± 0.0057
* La	0.0000 ± 0.0972	0.0000 ± 0.0075	0.0000 ± 0.0045
* Hg	0.0192 ± 0.0170	0.0015 ± 0.0013	0.0009 ± 0.0008
Pb	0.0701 ± 0.0226	0.0054 ± 0.0017	0.0032 ± 0.0011

\* - Concentration is less than three times the uncertainty



Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6888  
Client ID: CAMU03-123008  
Filter ID: P8013295  
Site: CAMU03  
Sample Date: 12/30/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	1,282. ± 10.		53.33 ± 5.349
XRF			
* Na	0.6328 ± 0.9040	0.0494 ± 0.0705	0.0263 ± 0.0377
Mg	9.527 ± 1.159	0.7431 ± 0.0906	0.3963 ± 0.0624
Al	10.84 ± 0.8238	0.8452 ± 0.0646	0.4507 ± 0.0566
Si	43.80 ± 2.468	3.416 ± 0.1943	1.822 ± 0.2091
* P	0.0000 ± 0.0633	0.0000 ± 0.0049	0.0000 ± 0.0026
S	13.75 ± 0.7458	1.073 ± 0.0588	0.5721 ± 0.0651
Cl	26.68 ± 1.388	2.081 ± 0.1095	1.110 ± 0.1251
K	7.832 ± 0.4091	0.6109 ± 0.0323	0.3258 ± 0.0368
Ca	77.09 ± 3.908	6.013 ± 0.3084	3.207 ± 0.3595
Ti	2.024 ± 0.1130	0.1579 ± 0.0089	0.0842 ± 0.0096
* V	0.0124 ± 0.0294	0.0010 ± 0.0023	0.0005 ± 0.0012
Cr	0.1119 ± 0.0158	0.0087 ± 0.0012	0.0047 ± 0.0008
Mn	12.48 ± 0.8904	0.9731 ± 0.0699	0.5189 ± 0.0638
Fe	24.57 ± 1.237	1.916 ± 0.0977	1.022 ± 0.1144
* Co	0.0000 ± 0.1096	0.0000 ± 0.0085	0.0000 ± 0.0046
Ni	0.0791 ± 0.0192	0.0062 ± 0.0015	0.0033 ± 0.0009
Cu	0.7142 ± 0.0429	0.0557 ± 0.0034	0.0297 ± 0.0035
Zn	1.503 ± 0.0791	0.1172 ± 0.0062	0.0625 ± 0.0071
* Ga	0.0000 ± 0.0113	0.0000 ± 0.0009	0.0000 ± 0.0005
* Ge	0.0000 ± 0.0090	0.0000 ± 0.0007	0.0000 ± 0.0004
* As	0.0000 ± 0.0136	0.0000 ± 0.0011	0.0000 ± 0.0006
* Se	0.0124 ± 0.0079	0.0010 ± 0.0006	0.0005 ± 0.0003
Br	0.1514 ± 0.0102	0.0118 ± 0.0008	0.0063 ± 0.0008
Rb	0.0226 ± 0.0068	0.0018 ± 0.0005	0.0009 ± 0.0003
Sr	0.4238 ± 0.0237	0.0331 ± 0.0019	0.0176 ± 0.0020
* Y	0.0011 ± 0.0102	0.0001 ± 0.0008	0.0000 ± 0.0004
Zr	0.2158 ± 0.0170	0.0168 ± 0.0013	0.0090 ± 0.0011
* Mo	0.0237 ± 0.0181	0.0019 ± 0.0014	0.0010 ± 0.0008
* Pd	0.0000 ± 0.0520	0.0000 ± 0.0041	0.0000 ± 0.0022
* Ag	0.0000 ± 0.0542	0.0000 ± 0.0042	0.0000 ± 0.0023
* Cd	0.0000 ± 0.0588	0.0000 ± 0.0046	0.0000 ± 0.0024
* In	0.0000 ± 0.0667	0.0000 ± 0.0052	0.0000 ± 0.0028
* Sn	0.0000 ± 0.0746	0.0000 ± 0.0058	0.0000 ± 0.0031
* Sb	0.3175 ± 0.1593	0.0248 ± 0.0124	0.0132 ± 0.0068
Ba	0.8758 ± 0.0972	0.0683 ± 0.0076	0.0364 ± 0.0054
* La	0.0000 ± 0.1017	0.0000 ± 0.0079	0.0000 ± 0.0042
* Hg	0.0000 ± 0.0170	0.0000 ± 0.0013	0.0000 ± 0.0007
Pb	0.1153 ± 0.0237	0.0090 ± 0.0019	0.0048 ± 0.0011

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6889  
Client ID: BMI02-010609  
Filter ID: P8013296  
Site: BMI02  
Sample Date: 1/ 6/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	179. ± 10.		7.446 ± 0.8529
XRF			
* Na	0.0000 ± 0.2927	0.0000 ± 0.1635	0.0000 ± 0.0122
Mg	1.227 ± 0.3119	0.6856 ± 0.1784	0.0510 ± 0.0139
Al	2.253 ± 0.1966	1.259 ± 0.1304	0.0937 ± 0.0124
Si	8.110 ± 0.4396	4.531 ± 0.3527	0.3374 ± 0.0384
* P	0.0000 ± 0.0271	0.0000 ± 0.0152	0.0000 ± 0.0011
S	2.269 ± 0.1424	1.268 ± 0.1065	0.0944 ± 0.0111
Cl	1.250 ± 0.0836	0.6982 ± 0.0609	0.0520 ± 0.0063
K	1.633 ± 0.0904	0.9122 ± 0.0717	0.0679 ± 0.0078
Ca	11.12 ± 0.5616	6.213 ± 0.4679	0.4626 ± 0.0518
Ti	0.4057 ± 0.0249	0.2266 ± 0.0188	0.0169 ± 0.0020
* V	0.0000 ± 0.0090	0.0000 ± 0.0051	0.0000 ± 0.0004
Cr	0.0452 ± 0.0079	0.0253 ± 0.0046	0.0019 ± 0.0004
Mn	0.5548 ± 0.0531	0.3100 ± 0.0344	0.0231 ± 0.0032
Fe	3.033 ± 0.1559	1.694 ± 0.1286	0.1262 ± 0.0142
* Co	0.0237 ± 0.0237	0.0133 ± 0.0133	0.0010 ± 0.0010
* Ni	0.0090 ± 0.0136	0.0051 ± 0.0076	0.0004 ± 0.0006
Cu	0.0780 ± 0.0136	0.0436 ± 0.0080	0.0032 ± 0.0007
Zn	0.1661 ± 0.0147	0.0928 ± 0.0097	0.0069 ± 0.0009
* Ga	0.0000 ± 0.0090	0.0000 ± 0.0051	0.0000 ± 0.0004
* Ge	0.0034 ± 0.0079	0.0019 ± 0.0044	0.0001 ± 0.0003
* As	0.0011 ± 0.0113	0.0006 ± 0.0063	0.0000 ± 0.0005
* Se	0.0113 ± 0.0056	0.0063 ± 0.0032	0.0005 ± 0.0002
Br	0.0339 ± 0.0056	0.0189 ± 0.0033	0.0014 ± 0.0003
* Rb	0.0011 ± 0.0056	0.0006 ± 0.0032	0.0000 ± 0.0002
Sr	0.0757 ± 0.0079	0.0423 ± 0.0050	0.0031 ± 0.0005
* Y	0.0000 ± 0.0079	0.0000 ± 0.0044	0.0000 ± 0.0003
Zr	0.0373 ± 0.0102	0.0208 ± 0.0058	0.0016 ± 0.0005
* Mo	0.0000 ± 0.0147	0.0000 ± 0.0082	0.0000 ± 0.0006
* Pd	0.0000 ± 0.0463	0.0000 ± 0.0259	0.0000 ± 0.0019
* Ag	0.0000 ± 0.0475	0.0000 ± 0.0265	0.0000 ± 0.0020
* Cd	0.0000 ± 0.0520	0.0000 ± 0.0290	0.0000 ± 0.0022
* In	0.0000 ± 0.0565	0.0000 ± 0.0316	0.0000 ± 0.0024
* Sn	0.0000 ± 0.0655	0.0000 ± 0.0366	0.0000 ± 0.0027
* Sb	0.0825 ± 0.1322	0.0461 ± 0.0739	0.0034 ± 0.0055
Ba	0.1300 ± 0.0350	0.0726 ± 0.0200	0.0054 ± 0.0016
* La	0.0000 ± 0.0350	0.0000 ± 0.0196	0.0000 ± 0.0015
* Hg	0.0000 ± 0.0136	0.0000 ± 0.0076	0.0000 ± 0.0006
* Pb	0.0124 ± 0.0181	0.0069 ± 0.0101	0.0005 ± 0.0008

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6890  
Client ID: BMI01-010609  
Filter ID: P8013297  
Site: BMI01  
Sample Date: 1/ 6/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	184. ± 10.		7.654 ± 0.8711
XRF			
* Na	0.1096 ± 0.3119	0.0596 ± 0.1695	0.0046 ± 0.0130
Mg	1.926 ± 0.3435	1.046 ± 0.1952	0.0801 ± 0.0164
Al	1.663 ± 0.1706	0.9040 ± 0.1049	0.0692 ± 0.0099
Si	6.773 ± 0.3718	3.681 ± 0.2843	0.2817 ± 0.0321
* P	0.0000 ± 0.0271	0.0000 ± 0.0147	0.0000 ± 0.0011
S	2.773 ± 0.1684	1.507 ± 0.1228	0.1154 ± 0.0135
Cl	2.168 ± 0.1288	1.179 ± 0.0949	0.0902 ± 0.0105
K	1.382 ± 0.0791	0.7511 ± 0.0593	0.0575 ± 0.0066
Ca	9.386 ± 0.4746	5.101 ± 0.3787	0.3904 ± 0.0437
Ti	0.4848 ± 0.0294	0.2635 ± 0.0214	0.0202 ± 0.0024
* V	0.0000 ± 0.0102	0.0000 ± 0.0055	0.0000 ± 0.0004
Cr	0.0407 ± 0.0102	0.0221 ± 0.0057	0.0017 ± 0.0005
Mn	1.800 ± 0.0927	0.9783 ± 0.0732	0.0749 ± 0.0084
Fe	2.992 ± 0.1548	1.626 ± 0.1220	0.1245 ± 0.0140
* Co	0.0023 ± 0.0271	0.0012 ± 0.0147	0.0001 ± 0.0011
* Ni	0.0396 ± 0.0181	0.0215 ± 0.0099	0.0016 ± 0.0008
Cu	0.1548 ± 0.0181	0.0841 ± 0.0108	0.0064 ± 0.0010
Zn	0.1763 ± 0.0170	0.0958 ± 0.0106	0.0073 ± 0.0010
* Ga	0.0068 ± 0.0113	0.0037 ± 0.0061	0.0003 ± 0.0005
* Ge	0.0000 ± 0.0090	0.0000 ± 0.0049	0.0000 ± 0.0004
* As	0.0000 ± 0.0136	0.0000 ± 0.0074	0.0000 ± 0.0006
* Se	0.0000 ± 0.0079	0.0000 ± 0.0043	0.0000 ± 0.0003
Br	0.0282 ± 0.0068	0.0154 ± 0.0038	0.0012 ± 0.0003
* Rb	0.0045 ± 0.0079	0.0025 ± 0.0043	0.0002 ± 0.0003
Sr	0.0429 ± 0.0090	0.0233 ± 0.0051	0.0018 ± 0.0004
* Y	0.0000 ± 0.0102	0.0000 ± 0.0055	0.0000 ± 0.0004
* Zr	0.0282 ± 0.0136	0.0154 ± 0.0074	0.0012 ± 0.0006
* Mo	0.0000 ± 0.0192	0.0000 ± 0.0104	0.0000 ± 0.0008
* Pd	0.0000 ± 0.0497	0.0000 ± 0.0270	0.0000 ± 0.0021
* Ag	0.0000 ± 0.0520	0.0000 ± 0.0282	0.0000 ± 0.0022
* Cd	0.0859 ± 0.0576	0.0467 ± 0.0314	0.0036 ± 0.0024
* In	0.0023 ± 0.0633	0.0012 ± 0.0344	0.0001 ± 0.0026
* Sn	0.0237 ± 0.0734	0.0129 ± 0.0399	0.0010 ± 0.0031
* Sb	0.0960 ± 0.1503	0.0522 ± 0.0817	0.0040 ± 0.0063
* Ba	0.0305 ± 0.0407	0.0166 ± 0.0221	0.0013 ± 0.0017
* La	0.0000 ± 0.0418	0.0000 ± 0.0227	0.0000 ± 0.0017
* Hg	0.0000 ± 0.0170	0.0000 ± 0.0092	0.0000 ± 0.0007
* Pb	0.0362 ± 0.0226	0.0197 ± 0.0123	0.0015 ± 0.0010

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6891  
Client ID: CAMU03-010609  
Filter ID: P8013298  
Site: CAMU03  
Sample Date: 1/ 6/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	10. ± 10.		0.4160 ± 0.4180
XRF			
* Na	0.2701 ± 0.2542	2.701 ± 3.709	0.0112 ± 0.0106
* Mg	0.0124 ± 0.1243	0.1243 ± 1.249	0.0005 ± 0.0052
* Al	0.0452 ± 0.0576	0.4520 ± 0.7324	0.0019 ± 0.0024
* Si	0.0554 ± 0.0418	0.5537 ± 0.6938	0.0023 ± 0.0018
* P	0.0000 ± 0.0215	0.0000 ± 0.2147	0.0000 ± 0.0009
* S	0.0000 ± 0.0237	0.0000 ± 0.2373	0.0000 ± 0.0010
* Cl	0.0113 ± 0.0407	0.1130 ± 0.4222	0.0005 ± 0.0017
* K	0.0000 ± 0.0237	0.0000 ± 0.2373	0.0000 ± 0.0010
* Ca	0.4012 ± 0.0396	4.012 ± 4.031	0.0167 ± 0.0023
* Ti	0.0090 ± 0.0079	0.0904 ± 0.1201	0.0004 ± 0.0003
* V	0.0000 ± 0.0068	0.0000 ± 0.0678	0.0000 ± 0.0003
* Cr	0.0000 ± 0.0090	0.0000 ± 0.0904	0.0000 ± 0.0004
* Mn	0.0068 ± 0.0113	0.0678 ± 0.1318	0.0003 ± 0.0005
* Fe	0.0000 ± 0.0181	0.0000 ± 0.1808	0.0000 ± 0.0008
* Co	0.0000 ± 0.0215	0.0000 ± 0.2147	0.0000 ± 0.0009
* Ni	0.0147 ± 0.0181	0.1469 ± 0.2330	0.0006 ± 0.0008
* Cu	0.0350 ± 0.0147	0.3503 ± 0.3799	0.0015 ± 0.0006
* Zn	0.0316 ± 0.0124	0.3164 ± 0.3399	0.0013 ± 0.0005
* Ga	0.0000 ± 0.0102	0.0000 ± 0.1017	0.0000 ± 0.0004
* Ge	0.0226 ± 0.0102	0.2260 ± 0.2478	0.0009 ± 0.0004
* As	0.0000 ± 0.0079	0.0000 ± 0.0791	0.0000 ± 0.0003
* Se	0.0056 ± 0.0079	0.0565 ± 0.0972	0.0002 ± 0.0003
* Br	0.0079 ± 0.0068	0.0791 ± 0.1042	0.0003 ± 0.0003
* Rb	0.0000 ± 0.0079	0.0000 ± 0.0791	0.0000 ± 0.0003
* Sr	0.0000 ± 0.0090	0.0000 ± 0.0904	0.0000 ± 0.0004
* Y	0.0000 ± 0.0113	0.0000 ± 0.1130	0.0000 ± 0.0005
* Zr	0.0000 ± 0.0136	0.0000 ± 0.1356	0.0000 ± 0.0006
* Mo	0.0000 ± 0.0192	0.0000 ± 0.1921	0.0000 ± 0.0008
* Pd	0.0000 ± 0.0497	0.0000 ± 0.4972	0.0000 ± 0.0021
* Ag	0.0282 ± 0.0531	0.2825 ± 0.6016	0.0012 ± 0.0022
* Cd	0.0000 ± 0.0565	0.0000 ± 0.5650	0.0000 ± 0.0024
* In	0.0000 ± 0.0633	0.0000 ± 0.6328	0.0000 ± 0.0026
* Sn	0.0542 ± 0.0734	0.5424 ± 0.9131	0.0023 ± 0.0031
* Sb	0.4294 ± 0.1593	4.294 ± 4.580	0.0179 ± 0.0069
* Ba	0.0192 ± 0.0294	0.1921 ± 0.3510	0.0008 ± 0.0012
* La	0.0045 ± 0.0181	0.0452 ± 0.1864	0.0002 ± 0.0008
* Hg	0.0407 ± 0.0181	0.4068 ± 0.4452	0.0017 ± 0.0008
* Pb	0.0000 ± 0.0226	0.0000 ± 0.2260	0.0000 ± 0.0009

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6892  
Client ID: CAMU06-010609  
Filter ID: P8013299  
Site: CAMU06  
Sample Date: 1/ 6/09  
Filter Lot #: 8070002  
Volume: 20.51 +/- 2.051 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	911. ± 10.		44.42 ± 4.468
XRF			
* Na	0.2430 ± 0.6961	0.0267 ± 0.0764	0.0118 ± 0.0340
Mg	5.718 ± 0.8588	0.6276 ± 0.0945	0.2788 ± 0.0503
Al	13.61 ± 0.9560	1.493 ± 0.1062	0.6633 ± 0.0811
Si	47.48 ± 2.607	5.212 ± 0.2918	2.315 ± 0.2641
* P	0.0000 ± 0.0542	0.0000 ± 0.0060	0.0000 ± 0.0026
S	6.204 ± 0.3582	0.6810 ± 0.0400	0.3025 ± 0.0349
Cl	5.398 ± 0.3017	0.5925 ± 0.0338	0.2632 ± 0.0302
K	8.656 ± 0.7560	0.9501 ± 0.0836	0.4220 ± 0.0560
Ca	50.59 ± 2.557	5.553 ± 0.2872	2.467 ± 0.2764
Ti	2.185 ± 0.1141	0.2399 ± 0.0128	0.1066 ± 0.0120
V	0.1424 ± 0.0282	0.0156 ± 0.0031	0.0069 ± 0.0015
Cr	0.0463 ± 0.0136	0.0051 ± 0.0015	0.0023 ± 0.0007
Mn	1.914 ± 0.1469	0.2101 ± 0.0163	0.0933 ± 0.0118
Fe	13.31 ± 0.6701	1.461 ± 0.0753	0.6490 ± 0.0727
* Co	0.0045 ± 0.0622	0.0005 ± 0.0068	0.0002 ± 0.0030
* Ni	0.0034 ± 0.0170	0.0004 ± 0.0019	0.0002 ± 0.0008
Cu	0.2034 ± 0.0203	0.0223 ± 0.0022	0.0099 ± 0.0014
Zn	0.5085 ± 0.0531	0.0558 ± 0.0059	0.0248 ± 0.0036
* Ga	0.0000 ± 0.0113	0.0000 ± 0.0012	0.0000 ± 0.0006
* Ge	0.0011 ± 0.0090	0.0001 ± 0.0010	0.0001 ± 0.0004
* As	0.0000 ± 0.0136	0.0000 ± 0.0015	0.0000 ± 0.0007
* Se	0.0056 ± 0.0079	0.0006 ± 0.0009	0.0003 ± 0.0004
Br	0.0994 ± 0.0090	0.0109 ± 0.0010	0.0048 ± 0.0007
* Rb	0.0045 ± 0.0079	0.0005 ± 0.0009	0.0002 ± 0.0004
Sr	0.3718 ± 0.0215	0.0408 ± 0.0024	0.0181 ± 0.0021
* Y	0.0000 ± 0.0102	0.0000 ± 0.0011	0.0000 ± 0.0005
Zr	0.2034 ± 0.0170	0.0223 ± 0.0019	0.0099 ± 0.0013
* Mo	0.0000 ± 0.0192	0.0000 ± 0.0021	0.0000 ± 0.0009
* Pd	0.0000 ± 0.0520	0.0000 ± 0.0057	0.0000 ± 0.0025
* Ag	0.0949 ± 0.0554	0.0104 ± 0.0061	0.0046 ± 0.0027
* Cd	0.0000 ± 0.0588	0.0000 ± 0.0065	0.0000 ± 0.0029
* In	0.0000 ± 0.0655	0.0000 ± 0.0072	0.0000 ± 0.0032
* Sn	0.1130 ± 0.0768	0.0124 ± 0.0084	0.0055 ± 0.0038
* Sb	0.3085 ± 0.1582	0.0339 ± 0.0174	0.0150 ± 0.0079
Ba	0.6181 ± 0.0938	0.0678 ± 0.0103	0.0301 ± 0.0055
* La	0.0000 ± 0.1006	0.0000 ± 0.0110	0.0000 ± 0.0049
* Hg	0.0000 ± 0.0170	0.0000 ± 0.0019	0.0000 ± 0.0008
* Pb	0.0260 ± 0.0226	0.0029 ± 0.0025	0.0013 ± 0.0011

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
 Report Number: 09-010

Lab ID: 08-T6893  
 Client ID: BMI06-010609  
 Filter ID: P8013300  
 Site: BMI06  
 Sample Date: 1/ 6/09  
 Filter Lot #: 8070002  
 Volume: 24.04 +/- 2.404 m<sup>3</sup>  
 Deposit Area: 11.3 cm<sup>2</sup>  
 Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	199. ± 10.		8.278 ± 0.9264
XRF			
* Na	0.0000 ± 0.3141	0.0000 ± 0.1579	0.0000 ± 0.0131
Mg	1.636 ± 0.3209	0.8222 ± 0.1665	0.0681 ± 0.0150
Al	1.472 ± 0.1582	0.7399 ± 0.0878	0.0612 ± 0.0090
Si	6.079 ± 0.3356	3.055 ± 0.2281	0.2529 ± 0.0289
* P	0.0407 ± 0.0282	0.0204 ± 0.0142	0.0017 ± 0.0012
S	2.180 ± 0.1842	1.095 ± 0.1077	0.0907 ± 0.0119
Cl	1.259 ± 0.0870	0.6326 ± 0.0541	0.0524 ± 0.0064
K	1.231 ± 0.0723	0.6184 ± 0.0478	0.0512 ± 0.0059
Ca	8.600 ± 0.4362	4.322 ± 0.3086	0.3578 ± 0.0401
Ti	0.3051 ± 0.0203	0.1533 ± 0.0128	0.0127 ± 0.0015
* V	0.0056 ± 0.0090	0.0028 ± 0.0045	0.0002 ± 0.0004
* Cr	0.0249 ± 0.0090	0.0125 ± 0.0046	0.0010 ± 0.0004
Mn	0.5548 ± 0.0565	0.2788 ± 0.0317	0.0231 ± 0.0033
Fe	2.484 ± 0.1288	1.248 ± 0.0901	0.1033 ± 0.0116
* Co	0.0282 ± 0.0260	0.0142 ± 0.0131	0.0012 ± 0.0011
* Ni	0.0192 ± 0.0170	0.0097 ± 0.0085	0.0008 ± 0.0007
Cu	0.3367 ± 0.0249	0.1692 ± 0.0151	0.0140 ± 0.0017
Zn	0.1356 ± 0.0147	0.0681 ± 0.0081	0.0056 ± 0.0008
* Ga	0.0000 ± 0.0102	0.0000 ± 0.0051	0.0000 ± 0.0004
* Ge	0.0136 ± 0.0090	0.0068 ± 0.0046	0.0006 ± 0.0004
* As	0.0136 ± 0.0136	0.0068 ± 0.0068	0.0006 ± 0.0006
* Se	0.0124 ± 0.0079	0.0062 ± 0.0040	0.0005 ± 0.0003
Br	0.0407 ± 0.0068	0.0204 ± 0.0036	0.0017 ± 0.0003
* Rb	0.0034 ± 0.0068	0.0017 ± 0.0034	0.0001 ± 0.0003
Sr	0.0429 ± 0.0090	0.0216 ± 0.0047	0.0018 ± 0.0004
* Y	0.0000 ± 0.0102	0.0000 ± 0.0051	0.0000 ± 0.0004
Zr	0.0373 ± 0.0124	0.0187 ± 0.0063	0.0016 ± 0.0005
* Mo	0.0000 ± 0.0181	0.0000 ± 0.0091	0.0000 ± 0.0008
* Pd	0.0023 ± 0.0508	0.0011 ± 0.0256	0.0001 ± 0.0021
* Ag	0.0000 ± 0.0508	0.0000 ± 0.0256	0.0000 ± 0.0021
* Cd	0.0000 ± 0.0565	0.0000 ± 0.0284	0.0000 ± 0.0024
* In	0.0181 ± 0.0633	0.0091 ± 0.0318	0.0008 ± 0.0026
* Sn	0.0972 ± 0.0734	0.0488 ± 0.0370	0.0040 ± 0.0031
* Sb	0.0904 ± 0.1480	0.0454 ± 0.0744	0.0038 ± 0.0062
* Ba	0.1017 ± 0.0373	0.0511 ± 0.0189	0.0042 ± 0.0016
* La	0.0000 ± 0.0339	0.0000 ± 0.0170	0.0000 ± 0.0014
* Hg	0.0215 ± 0.0170	0.0108 ± 0.0085	0.0009 ± 0.0007
* Pb	0.0000 ± 0.0215	0.0000 ± 0.0108	0.0000 ± 0.0009

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6894  
Client ID: BMI11-010609  
Filter ID: P8013301  
Site: BMI11  
Sample Date: 1/ 6/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	$\mu\text{g}/\text{filter}$	percent	$\mu\text{g}/\text{m}^3$
Gravimetry			
Net Mass	189. $\pm$ 10.		7.862 $\pm$ 0.8895
XRF			
* Na	0.0000 $\pm$ 0.3028	0.0000 $\pm$ 0.1602	0.0000 $\pm$ 0.0126
Mg	1.283 $\pm$ 0.3096	0.6786 $\pm$ 0.1677	0.0534 $\pm$ 0.0139
Al	2.086 $\pm$ 0.1864	1.104 $\pm$ 0.1146	0.0868 $\pm$ 0.0116
Si	7.372 $\pm$ 0.4023	3.901 $\pm$ 0.2965	0.3067 $\pm$ 0.0349
* P	0.0000 $\pm$ 0.0271	0.0000 $\pm$ 0.0143	0.0000 $\pm$ 0.0011
S	1.875 $\pm$ 0.1650	0.9919 $\pm$ 0.1019	0.0780 $\pm$ 0.0104
Cl	1.142 $\pm$ 0.0814	0.6045 $\pm$ 0.0536	0.0475 $\pm$ 0.0058
K	1.584 $\pm$ 0.0893	0.8382 $\pm$ 0.0648	0.0659 $\pm$ 0.0076
Ca	9.624 $\pm$ 0.4870	5.092 $\pm$ 0.3728	0.4003 $\pm$ 0.0449
Ti	0.3718 $\pm$ 0.0237	0.1967 $\pm$ 0.0163	0.0155 $\pm$ 0.0018
* V	0.0000 $\pm$ 0.0090	0.0000 $\pm$ 0.0048	0.0000 $\pm$ 0.0004
Cr	0.0271 $\pm$ 0.0090	0.0143 $\pm$ 0.0048	0.0011 $\pm$ 0.0004
Mn	0.6238 $\pm$ 0.0610	0.3300 $\pm$ 0.0367	0.0259 $\pm$ 0.0036
Fe	2.608 $\pm$ 0.1345	1.380 $\pm$ 0.1019	0.1085 $\pm$ 0.0122
* Co	0.0000 $\pm$ 0.0260	0.0000 $\pm$ 0.0138	0.0000 $\pm$ 0.0011
* Ni	0.0000 $\pm$ 0.0170	0.0000 $\pm$ 0.0090	0.0000 $\pm$ 0.0007
Cu	0.1785 $\pm$ 0.0192	0.0945 $\pm$ 0.0113	0.0074 $\pm$ 0.0011
Zn	0.1503 $\pm$ 0.0158	0.0795 $\pm$ 0.0094	0.0063 $\pm$ 0.0009
* Ga	0.0158 $\pm$ 0.0102	0.0084 $\pm$ 0.0054	0.0007 $\pm$ 0.0004
* Ge	0.0090 $\pm$ 0.0090	0.0048 $\pm$ 0.0048	0.0004 $\pm$ 0.0004
* As	0.0079 $\pm$ 0.0136	0.0042 $\pm$ 0.0072	0.0003 $\pm$ 0.0006
* Se	0.0000 $\pm$ 0.0068	0.0000 $\pm$ 0.0036	0.0000 $\pm$ 0.0003
* Br	0.0170 $\pm$ 0.0068	0.0090 $\pm$ 0.0036	0.0007 $\pm$ 0.0003
* Rb	0.0000 $\pm$ 0.0068	0.0000 $\pm$ 0.0036	0.0000 $\pm$ 0.0003
Sr	0.0678 $\pm$ 0.0090	0.0359 $\pm$ 0.0051	0.0028 $\pm$ 0.0005
* Y	0.0000 $\pm$ 0.0102	0.0000 $\pm$ 0.0054	0.0000 $\pm$ 0.0004
* Zr	0.0090 $\pm$ 0.0124	0.0048 $\pm$ 0.0066	0.0004 $\pm$ 0.0005
* Mo	0.0203 $\pm$ 0.0181	0.0108 $\pm$ 0.0096	0.0008 $\pm$ 0.0008
* Pd	0.0000 $\pm$ 0.0497	0.0000 $\pm$ 0.0263	0.0000 $\pm$ 0.0021
* Ag	0.0023 $\pm$ 0.0520	0.0012 $\pm$ 0.0275	0.0001 $\pm$ 0.0022
* Cd	0.0000 $\pm$ 0.0565	0.0000 $\pm$ 0.0299	0.0000 $\pm$ 0.0024
* In	0.0000 $\pm$ 0.0622	0.0000 $\pm$ 0.0329	0.0000 $\pm$ 0.0026
* Sn	0.0960 $\pm$ 0.0734	0.0508 $\pm$ 0.0390	0.0040 $\pm$ 0.0031
* Sb	0.3051 $\pm$ 0.1492	0.1614 $\pm$ 0.0794	0.0127 $\pm$ 0.0063
* Ba	0.0023 $\pm$ 0.0384	0.0012 $\pm$ 0.0203	0.0001 $\pm$ 0.0016
* La	0.0000 $\pm$ 0.0373	0.0000 $\pm$ 0.0197	0.0000 $\pm$ 0.0016
* Hg	0.0000 $\pm$ 0.0170	0.0000 $\pm$ 0.0090	0.0000 $\pm$ 0.0007
* Pb	0.0000 $\pm$ 0.0215	0.0000 $\pm$ 0.0114	0.0000 $\pm$ 0.0009

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6895  
Client ID: BMI01-010909  
Filter ID: P8013302  
Site: BMI01  
Sample Date: 1/ 9/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	219. ± 10.		9.110 ± 1.001
XRF			
* Na	0.3605 ± 0.3254	0.1646 ± 0.1488	0.0150 ± 0.0136
Mg	2.805 ± 0.3944	1.281 ± 0.1893	0.1167 ± 0.0201
Al	2.355 ± 0.2090	1.075 ± 0.1073	0.0980 ± 0.0131
Si	8.265 ± 0.4497	3.774 ± 0.2681	0.3438 ± 0.0391
* P	0.0000 ± 0.0282	0.0000 ± 0.0129	0.0000 ± 0.0012
S	2.659 ± 0.2170	1.214 ± 0.1135	0.1106 ± 0.0143
Cl	1.800 ± 0.1119	0.8220 ± 0.0634	0.0749 ± 0.0088
K	1.565 ± 0.0881	0.7146 ± 0.0518	0.0651 ± 0.0075
Ca	14.43 ± 0.7277	6.589 ± 0.4483	0.6003 ± 0.0672
Ti	0.6610 ± 0.0373	0.3018 ± 0.0219	0.0275 ± 0.0032
* V	0.0045 ± 0.0113	0.0021 ± 0.0052	0.0002 ± 0.0005
* Cr	0.0170 ± 0.0090	0.0077 ± 0.0041	0.0007 ± 0.0004
Mn	1.818 ± 0.0927	0.8302 ± 0.0568	0.0756 ± 0.0085
Fe	4.121 ± 0.2102	1.882 ± 0.1288	0.1714 ± 0.0192
* Co	0.0000 ± 0.0305	0.0000 ± 0.0139	0.0000 ± 0.0013
* Ni	0.0000 ± 0.0170	0.0000 ± 0.0077	0.0000 ± 0.0007
Cu	0.2226 ± 0.0203	0.1016 ± 0.0104	0.0093 ± 0.0013
Zn	0.2158 ± 0.0181	0.0986 ± 0.0094	0.0090 ± 0.0012
* Ga	0.0000 ± 0.0102	0.0000 ± 0.0046	0.0000 ± 0.0004
* Ge	0.0045 ± 0.0090	0.0021 ± 0.0041	0.0002 ± 0.0004
* As	0.0136 ± 0.0136	0.0062 ± 0.0062	0.0006 ± 0.0006
* Se	0.0170 ± 0.0079	0.0077 ± 0.0036	0.0007 ± 0.0003
Br	0.0350 ± 0.0068	0.0160 ± 0.0032	0.0015 ± 0.0003
* Rb	0.0000 ± 0.0068	0.0000 ± 0.0031	0.0000 ± 0.0003
Sr	0.0746 ± 0.0090	0.0341 ± 0.0044	0.0031 ± 0.0005
* Y	0.0000 ± 0.0102	0.0000 ± 0.0046	0.0000 ± 0.0004
* Zr	0.0158 ± 0.0124	0.0072 ± 0.0057	0.0007 ± 0.0005
* Mo	0.0000 ± 0.0181	0.0000 ± 0.0083	0.0000 ± 0.0008
* Pd	0.0000 ± 0.0508	0.0000 ± 0.0232	0.0000 ± 0.0021
* Ag	0.0011 ± 0.0531	0.0005 ± 0.0243	0.0000 ± 0.0022
* Cd	0.0644 ± 0.0576	0.0294 ± 0.0263	0.0027 ± 0.0024
* In	0.0000 ± 0.0622	0.0000 ± 0.0284	0.0000 ± 0.0026
* Sn	0.0034 ± 0.0734	0.0015 ± 0.0335	0.0001 ± 0.0031
* Sb	0.1469 ± 0.1503	0.0671 ± 0.0687	0.0061 ± 0.0063
Ba	0.1390 ± 0.0441	0.0635 ± 0.0203	0.0058 ± 0.0019
* La	0.0000 ± 0.0452	0.0000 ± 0.0206	0.0000 ± 0.0019
* Hg	0.0203 ± 0.0170	0.0093 ± 0.0078	0.0008 ± 0.0007
* Pb	0.0000 ± 0.0215	0.0000 ± 0.0098	0.0000 ± 0.0009

\* - Concentration is less than three times the uncertainty



Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6896  
Client ID: BMI03-010909  
Filter ID: P8013303  
Site: BMI03  
Sample Date: 1/ 9/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	616. ± 10.		25.62 ± 2.596
XRF			
* Na	2.467 ± 1.294	0.4005 ± 0.2101	0.1026 ± 0.0548
Mg	6.423 ± 0.7876	1.043 ± 0.1290	0.2672 ± 0.0423
Al	6.504 ± 0.5017	1.056 ± 0.0832	0.2706 ± 0.0342
Si	25.39 ± 1.379	4.122 ± 0.2336	1.056 ± 0.1202
* P	0.0000 ± 0.0508	0.0000 ± 0.0083	0.0000 ± 0.0021
S	6.672 ± 0.3786	1.083 ± 0.0639	0.2775 ± 0.0319
Cl	2.697 ± 0.1706	0.4379 ± 0.0286	0.1122 ± 0.0133
K	4.770 ± 0.2520	0.7743 ± 0.0428	0.1984 ± 0.0224
Ca	43.69 ± 2.204	7.092 ± 0.3758	1.817 ± 0.2035
Ti	1.305 ± 0.0712	0.2119 ± 0.0121	0.0543 ± 0.0062
V	0.0655 ± 0.0192	0.0106 ± 0.0031	0.0027 ± 0.0008
Cr	0.0734 ± 0.0136	0.0119 ± 0.0022	0.0031 ± 0.0006
Mn	1.544 ± 0.1209	0.2506 ± 0.0200	0.0642 ± 0.0082
Fe	10.41 ± 0.5243	1.690 ± 0.0894	0.4329 ± 0.0485
* Co	0.0000 ± 0.0531	0.0000 ± 0.0086	0.0000 ± 0.0022
* Ni	0.0305 ± 0.0170	0.0050 ± 0.0028	0.0013 ± 0.0007
Cu	0.3582 ± 0.0260	0.0582 ± 0.0043	0.0149 ± 0.0018
Zn	0.4136 ± 0.0497	0.0671 ± 0.0081	0.0172 ± 0.0027
* Ga	0.0000 ± 0.0102	0.0000 ± 0.0017	0.0000 ± 0.0004
* Ge	0.0056 ± 0.0090	0.0009 ± 0.0015	0.0002 ± 0.0004
* As	0.0000 ± 0.0136	0.0000 ± 0.0022	0.0000 ± 0.0006
* Se	0.0192 ± 0.0079	0.0031 ± 0.0013	0.0008 ± 0.0003
Br	0.0633 ± 0.0079	0.0103 ± 0.0013	0.0026 ± 0.0004
* Rb	0.0000 ± 0.0068	0.0000 ± 0.0011	0.0000 ± 0.0003
Sr	0.2486 ± 0.0158	0.0404 ± 0.0027	0.0103 ± 0.0012
* Y	0.0136 ± 0.0102	0.0022 ± 0.0017	0.0006 ± 0.0004
Zr	0.1480 ± 0.0147	0.0240 ± 0.0024	0.0062 ± 0.0009
* Mo	0.0000 ± 0.0181	0.0000 ± 0.0029	0.0000 ± 0.0008
* Pd	0.0113 ± 0.0520	0.0018 ± 0.0084	0.0005 ± 0.0022
* Ag	0.0000 ± 0.0531	0.0000 ± 0.0086	0.0000 ± 0.0022
* Cd	0.0000 ± 0.0576	0.0000 ± 0.0094	0.0000 ± 0.0024
* In	0.0362 ± 0.0644	0.0059 ± 0.0105	0.0015 ± 0.0027
* Sn	0.0497 ± 0.0746	0.0081 ± 0.0121	0.0021 ± 0.0031
* Sb	0.3130 ± 0.1548	0.0508 ± 0.0251	0.0130 ± 0.0066
Ba	0.5469 ± 0.0701	0.0888 ± 0.0115	0.0228 ± 0.0037
* La	0.0000 ± 0.0723	0.0000 ± 0.0117	0.0000 ± 0.0030
* Hg	0.0000 ± 0.0170	0.0000 ± 0.0028	0.0000 ± 0.0007
Pb	0.0983 ± 0.0237	0.0160 ± 0.0039	0.0041 ± 0.0011

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6897  
Client ID: BMI11-010909  
Filter ID: P8013304  
Site: BMI11  
Sample Date: 1/ 9/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	363. ± 10.		15.10 ± 1.566
XRF			
* Na	0.4441 ± 0.3910	0.1223 ± 0.1078	0.0185 ± 0.0164
Mg	3.172 ± 0.4622	0.8738 ± 0.1296	0.1319 ± 0.0233
Al	3.717 ± 0.2949	1.024 ± 0.0860	0.1546 ± 0.0197
Si	14.23 ± 0.7639	3.919 ± 0.2365	0.5918 ± 0.0672
* P	0.0000 ± 0.0350	0.0000 ± 0.0097	0.0000 ± 0.0015
S	4.551 ± 0.2565	1.254 ± 0.0787	0.1893 ± 0.0217
Cl	2.119 ± 0.1288	0.5837 ± 0.0390	0.0881 ± 0.0103
K	2.572 ± 0.3175	0.7085 ± 0.0896	0.1070 ± 0.0170
Ca	24.54 ± 1.236	6.761 ± 0.3882	1.021 ± 0.1143
Ti	0.7435 ± 0.0418	0.2048 ± 0.0128	0.0309 ± 0.0035
* V	0.0000 ± 0.0124	0.0000 ± 0.0034	0.0000 ± 0.0005
Cr	0.0305 ± 0.0102	0.0084 ± 0.0028	0.0013 ± 0.0004
Mn	1.475 ± 0.1164	0.4062 ± 0.0340	0.0613 ± 0.0078
Fe	6.317 ± 0.3198	1.740 ± 0.1003	0.2628 ± 0.0295
* Co	0.0000 ± 0.0384	0.0000 ± 0.0106	0.0000 ± 0.0016
* Ni	0.0102 ± 0.0181	0.0028 ± 0.0050	0.0004 ± 0.0008
Cu	0.5944 ± 0.0373	0.1637 ± 0.0112	0.0247 ± 0.0029
Zn	0.3028 ± 0.0226	0.0834 ± 0.0066	0.0126 ± 0.0016
* Ga	0.0000 ± 0.0113	0.0000 ± 0.0031	0.0000 ± 0.0005
* Ge	0.0124 ± 0.0102	0.0034 ± 0.0028	0.0005 ± 0.0004
As	0.0328 ± 0.0090	0.0090 ± 0.0025	0.0014 ± 0.0004
* Se	0.0181 ± 0.0079	0.0050 ± 0.0022	0.0008 ± 0.0003
Br	0.0486 ± 0.0079	0.0134 ± 0.0022	0.0020 ± 0.0004
* Rb	0.0068 ± 0.0079	0.0019 ± 0.0022	0.0003 ± 0.0003
Sr	0.1130 ± 0.0113	0.0311 ± 0.0032	0.0047 ± 0.0007
* Y	0.0000 ± 0.0113	0.0000 ± 0.0031	0.0000 ± 0.0005
Zr	0.0972 ± 0.0147	0.0268 ± 0.0041	0.0040 ± 0.0007
* Mo	0.0000 ± 0.0192	0.0000 ± 0.0053	0.0000 ± 0.0008
* Pd	0.0000 ± 0.0520	0.0000 ± 0.0143	0.0000 ± 0.0022
* Ag	0.0000 ± 0.0531	0.0000 ± 0.0146	0.0000 ± 0.0022
* Cd	0.0000 ± 0.0576	0.0000 ± 0.0159	0.0000 ± 0.0024
* In	0.0000 ± 0.0644	0.0000 ± 0.0177	0.0000 ± 0.0027
* Sn	0.0000 ± 0.0757	0.0000 ± 0.0209	0.0000 ± 0.0031
* Sb	0.3695 ± 0.1616	0.1018 ± 0.0446	0.0154 ± 0.0069
* Ba	0.1356 ± 0.0497	0.0374 ± 0.0137	0.0056 ± 0.0021
* La	0.0000 ± 0.0497	0.0000 ± 0.0137	0.0000 ± 0.0021
* Hg	0.0192 ± 0.0181	0.0053 ± 0.0050	0.0008 ± 0.0008
* Pb	0.0000 ± 0.0226	0.0000 ± 0.0062	0.0000 ± 0.0009

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6898  
Client ID: BMI06-010909  
Filter ID: P8013305  
Site: BMI06  
Sample Date: 1/ 9/09  
Filter Lot #: 8070002  
Volume: 21.57 +/- 2.157 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	362. ± 10.		16.78 ± 1.741
XRF			
* Na	0.0000 ± 0.3729	0.0000 ± 0.1030	0.0000 ± 0.0173
Mg	2.874 ± 0.4464	0.7938 ± 0.1252	0.1332 ± 0.0246
Al	5.231 ± 0.3763	1.445 ± 0.1113	0.2425 ± 0.0299
Si	17.76 ± 0.9481	4.907 ± 0.2949	0.8235 ± 0.0933
* P	0.0000 ± 0.0350	0.0000 ± 0.0097	0.0000 ± 0.0016
S	2.938 ± 0.1808	0.8116 ± 0.0547	0.1362 ± 0.0160
Cl	1.124 ± 0.0848	0.3106 ± 0.0249	0.0521 ± 0.0065
K	3.135 ± 0.1661	0.8659 ± 0.0517	0.1453 ± 0.0164
Ca	22.16 ± 1.116	6.121 ± 0.3517	1.027 ± 0.1150
Ti	2.171 ± 0.1119	0.5996 ± 0.0351	0.1006 ± 0.0113
V	0.2316 ± 0.0282	0.0640 ± 0.0080	0.0107 ± 0.0017
Cr	0.0734 ± 0.0113	0.0203 ± 0.0032	0.0034 ± 0.0006
Mn	0.8554 ± 0.0757	0.2363 ± 0.0219	0.0397 ± 0.0053
Fe	6.005 ± 0.3040	1.659 ± 0.0957	0.2784 ± 0.0312
* Co	0.0305 ± 0.0362	0.0084 ± 0.0100	0.0014 ± 0.0017
* Ni	0.0316 ± 0.0170	0.0087 ± 0.0047	0.0015 ± 0.0008
Cu	0.2011 ± 0.0192	0.0556 ± 0.0055	0.0093 ± 0.0013
Zn	0.1910 ± 0.0170	0.0528 ± 0.0049	0.0089 ± 0.0012
* Ga	0.0000 ± 0.0113	0.0000 ± 0.0031	0.0000 ± 0.0005
* Ge	0.0000 ± 0.0090	0.0000 ± 0.0025	0.0000 ± 0.0004
* As	0.0384 ± 0.0158	0.0106 ± 0.0044	0.0018 ± 0.0008
* Se	0.0215 ± 0.0079	0.0059 ± 0.0022	0.0010 ± 0.0004
* Br	0.0192 ± 0.0068	0.0053 ± 0.0019	0.0009 ± 0.0003
* Rb	0.0000 ± 0.0068	0.0000 ± 0.0019	0.0000 ± 0.0003
Sr	0.2147 ± 0.0147	0.0593 ± 0.0044	0.0100 ± 0.0012
* Y	0.0000 ± 0.0102	0.0000 ± 0.0028	0.0000 ± 0.0005
Zr	0.2723 ± 0.0192	0.0752 ± 0.0057	0.0126 ± 0.0015
* Mo	0.0000 ± 0.0181	0.0000 ± 0.0050	0.0000 ± 0.0008
* Pd	0.0249 ± 0.0520	0.0069 ± 0.0144	0.0012 ± 0.0024
* Ag	0.0147 ± 0.0531	0.0041 ± 0.0147	0.0007 ± 0.0025
* Cd	0.0000 ± 0.0565	0.0000 ± 0.0156	0.0000 ± 0.0026
* In	0.0170 ± 0.0633	0.0047 ± 0.0175	0.0008 ± 0.0029
* Sn	0.0000 ± 0.0734	0.0000 ± 0.0203	0.0000 ± 0.0034
* Sb	0.3028 ± 0.1526	0.0837 ± 0.0422	0.0140 ± 0.0072
Ba	0.4848 ± 0.0881	0.1339 ± 0.0246	0.0225 ± 0.0047
* La	0.0000 ± 0.1017	0.0000 ± 0.0281	0.0000 ± 0.0047
* Hg	0.0000 ± 0.0170	0.0000 ± 0.0047	0.0000 ± 0.0008
Pb	0.3243 ± 0.0316	0.0896 ± 0.0091	0.0150 ± 0.0021

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6899  
Client ID: CAMU04-010909  
Filter ID: P8013306  
Site: CAMU04  
Sample Date: 1/ 9/09  
Filter Lot #: 8070002  
Volume: 24.16 +/- 2.416 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	940. ± 10.		38.91 ± 3.913
XRF			
* Na	0.2972 ± 0.5503	0.0316 ± 0.0585	0.0123 ± 0.0228
Mg	6.801 ± 0.7876	0.7236 ± 0.0841	0.2815 ± 0.0431
Al	10.38 ± 0.7300	1.104 ± 0.0785	0.4295 ± 0.0525
Si	34.25 ± 1.883	3.644 ± 0.2040	1.418 ± 0.1618
* P	0.0000 ± 0.0429	0.0000 ± 0.0046	0.0000 ± 0.0018
S	6.268 ± 0.3480	0.6668 ± 0.0377	0.2594 ± 0.0297
Cl	6.060 ± 0.3254	0.6447 ± 0.0353	0.2508 ± 0.0285
K	6.046 ± 0.3130	0.6431 ± 0.0340	0.2502 ± 0.0282
Ca	49.53 ± 2.501	5.269 ± 0.2719	2.050 ± 0.2296
Ti	2.344 ± 0.1209	0.2493 ± 0.0131	0.0970 ± 0.0109
V	0.1107 ± 0.0271	0.0118 ± 0.0029	0.0046 ± 0.0012
Cr	0.0508 ± 0.0113	0.0054 ± 0.0012	0.0021 ± 0.0005
Mn	3.395 ± 0.2497	0.3611 ± 0.0268	0.1405 ± 0.0174
Fe	18.52 ± 0.9300	1.970 ± 0.1011	0.7666 ± 0.0858
* Co	0.0000 ± 0.0870	0.0000 ± 0.0093	0.0000 ± 0.0036
* Ni	0.0407 ± 0.0181	0.0043 ± 0.0019	0.0017 ± 0.0008
Cu	0.5853 ± 0.0362	0.0623 ± 0.0039	0.0242 ± 0.0028
Zn	0.6430 ± 0.0373	0.0684 ± 0.0040	0.0266 ± 0.0031
* Ga	0.0000 ± 0.0113	0.0000 ± 0.0012	0.0000 ± 0.0005
* Ge	0.0158 ± 0.0090	0.0017 ± 0.0010	0.0007 ± 0.0004
* As	0.0000 ± 0.0136	0.0000 ± 0.0014	0.0000 ± 0.0006
Se	0.0249 ± 0.0079	0.0026 ± 0.0008	0.0010 ± 0.0003
Br	0.0622 ± 0.0079	0.0066 ± 0.0008	0.0026 ± 0.0004
Rb	0.0260 ± 0.0079	0.0028 ± 0.0008	0.0011 ± 0.0003
Sr	0.3096 ± 0.0181	0.0329 ± 0.0020	0.0128 ± 0.0015
* Y	0.0011 ± 0.0102	0.0001 ± 0.0011	0.0000 ± 0.0004
Zr	0.2090 ± 0.0170	0.0222 ± 0.0018	0.0087 ± 0.0011
* Mo	0.0000 ± 0.0181	0.0000 ± 0.0019	0.0000 ± 0.0007
* Pd	0.0463 ± 0.0520	0.0049 ± 0.0055	0.0019 ± 0.0022
* Ag	0.0000 ± 0.0542	0.0000 ± 0.0058	0.0000 ± 0.0022
* Cd	0.0000 ± 0.0576	0.0000 ± 0.0061	0.0000 ± 0.0024
* In	0.0000 ± 0.0644	0.0000 ± 0.0069	0.0000 ± 0.0027
* Sn	0.0000 ± 0.0746	0.0000 ± 0.0079	0.0000 ± 0.0031
* Sb	0.1695 ± 0.1548	0.0180 ± 0.0165	0.0070 ± 0.0064
Ba	0.6147 ± 0.0881	0.0654 ± 0.0094	0.0254 ± 0.0044
* La	0.0000 ± 0.0938	0.0000 ± 0.0100	0.0000 ± 0.0039
* Hg	0.0249 ± 0.0170	0.0026 ± 0.0018	0.0010 ± 0.0007
Pb	0.1153 ± 0.0237	0.0123 ± 0.0025	0.0048 ± 0.0011

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6900  
Client ID: CAMU06-010909  
Filter ID: P8013307  
Site: CAMU06  
Sample Date: 1/ 9/09  
Filter Lot #: 8070002  
Volume: 23.79 +/- 2.379 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	1,622. ± 10.		68.18 ± 6.831
XRF			
* Na	0.9108 ± 0.7277	0.0562 ± 0.0449	0.0383 ± 0.0308
Mg	8.652 ± 1.043	0.5334 ± 0.0644	0.3637 ± 0.0570
Al	17.64 ± 1.261	1.088 ± 0.0780	0.7415 ± 0.0911
Si	61.36 ± 3.503	3.783 ± 0.2172	2.579 ± 0.2970
* P	0.0000 ± 0.0520	0.0000 ± 0.0032	0.0000 ± 0.0022
S	6.111 ± 0.3480	0.3768 ± 0.0216	0.2569 ± 0.0296
Cl	7.370 ± 0.3966	0.4544 ± 0.0246	0.3098 ± 0.0352
K	11.55 ± 0.5944	0.7120 ± 0.0369	0.4854 ± 0.0546
Ca	69.35 ± 5.060	4.275 ± 0.3131	2.915 ± 0.3609
Ti	2.555 ± 0.1367	0.1575 ± 0.0085	0.1074 ± 0.0122
* V	0.0655 ± 0.0316	0.0040 ± 0.0020	0.0028 ± 0.0014
* Cr	0.0305 ± 0.0113	0.0019 ± 0.0007	0.0013 ± 0.0005
Mn	3.589 ± 0.2633	0.2213 ± 0.0163	0.1509 ± 0.0187
Fe	18.94 ± 0.9515	1.168 ± 0.0591	0.7961 ± 0.0891
* Co	0.0249 ± 0.0881	0.0015 ± 0.0054	0.0010 ± 0.0037
* Ni	0.0373 ± 0.0170	0.0023 ± 0.0010	0.0016 ± 0.0007
Cu	0.4791 ± 0.0316	0.0295 ± 0.0020	0.0201 ± 0.0024
Zn	0.5616 ± 0.0328	0.0346 ± 0.0020	0.0236 ± 0.0027
* Ga	0.0090 ± 0.0113	0.0006 ± 0.0007	0.0004 ± 0.0005
* Ge	0.0113 ± 0.0090	0.0007 ± 0.0006	0.0005 ± 0.0004
* As	0.0226 ± 0.0136	0.0014 ± 0.0008	0.0009 ± 0.0006
* Se	0.0158 ± 0.0079	0.0010 ± 0.0005	0.0007 ± 0.0003
Br	0.0610 ± 0.0079	0.0038 ± 0.0005	0.0026 ± 0.0004
Rb	0.0542 ± 0.0079	0.0033 ± 0.0005	0.0023 ± 0.0004
Sr	0.5537 ± 0.0294	0.0341 ± 0.0018	0.0233 ± 0.0026
* Y	0.0136 ± 0.0102	0.0008 ± 0.0006	0.0006 ± 0.0004
Zr	0.2226 ± 0.0170	0.0137 ± 0.0010	0.0094 ± 0.0012
* Mo	0.0000 ± 0.0181	0.0000 ± 0.0011	0.0000 ± 0.0008
* Pd	0.0000 ± 0.0531	0.0000 ± 0.0033	0.0000 ± 0.0022
* Ag	0.0000 ± 0.0554	0.0000 ± 0.0034	0.0000 ± 0.0023
* Cd	0.0000 ± 0.0599	0.0000 ± 0.0037	0.0000 ± 0.0025
* In	0.0000 ± 0.0655	0.0000 ± 0.0040	0.0000 ± 0.0028
* Sn	0.0000 ± 0.0768	0.0000 ± 0.0047	0.0000 ± 0.0032
* Sb	0.0768 ± 0.1559	0.0047 ± 0.0096	0.0032 ± 0.0066
Ba	0.8644 ± 0.0972	0.0533 ± 0.0060	0.0363 ± 0.0055
* La	0.0000 ± 0.1040	0.0000 ± 0.0064	0.0000 ± 0.0044
* Hg	0.0170 ± 0.0170	0.0010 ± 0.0010	0.0007 ± 0.0007
* Pb	0.0520 ± 0.0226	0.0032 ± 0.0014	0.0022 ± 0.0010

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6901  
Client ID: BMI06-011309  
Filter ID: P8013308  
Site: BMI06  
Sample Date: 1/13/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	86. ± 10.		3.577 ± 0.5486
XRF			
* Na	1.232 ± 0.5966	1.432 ± 0.7135	0.0512 ± 0.0253
* Mg	0.2610 ± 0.1356	0.3035 ± 0.1616	0.0109 ± 0.0057
Al	0.5526 ± 0.1028	0.6425 ± 0.1410	0.0230 ± 0.0049
Si	2.191 ± 0.1367	2.548 ± 0.3362	0.0911 ± 0.0107
* P	0.0000 ± 0.0226	0.0000 ± 0.0263	0.0000 ± 0.0009
S	0.5447 ± 0.0689	0.6333 ± 0.1088	0.0227 ± 0.0037
Cl	0.3074 ± 0.0463	0.3574 ± 0.0680	0.0128 ± 0.0023
K	0.3051 ± 0.0305	0.3548 ± 0.0544	0.0127 ± 0.0018
Ca	2.048 ± 0.2463	2.381 ± 0.3984	0.0852 ± 0.0133
Ti	0.0859 ± 0.0102	0.0999 ± 0.0166	0.0036 ± 0.0006
* V	0.0000 ± 0.0068	0.0000 ± 0.0079	0.0000 ± 0.0003
* Cr	0.0000 ± 0.0079	0.0000 ± 0.0092	0.0000 ± 0.0003
Mn	0.0429 ± 0.0113	0.0499 ± 0.0144	0.0018 ± 0.0005
Fe	0.6204 ± 0.0599	0.7214 ± 0.1090	0.0258 ± 0.0036
* Co	0.0576 ± 0.0215	0.0670 ± 0.0262	0.0024 ± 0.0009
* Ni	0.0000 ± 0.0158	0.0000 ± 0.0184	0.0000 ± 0.0007
Cu	0.1040 ± 0.0158	0.1209 ± 0.0232	0.0043 ± 0.0008
* Zn	0.0249 ± 0.0113	0.0289 ± 0.0136	0.0010 ± 0.0005
* Ga	0.0124 ± 0.0102	0.0145 ± 0.0119	0.0005 ± 0.0004
* Ge	0.0102 ± 0.0090	0.0118 ± 0.0106	0.0004 ± 0.0004
* As	0.0034 ± 0.0124	0.0039 ± 0.0145	0.0001 ± 0.0005
* Se	0.0124 ± 0.0068	0.0145 ± 0.0081	0.0005 ± 0.0003
* Br	0.0147 ± 0.0056	0.0171 ± 0.0069	0.0006 ± 0.0002
* Rb	0.0034 ± 0.0068	0.0039 ± 0.0079	0.0001 ± 0.0003
* Sr	0.0079 ± 0.0079	0.0092 ± 0.0093	0.0003 ± 0.0003
* Y	0.0023 ± 0.0090	0.0026 ± 0.0105	0.0001 ± 0.0004
* Zr	0.0158 ± 0.0124	0.0184 ± 0.0146	0.0007 ± 0.0005
* Mo	0.0000 ± 0.0170	0.0000 ± 0.0197	0.0000 ± 0.0007
* Pd	0.0000 ± 0.0486	0.0000 ± 0.0565	0.0000 ± 0.0020
* Ag	0.0000 ± 0.0497	0.0000 ± 0.0578	0.0000 ± 0.0021
* Cd	0.0554 ± 0.0542	0.0644 ± 0.0635	0.0023 ± 0.0023
* In	0.0000 ± 0.0610	0.0000 ± 0.0710	0.0000 ± 0.0025
* Sn	0.0870 ± 0.0701	0.1012 ± 0.0823	0.0036 ± 0.0029
* Sb	0.0000 ± 0.1412	0.0000 ± 0.1642	0.0000 ± 0.0059
* Ba	0.0158 ± 0.0282	0.0184 ± 0.0329	0.0007 ± 0.0012
* La	0.0000 ± 0.0203	0.0000 ± 0.0237	0.0000 ± 0.0008
* Hg	0.0056 ± 0.0158	0.0066 ± 0.0184	0.0002 ± 0.0007
* Pb	0.0011 ± 0.0203	0.0013 ± 0.0237	0.0000 ± 0.0008

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6902  
Client ID: CAMU03-011309  
Filter ID: P8013309  
Site: CAMU03  
Sample Date: 1/13/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	355. ± 10.		14.77 ± 1.534
XRF			
Na	9.454 ± 1.400	2.663 ± 0.4015	0.3932 ± 0.0703
* Mg	1.176 ± 0.4034	0.3314 ± 0.1140	0.0489 ± 0.0175
Al	4.201 ± 0.3187	1.183 ± 0.0958	0.1748 ± 0.0219
Si	14.64 ± 0.7854	4.125 ± 0.2499	0.6092 ± 0.0691
* P	0.0000 ± 0.0305	0.0000 ± 0.0086	0.0000 ± 0.0013
S	2.451 ± 0.1548	0.6904 ± 0.0477	0.1020 ± 0.0121
Cl	20.09 ± 1.024	5.660 ± 0.3295	0.8357 ± 0.0938
K	2.240 ± 0.1209	0.6309 ± 0.0384	0.0932 ± 0.0106
Ca	17.03 ± 0.8599	4.797 ± 0.2774	0.7084 ± 0.0794
Ti	0.4543 ± 0.0271	0.1280 ± 0.0084	0.0189 ± 0.0022
* V	0.0000 ± 0.0090	0.0000 ± 0.0025	0.0000 ± 0.0004
* Cr	0.0000 ± 0.0079	0.0000 ± 0.0022	0.0000 ± 0.0003
Mn	0.1469 ± 0.0136	0.0414 ± 0.0040	0.0061 ± 0.0008
Fe	4.893 ± 0.2486	1.378 ± 0.0801	0.2035 ± 0.0228
* Co	0.0000 ± 0.0305	0.0000 ± 0.0086	0.0000 ± 0.0013
* Ni	0.0000 ± 0.0147	0.0000 ± 0.0041	0.0000 ± 0.0006
Cu	0.1141 ± 0.0158	0.0321 ± 0.0045	0.0047 ± 0.0008
Zn	0.1469 ± 0.0147	0.0414 ± 0.0043	0.0061 ± 0.0009
* Ga	0.0000 ± 0.0090	0.0000 ± 0.0025	0.0000 ± 0.0004
* Ge	0.0000 ± 0.0079	0.0000 ± 0.0022	0.0000 ± 0.0003
* As	0.0000 ± 0.0124	0.0000 ± 0.0035	0.0000 ± 0.0005
* Se	0.0000 ± 0.0068	0.0000 ± 0.0019	0.0000 ± 0.0003
Br	0.0294 ± 0.0056	0.0083 ± 0.0016	0.0012 ± 0.0003
* Rb	0.0034 ± 0.0068	0.0010 ± 0.0019	0.0001 ± 0.0003
Sr	0.0870 ± 0.0090	0.0245 ± 0.0026	0.0036 ± 0.0005
* Y	0.0000 ± 0.0090	0.0000 ± 0.0025	0.0000 ± 0.0004
Zr	0.0350 ± 0.0113	0.0099 ± 0.0032	0.0015 ± 0.0005
* Mo	0.0000 ± 0.0158	0.0000 ± 0.0045	0.0000 ± 0.0007
* Pd	0.0000 ± 0.0486	0.0000 ± 0.0137	0.0000 ± 0.0020
* Ag	0.0000 ± 0.0508	0.0000 ± 0.0143	0.0000 ± 0.0021
* Cd	0.0158 ± 0.0542	0.0045 ± 0.0153	0.0007 ± 0.0023
* In	0.0000 ± 0.0599	0.0000 ± 0.0169	0.0000 ± 0.0025
* Sn	0.0000 ± 0.0689	0.0000 ± 0.0194	0.0000 ± 0.0029
* Sb	0.0000 ± 0.1401	0.0000 ± 0.0395	0.0000 ± 0.0058
* Ba	0.0452 ± 0.0373	0.0127 ± 0.0105	0.0019 ± 0.0016
* La	0.0000 ± 0.0384	0.0000 ± 0.0108	0.0000 ± 0.0016
* Hg	0.0000 ± 0.0147	0.0000 ± 0.0041	0.0000 ± 0.0006
* Pb	0.0565 ± 0.0203	0.0159 ± 0.0057	0.0024 ± 0.0009

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6903  
Client ID: BMI01-011309  
Filter ID: P8013310  
Site: BMI01  
Sample Date: 1/13/09  
Filter Lot #: 8070002  
Volume: 18.28 +/- 1.828 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	297. ± 10.		16.25 ± 1.714
XRF			
* Na	2.179 ± 0.8780	0.7335 ± 0.2967	0.1192 ± 0.0495
Mg	1.388 ± 0.3740	0.4672 ± 0.1269	0.0759 ± 0.0218
Al	5.254 ± 0.3729	1.769 ± 0.1390	0.2874 ± 0.0352
Si	17.89 ± 0.9515	6.023 ± 0.3791	0.9786 ± 0.1108
* P	0.0000 ± 0.0305	0.0000 ± 0.0103	0.0000 ± 0.0017
S	2.561 ± 0.1593	0.8621 ± 0.0610	0.1401 ± 0.0165
Cl	2.688 ± 0.1537	0.9051 ± 0.0601	0.1471 ± 0.0169
K	2.980 ± 0.3469	1.003 ± 0.1216	0.1630 ± 0.0250
Ca	15.03 ± 0.7582	5.060 ± 0.3069	0.8222 ± 0.0921
Ti	1.067 ± 0.0576	0.3592 ± 0.0229	0.0584 ± 0.0066
V	0.0802 ± 0.0147	0.0270 ± 0.0050	0.0044 ± 0.0009
* Cr	0.0158 ± 0.0090	0.0053 ± 0.0030	0.0009 ± 0.0005
Mn	0.6893 ± 0.0633	0.2321 ± 0.0227	0.0377 ± 0.0051
Fe	4.993 ± 0.2531	1.681 ± 0.1023	0.2732 ± 0.0306
* Co	0.0000 ± 0.0316	0.0000 ± 0.0107	0.0000 ± 0.0017
* Ni	0.0000 ± 0.0147	0.0000 ± 0.0049	0.0000 ± 0.0008
Cu	0.0588 ± 0.0136	0.0198 ± 0.0046	0.0032 ± 0.0008
Zn	0.1051 ± 0.0136	0.0354 ± 0.0047	0.0057 ± 0.0009
* Ga	0.0000 ± 0.0090	0.0000 ± 0.0030	0.0000 ± 0.0005
* Ge	0.0011 ± 0.0079	0.0004 ± 0.0027	0.0001 ± 0.0004
* As	0.0000 ± 0.0124	0.0000 ± 0.0042	0.0000 ± 0.0007
* Se	0.0000 ± 0.0068	0.0000 ± 0.0023	0.0000 ± 0.0004
Br	0.0362 ± 0.0068	0.0122 ± 0.0023	0.0020 ± 0.0004
* Rb	0.0136 ± 0.0068	0.0046 ± 0.0023	0.0007 ± 0.0004
Sr	0.1288 ± 0.0102	0.0434 ± 0.0037	0.0070 ± 0.0009
* Y	0.0000 ± 0.0090	0.0000 ± 0.0030	0.0000 ± 0.0005
Zr	0.1548 ± 0.0147	0.0521 ± 0.0052	0.0085 ± 0.0012
* Mo	0.0000 ± 0.0170	0.0000 ± 0.0057	0.0000 ± 0.0009
* Pd	0.0136 ± 0.0475	0.0046 ± 0.0160	0.0007 ± 0.0026
* Ag	0.0000 ± 0.0497	0.0000 ± 0.0167	0.0000 ± 0.0027
* Cd	0.0000 ± 0.0531	0.0000 ± 0.0179	0.0000 ± 0.0029
* In	0.0000 ± 0.0599	0.0000 ± 0.0202	0.0000 ± 0.0033
* Sn	0.0362 ± 0.0689	0.0122 ± 0.0232	0.0020 ± 0.0038
* Sb	0.2328 ± 0.1401	0.0784 ± 0.0473	0.0127 ± 0.0078
Ba	0.2011 ± 0.0520	0.0677 ± 0.0176	0.0110 ± 0.0030
* La	0.0000 ± 0.0565	0.0000 ± 0.0190	0.0000 ± 0.0031
* Hg	0.0034 ± 0.0147	0.0011 ± 0.0049	0.0002 ± 0.0008
* Pb	0.0249 ± 0.0203	0.0084 ± 0.0069	0.0014 ± 0.0011

\* - Concentration is less than three times the uncertainty



Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6904  
Client ID: CAMU06-011309  
Filter ID: P8013311  
Site: CAMU06  
Sample Date: 1/13/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	571. ± 10.		23.75 ± 2.411
XRF			
* Na	0.2746 ± 0.4012	0.0481 ± 0.0703	0.0114 ± 0.0167
Mg	2.224 ± 0.4384	0.3895 ± 0.0771	0.0925 ± 0.0204
Al	5.791 ± 0.4158	1.014 ± 0.0750	0.2409 ± 0.0297
Si	20.71 ± 1.115	3.627 ± 0.2054	0.8616 ± 0.0979
* P	0.0000 ± 0.0316	0.0000 ± 0.0055	0.0000 ± 0.0013
S	2.128 ± 0.1401	0.3726 ± 0.0254	0.0885 ± 0.0106
Cl	1.906 ± 0.1175	0.3339 ± 0.0214	0.0793 ± 0.0093
K	3.446 ± 0.1819	0.6036 ± 0.0336	0.1434 ± 0.0162
Ca	23.59 ± 1.763	4.132 ± 0.3171	0.9815 ± 0.1225
Ti	0.5639 ± 0.0328	0.0988 ± 0.0060	0.0235 ± 0.0027
* V	0.0170 ± 0.0102	0.0030 ± 0.0018	0.0007 ± 0.0004
* Cr	0.0034 ± 0.0079	0.0006 ± 0.0014	0.0001 ± 0.0003
Mn	0.0949 ± 0.0124	0.0166 ± 0.0022	0.0039 ± 0.0007
Fe	5.254 ± 0.2667	0.9202 ± 0.0494	0.2186 ± 0.0245
* Co	0.0056 ± 0.0316	0.0010 ± 0.0055	0.0002 ± 0.0013
* Ni	0.0000 ± 0.0147	0.0000 ± 0.0026	0.0000 ± 0.0006
Cu	0.0870 ± 0.0147	0.0152 ± 0.0026	0.0036 ± 0.0007
Zn	0.1774 ± 0.0158	0.0311 ± 0.0028	0.0074 ± 0.0010
* Ga	0.0000 ± 0.0102	0.0000 ± 0.0018	0.0000 ± 0.0004
* Ge	0.0034 ± 0.0079	0.0006 ± 0.0014	0.0001 ± 0.0003
* As	0.0045 ± 0.0079	0.0008 ± 0.0014	0.0002 ± 0.0003
* Se	0.0090 ± 0.0068	0.0016 ± 0.0012	0.0004 ± 0.0003
* Br	0.0124 ± 0.0056	0.0022 ± 0.0010	0.0005 ± 0.0002
* Rb	0.0068 ± 0.0068	0.0012 ± 0.0012	0.0003 ± 0.0003
Sr	0.1198 ± 0.0102	0.0210 ± 0.0018	0.0050 ± 0.0007
* Y	0.0000 ± 0.0090	0.0000 ± 0.0016	0.0000 ± 0.0004
* Zr	0.0305 ± 0.0113	0.0053 ± 0.0020	0.0013 ± 0.0005
* Mo	0.0000 ± 0.0170	0.0000 ± 0.0030	0.0000 ± 0.0007
* Pd	0.0000 ± 0.0486	0.0000 ± 0.0085	0.0000 ± 0.0020
* Ag	0.0000 ± 0.0497	0.0000 ± 0.0087	0.0000 ± 0.0021
* Cd	0.0000 ± 0.0554	0.0000 ± 0.0097	0.0000 ± 0.0023
* In	0.0000 ± 0.0610	0.0000 ± 0.0107	0.0000 ± 0.0025
* Sn	0.0158 ± 0.0701	0.0028 ± 0.0123	0.0007 ± 0.0029
* Sb	0.1593 ± 0.1424	0.0279 ± 0.0249	0.0066 ± 0.0060
Ba	0.2192 ± 0.0407	0.0384 ± 0.0072	0.0091 ± 0.0019
* La	0.0000 ± 0.0407	0.0000 ± 0.0071	0.0000 ± 0.0017
* Hg	0.0079 ± 0.0158	0.0014 ± 0.0028	0.0003 ± 0.0007
* Pb	0.0000 ± 0.0192	0.0000 ± 0.0034	0.0000 ± 0.0008

\* - Concentration is less than three times the uncertainty

Client: T029 - Tetra Tech EMI  
Report Number: 09-010

Lab ID: 08-T6906  
Client ID: BMI03-011309  
Filter ID: P8013313  
Site: BMI03  
Sample Date: 1/13/09  
Filter Lot #: 8070002  
Volume: 24.04 +/- 2.404 m<sup>3</sup>  
Deposit Area: 11.3 cm<sup>2</sup>  
Size Fraction: TSP

Analyte	µg/filter	percent	µg/m <sup>3</sup>
Gravimetry			
Net Mass	164. ± 10.		6.822 ± 0.7990
XRF			
* Na	1.087 ± 0.7051	0.6628 ± 0.4318	0.0452 ± 0.0297
Mg	1.142 ± 0.2994	0.6966 ± 0.1875	0.0475 ± 0.0133
Al	1.709 ± 0.1672	1.042 ± 0.1201	0.0711 ± 0.0099
Si	7.067 ± 0.3853	4.309 ± 0.3525	0.2940 ± 0.0335
* P	0.0000 ± 0.0249	0.0000 ± 0.0152	0.0000 ± 0.0010
S	1.889 ± 0.1254	1.152 ± 0.1038	0.0786 ± 0.0094
Cl	0.8509 ± 0.0678	0.5188 ± 0.0521	0.0354 ± 0.0045
K	1.200 ± 0.0689	0.7317 ± 0.0613	0.0499 ± 0.0058
Ca	7.551 ± 0.3831	4.604 ± 0.3652	0.3141 ± 0.0352
Ti	0.3017 ± 0.0192	0.1840 ± 0.0162	0.0126 ± 0.0015
* V	0.0090 ± 0.0079	0.0055 ± 0.0048	0.0004 ± 0.0003
* Cr	0.0090 ± 0.0079	0.0055 ± 0.0048	0.0004 ± 0.0003
Mn	0.1424 ± 0.0124	0.0868 ± 0.0092	0.0059 ± 0.0008
Fe	2.174 ± 0.1130	1.326 ± 0.1062	0.0904 ± 0.0102
* Co	0.0023 ± 0.0226	0.0014 ± 0.0138	0.0001 ± 0.0009
* Ni	0.0011 ± 0.0147	0.0007 ± 0.0090	0.0000 ± 0.0006
Cu	0.0667 ± 0.0136	0.0407 ± 0.0086	0.0028 ± 0.0006
Zn	0.1141 ± 0.0136	0.0696 ± 0.0093	0.0047 ± 0.0007
* Ga	0.0000 ± 0.0090	0.0000 ± 0.0055	0.0000 ± 0.0004
* Ge	0.0023 ± 0.0079	0.0014 ± 0.0048	0.0001 ± 0.0003
* As	0.0000 ± 0.0124	0.0000 ± 0.0076	0.0000 ± 0.0005
* Se	0.0068 ± 0.0068	0.0041 ± 0.0041	0.0003 ± 0.0003
Br	0.0215 ± 0.0056	0.0131 ± 0.0035	0.0009 ± 0.0003
* Rb	0.0011 ± 0.0068	0.0007 ± 0.0041	0.0000 ± 0.0003
Sr	0.0486 ± 0.0079	0.0296 ± 0.0052	0.0020 ± 0.0004
* Y	0.0000 ± 0.0090	0.0000 ± 0.0055	0.0000 ± 0.0004
Zr	0.0418 ± 0.0113	0.0255 ± 0.0071	0.0017 ± 0.0005
* Mo	0.0000 ± 0.0158	0.0000 ± 0.0096	0.0000 ± 0.0007
* Pd	0.0056 ± 0.0475	0.0034 ± 0.0289	0.0002 ± 0.0020
* Ag	0.0000 ± 0.0497	0.0000 ± 0.0303	0.0000 ± 0.0021
* Cd	0.0497 ± 0.0542	0.0303 ± 0.0331	0.0021 ± 0.0023
* In	0.0000 ± 0.0588	0.0000 ± 0.0358	0.0000 ± 0.0024
* Sn	0.0056 ± 0.0678	0.0034 ± 0.0413	0.0002 ± 0.0028
* Sb	0.2791 ± 0.1424	0.1702 ± 0.0874	0.0116 ± 0.0060
Ba	0.1085 ± 0.0316	0.0661 ± 0.0197	0.0045 ± 0.0014
* La	0.0000 ± 0.0316	0.0000 ± 0.0193	0.0000 ± 0.0013
* Hg	0.0158 ± 0.0147	0.0096 ± 0.0090	0.0007 ± 0.0006
* Pb	0.0237 ± 0.0192	0.0145 ± 0.0117	0.0010 ± 0.0008

\* - Concentration is less than three times the uncertainty

# CHESTER LabNet

XRF-770

## XRF Analytical Quality Assurance Report

Client: Tetra Tech

Report: 09-010

Analysis Period: January 20 through 21, 2009

Number of Samples: 23

### 1. Precision Data

Micromatter Multi-elemental Quality Control Standard: QS285

#### QC Standard Results

Analyte	n	Counts per Second			c.v.	%E
		Calib.	Meas.	S.D.		
Si(0)	2	1785.92	1735.30	32.67	1.88	-2.83
Ti(1)	2	591.36	580.12	15.78	2.72	-1.90
Fe(1)	2	1321.41	1286.08	32.13	2.50	-2.67
Se(3)	2	343.74	328.86	3.43	1.04	-4.33
Pb(3)	2	394.75	377.26	2.95	0.78	-4.43
Cd(4)	2	277.97	275.04	5.15	1.87	-1.05

### 2. Accuracy Data

NIST Standard Reference Materials: SRM 1832, SRM 1833, SRM 2783

Analyte/ SRM	n	Certified Value( $\mu\text{g}/\text{cm}^2$ )	Measured Value ( $\mu\text{g}/\text{cm}^2$ )			% Rec.
			High	Low	Average	
Al 1832	4	14.6 +/- .97	15.13	14.12	14.54 +/- 0.38	99.6
Si 1832	4	34.0 +/- 1.1	34.29	34.05	34.13 +/- 0.09	100.4
Si 1833	4	31.5 +/- 2.1	31.79	30.97	31.34 +/- 0.31	99.5
S 2708	4	2.46 +/- .25	2.41	2.22	2.32 +/- 0.07	93.9
K 1833	4	16.4 +/- 1.64	17.50	16.87	17.27 +/- 0.25	105.3
Ca 2783	4	1.33 +/- 0.17	1.38	1.28	1.33 +/- 0.04	100.5
Ti 1833	4	12.1 +/- 1.79	12.46	11.76	12.15 +/- 0.31	100.4
V 1832	4	4.70 +/- .49	4.56	4.31	4.47 +/- 0.10	95.2
Mn 1832	4	4.54 +/- .49	4.66	4.56	4.62 +/- 0.04	101.7
Fe 1833	4	13.6 +/- .45	13.92	13.72	13.82 +/- 0.09	101.6
Cu 1832	4	2.43 +/- .16	2.57	2.47	2.50 +/- 0.04	103.0
Zn 1833	4	3.88 +/- .30	3.80	3.53	3.67 +/- 0.11	94.5
Pb 1833	4	16.1 +/- .75	16.92	16.11	16.51 +/- 0.32	102.5

NIST: National Institute of Standards and Technology

% Rec: Percent Recovery = (Experimental/Given) x 100

n: Number of Observations

S.D.: Standard Deviation

c.v.: Coefficient of Variation = (S.D./Measured) x 100

% E: Percent Error = [(Measured-Calibrated)/Calibrated] x 100

# XRF-770 REPLICATE REPORT

6.79

Original ID: 08-T6899

Replicate ID: RT6899

Filter Lot:

Deposit Mass: 940 µg

Deposit Area: 11.3 cm²

Particle Size: F

Element	Original ug/cm2			Replicate ug/cm2			Difference ug/cm2			RPD		
Na	0.0263	+-	0.0487	0.0000	+-	0.0566	0.0263	+-	0.0747			
Mg	0.6019	+-	0.0697	0.5509	+-	0.0745	0.0510	+-	0.1020	+	8.8	+- 17.7
Al	0.9183	+-	0.0646	0.9233	+-	0.0667	-0.0050	+-	0.0929	+	-0.5	+- 10.1
Si	3.0314	+-	0.1666	3.0569	+-	0.1684	-0.0254	+-	0.2369	+	-0.8	+- 7.8
P	0.0000	+-	0.0038	0.0000	+-	0.0046	0.0000	+-	0.0060			
S	0.5547	+-	0.0308	0.5563	+-	0.0331	-0.0015	+-	0.0452	+	-0.3	+- 8.1
Cl	0.5363	+-	0.0288	0.5284	+-	0.0298	0.0080	+-	0.0415	+	1.5	+- 7.8
K	0.5350	+-	0.0277	0.5607	+-	0.0296	-0.0257	+-	0.0406	+	-4.7	+- 7.4
Ca	4.3829	+-	0.2213	4.4615	+-	0.2256	-0.0785	+-	0.3161	+	-1.8	+- 7.1
Ti	0.2074	+-	0.0107	0.2066	+-	0.0109	0.0008	+-	0.0153	+	0.4	+- 7.4
V	0.0098	+-	0.0024	0.0112	+-	0.0027	-0.0014	+-	0.0036	+	-12.9	+- 34.3
Cr	0.0045	+-	0.0010	0.0043	+-	0.0014	0.0002	+-	0.0017	+	4.6	+- 39.6
Mn	0.3004	+-	0.0221	0.2975	+-	0.0225	0.0029	+-	0.0315	+	1.0	+- 10.5
Fe	1.6390	+-	0.0823	1.6544	+-	0.0832	-0.0154	+-	0.1170	+	-0.9	+- 7.1
Co	0.0000	+-	0.0077	0.0111	+-	0.0083	-0.0111	+-	0.0113			
Ni	0.0036	+-	0.0016	0.0020	+-	0.0022	0.0017	+-	0.0027			
Cu	0.0518	+-	0.0032	0.0490	+-	0.0035	0.0028	+-	0.0047	+	5.5	+- 9.3
Zn	0.0569	+-	0.0033	0.0573	+-	0.0057	-0.0004	+-	0.0066	+	-0.6	+- 11.6
Ga	0.0000	+-	0.0010	0.0006	+-	0.0013	-0.0006	+-	0.0017			
Ge	0.0014	+-	0.0008	0.0017	+-	0.0012	-0.0003	+-	0.0014			
As	0.0000	+-	0.0012	0.0000	+-	0.0018	0.0000	+-	0.0022			
Se	0.0022	+-	0.0007	0.0019	+-	0.0010	0.0003	+-	0.0012	+	14.2	+- 57.3
Br	0.0055	+-	0.0007	0.0044	+-	0.0009	0.0011	+-	0.0011	+	21.6	+- 22.2
Rb	0.0023	+-	0.0007	0.0026	+-	0.0009	-0.0002	+-	0.0011	+	-9.4	+- 46.8
Sr	0.0274	+-	0.0016	0.0294	+-	0.0019	-0.0020	+-	0.0025	+	-7.0	+- 8.9
Y	0.0001	+-	0.0009	0.0000	+-	0.0013	0.0001	+-	0.0015			
Zr	0.0185	+-	0.0015	0.0193	+-	0.0019	-0.0009	+-	0.0024	+	-4.6	+- 12.9
Mo	0.0000	+-	0.0016	0.0000	+-	0.0023	0.0000	+-	0.0028			
Pd	0.0041	+-	0.0046	0.0064	+-	0.0065	-0.0023	+-	0.0080			
Ag	0.0000	+-	0.0048	0.0000	+-	0.0067	0.0000	+-	0.0082			
Cd	0.0000	+-	0.0051	0.0000	+-	0.0074	0.0000	+-	0.0090			
In	0.0000	+-	0.0057	0.0000	+-	0.0081	0.0000	+-	0.0099			
Sn	0.0000	+-	0.0066	0.0031	+-	0.0093	-0.0031	+-	0.0114			
Sb	0.0150	+-	0.0137	0.0158	+-	0.0193	-0.0008	+-	0.0237			
Ba	0.0544	+-	0.0078	0.0587	+-	0.0092	-0.0043	+-	0.0121	+	-7.6	+- 21.3
La	0.0000	+-	0.0083	0.0000	+-	0.0097	0.0000	+-	0.0128			
Hg	0.0022	+-	0.0015	0.0038	+-	0.0022	-0.0016	+-	0.0026			
Pb	0.0102	+-	0.0021	0.0099	+-	0.0029	0.0003	+-	0.0036	+	3.0	+- 36.2

RPD: Relative Percent Difference  $(X1-X2)/[(X1+X2)/2]*100$ . RPD is calculated when original value is greater than three times its uncertainty.

# XRF-770 REPLICATE REPORT

5.10

Original ID: 08-T6888

Replicate ID: RT6888

Filter Lot:

Deposit Mass: 1282 µg

Deposit Area: 11.3 cm²

Particle Size: F

Element	Original ug/cm2			Replicate ug/cm2			Difference ug/cm2			RPD		
Na	0.0560	+-	0.0800	0.0240	+-	0.0935	0.0321	+-	0.1230			
Mg	0.8431	+-	0.1026	0.8346	+-	0.1142	0.0085	+-	0.1535	+	1.0	+- 18.3
Al	0.9589	+-	0.0729	1.0108	+-	0.0790	-0.0520	+-	0.1075	+	-5.3	+- 10.9
Si	3.8765	+-	0.2184	3.7642	+-	0.2127	0.1123	+-	0.3048	+	2.9	+- 8.0
P	0.0000	+-	0.0056	0.0000	+-	0.0066	0.0000	+-	0.0086			
S	1.2170	+-	0.0660	1.1537	+-	0.0658	0.0634	+-	0.0932	+	5.3	+- 7.9
Cl	2.3611	+-	0.1228	2.2647	+-	0.1196	0.0964	+-	0.1714	+	4.2	+- 7.4
K	0.6931	+-	0.0362	0.6795	+-	0.0365	0.0136	+-	0.0514	+	2.0	+- 7.5
Ca	6.8220	+-	0.3458	6.7437	+-	0.3424	0.0783	+-	0.4867	+	1.2	+- 7.2
Ti	0.1791	+-	0.0100	0.2064	+-	0.0112	-0.0274	+-	0.0150	0	-14.2	+- 7.8
V	0.0011	+-	0.0026	0.0022	+-	0.0030	-0.0011	+-	0.0040			
Cr	0.0099	+-	0.0014	0.0104	+-	0.0020	-0.0004	+-	0.0025	+	-4.4	+- 24.3
Mn	1.1044	+-	0.0788	1.1069	+-	0.0796	-0.0025	+-	0.1120	+	-0.2	+- 10.1
Fe	2.1735	+-	0.1095	2.1528	+-	0.1087	0.0207	+-	0.1543	+	1.0	+- 7.1
Co	0.0000	+-	0.0097	0.0038	+-	0.0100	-0.0038	+-	0.0139			
Ni	0.0070	+-	0.0017	0.0071	+-	0.0023	-0.0001	+-	0.0028	+	-1.7	+- 40.2
Cu	0.0632	+-	0.0038	0.0644	+-	0.0042	-0.0013	+-	0.0056	+	-2.0	+- 8.8
Zn	0.1330	+-	0.0070	0.1307	+-	0.0071	0.0024	+-	0.0100	+	1.8	+- 7.6
Ga	0.0000	+-	0.0010	0.0000	+-	0.0013	0.0000	+-	0.0016			
Ge	0.0000	+-	0.0008	0.0029	+-	0.0011	-0.0029	+-	0.0014			
As	0.0000	+-	0.0012	0.0010	+-	0.0017	-0.0010	+-	0.0021			
Se	0.0011	+-	0.0007	0.0002	+-	0.0009	0.0009	+-	0.0011			
Br	0.0134	+-	0.0009	0.0126	+-	0.0011	0.0008	+-	0.0015	+	6.1	+- 11.2
Rb	0.0020	+-	0.0006	0.0013	+-	0.0009	0.0007	+-	0.0011			
Sr	0.0375	+-	0.0021	0.0360	+-	0.0022	0.0015	+-	0.0030	+	4.1	+- 8.2
Y	0.0001	+-	0.0009	0.0009	+-	0.0012	-0.0008	+-	0.0015			
Zr	0.0191	+-	0.0015	0.0195	+-	0.0019	-0.0004	+-	0.0024	+	-2.3	+- 12.6
Mo	0.0021	+-	0.0016	0.0023	+-	0.0022	-0.0002	+-	0.0027			
Pd	0.0000	+-	0.0046	0.0000	+-	0.0064	0.0000	+-	0.0079			
Ag	0.0000	+-	0.0048	0.0000	+-	0.0069	0.0000	+-	0.0084			
Cd	0.0000	+-	0.0052	0.0000	+-	0.0073	0.0000	+-	0.0090			
In	0.0000	+-	0.0059	0.0004	+-	0.0081	-0.0004	+-	0.0100			
Sn	0.0000	+-	0.0066	0.0038	+-	0.0094	-0.0038	+-	0.0115			
Sb	0.0281	+-	0.0141	0.0000	+-	0.0193	0.0281	+-	0.0239			
Ba	0.0775	+-	0.0086	0.0681	+-	0.0113	0.0094	+-	0.0142	+	13.0	+- 19.5
La	0.0000	+-	0.0090	0.0000	+-	0.0113	0.0000	+-	0.0144			
Hg	0.0000	+-	0.0015	0.0083	+-	0.0021	-0.0083	+-	0.0026			
Pb	0.0102	+-	0.0021	0.0097	+-	0.0029	0.0005	+-	0.0036	+	4.6	+- 35.8

RPD: Relative Percent Difference  $(X1-X2)/[(X1+X2)/2]*100$ . RPD is calculated when original value is greater than three times its uncertainty.

09-010

**CHESTER LabNet**

12242 SW Garden Place  
Tigard, OR 97223  
(503) 624-2183  
Fax (503) 624-2653  
cln@chesterlab.net

**CHAIN-OF-CUSTODY RECORD**Page 1 of 2

Company Name <b>TETRA TECH EM Inc</b>		Phone 808 484 9430	
Contact <b>Doug Herbel</b>		Fax 808 343 4750	
E-Mail Address <b>doug.herb@tetraem.com</b>			
Report Address <b>3380 Americana Terrace, Ste 201</b>			
City <b>Boise</b>	State <b>ID</b>	Zip <b>83704</b>	
Billing Address <b>3380 Americana Terrace, Ste 201</b>			
City <b>Boise</b>	State <b>ID</b>	Zip <b>83704</b>	
PO # <b>103PO333</b>	Project <b>BHI</b>		

LabNet ID	Field Sample ID	Site	Sample Date	Volume (m <sup>3</sup> )	Particle Size
	OFF01-12208	OFF01	12/7/08	14.28	N/A
	OFF02-12208	OFF02	✓	14.44	✓
	BHI03-12308	BHI03	12/30/08		
	BHI04-12308	BHI04	✓		
	CAMU02-12308	CAMU02	✓		
	CAMU03-12308	CAMU03	✓		
	BHI02-010009	BHI02	01/06/09	24.04	
	BHI01-010009	BHI01	✓	24.04	
	CAMU02-010009	CAMU02	✓	20.51	
	CAMU03-010009	CAMU03	✓	24.04	
	BHI11-010009	BHI11	✓	24.04	
	BHI02-010009	BHI02	✓	24.04	

Analysis Requested										Turn Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush _____ Specify _____	Remarks
T	S	P									0876883
X											0876884
X											0876885
X											0876886
X											0876887
X											0876888
X											0876889
X											0876890
X											0876891
X											0876892
X											0876893

Relinquished By: (Signature) <i>[Signature]</i> Date/Time <b>01/13/09 12:00</b>	Received By: (Signature) <i>[Signature]</i> Date/Time <b>1/14/09 10:10</b>	Notes: <b>OK</b>
Relinquished By: (Signature) <i>[Signature]</i> Date/Time <b>01/13/09 12:00</b>	Received By: (Signature) <i>[Signature]</i> Date/Time <b>1/14/09 10:10</b>	

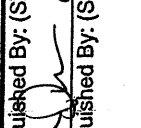
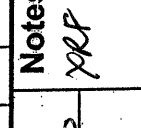
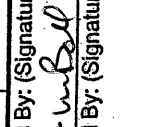
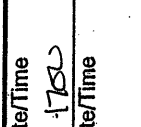
Company Name <b>TETRA TECH EM Inc</b>		Phone <b>208 484 9430</b>	
Contact <b>Doug Herbelter</b>		Fax <b>208 343 4750</b>	
E-Mail Address <b>douglas.herbelter@tetraem.com</b>		Fax <b>208 343 4750</b>	
Report Address <b>3380 Americana Terrace, Ste 201</b>			
City <b>Boise</b>	State <b>ID</b>	Zip <b>83704</b>	
Billing Address <b>3380 Americana Terrace, Ste 201</b>			
City <b>Boise</b>	State <b>ID</b>	Zip <b>83704</b>	
PO # <b>103PO333</b>	Project <b>BMI</b>		

# CHESTER LabNet

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## CHAIN-OF-CUSTODY RECORD

Page 2 of 2

LabNet ID	Field Sample ID	Site	Sample Date	Volume (m³)	Particle Size	Analysis Requested										Turn Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush _____ Specify _____	Remarks
	BMT03-010909	BMT03	01/09/09	24.04	no											0876896	
	BMT01-010909	BMT01		24.04												0876895	
	CAMU06-010909	CAMU06		23.79												0876900	
	CAMU04-010909	CAMU04		21.14												0876897	
	BMT11-010909	BMT11		24.04												0876898	
	BMT04-010909	BMT04		21.57												0876902	
	BMT03-011309	BMT03	01/13/09	24.04												0876903	
	BMT01-011309	BMT01		18.25												0876904	
	CAMU06-011309	CAMU06		24.04												0876902	
	CAMU03-011309	CAMU03		24.04												0876901	
	BMT04-011309	BMT04		24.04													
Relinquished By: (Signature) Date/Time																Notes:	
 01/13/09 1700																 01/14/09 1010	
Relinquished By: (Signature) Date/Time																	
 01/13/09 1700																	
 01/13/09 1700																	



No. 0039 P. 1

6000 S. Eastern Avenue  
Suite 5A  
Las Vegas, Nevada 89119  
Phone: 702.564.2802  
Fax: 702.565.1608



Tetra Tech EM, Inc.

# Fax

To: Paul - Chester Labs From: Becki Quinn  
Fax: 1 503 624 2653 Date: 1-14-09  
Phone: 1 503 624 2653 Pages: 2 incl. cover  
Re: Sample vol addition CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

•Comments:

Paul.

I updated the CUC with the missing sample volumes  
over the 12/30 lot samples.

Becki.

Jan. 14, 2009 2:56PM



Company Name  
**Tetra Tech EM Inc**

Contact  
**Dorey Herbert**

Phone  
**808 484 9430**

Fax  
**808 343 4950**

E-Mail Address  
**john@tetra-tech-em.com**

Report Address  
**3390 Americana Terrace, Ste 201**

City  
**Boise**

State  
**ID**

Zip  
**83704**

Billing Address  
**3390 Americana Terrace, Ste 201**

City  
**Boise**

State  
**ID**

Zip  
**83704**

PO #  
**10370323**

Project  
**BMT**

# **CHESTER LabNet**

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## **CHAIN-OF-CUSTODY RECORD**

Page 1 of 2

LabNet ID	Field Sample ID	Site	Sample Date	Volume (mL)	Particle Size	Analysis Requested										Turn Around Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Specify _____	Remarks
	000001-122405	AREA	12/1/04	14.78	11/2												
	000002-122405	AREA	✓	14.44	✓												08-76883
	000003-122405	AREA	12/15/04	17.54													08-76889
	000004-122405	AREA	✓	21.00													08-76885
	000005-122405	AREA	✓	24.75													08-76886
	000006-122405	AREA	✓	24.04													08-76887
	000007-010607	AREA	01/02/04	24.04													08-76888
	000008-010607	AREA	✓	24.04													08-76889
	000009-010607	AREA	✓	24.04													08-76890
	000010-010607	AREA	✓	24.04													08-76891
	000011-010607	AREA	✓	24.04													08-76892
	000012-010607	AREA	✓	24.04													08-76893
	000013-010607	AREA	✓	24.04													08-76894
	000014-010607	AREA	✓	24.04													08-76895

Relinquished By: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

Relinquished By: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

Received By: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

Received By: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

Notes: \_\_\_\_\_

Jan. 14, 2009 2:56PM

No. 0039 P. 2

010

**RAW DATA**

Available upon request