EBERLINE SERVICES

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EBS-OR-30671

July 20, 2010

Penny Bassett
Brown and Caldwell
3264 Goni Road Suite 153
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CASE NARRATIVE
Work Order # 10-06061-OR

SAMPLE RECEIPT

This work order contains seventeen soil samples received 06/14/2010. These samples were analyzed by Gamma Spectroscopy.

CLIENT ID	LAB ID	CLIENT ID	LAB ID
S-1	10-06061-04	S-11	10-06061-13
S-2	10-06061-05	S-12a	10-06061-14
S-3	10-06061-06	S-13	10-06061-15
S-4	10-06061-07	S-15	10-06061-16
S-5	10-06061-08	S-16	10-06061-17
S-6	10-06061-09	S-17	10-06061-18
S-7	10-06061-10	S-18	10-06061-19
S-10a	10-06061-11	S-19	10-06061-20
S-10b	10-06061-12		

ANALYTICAL METHODS

Gamma Spectroscopy was performed using Method LANL ER-130 Modified.

Laboratory qualifiers are as follows:

J - Indicates a situation where the result minus the error is less than the detection limit but greater than zero.

U - Indicates a situation where the result minus the error is less than or equal to zero.

ANALYTICAL RESULTS

GAMMA SPECTROSCOPY

Samples for Gamma Spectroscopy analyses were prepared by transferring a known mass/aliquot of each prepared and homogenized sample to a standard geometry container. Samples were counted on High Purity Germanium (HPGe) gamma ray detectors.

0017

ANALYTICAL RESULTS CONTINUED

GAMMA SPECTROSCOPY CONTINUED

Samples demonstrated acceptable results for all gamma-emitting radionuclides as reported. Results for the method blank demonstrated acceptable activity for all gamma-emitting radionuclides as reported. Results for the Actinium-228 and Bismuth-214 replicate demonstrated an acceptable relative percent difference and normalized difference. Results for the Lead-212 replicate demonstrated a high relative percent difference; however, normalized difference is within acceptable analytical technique limits. Results for the Cobalt-60 and Cesium-137 laboratory control sample demonstrated an acceptable percent recovery.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

M.R. McDougall
Laboratory Manager

Date: 7/20/2010

SECTION IV

ANALYTICAL RESULTS SUMMARY

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SDG: 1006061
Date Received: 06/14/2010
Matrix: Soil

Final Report of Analysis
Date: 7/20/2010

Sample ID	Lab ID	Result Type	Prep Date	Analysis Date	Method	Analyte	Result	Error	MDA	Qualifier	Units
LCS	10-06061-01	LCS	06/18/2010	07/09/2010	LANL ER-130 Modified	Cobalt-60	147.00	10.42	0.72		pCi/g
LCS	10-06061-01	LCS	06/18/2010	07/09/2010	LANL ER-130 Modified	Cesium-137	90.64	10.90	0.62		pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	0.05	0.11	0.24	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	-0.05	0.07	0.12	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	2.57	3.42	7.95	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	-0.03	0.05	0.08	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	0.09	0.08	0.13	J	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	-0.05	0.07	0.12	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	0.05	0.11	0.24	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	-0.09	0.49	0.91	U	pCi/g
BLANK	10-06061-02	MBL	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	-0.04	0.10	0.18	U	pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1.34	0.23	0.27		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.67	0.21	0.14		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	1.86	4.34	8.15	U	pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	1.01	0.21	0.12		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.54	0.19	0.13		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.67	0.21	0.14		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1.34	0.23	0.27		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	4.80	1.64	1.55		pCi/g
S-1	10-06061-03	DUP	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.19	0.19	0.20		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1.53	0.24	0.25		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.54	0.22	0.14		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	1.29	4.29	7.99	U	pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	1.37	0.19	0.12		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.60	0.20	0.13		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.54	0.22	0.14		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1.53	0.24	0.25		pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	1.99	1.58	1.56	J	pCi/g
S-1	10-06061-04	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.25	0.19	0.17		pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	0.67	0.87	1.29	U	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.07	0.66	1.09	J	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	33.23	22.20	51.26	J	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	1.00	0.41	0.39		pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.01	0.42	0.60	J	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.07	0.66	1.09	J	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	0.67	0.87	1.29	U	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	1.66	2.66	4.97	U	pCi/g
S-2	10-06061-05	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	0.29	0.56	1.06	U	pCi/g

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Sample ID	Lab ID	Result Type	Prep Date	Analysis Date	Method	Analyte	Result	Error	MDA	Qualifier	Units
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	9.68	1.26	1.10		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	3.05	0.76	0.68		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	-21.91	19.02	30.60	U	pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	10.29	1.47	0.54		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	3.59	0.71	0.67		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	3.05	0.76	0.68		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	9.68	1.26	1.10		pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	-1.40	3.87	6.57	U	pCi/g
S-3	10-06061-06	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	7.91	1.15	1.02		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1.93	0.32	0.36		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	3.67	0.37	0.18		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	1.81	5.98	11.02	U	pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	0.43	0.20	0.17		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	3.17	0.32	0.21		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	3.67	0.37	0.18		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1.93	0.32	0.36		pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	3.11	2.33	2.36	J	pCi/g
S-4	10-06061-07	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.57	0.23	0.27		pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	0.17	0.77	1.54	U	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.15	0.73	1.19	J	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	-6.24	16.15	30.69	U	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	0.55	0.33	0.61	J	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.40	0.53	0.63		pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.15	0.73	1.19	J	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	0.17	0.77	1.54	U	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	0.99	2.86	5.29	U	pCi/g
S-5	10-06061-08	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	0.24	0.63	1.18	U	pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1080.00	60.81	6.19		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	237.00	14.72	4.24		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	3374.00	345.00	173.00		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	1336.00	147.70	12.24		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	264.60	21.84	4.31		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	237.00	14.72	4.24		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1080.00	60.81	6.19		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	3074.00	386.20	58.31		pCi/g
S-6	10-06061-09	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1057.00	122.80	6.34		pCi/g

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SDG: 1006061
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Sample ID	Lab ID	Result Type	Prep Date	Analysis Date	Method	Analyte	Result	Error	MDA	Qualifier	Units
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	101.40	9.47	5.79		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	14.56	4.99	5.72		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	-0.32	88.71	164.90	U	pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	118.50	14.75	2.72		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	17.01	3.71	3.67		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	14.56	4.99	5.72		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	101.40	9.47	5.79		pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	22.73	24.89	33.73	U	pCi/g
S-7	10-06061-10	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	87.20	9.56	5.61		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	3.09	0.50	0.47		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.02	0.24	0.28		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	6.27	7.62	15.57	U	pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	4.21	0.54	0.59		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.24	0.23	0.27		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.02	0.24	0.28		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	3.09	0.50	0.47		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	6.67	3.20	3.42		pCi/g
S-10a	10-06061-11	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	3.38	0.46	0.41		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	3.07	0.83	1.11		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.82	0.57	0.64		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	46.03	29.78	29.18	J	pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	2.80	0.52	0.38		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	2.42	0.61	0.51		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.82	0.57	0.64		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	3.07	0.83	1.11		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	33.81	6.20	5.46		pCi/g
S-10b	10-06061-12	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	2.27	0.64	0.79		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1.33	0.39	0.75		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.10	0.25	0.22		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	10.22	8.48	17.34	J	pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	1.24	0.23	0.18		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.14	0.24	0.20		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.10	0.25	0.22		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1.33	0.39	0.75		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	14.02	3.28	3.07		pCi/g
S-11	10-06061-13	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.02	0.22	0.31		pCi/g

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Sample ID	Lab ID	Result Type	Prep Date	Analysis Date	Method	Analyte	Result	Error	MDA	Qualifier	Units
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	2.45	0.65	0.90		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	5.91	0.81	0.45		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	5.29	15.24	29.27	U	pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	2.92	0.53	0.38		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	5.49	0.79	0.48		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	5.91	0.81	0.45		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	2.45	0.65	0.90		pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	7.71	5.67	4.06	J	pCi/g
S-12a	10-06061-14	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.87	0.47	0.69		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	135.40	8.18	2.59		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	75.23	5.21	1.65		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	179.20	53.56	67.47		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	44.02	5.38	1.41		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	75.17	6.28	1.77		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	75.23	5.21	1.65		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	135.40	8.18	2.59		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	163.40	26.62	23.19		pCi/g
S-13	10-06061-15	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	121.00	8.84	2.43		pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	1.81	0.85	1.00	J	pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	1.36	0.51	0.81		pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	14.87	16.07	34.33	U	pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	2.44	0.47	0.34		pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	1.23	0.45	0.42		pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	1.36	0.51	0.81		pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	1.81	0.85	1.00	J	pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	3.20	3.03	4.10	J	pCi/g
S-15	10-06061-16	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	2.11	0.66	0.67		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	234.10	13.64	2.82		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	54.46	4.28	2.09		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	409.80	98.48	83.60		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	283.20	31.44	6.31		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	61.09	5.35	2.18		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	54.46	4.28	2.09		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	234.10	13.64	2.82		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	264.60	40.20	29.87		pCi/g
S-16	10-06061-17	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	204.40	14.76	3.14		pCi/g

Penny Bassett
Brown and Caldwell
3264 Goni Road Suite 153
Carson City, NV 89706

SDG: 1006061
Date Received: 06/14/2010
Matrix: Soil

Sample ID	Lab ID	Result Type	Prep Date	Analysis Date	Method	Analyte	Result	Error	MDA	Qualifier	Units
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	2.02	1.87	3.45	J	pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	90.85	6.58	1.41		pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	21.48	52.50	95.34	U	pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	5.07	1.15	1.57		pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	96.23	10.85	1.67		pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	90.85	6.58	1.41		pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	2.02	1.87	3.45	J	pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	5.68	9.06	14.75	U	pCi/g
S-17	10-06061-18	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	1.37	1.48	2.53	U	pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	0.37	0.36	0.63	J	pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	0.73	0.20	0.23		pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	3.61	7.43	15.41	U	pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	0.62	0.19	0.18		pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	0.83	0.22	0.25		pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	0.73	0.20	0.23		pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	0.37	0.36	0.63	J	pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	0.03	1.54	2.82	U	pCi/g
S-18	10-06061-19	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	0.58	0.30	0.47	J	pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Actinium-228	119.50	9.12	3.88		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Bismuth-214	39.55	4.52	2.64		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Protactinium-234M	219.80	110.70	110.30	J	pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-212	141.10	16.09	1.93		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Lead-214	44.86	5.50	2.47		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-226	39.55	4.52	2.64		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Radium-228	119.50	9.12	3.88		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thorium-234	161.10	24.69	26.49		pCi/g
S-19	10-06061-20	TRG	06/18/2010	07/09/2010	LANL ER-130 Modified	Thallium-208	116.50	10.27	3.77		pCi/g

EBERLINE SERVICES
EBERLINE ANALYTICAL CORPORATION
601 SCARBORO ROAD OAK RIDGE, TN 37830 865/481-0683 FAX 865/483-4621

SECTION V

ANALYTICAL STANDARD

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404-352-8677
Fax 404-352-2837
www.analyticsinc.com

CERTIFICATE OF CALIBRATION

Standard Radionuclide Source

GAS-1602

81341-416

Sand in 16 oz PP Taral Jar Filled to Top

Customer: Eberline Services / Eberline Analytical Corp. / Oak Ridge
P.O. No.: 5964, Item 6
Reference Date: 01-Jan-2010 12:00 PM EST **Grams of Master Source:** 0.017446

This standard radionuclide source was prepared using aliquots measured gravimetrically from master radionuclide solutions. Calibration and purity were checked using a germanium gamma spectrometer system. At the time of calibration no interfering gamma-ray emitting impurities were detected. The gamma-ray emission rates for the most intense gamma-ray lines are given. Eckert & Ziegler Analytics (EZA) maintains traceability to the National Institute of Standards and Technology through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 1, February, 1979, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST." EZA is accredited by the Health Physics Society (HPS) for the production of NIST-traceable sources, and this source was produced in accordance with the HPS accreditation requirements. Customers may report any concerns with the accreditation program to the HPS Secretariat, 1313 Dolley Madison Blvd., Ste. 402, McLean, VA 22101.

Nuclide	Gamma-Ray Energy (keV)	Half-Life, Days	Master Source* γps/gram	This Source γps	Uncertainty, % Type u_A	u_B	U	Calibration Method
Am-241	59.5	1.580E+05	———	2.020E+03	0.1	1.7	3.5	4π LS
Cd-109	88.0	4.626E+02	1.606E+05	2.802E+03	0.4	2.3	4.7	HPGe
Co-57	122.1	2.718E+02	8.471E+04	1.478E+03	0.5	2.0	4.1	HPGe
Ce-139	165.9	1.376E+02	1.209E+05	2.109E+03	0.4	1.9	3.9	HPGe
Hg-203	279.2	4.661E+01	2.726E+05	4.756E+03	0.4	1.9	3.9	HPGe
Sn-113	391.7	1.151E+02	1.672E+05	2.917E+03	0.5	1.9	3.9	HPGe
Cs-137	661.7	1.098E+04	1.096E+05	1.912E+03	0.6	1.9	4.0	HPGe
Y-88	898.0	1.066E+02	4.077E+05	7.113E+03	0.4	1.9	3.9	HPGe
Co-60	1173.2	1.925E+03	2.055E+05	3.585E+03	0.5	1.9	3.9	HPGe
Co-60	1332.5	1.925E+03	2.056E+05	3.587E+03	0.7	1.9	4.0	HPGe
Y-88	1836.1	1.066E+02	4.308E+05	7.516E+03	0.5	1.9	3.9	HPGe

* Master Source refers to Analytics' 8-isotope mixture which is calibrated quarterly.

Calibration Methods: 4π LS - 4 pi Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber. **Uncertainty:** U - Relative expanded uncertainty, k = 2. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results."

(Certificate continued on reverse side)

ACCREDITED SOURCE CALIBRATION LABORATORY HEALTH PHYSICS SOCIETY FOUNDED 1960

Corporate Office

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia 30318

0021

Comments:
260 mL / 260 g of pulverized soil.
This standard will expire one year after the reference date.

Source Prepared by: MITaskaeva
M. I. Taskaeva, Radiochemist

QA Approved: _____ **Date:** 1/29/10
J. D. McCorvey, QA Manager Alternate

SECTION VI

QUALITY CONTROL SAMPLE RESULTS SUMMARY

WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
10-06061	Gamma	1	pCi	g	Brown & Caldwell

Laboratory Control Sample

Analyte	Normalized Difference	LCS Measured	CSU Measured	LCS Expected	Uncert. Expected	Known	Known Error	Result	CSU	Standard ID	Standard ACT (dpm)	Standard Error	Standard Added (g)
CO-60	2.39	109.75%	7.09%	100.00%	2.84%	1.34E+02	3.81E+00	1.47E+02	1.04E+01	GAS-91	1.34E+02	3.81E+00	7.10E+02
CS-137	1.75	112.16%	12.03%	100.00%	2.80%	8.08E+01	2.26E+00	9.06E+01	1.09E+01	GAS-91	8.08E+01	2.26E+00	7.10E+02

Matrix Spike

Analyte	Normalized Difference	MS Actual % Rec	Expected MS Result	Expected MS Uncert	Actual MS Result	Actual MS CSU	Sample Result	Sample CSU	Sample Aliquot	Standard ID	Standard ACT (dpm)	Standard Error %	Standard Added (g)

Replicate Sample

Analyte	Normalized Difference	RPD	Original Result	Original CSU	Replicate Result	Replicate CSU
AC-228	1.14	13.32	1.53E+00	2.37E-01	1.34E+00	2.25E-01
BI-214	0.86	8.17	1.54E+00	2.17E-01	1.67E+00	2.06E-01
PB-212	2.45	29.68	1.37E+00	1.93E-01	1.01E+00	2.06E-01

QC Summary

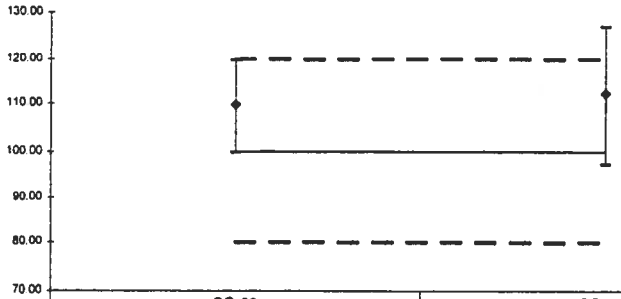
LCS Relative Bias	LCS % R	LCS ND	MS % R	MS ND	Rep RPD	Rep ND
1.10	OK	OK	<CS-137	AC-228>	OK	
1.12	OK	OK	<CO-60	BI-214>	OK	OK
				PB-212>	OK	OK

Version

0024

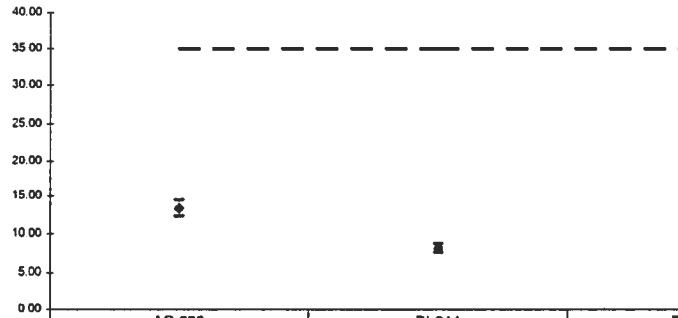
WO	Analysis	Run	Activity Units	Aliquot Units	Client Name
10-06061	Gamma	1	pCi	g	Brown & Caldwell

LCS % Recovery



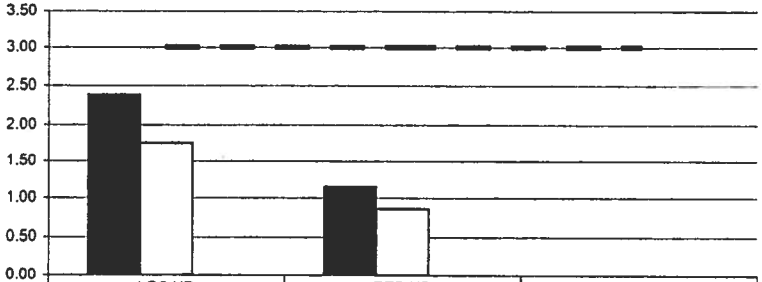
	CO-60	CS-137
Lower Error	99.82	97.34
Upper Error	119.68	126.99
%R	109.75	112.16
LCL	80	80
Mean	100	100
UCL	120	120

Replicate Sample RPD



	AC-228	BI-214	PB-212
Lower Error	14.40	8.71	32.16
Upper Error	12.25	7.63	27.19
RPD	13.32	8.17	29.68
CL	35	35	35

Normalized Difference



	LCS ND	REP ND	MS ND
CO-60	2.39	1.14	0.00
CS-137	1.75	0.86	0.00
	0.00	0.00	0.00
UCL	3	3	3

No Matrix Spike

SECTION I

CHAIN OF CUSTODY

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No. YERS 0399

10 06061

☒ 3264 Goni Road / Suite 153, Carson City, NV 89706, 775-883-4118 / FAX 775-883-5108

☐ 4425 W. Spring Mountain Road / Suite 225, Las Vegas, NV 89102, 702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 500, Phoenix, AZ 85004, 602-567-4000 / FAX 602-567-4001

PROJECT NAME: Transite Pipe Scale

PROJECT NUMBER: 138554.004

LABORATORY NAME & ADDRESS: Eberline Services, 601 Scarboro Rd, Oak Ridge, TN 37830-3849

LINE NO.	SAMPLE - I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC - REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN ---- END	PID READING (ppm)
* 01 4	S-1	6/2/10	10:20	PB	1	1 gal Ziplock	NONE	S	Ra-226, Ra-228, U, Th (Gamma spec 901.1 / HASL 300)	NA		STD	Grab	NA	550g
* 02 5	S-2		10:43	PB											200g
* 03 6	S-3		11:00	PB											325g
* 04 7	S-4		11:16	PB											1100g
* 05 8	S-5		11:32	PB											250g
06 9	S-6		11:43	PB											375g
07 10	S-7		13:00	PB											150g
11 08	S-10a		13:39	PB											425g
12 09	S-10b		13:45	PB											450g
13 10	S-11		14:00	PB											625g

* SEE NOTE *

RECEIVED JUN 14 2010 BY: KF

COLLECTED & RELEASED BY: Penny Barrett	DATE 6/7/10	TIME 09:00	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: Roxanne Barringer	DATE 6/7/10	TIME 13:25	RELINQUISHED BY: RBarringer	DATE 6/7/10	TIME 13:25	(*) - Level IV data report requested
Kevin Fox	6/14/10	1000				
						NOTE: Material may contain asbestos
RECORD RETURNED BY:	DATE / /	TIME :				
COURIER: FedEx Ground			SHIPPING NUMBER: 4131417100017 55			

DISTRIBUTION: WHITE - PROJECT FILE • CANARY - LAB RECEIPT • PINK - DATA MANAGEMENT • GOLDENROD - FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

0005

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No. VERS 0400

☒ 3264 Goni Road / Suite 153, Carson City, NV 89706, 775-883-4118 / FAX 775-883-5108

☐ 4425 W. Spring Mountain Road / Suite 225, Las Vegas, NV 89102, 702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 500, Phoenix, AZ 85004, 602-567-4000 / FAX 602-567-4001

10 06061

PROJECT NAME: Transit Pipe Scale

PROJECT NUMBER: 138554.004

LABORATORY NAME & ADDRESS: Eberline Services, 601 Scarboro Rd, Oak Ridge, TN 37830-3849

	LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN ---- END	PID READING (ppm)
14	01	S-12a	6/2/10	17:02	PB	1	1 gal ziplock	NONE	S	Ra-226, Ra-228, U, Th (Gamma spec 901.1/HASL300)	NA		STD	Grab	NA	750g
15	02	S-13		16:50											----225g	
16	03	S-15		16:30											----400g	
17	04	S-16	6/3/10	13:40											----250g	
18	05	S-17		13:52											----325g	
19	06	S-18		13:20											----375g	
20	07	S-19		14:15											----350g	
	08	S-20		14:23											----350g	
	09	S-21		10:07											----250g	
	10	S-22		11:00											----1050g	

RECEIVED JUN 14 2010 BY: KF

COLLECTED & RELEASED BY: Penny Bassett	DATE 6/7/10	TIME 09:00	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: Ryanne Barringer	DATE 6/7/10	TIME 0900	RELINQUISHED BY: R Barringer	DATE 6/7/10	TIME 1325	NOTE: Material may contain asbestos
Kevin Fox	6/14/10	1000				
RECORD RETURNED BY:	DATE / /	TIME :				
COURIER: FedEx Ground			SHIPPING NUMBER: 4131417100017 55			

DISTRIBUTION: WHITE – PROJECT FILE • CANARY – LAB RECEIPT • PINK – DATA MANAGEMENT • GOLDENROD – FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

EBERLINE SERVICES Oak Ridge Laboratory	Internal Chain of Custody	Work Order #	10-06061
		Lab Deadline	7/8/2010
		Analysis	Gamma - Level 4
		Sample Matrix	Soil/Solid

Comments	Sample Fraction	HP 210 / 270 Detector Activity	Storage Location
21 day ingrowth.	04	65	H1.3
	05	38	H1.3
	06	70	H1.3
Report Ra226/228 & U, Th series.	07	81	H1.3
	08	56	H1.3
	09	12630	ESC1.2
	10	134	H1.3
	11	63	H1.3
	12	88	H1.3
	13	71	H1.3
	14	78	H1.3
	15	320	H1.3
CAUTION: SAMPLES MAY CONTAIN ASBESTOS!!!	16	45	H1.3
	17	625	H1.3
	18	91	H1.3
	19	30	H1.3
	20	675	H1.3

	Location (circle one)					Initials	Date
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1000	Kenny Sellers	6-17-10
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room 1225	Kenny Sellers	6/8-10
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room	ICB Gelk	6/10 1220
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room	[illegible]	7/9/10 1500
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Received by	Sample Storage	Rough Prep	Prep	Separations	Count Room		
Relinquished by	Sample Storage	Rough Prep	Prep	Separations	Count Room		

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SECTION II

SAMPLE ACKNOWLEDGEMENT

Client Name	Contract/PO	Project Type	Date Received	Required Turnaround Days	Eberline Services Work Order
Brown & Caldwell	7374	Environmental	06/14/2010	28	10-06061
Project Name	**Client WO**	**Sample Disp**	**Lab Deadline**	**Internal Deadline**	**Client Deadline**
7374	Transite Pipe Scale	H	07/08/2010	07/09/2010	07/12/2010

Internal ID	Client ID	Sample Date	Matrix	Storage	Gamma	Ttl
01	LCS	06/16/10	SO	H1.3	X	1
02	BLANK	06/16/10	SO	H1.3	X	1
03	DUP	06/16/10	SO	H1.3	X	1
04	S-1	06/02/10 10:20	SO	H1.3	X	1
05	S-2	06/02/10 10:43	SO	H1.3	X	1
06	S-3	06/02/10 11:00	SO	H1.3	X	1
07	S-4	06/02/10 11:16	SO	H1.3	X	1
08	S-5	06/02/10 11:32	SO	H1.3	X	1
09	S-6	06/02/10 11:43	SO	ESC1.2	X	1
10	S-7	06/02/10 13:00	SO	H1.3	X	1
11	S-10a	06/02/10 13:39	SO	H1.3	X	1
12	S-10b	06/02/10 13:45	SO	H1.3	X	1
13	S-11	06/02/10 14:00	SO	H1.3	X	1
14	S-12a	06/02/10 17:02	SO	H1.3	X	1
15	S-13	06/02/10 16:50	SO	H1.3	X	1
16	S-15	06/02/10 16:30	SO	H1.3	X	1
17	S-16	06/03/10 13:40	SO	H1.3	X	1
18	S-17	06/03/10 13:52	SO	H1.3	X	1
19	S-18	06/03/10 13:20	SO	H1.3	X	1
20	S-19	06/03/10 14:15	SO	H1.3	X	1
		Totals Per Analysis (non QA samples)			17 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

EBERLINE SERVICES

Sample Log In Report

Oak Ridge Laboratory
601 Scarboro Rd.
Oak Ridge, TN 37830

Voice: (865) 481-0683
Fax: (865) 483-4621

Invoice	Accounts Payable Brown & Caldwell 3264 Goni Road Suite 153 Carson City, NV 89706
Voice	775-883-4118
Fax	775-883-5108
Contact	Penny Bassett
Voice	775-883-4118
Fax	775-883-5108

Report Data	Penny Bassett Brown & Caldwell 3264 Goni Road Suite 153 Carson City, NV 89706
Voice	775-883-4118
Fax	775-883-5108

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Eberline Services – Oak Ridge Laboratory

SAMPLE RECEIPT CHECKLIST
MP-001-2

WORK ORDER # 10 06061

SAMPLE MATRIX/MATRICES: (CIRCLE ONE OR BOTH)

AQUEOUS NON-AQUEOUS

(CIRCLE EITHER YES, NO, OR N/A)

WERE SAMPLES:

Received in good condition?	Y	N	
If aqueous, properly preserved	Y	N	N/A

WERE CHAIN OF CUSTODY SEALS:

Present on outside of package?	Y	N
Unbroken on outside of package?	Y	N
Present on samples?	Y	N
Unbroken on samples?	Y	N
Was chain of custody present upon sample receipt?	Y	N

IF THE RESPONSE TO ANY OF THE ABOVE IS **NO**, A DISCREPANT SAMPLE RECEIPT REPORT (DSR) HAS BEEN ISSUED.

REMARKS: 17 solids in ziplock bags

SIGNATURE: [signature] DATE: 6-15-10