



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

June 13, 2007

Entrix, Inc
Brian Frantz
590 Ygnacio Valley Road
Walnut Creek, CA 94596

RE: Brooks Rand Project: ENX002; Report #: 07BR0665 & 07BR0671

Dear Mr. Frantz,

Two containers were received by Brooks Rand Labs (BRL) on May 16, 2007 and eighteen containers were received on May 17, 2007. The requested analyses listed on the chain of custody (COC) forms were for total mercury (THg), and trace metals including arsenic (As), cadmium (Cd), chromium (Cr), copper (Cu), iron (Fe), nickel (Ni), magnesium (Mg) and lead (Pb). The samples were received, stored, prepared, and analyzed according to BRL standard operating procedures (SOPs) and EPA Methods 1631 and 1638. All samples were stored in a cabinet in a locked storage room until further processing. The sample labels for "SFLC-2-RM 2.0" and "SFLC-2 RM 2.0 QC" did not match the COC form. These samples were logged in as listed on the COC form. Please refer to the Sample Receiving Log for additional information. The water samples were field filtered by the client through pre-cleaned 0.45- μ m filtration units.

Sample results may have been evaluated using detection limits that have been adjusted to account for sample aliquot size; please refer to the Quality Assurance (QA) Summaries for a list of the sample specific method detection limits (MDLs)/practical quantitation limits (PQLs) and QA results. Results less than or equal to the MDL have been qualified "U" for non-detect and have been reported at the client requested reporting limit (CRRL). Results above the MDL and less than or equal to the PQL have been qualified "B" and should be considered estimates. Sample results were blank corrected as specified in the calculations sections of the SOP. Due to a previous contamination issue, the certified reference material (CRM) NIST 1643e is no longer certified for Fe, therefore the Fe recoveries are not applicable. All other QA criteria were met and no additional qualification was required.

If you have any questions regarding this report, please feel free to contact us at any time.

Sincerely,

Amanda Fawley
Project Manager
amanda@brooksrand.com

Amy Durdle
Project Coordinator
amy@brooksrand.com

Reported by
Brooks Rand LLC

Contact: Amanda Fawley
3958 6th Avenue NW
Seattle, WA 98107
Tel: 206-632-6206 Fax: 206-632-6017

Summary of Results for
Entrix, Inc.
Contact: Brian Frantz
590 Ygnacio Valley Road
Walnut Creek CA 94596
Tel: 925-988-1217

Lab Project # ENX002
Lab Tracking # 07BR0665

Lab Services Agreement ENX002

Sample/Sampling/Receiving Info

Entrix, Inc.

BRL

Sample Identification	Sampling Date	Matrix	Submatrix	Sample Number	Receiving Date
MFAR-10 RM9.0	5/14/2007	Water		07BR0665 - 01	5/16/2007
MFAR-10 RM9.0	5/14/2007	Water		07BR0665 - 02	5/16/2007

Wednesday, June 13, 2007


Project Manager

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3958 6th Avenue NW
Seattle, WA 98107

Tel: 206-632-6206 Fax: 206-632-6017

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Lab Project # ENX002

Lab Tracking # 07BR0665

Lab Services Agreement ENX002

As

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.220	µg/L	

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Lab Project # ENX002

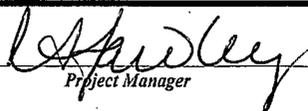
Lab Tracking # 07BR0665

Lab Services Agreement ENX002

Cd

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U

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3958 6th Avenue NW
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Lab Tracking # 07BR0665

Lab Services Agreement ENX002

Cr

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U

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Lab Project # ENX002

Lab Tracking # 07BR0665

Lab Services Agreement ENX002

Cu

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.410	µg/L	

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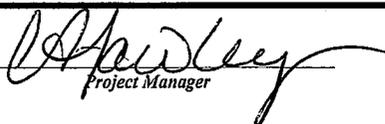
Lab Project # ENX002
Lab Tracking # 07BR0665

Lab Services Agreement ENX002

Fe

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	8.200	µg/L	

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Lab Tracking # 07BR0665

Lab Services Agreement ENX002

Mg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	1,200.000	µg/L	

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Lab Project # ENX002

Lab Tracking # 07BR0665

Lab Services Agreement ENX002

Ni

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.230	µg/L	

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Lab Project # ENX002

Lab Tracking # 07BR0665

Lab Services Agreement ENX002

Pb

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 02	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U

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Lab Project # ENX002
Lab Tracking # 07BR0665

Lab Services Agreement ENX002

Hg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-10 RM9.0	07BR0665 - 01	T	5/21/2007	5/24/2007	07-0524	0.850	ng/L	

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Lab Project # ENX002

Lab Tracking # 07BR0671

Lab Services Agreement ENX002

Sample/Sampling/Receiving Info

Entrix, Inc.

BRL

Sample Identification	Sampling Date	Matrix	Submatrix	Sample Number	Receiving Date
LCC-1 RM 0.0	5/15/2007	Water		07BR0671 - 01	5/17/2007
SFLC -3	5/15/2007	Water		07BR0671 - 03	5/17/2007
NFLC - 3	5/15/2007	Water		07BR0671 - 05	5/17/2007
SFLC -1 RM 2.0	5/15/2007	Water		07BR0671 - 06	5/17/2007
SFLC -2 RM 2.0	5/15/2007	Water		07BR0671 - 08	5/17/2007
NFLC-1 RM 2.5	5/15/2007	Water		07BR0671 - 10	5/17/2007
NFLC-1 RM 3.0	5/15/2007	Water		07BR0671 - 11	5/17/2007
LLC-1 RM 0.0	5/15/2007	Water		07BR0671 - 12	5/17/2007
SFLC-3	5/15/2007	Water		07BR0671 - 13	5/17/2007
NFLC-3	5/15/2007	Water		07BR0671 - 14	5/17/2007
SFLC-1 RM 2.0	5/15/2007	Water		07BR0671 - 15	5/17/2007
SFLC-2 RM 2.0	5/15/2007	Water		07BR0671 - 16	5/17/2007
NFLC-1 RM 2.5	5/15/2007	Water		07BR0671 - 17	5/17/2007
NFLC-2 RM 3.0	5/15/2007	Water		07BR0671 - 18	5/17/2007

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Lab Services Agreement ENX002

As

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.140	µg/L	B
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.140	µg/L	B
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.150	µg/L	B
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.080	µg/L	B
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.090	µg/L	B
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.060	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.070	µg/L	B

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Lab Services Agreement ENX002

Cd

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.004	µg/L	U

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Lab Project # ENX002
Lab Tracking # 07BR0671

Lab Services Agreement ENX002

Cr

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.030	µg/L	U

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Lab Project # ENX002
Lab Tracking # 07BR0671

Lab Services Agreement ENX002

Cu

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.150	µg/L	B
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.130	µg/L	B
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.200	µg/L	B
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.100	µg/L	B
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.110	µg/L	B
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.100	µg/L	B
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.090	µg/L	B

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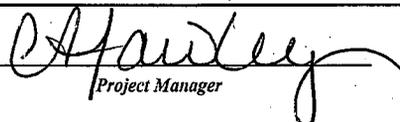
Lab Project # ENX002
Lab Tracking # 07BR0671

Lab Services Agreement ENX002

Fe

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	3.600	µg/L	B
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	1.400	µg/L	U
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	9.100	µg/L	U
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	1.400	µg/L	U
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	3.100	µg/L	B
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	1.400	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	1.400	µg/L	U

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Lab Services Agreement ENX002

Hg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LCC-1 RM 0.0	07BR0671 - 01	T	5/21/2007	5/24/2007	07-0524	0.750	ng/L	
SFLC -3	07BR0671 - 03	T	5/21/2007	5/24/2007	07-0524	0.440	ng/L	
NFLC - 3	07BR0671 - 05	T	5/21/2007	5/24/2007	07-0524	1.010	ng/L	
SFLC -1 RM 2.0	07BR0671 - 06	T	5/21/2007	5/24/2007	07-0524	0.310	ng/L	B
SFLC -2 RM 2.0	07BR0671 - 08	T	5/21/2007	5/24/2007	07-0524	0.430	ng/L	
NFLC-1 RM 2.5	07BR0671 - 10	T	5/21/2007	5/24/2007	07-0524	0.610	ng/L	
NFLC-1 RM 3.0	07BR0671 - 11	T	5/21/2007	5/24/2007	07-0524	0.770	ng/L	

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Lab Services Agreement ENX002

Mg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	805.000	µg/L	
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	841.000	µg/L	
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	816.000	µg/L	
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	910.000	µg/L	
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	927.000	µg/L	
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	763.000	µg/L	
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	771.000	µg/L	

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Lab Services Agreement ENX002

Ni

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LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.050	µg/L	B
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.040	µg/L	U

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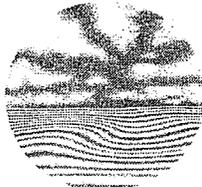
Pb

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
LLC-1 RM 0.0	07BR0671 - 12	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
SFLC-3	07BR0671 - 13	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
NFLC-3	07BR0671 - 14	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
SFLC-1 RM 2.0	07BR0671 - 15	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
SFLC-2 RM 2.0	07BR0671 - 16	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
NFLC-1 RM 2.5	07BR0671 - 17	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U
NFLC-2 RM 3.0	07BR0671 - 18	D	5/17/2007	5/24/2007	07-0520	0.010	µg/L	U

Wednesday, June 13, 2007


Project Manager

QUALITY ASSURANCE SUMMARY



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

3958 6th Avenue NW
Seattle, WA 98107
Voice: 206-632-6206
Fax: 206-632-6017

Batch #: 07-0520

Method #: EPA 1638 Mod. (ICP-MS)

Analyte: Trace Metals

Matrix: Water

BIAS Criterion: Recovery = 85-115%
Independent Calibration Verification (ICV)

Analyte	Certified Value µg/L	Measured Value µg/L	Recovery %
Mg	50.00	51.34	103%
Cr	50.00	51.02	102%
Fe	50.0	50.7	101%
Ni	50.00	53.78	108%
Cu	50.00	49.41	99%
As	50.00	47.66	95%
Cd	5.000	4.747	95%
Pb	5.000	4.775	96%

BIAS Criteria: Recovery = 75-125%
Certified Reference Materials (CRM)

Analyte	NIST 1640			NIST 1643e		
	Certified Value µg/L	Measured Value µg/L	Recovery %	Certified Value µg/L	Measured Value µg/L	Recovery %
Mg	5819	6029	104%	8037	8287	103%
Cr	38.6	37.5	97%	20.4	21.2	104%
Fe	34.3	34.7	101%	98.1	138.9	N/A
Ni	27.4	28.7	105%	62.41	63.53	102%
Cu	85.2	86.7	102%	22.76	22.49	99%
As	26.67	25.80	97%	60.45	53.54	89%
Cd	22.79	22.98	101%	6.568	6.437	98%
Pb	27.89	28.81	103%	19.63	18.67	95%

BIAS Criteria: Recovery = 75-125%, RPD ≤25%
Sample 07BR0665-02 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)

Analyte	Sample Value µg/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value µg/L	Measured Value µg/L	MS Recovery %	Spiked Value µg/L	Measured Value µg/L	MSD Recovery %	
Mg	1204	2000	3365	108%	2000	3277	104%	3%
Cr	0.03	25.00	24.67	99%	25.00	23.69	95%	4%
Fe	8.2	500.0	489.4	96%	500.0	471.3	93%	4%
Ni	0.23	10.00	10.23	100%	10.00	9.88	97%	3%
Cu	0.41	10.00	10.60	102%	10.00	10.36	100%	2%
As	0.22	10.00	11.34	111%	10.00	11.02	108%	3%
Cd	0.002	1.000	1.022	102%	1.000	0.984	98%	4%
Pb	-0.007	5.000	5.084	102%	5.000	4.930	99%	3%

Nicole C. Mead
Quality Assurance Officer

P. Hawley
Project Manager

QUALITY ASSURANCE SUMMARY

Batch #: 07-0520

Method #: EPA 1638 Mod. (ICP-MS)

Analyte: Trace Metals

Matrix: Water

Criteria: Recovery = 75-125%, RPD ≤25%

BIAS
Sample 07BR0671-14 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)

Analyte	Sample Value µg/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value µg/L	Measured Value µg/L	MS Recovery %	Spiked Value µg/L	Measured Value µg/L	MSD Recovery %	
Mg	815.9	2000	2891	104%	2000	2854	102%	1%
Cr	-0.07	25.00	24.55	98%	25.00	24.75	99%	1%
Fe	9.1	500.0	502.8	99%	500.0	504.3	99%	0%
Ni	0.05	10.00	10.03	100%	10.00	10.16	101%	1%
Cu	0.20	10.00	10.67	105%	10.00	10.48	103%	2%
As	0.15	10.00	11.37	112%	10.00	11.29	111%	1%
Cd	0.001	1.000	1.066	107%	1.000	1.040	104%	2%
Pb	-0.005	5.000	5.479	110%	5.000	5.464	109%	0%

Criteria: RPD ≤25% or results +/-PQL if ≤5x PQL

PRECISION
Sample 07BR0665-02 Method Duplicate Analysis (MD)

Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	1204	1234	1219	2%
Cr	0.03	0.01	0.02	***
Fe	8.2	8.3	8.3	***
Ni	0.23	0.24	0.24	***
Cu	0.41	0.34	0.37	***
As	0.22	0.23	0.23	***
Cd	0.002	0.002	0.002	***
Pb	-0.007	-0.008	-0.007	***

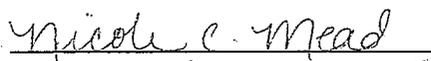
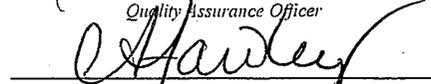
*** Results are less than 5x the PQL and within one PQL of each other, satisfying the secondary acceptance criteria.

Criteria: RPD ≤25% or results +/-PQL if ≤5x PQL

PRECISION
Sample 07BR0617-14 Method Duplicate Analysis (MD)

Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	815.9	831.8	823.9	2%
Cr	-0.07	-0.09	-0.08	***
Fe	9.1	9.9	9.5	***
Ni	0.05	0.04	0.04	***
Cu	0.20	0.18	0.19	***
As	0.15	0.15	0.15	***
Cd	0.001	0.001	0.001	***
Pb	-0.005	-0.004	-0.005	***

*** Results are less than 5x the PQL and within one PQL of each other, satisfying the secondary acceptance criteria.


 Nicole C. Mead
 Quality Assurance Officer

 J. Hawley
 Project Manager

QUALITY ASSURANCE SUMMARY

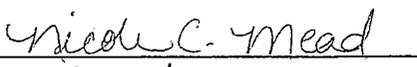
Batch #: 07-0520

Method #: EPA 1638 Mod. (ICP-MS)

Analyte: Trace Metals

Matrix: Water

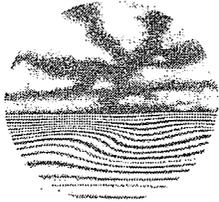
Method Blanks (MB)							Method Detection Limits	
<i>Criteria: Avg. ≤ PQL and StDev ≤ MDL or < 1/10th sample result</i>								
Analyte	MB1 µg/L	MB2 µg/L	MB3 µg/L	MB4 µg/L	Average µg/L	StDev µg/L	MDL µg/L	PQL µg/L
Mg	-0.18	-0.14	-0.17	-0.15	-0.16	0.02	0.60	3.00
Cr	0.00	-0.02	-0.02	-0.04	-0.02	0.01	0.03	0.15
Fe	0.8	0.6	0.4	0.3	0.5	0.2	1.4	5.0
Ni	0.00	-0.01	0.00	-0.01	0.00	0.00	0.04	0.20
Cu	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.20
As	-0.01	-0.01	0.00	-0.02	-0.01	0.01	0.06	0.20
Cd	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.010
Pb	0.015	0.023	0.007	0.006	0.013	0.008	0.010	0.050



 Quality Assurance Officer


 Project Manager

QUALITY ASSURANCE SUMMARY



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

3958 6th Avenue NW

Seattle, WA 98107

Voice: 206-632-6206

Fax: 206-632-6017

Batch #: 07-0524

Method #: EPA 1631E

Analyte: Hg

Matrix: Water

BIAS Criterion: Recovery = 77-123%			
Continuing Calibration Verification (CCV)			
<i>QCS ID</i>	<i>Certified Value</i> ng/L	<i>Measured Value</i> ng/L	<i>Recovery</i> %
CCV1	5.00	5.10	102%
CCV2	5.00	4.95	99%
CCV3	5.00	4.97	99%

BIAS Criterion: Recovery = 85-115%			
Independent Calibration Verification (ICV)			
<i>QCS ID</i>	<i>Certified Value</i> ng/L	<i>Measured Value</i> ng/L	<i>Recovery</i> %
ICV*	16.01	16.01	100%

* Preparation of the CRM NIST 1641d.

BIAS Criteria: Recovery = 71-125%, RPD ≤ 24%								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
<i>Sample ID</i>	<i>Sample Value</i> ng/L	<i>Matrix Spike</i>			<i>Matrix Spike Duplicate</i>			<i>Duplicate RPD</i>
		<i>Spiked Value</i> ng/L	<i>Measured Value</i> ng/L	<i>MS Recovery</i> %	<i>Spiked Value</i> ng/L	<i>Measured Value</i> ng/L	<i>MSD Recovery</i> %	
07BR0667-04	66.2	183.5	242.9	96%	195.1	262.4	101%	8%
07BR0666-01	8.51	19.95	27.18	94%	20.15	28.65	100%	5%

1.0% BrCl Method Blanks (MB) Criterion: MB < 0.5 ng/L						Detection Limits	
<i>MB1</i> ng/L	<i>MB2</i> ng/L	<i>MB3</i> ng/L	<i>MB4</i> ng/L	<i>Average</i> ng/L	<i>StDev</i> ng/L	<i>MB MDL</i> ng/L	<i>MB PQL</i> ng/L
0.02	0.01	-0.02	-0.01	0.00	0.02	0.15	0.40

1% BrCl MB prepared in quadruplicate.

Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

Sample Specific Detection Limits		
<i>Sample ID</i>	<i>MDL</i> ng/L	<i>PQL</i> ng/L
07BR0666-01	0.59	1.58
07BR0667-01	0.59	1.57
07BR0667-02	2.7	7.2
07BR0667-03	3.0	8.1
07BR0667-04	2.9	7.8

Sample Specific Detection Limits		
<i>Sample ID</i>	<i>MDL</i> ng/L	<i>PQL</i> ng/L
07BR0667-05	2.4	6.5
07BR0667-06	2.9	7.6
07BR0667-08	2.7	7.1
07BR0671-05	0.30	0.80

Nicole C. Mead
Quality Assurance Officer

D. Hawley
Project Manager



Sample Receiving Log

Tracking # **07BR0665**

Customer: Entrix, Inc.
Contact: Brian Frantz
Project Ref. #: ENX002

BRL Project Manager: Amanda Fawley

QA Level Standard

Sample Condition Intact

Shipping container intact? Yes

Shipping container type: Cooler

Shipping container temp: 3.4 °C

Shipping container coolant: Ice

Sample Turnaround Time:

Contract Turnaround Time: 28 days

Comments:

Due Date: 6/13/2007
Receiving Date: 5/16/2007
Receiving Time: 8:30 AM
Logged-in by: Carolyn Rosevelt
Log-in Date: 5/16/2007
Log-in Time: 12:15 PM

Airbill present? Yes
Airbill # 857329317458
Courier: FedEx

Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC/Sample tag agree? Yes

COC Number: N/A

Lab ID:

01	Sample Tag #: MFAR-10 RM9.0	Matrix/Sub-Matrix: Water,
Collection Date/Time: 5/14/2007, 3:50:00 PM		Preservation: None
ContainerType and Lot #: FLPE bottle, 06-351		Acid Lot#: N/A
Size: 250-mL		pH: Filtered?: No
	Sample Storage Location: Cabinet #4	

Comments:

Analysis / Method: Hg EPA 1631

02	Sample Tag #: MFAR-10 RM9.0	Matrix/Sub-Matrix: Water,
Collection Date/Time: 5/14/2007, 3:50:00 PM		Preservation: None
ContainerType and Lot #: HDPE bottle, 07-097		Acid Lot#: N/A
Size: 250-mL		pH: Filtered?: Yes
	Sample Storage Location: Cabinet #4	

Comments:

Analysis / Method: As	EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cd	EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cr	EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cu	EPA 1638 Mod. (ICP-MS)
Analysis / Method: Fe	EPA 1638 Mod. (ICP-MS)
Analysis / Method: Mg	EPA 1638 Mod. (ICP-MS)
Analysis / Method: Ni	EPA 1638 Mod. (ICP-MS)
Analysis / Method: Pb	EPA 1638 Mod. (ICP-MS)

Lab ID:

Admiral 5/17/07 updated
Sample Custodian signature Date

Admiral 5/25/07
Reviewed By signature Date



Sample Receiving Log

Tracking # **07BR0671**

Customer: Entrix, Inc.
Contact: Brian Frantz
Project Ref. #: ENX002

BRL Project Manager: Amanda Fawley

Due Date: 6/14/2007
Receiving Date: 5/17/2007
Receiving Time: 8:30 AM
Logged-in by: Katie Jahanmir
Log-in Date: 5/17/2007
Log-in Time: 10:45 AM

QA Level Standard
Sample Condition Intact
Shipping container intact? Yes
Shipping container type: Cooler
Shipping container temp: 3.2 C
Shipping container coolant: Ice

Sample Turnaround Time:
Contract Turnaround Time: 28 days

Airbill present? Yes
Airbill # 857329316966
Courier: FedEx
Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC/Sample tag agree? No
COC Number: N/A

Comments: Samples labeled "SFLC-2 RM 2.0" and "SFLC-2 RM 2.0 QC" on the COC do not match the sample tags. Sample tags say ""SFLC-2 RM 2.5" and "SFLC-2 RM 2.5 QC". Samples logged in as on COC.

Lab ID:

01 Matrix/Sub-Matrix: Water,
Sample Tag #: LCC-1 RM 0.0 Preservation: none
Collection Date/Time: 5/15/2007, 8:50:00 AM Acid Lot#: n/a
ContainerType and Lot #: FLPE bottle, 06-325 pH: Filtered?: No
Size: 500-mL Sample Storage Location: Cabinet #4

Comments: Extra Volume stored with sample

Analysis / Method: Hg EPA 1631

03 Matrix/Sub-Matrix: Water,
Sample Tag #: SFLC -3 Preservation: none
Collection Date/Time: 5/15/2007, 9:30:00 AM Acid Lot#: n/a
ContainerType and Lot #: FLPE bottle, 06-351 pH: Filtered?: No
Size: 250-mL Sample Storage Location: Cabinet #4

Comments: Extra Volume stored with sample

Analysis / Method: Hg EPA 1631

05 Matrix/Sub-Matrix: Water,
Sample Tag #: NFLC - 3 Preservation: none
Collection Date/Time: 5/15/2007, 10:20:00 AM Acid Lot#: n/a
ContainerType and Lot #: FLPE bottle, 06-351 pH: Filtered?: No
Size: 250-mL Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg EPA 1631

Lab ID:

13
Sample Tag #: SFLC-3
Collection Date/Time: 5/15/2007, 9:30:00 AM
ContainerType and Lot #: HDPE bottle, 07-097
Size: 250-mL

Matrix/Sub-Matrix: Water,
Preservation: none
Acid Lot#: n/a
pH:
Filtered?: Yes
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cd EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cr EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cu EPA 1638 Mod. (ICP-MS)
Analysis / Method: Fe EPA 1638 Mod. (ICP-MS)
Analysis / Method: Mg EPA 1638 Mod. (ICP-MS)
Analysis / Method: Ni EPA 1638 Mod. (ICP-MS)
Analysis / Method: Pb EPA 1638 Mod. (ICP-MS)

14
Sample Tag #: NFLC-3
Collection Date/Time: 5/15/2007, 10:20:00 AM
ContainerType and Lot #: HDPE bottle, 07-097
Size: 250-mL

Matrix/Sub-Matrix: Water,
Preservation: none
Acid Lot#: n/a
pH:
Filtered?: Yes
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cd EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cr EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cu EPA 1638 Mod. (ICP-MS)
Analysis / Method: Fe EPA 1638 Mod. (ICP-MS)
Analysis / Method: Mg EPA 1638 Mod. (ICP-MS)
Analysis / Method: Ni EPA 1638 Mod. (ICP-MS)
Analysis / Method: Pb EPA 1638 Mod. (ICP-MS)

15
Sample Tag #: SFLC-1 RM 2.0
Collection Date/Time: 5/15/2007, 11:30:00 AM
ContainerType and Lot #: HDPE bottle, 07-097
Size: 250-mL

Matrix/Sub-Matrix: Water,
Preservation: none
Acid Lot#: n/a
pH:
Filtered?: Yes
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cd EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cr EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cu EPA 1638 Mod. (ICP-MS)
Analysis / Method: Fe EPA 1638 Mod. (ICP-MS)
Analysis / Method: Mg EPA 1638 Mod. (ICP-MS)
Analysis / Method: Ni EPA 1638 Mod. (ICP-MS)
Analysis / Method: Pb EPA 1638 Mod. (ICP-MS)

16
Sample Tag #: SFLC-2 RM 2.0
Collection Date/Time: 5/15/2007, 11:55:00 AM
ContainerType and Lot #: HDPE bottle, 07-097
Size: 250-mL

Matrix/Sub-Matrix: Water,
Preservation: none
Acid Lot#: n/a
pH:
Filtered?: Yes
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As EPA 1638 Mod. (ICP-MS)

Lab ID:

Analysis / Method: Cd EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cr EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cu EPA 1638 Mod. (ICP-MS)
Analysis / Method: Fe EPA 1638 Mod. (ICP-MS)
Analysis / Method: Mg EPA 1638 Mod. (ICP-MS)
Analysis / Method: Ni EPA 1638 Mod. (ICP-MS)
Analysis / Method: Pb EPA 1638 Mod. (ICP-MS)

17

Sample Tag #: NFLC-1 RM 2.5
Collection Date/Time: 5/15/2007, 1:30:00 PM
ContainerType and Lot #: HDPE bottle, 07-097
Size: 250-mL

Matrix/Sub-Matrix: Water,
Preservation: none
Acid Lot#: n/a
pH: Filtered?: Yes
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cd EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cr EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cu EPA 1638 Mod. (ICP-MS)
Analysis / Method: Fe EPA 1638 Mod. (ICP-MS)
Analysis / Method: Mg EPA 1638 Mod. (ICP-MS)
Analysis / Method: Ni EPA 1638 Mod. (ICP-MS)
Analysis / Method: Pb EPA 1638 Mod. (ICP-MS)

18

Sample Tag #: NFLC-2 RM 3.0
Collection Date/Time: 5/15/2007, 2:10:00 PM
ContainerType and Lot #: HDPE bottle, 07-097
Size: 250-mL

Matrix/Sub-Matrix: Water,
Preservation: none
Acid Lot#: n/a
pH: Filtered?: Yes
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: As EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cd EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cr EPA 1638 Mod. (ICP-MS)
Analysis / Method: Cu EPA 1638 Mod. (ICP-MS)
Analysis / Method: Fe EPA 1638 Mod. (ICP-MS)
Analysis / Method: Mg EPA 1638 Mod. (ICP-MS)
Analysis / Method: Ni EPA 1638 Mod. (ICP-MS)
Analysis / Method: Pb EPA 1638 Mod. (ICP-MS)

A. Hawley 5/18/07 updated
Sample Custodian signature Date
A. Hawley 5/18/07
Reviewed By signature Date



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

Chain Of Custody Record

Page 1 of 1
White: LAB COPY
Yellow: CUSTOMER COPY

Client: **ENTRIX**
 Contact: **BRIAN FRANTZ**
 Address: **590 Yonacio Valley rd, Ste 200 Walnut Creek, CA 94596**
 Phone #: **925-935-9920**
 PO #:

COC receipt confirmation? (Y/N) **(N)**
 If yes, by Fax / Email (circle one)
 Fax #: **925-935-5368**
 Email:

Ship to: **Brooks Rand LLC**
3958 6th Avenue NW
Seattle, WA 98107
 Phone: **206-632-6206**
 Fax: **206-632-6017**
 Email: **samples@brooksrand.com**
www.brooksrand.com

Sampler's name: **C. Dayde J Admin**
 Client project ID: **ENTRIX**
 BRL project ID: **ENX002**

Sample ID	Collection		Miscellaneous			Field Preservation			Analyses required						Comments				
	Date	Time	Sampler (Initials)	Matrix type	# of containers	Sample field filtered (Y/N)	Unpreserved / ice only	HCl/HNO ₃ /BrCl (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)	% Solids		Filtration	Other (specify) <i>Pb, Cu, Cr, Ni, Fe, Mg, Mn</i>	Other (specify)	Other (specify)
1	5/14/07	15:50	COJA	H ₂ O	1	N	X			X									
2	5/14/07	15:50	COJA	H ₂ O	1	Y	X												
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: *Andrew* Date: **5/14/07** Time: **18:00**
 Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____
 Received at BRL by: _____ Date: **5/14/07** Time: **08:30**
 BRL Tracking #: **01BKR0665**

Shipping carrier: _____ # of coolers: _____



Chain Of Custody Record

Client: ENTRIX	COC receipt confirmation? (Y/N) If yes, by Fax / Email (circle one)	Ship to: Brooks Rand LLC
Contact: BRIAN FRANTZ	Fax #:	3958 6 th Avenue NW
Address: 590 YONAGO VALLEY RD STE 200 WALNUT CREEK, CA 94596	Email:	Seattle, WA 98107
Phone #: 925-935-9920	Sampler's name: C. Dayde J Aldrich	Phone: 206-632-6206
PO #:	Client project ID: ENX002	Fax: 206-632-6017
	BRL project ID: ENX002	Email: samples@brookstrand.com
		www.brookstrand.com

Sample ID	Collection		Miscellaneous			Field Preservation			Analyses required							Comments			
	Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered (Y/N)	Unpreserved / ice only	HCl/HNO ₃ /BCl (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)	% Solids	Filtration		Other As Cd Cr Cu Fe Ni Hg Pb (specify)	Other (specify)	Other (specify)
1	5/15/07	8:50	CDJA	H ₂ O	2		X			X						X			
2	5/15	8:50	CDJA	H ₂ O	1	N	X			X						X			
3	5/15	9:30	CDJA	H ₂ O	2		X			X						X			
4	5/15	9:30	CDJA	H ₂ O	1		X			X						X			
5	5/15	10:20	CDJA	H ₂ O	2		X			X						X			
6	5/15	11:20	CDJA	H ₂ O	2		X			X						X			
7	5/15	11:30	CDJA	H ₂ O	1		X			X						X			
8	5/15	11:55	CDJA	H ₂ O	2		X			X						X			
9	5/15	11:55	CDJA	H ₂ O	1		X			X						X			
10	5/15	13:25	CDJA	H ₂ O	2		X			X						X			

Relinquished by: <i>CDJA</i>	Date: 5/15/07	Time: 17:30	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL by: <i>[Signature]</i>	Date: 5/17/07	Time: 0830
Shipping carrier:	# of coolers:		BRL Tracking #:	07PR0671	



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

Chain Of Custody Record

Client: ENTRIX	COC receipt confirmation? (Y/N) If yes, by Fax / Email (circle one)	Ship to: Brooks Rand LLC
Contact: BRIAN FRANTZ	Fax #:	3958 6 th Avenue NW
Address: 590 YONAGO VALLEY RD STE 200 WALNUT CREEK, CA 94596	Email:	Seattle, WA 98107
Phone #: 925-935-9920	Sampler's name: C. Dayde J Aldrin	Phone: 206-632-6206
PO #:	Client project ID: ENX002	Fax: 206-632-6017
	BRL project ID: ENX002	Email: samples@brookstrand.com
		www.brookstrand.com

Sample ID	Collection		Miscellaneous			Field Preservation			Analyses required						Comments					
	Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered (Y/N)	Unpreserved / ice only	HCl/HNO ₃ /BrCl (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)	% Solids		Filtration	Other (specify)	Other (specify)	Other (specify)	
1	NFLC-2.RT3.0	07/15	14:10	CDJA	H ₂ O	2	X			X						X	As Cd Cr Cu Fe Mn Ni Pb			
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: C. Dayde	Date: 5/15/07	Time: 5:30 pm	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at BRL by: [Signature]	Date: 5/17/07	Time: 08:30
Shipping carrier:	# of coolers:		BRL Tracking #:	07B80671	