



**BROOKSRAND**  
TRACE METALS ANALYSIS & PRODUCTS

June 19, 2007

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

RE: Brooks Rand Project: ENX002; Report #: 07BR0714 & 07BR0741

Dear Mr. Frantz,

Thirty containers were received by Brooks Rand Labs (BRL) on May 24, 2007 and were assigned the BRL internal tracking number 07BR0714. Another ten containers, including two field blanks, were received on May 25, 2007 and were assigned the BRL internal tracking number 07BR0741. 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). All sample tags matched the IDs listed on the COC form with exception to sample "RR-4 RM 22.5". This sample was logged in according to the label listed on the COC form. Additionally, sample collection dates were not provided for samples in tracking number 07BR0741.

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 water samples were field filtered by the client through pre-cleaned 0.45- $\mu$ m filtration units. Please refer to the Quality Assurance (QA) Summaries for QA results.

The Cu, Mg, and Hg concentrations in the "Field Blank 2" (07BR0741-04) sample were above the method detection limit (MDL) and below the practical quantitation limit (PQL). Although these results were above the MDL, they are unquantifiable and are not representative of any contamination in the associated samples.

Results less than or equal to the MDL have been qualified "U" for non-detect and have been reported at the MDL. Results above the MDL and less than or equal to the PQL have been qualified "B" and should be considered estimates. All QA criteria were met. No additional qualification of the data 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

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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 # 07BR0714

Lab Services Agreement ENX002

**Sample/Sampling/Receiving Info**

*Entrix, Inc.*

*BRL*

Sample Identification	Sampling Date	Matrix	Submatrix	Sample Number	Receiving Date
MFAR-7 RM 26.0	5/22/2007	Water		07BR0714 - 01	5/24/2007
DC-1 RM 8.5	5/22/2007	Water		07BR0714 - 02	5/24/2007
DC-2 RM 8.0	5/22/2007	Water		07BR0714 - 03	5/24/2007
MFAR-1 RM 51.5	5/22/2007	Water		07BR0714 - 04	5/24/2007
MFAR-2 RM 46.5	5/22/2007	Water		07BR0714 - 05	5/24/2007
RR-2B	5/22/2007	Water		07BR0714 - 06	5/24/2007
RR-2 EC	5/22/2007	Water		07BR0714 - 07	5/24/2007
RR-2 DEC	5/22/2007	Water		07BR0714 - 08	5/24/2007
RR-2A	5/22/2007	Water		07BR0714 - 09	5/24/2007
HH-2	5/22/2007	Water		07BR0714 - 10	5/24/2007
HH-2 (S)	5/22/2007	Water		07BR0714 - 11	5/24/2007
HH-3	5/22/2007	Water		07BR0714 - 12	5/24/2007
HH-3 (S)	5/22/2007	Water		07BR0714 - 13	5/24/2007
HH-1	5/22/2007	Water		07BR0714 - 14	5/24/2007
HH-1 (S)	5/22/2007	Water		07BR0714 - 15	5/24/2007
MFAR-7 RM 26.0	5/22/2007	Water		07BR0714 - 16	5/24/2007
DC-1 RM 8.5	5/22/2007	Water		07BR0714 - 17	5/24/2007
DC-2 RM 8.0	5/22/2007	Water		07BR0714 - 18	5/24/2007
MFAR-1 RM 51.5	5/22/2007	Water		07BR0714 - 19	5/24/2007
MFAR-2 RM 46.5	5/22/2007	Water		07BR0714 - 20	5/24/2007
RR-2B	5/22/2007	Water		07BR0714 - 21	5/24/2007
RR-2 EC	5/22/2007	Water		07BR0714 - 22	5/24/2007
RR-2 DEC	5/22/2007	Water		07BR0714 - 23	5/24/2007
RR-2A	5/22/2007	Water		07BR0714 - 24	5/24/2007
HH-2	5/22/2007	Water		07BR0714 - 25	5/24/2007
HH-2 (S)	5/22/2007	Water		07BR0714 - 26	5/24/2007
HH-3	5/22/2007	Water		07BR0714 - 27	5/24/2007
HH-3 (S)	5/22/2007	Water		07BR0714 - 28	5/24/2007
HH-1	5/22/2007	Water		07BR0714 - 29	5/24/2007
HH-1 (S)	5/22/2007	Water		07BR0714 - 30	5/24/2007

Monday, June 18, 2007

*A. Fawley*  
Project Manager

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Lab Tracking # 07BR0714

Lab Services Agreement ENX002

**As**

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-7 RM 26.0	07BR0714 - 16	D	5/29/2007	6/4/2007	07-0534	0.230	µg/L	
DC-1 RM 8.5	07BR0714 - 17	D	5/29/2007	6/4/2007	07-0534	0.060	µg/L	U
DC-2 RM 8.0	07BR0714 - 18	D	5/29/2007	6/4/2007	07-0534	0.060	µg/L	U
MFAR-1 RM 51.5	07BR0714 - 19	D	5/29/2007	6/4/2007	07-0534	0.090	µg/L	B
MFAR-2 RM 46.5	07BR0714 - 20	D	5/29/2007	6/4/2007	07-0534	0.130	µg/L	B
RR-2B	07BR0714 - 21	D	5/29/2007	6/4/2007	07-0534	0.210	µg/L	
RR-2 EC	07BR0714 - 22	D	5/29/2007	6/4/2007	07-0534	0.060	µg/L	U
RR-2 DEC	07BR0714 - 23	D	5/29/2007	6/4/2007	07-0534	0.230	µg/L	
RR-2A	07BR0714 - 24	D	5/29/2007	6/4/2007	07-0534	0.210	µg/L	
HH-2	07BR0714 - 25	D	5/29/2007	6/4/2007	07-0534	0.210	µg/L	
HH-2 (S)	07BR0714 - 26	D	5/29/2007	6/4/2007	07-0534	0.190	µg/L	B
HH-3	07BR0714 - 27	D	5/29/2007	6/4/2007	07-0534	0.210	µg/L	
HH-3 (S)	07BR0714 - 28	D	5/29/2007	6/4/2007	07-0534	0.200	µg/L	B
HH-1	07BR0714 - 29	D	5/29/2007	6/4/2007	07-0534	0.200	µg/L	B
HH-1 (S)	07BR0714 - 30	D	5/29/2007	6/4/2007	07-0534	0.220	µg/L	

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## Cd

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-7 RM 26.0	07BR0714 - 16	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
DC-1 RM 8.5	07BR0714 - 17	D	5/29/2007	6/4/2007	07-0534	0.005	µg/L	B
DC-2 RM 8.0	07BR0714 - 18	D	5/29/2007	6/4/2007	07-0534	0.005	µg/L	B
MFAR-1 RM 51.5	07BR0714 - 19	D	5/29/2007	6/4/2007	07-0534	0.006	µg/L	B
MFAR-2 RM 46.5	07BR0714 - 20	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
RR-2B	07BR0714 - 21	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
RR-2 EC	07BR0714 - 22	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
RR-2 DEC	07BR0714 - 23	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
RR-2A	07BR0714 - 24	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
HH-2	07BR0714 - 25	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
HH-2 (S)	07BR0714 - 26	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
HH-3	07BR0714 - 27	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
HH-3 (S)	07BR0714 - 28	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
HH-1	07BR0714 - 29	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
HH-1 (S)	07BR0714 - 30	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U

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Lab Tracking # 07BR0714

Lab Services Agreement ENX002

**Cr**

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-7 RM 26.0	07BR0714 - 16	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
DC-1 RM 8.5	07BR0714 - 17	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
DC-2 RM 8.0	07BR0714 - 18	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
MFAR-1 RM 51.5	07BR0714 - 19	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
MFAR-2 RM 46.5	07BR0714 - 20	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
RR-2B	07BR0714 - 21	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
RR-2 EC	07BR0714 - 22	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
RR-2 DEC	07BR0714 - 23	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
RR-2A	07BR0714 - 24	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
HH-2	07BR0714 - 25	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
HH-2 (S)	07BR0714 - 26	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
HH-3	07BR0714 - 27	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
HH-3 (S)	07BR0714 - 28	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
HH-1	07BR0714 - 29	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
HH-1 (S)	07BR0714 - 30	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U

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Lab Services Agreement ENX002

## Cu

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-7 RM 26.0	07BR0714 - 16	D	5/29/2007	6/4/2007	07-0534	0.330	µg/L	
DC-1 RM 8.5	07BR0714 - 17	D	5/29/2007	6/4/2007	07-0534	0.150	µg/L	B
DC-2 RM 8.0	07BR0714 - 18	D	5/29/2007	6/4/2007	07-0534	0.160	µg/L	B
MFAR-1 RM 51.5	07BR0714 - 19	D	5/29/2007	6/4/2007	07-0534	0.160	µg/L	B
MFAR-2 RM 46.5	07BR0714 - 20	D	5/29/2007	6/4/2007	07-0534	0.190	µg/L	B
RR-2B	07BR0714 - 21	D	5/29/2007	6/4/2007	07-0534	0.310	µg/L	
RR-2 EC	07BR0714 - 22	D	5/29/2007	6/4/2007	07-0534	0.300	µg/L	
RR-2 DEC	07BR0714 - 23	D	5/29/2007	6/4/2007	07-0534	0.300	µg/L	
RR-2A	07BR0714 - 24	D	5/29/2007	6/4/2007	07-0534	0.320	µg/L	
HH-2	07BR0714 - 25	D	5/29/2007	6/4/2007	07-0534	0.290	µg/L	
HH-2 (S)	07BR0714 - 26	D	5/29/2007	6/4/2007	07-0534	0.270	µg/L	
HH-3	07BR0714 - 27	D	5/29/2007	6/4/2007	07-0534	0.260	µg/L	
HH-3 (S)	07BR0714 - 28	D	5/29/2007	6/4/2007	07-0534	0.250	µg/L	
HH-1	07BR0714 - 29	D	5/29/2007	6/4/2007	07-0534	0.490	µg/L	
HH-1 (S)	07BR0714 - 30	D	5/29/2007	6/4/2007	07-0534	0.270	µg/L	

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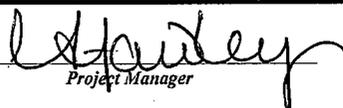
Lab Project # ENX002  
Lab Tracking # 07BR0714

Lab Services Agreement ENX002

## Fe

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-7 RM 26.0	07BR0714 - 16	D	5/29/2007	6/12/2007	07-0534b	2.600	µg/L	B
DC-1 RM 8.5	07BR0714 - 17	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
DC-2 RM 8.0	07BR0714 - 18	D	5/29/2007	6/12/2007	07-0534b	19.300	µg/L	
MFAR-1 RM 51.5	07BR0714 - 19	D	5/29/2007	6/12/2007	07-0534b	5.000	µg/L	B
MFAR-2 RM 46.5	07BR0714 - 20	D	5/29/2007	6/12/2007	07-0534b	135.000	µg/L	
RR-2B	07BR0714 - 21	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
RR-2 EC	07BR0714 - 22	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
RR-2 DEC	07BR0714 - 23	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
RR-2A	07BR0714 - 24	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
HH-2	07BR0714 - 25	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
HH-2 (S)	07BR0714 - 26	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
HH-3	07BR0714 - 27	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
HH-3 (S)	07BR0714 - 28	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
HH-1	07BR0714 - 29	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
HH-1 (S)	07BR0714 - 30	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U

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Lab Project # ENX002  
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Lab Services Agreement ENX002

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## Hg

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-7 RM 26.0	07BR0714 - 01	T	5/31/2007	6/1/2007	07-0553	0.330	ng/L	B
DC-1 RM 8.5	07BR0714 - 02	T	5/31/2007	6/1/2007	07-0553	0.360	ng/L	B
DC-2 RM 8.0	07BR0714 - 03	T	5/31/2007	6/1/2007	07-0553	0.270	ng/L	B
MFAR-1 RM 51.5	07BR0714 - 04	T	5/31/2007	6/1/2007	07-0553	0.430	ng/L	
MFAR-2 RM 46.5	07BR0714 - 05	T	5/31/2007	6/1/2007	07-0553	0.330	ng/L	B
RR-2B	07BR0714 - 06	T	5/31/2007	6/1/2007	07-0553	0.480	ng/L	
RR-2 EC	07BR0714 - 07	T	5/31/2007	6/1/2007	07-0553	0.750	ng/L	
RR-2 DEC	07BR0714 - 08	T	5/31/2007	6/1/2007	07-0553	0.630	ng/L	
RR-2A	07BR0714 - 09	T	5/31/2007	6/1/2007	07-0553	0.540	ng/L	
HH-2	07BR0714 - 10	T	5/31/2007	6/1/2007	07-0553	0.680	ng/L	
HH-2 (S)	07BR0714 - 11	T	5/31/2007	6/1/2007	07-0553	0.350	ng/L	B
HH-3	07BR0714 - 12	T	5/31/2007	6/1/2007	07-0553	0.740	ng/L	
HH-3 (S)	07BR0714 - 13	T	5/31/2007	6/1/2007	07-0553	0.520	ng/L	
HH-1	07BR0714 - 14	T	5/31/2007	6/1/2007	07-0553	0.650	ng/L	
HH-1 (S)	07BR0714 - 15	T	5/31/2007	6/1/2007	07-0553	0.510	ng/L	

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## Mg

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-7 RM 26.0	07BR0714 - 16	D	5/29/2007	6/4/2007	07-0534	1,320.000	µg/L	
DC-1 RM 8.5	07BR0714 - 17	D	5/29/2007	6/4/2007	07-0534	720.000	µg/L	
DC-2 RM 8.0	07BR0714 - 18	D	5/29/2007	6/4/2007	07-0534	723.000	µg/L	
MFAR-1 RM 51.5	07BR0714 - 19	D	5/29/2007	6/4/2007	07-0534	617.000	µg/L	
MFAR-2 RM 46.5	07BR0714 - 20	D	5/29/2007	6/4/2007	07-0534	621.000	µg/L	
RR-2B	07BR0714 - 21	D	5/29/2007	6/4/2007	07-0534	560.000	µg/L	
RR-2 EC	07BR0714 - 22	D	5/29/2007	6/4/2007	07-0534	271.000	µg/L	
RR-2 DEC	07BR0714 - 23	D	5/29/2007	6/4/2007	07-0534	542.000	µg/L	
RR-2A	07BR0714 - 24	D	5/29/2007	6/4/2007	07-0534	551.000	µg/L	
HH-2	07BR0714 - 25	D	5/29/2007	6/4/2007	07-0534	531.000	µg/L	
HH-2 (S)	07BR0714 - 26	D	5/29/2007	6/4/2007	07-0534	528.000	µg/L	
HH-3	07BR0714 - 27	D	5/29/2007	6/4/2007	07-0534	512.000	µg/L	
HH-3 (S)	07BR0714 - 28	D	5/29/2007	6/4/2007	07-0534	520.000	µg/L	
HH-1	07BR0714 - 29	D	5/29/2007	6/4/2007	07-0534	531.000	µg/L	
HH-1 (S)	07BR0714 - 30	D	5/29/2007	6/4/2007	07-0534	524.000	µg/L	

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MFAR-7 RM 26.0	07BR0714 - 16	D	5/29/2007	6/4/2007	07-0534	0.210	µg/L	
DC-1 RM 8.5	07BR0714 - 17	D	5/29/2007	6/4/2007	07-0534	0.180	µg/L	B
DC-2 RM 8.0	07BR0714 - 18	D	5/29/2007	6/4/2007	07-0534	0.170	µg/L	B
MFAR-1 RM 51.5	07BR0714 - 19	D	5/29/2007	6/4/2007	07-0534	0.080	µg/L	B
MFAR-2 RM 46.5	07BR0714 - 20	D	5/29/2007	6/4/2007	07-0534	0.060	µg/L	B
RR-2B	07BR0714 - 21	D	5/29/2007	6/4/2007	07-0534	0.090	µg/L	B
RR-2 EC	07BR0714 - 22	D	5/29/2007	6/4/2007	07-0534	0.300	µg/L	
RR-2 DEC	07BR0714 - 23	D	5/29/2007	6/4/2007	07-0534	0.090	µg/L	B
RR-2A	07BR0714 - 24	D	5/29/2007	6/4/2007	07-0534	0.080	µg/L	B
HH-2	07BR0714 - 25	D	5/29/2007	6/4/2007	07-0534	0.100	µg/L	B
HH-2 (S)	07BR0714 - 26	D	5/29/2007	6/4/2007	07-0534	0.110	µg/L	B
HH-3	07BR0714 - 27	D	5/29/2007	6/4/2007	07-0534	0.090	µg/L	B
HH-3 (S)	07BR0714 - 28	D	5/29/2007	6/4/2007	07-0534	0.090	µg/L	B
HH-1	07BR0714 - 29	D	5/29/2007	6/4/2007	07-0534	0.100	µg/L	B
HH-1 (S)	07BR0714 - 30	D	5/29/2007	6/4/2007	07-0534	0.100	µg/L	B

Monday, June 18, 2007

  
Project Manager

**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 # 07BR0714

Lab Services Agreement ENX002

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**Pb**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
MFAR-7 RM 26.0	07BR0714 - 16	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
DC-1 RM 8.5	07BR0714 - 17	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
DC-2 RM 8.0	07BR0714 - 18	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
MFAR-1 RM 51.5	07BR0714 - 19	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	B
MFAR-2 RM 46.5	07BR0714 - 20	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
RR-2B	07BR0714 - 21	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
RR-2 EC	07BR0714 - 22	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
RR-2 DEC	07BR0714 - 23	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
RR-2A	07BR0714 - 24	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
HH-2	07BR0714 - 25	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
HH-2 (S)	07BR0714 - 26	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
HH-3	07BR0714 - 27	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
HH-3 (S)	07BR0714 - 28	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
HH-1	07BR0714 - 29	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
HH-1 (S)	07BR0714 - 30	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U

---

Monday, June 18, 2007

  
Project Manager

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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 # 07BR0741

Lab Services Agreement ENX002

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## Sample/Sampling/Receiving Info

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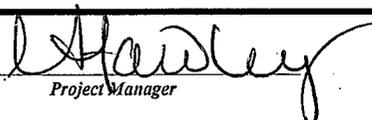
*Entrix, Inc.*

*BRL*

Sample Identification	Sampling Date	Matrix	Submatrix	Sample Number	Receiving Date
SFRR-1 RM 0.0		Water		07BR0741 - 01	5/25/2007
RR-3 RM 23.0		Water		07BR0741 - 02	5/25/2007
RR-4 RM 22.5		Water		07BR0741 - 03	5/25/2007
Field Blank 2		Water	Blank	07BR0741 - 04	5/25/2007
RR-1 RM 36.0		Water		07BR0741 - 05	5/25/2007
SFRR-1 RM 0.0		Water		07BR0741 - 06	5/25/2007
RR-3 RM 23.0		Water		07BR0741 - 07	5/25/2007
RR-4 RM 22.5		Water		07BR0741 - 08	5/25/2007
Field Blank 2		Water	Blank	07BR0741 - 09	5/25/2007
RR-1 RM 36.0		Water		07BR0741 - 10	5/25/2007

---

Monday, June 18, 2007

  
Project Manager

**Reported by**

**Brooks Rand LLC**

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**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 # 07BR0741

Lab Services Agreement ENX002

**As**

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SFRR-1 RM 0.0	07BR0741 - 06	D	5/29/2007	6/4/2007	07-0534	0.060	µg/L	U
RR-3 RM 23.0	07BR0741 - 07	D	5/29/2007	6/4/2007	07-0534	0.190	µg/L	B
RR-4 RM 22.5	07BR0741 - 08	D	5/29/2007	6/4/2007	07-0534	0.170	µg/L	B
Field Blank 2	07BR0741 - 09	D	5/29/2007	6/4/2007	07-0534	0.060	µg/L	U
RR-1 RM 36.0	07BR0741 - 10	D	5/29/2007	6/4/2007	07-0534	0.330	µg/L	

Monday, June 18, 2007

  
Project Manager

Reported by  
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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 # 07BR0741

Lab Services Agreement ENX002

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## Cd

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SFRR-1 RM 0.0	07BR0741 - 06	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
RR-3 RM 23.0	07BR0741 - 07	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
RR-4 RM 22.5	07BR0741 - 08	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
Field Blank 2	07BR0741 - 09	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U
RR-1 RM 36.0	07BR0741 - 10	D	5/29/2007	6/4/2007	07-0534	0.004	µg/L	U

---

Monday, June 18, 2007

  
Project Manager

Reported by  
**Brooks Rand LLC**

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Summary of Results for  
**Entrix, Inc.**

Contact: Brian Frantz  
590 Yencio Valley Road  
Walnut Creek CA 94596  
Tel: 925-988-1217

Lab Project # ENX002  
Lab Tracking # 07BR0741

Lab Services Agreement ENX002

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**Cr**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SFRR-1 RM 0.0	07BR0741 - 06	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
RR-3 RM 23.0	07BR0741 - 07	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
RR-4 RM 22.5	07BR0741 - 08	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
Field Blank 2	07BR0741 - 09	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U
RR-1 RM 36.0	07BR0741 - 10	D	5/29/2007	6/4/2007	07-0534	0.030	µg/L	U

---

Monday, June 18, 2007

  
Project Manager

Reported by  
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Summary of Results for  
**Entrix, Inc.**

Contact: Brian Frantz  
590 Yencio Valley Road  
Walnut Creek CA 94596  
Tel: 925-988-1217

Lab Project # ENX002  
Lab Tracking # 07BR0741

Lab Services Agreement ENX002

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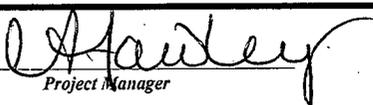
## Cu

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SFRR-1 RM 0.0	07BR0741 - 06	D	5/29/2007	6/4/2007	07-0534	0.130	µg/L	B
RR-3 RM 23.0	07BR0741 - 07	D	5/29/2007	6/4/2007	07-0534	0.430	µg/L	
RR-4 RM 22.5	07BR0741 - 08	D	5/29/2007	6/4/2007	07-0534	0.380	µg/L	
Field Blank 2	07BR0741 - 09	D	5/29/2007	6/4/2007	07-0534	0.070	µg/L	B
RR-1 RM 36.0	07BR0741 - 10	D	5/29/2007	6/4/2007	07-0534	0.200	µg/L	B

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Monday, June 18, 2007

  
Project Manager

Reported by  
**Brooks Rand LLC**

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Summary of Results for  
**Entrix, Inc.**

Contact: Brian Frantz  
590 Yencio Valley Road  
Walnut Creek CA 94596  
Tel: 925-988-1217

Lab Project # ENX002  
Lab Tracking # 07BR0741

Lab Services Agreement ENX002

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## Fe

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SFRR-1 RM 0.0	07BR0741 - 06	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
RR-3 RM 23.0	07BR0741 - 07	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
RR-4 RM 22.5	07BR0741 - 08	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
Field Blank 2	07BR0741 - 09	D	5/29/2007	6/12/2007	07-0534b	1.400	µg/L	U
RR-1 RM 36.0	07BR0741 - 10	D	5/29/2007	6/12/2007	07-0534b	14.700	µg/L	

---

Monday, June 18, 2007

  
Project Manager

Reported by  
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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 # 07BR0741

Lab Services Agreement ENX002

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## Hg

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SFRR-1 RM 0.0	07BR0741 - 01	T	6/1/2007	6/5/2007	07-0567	0.410	ng/L	
RR-3 RM 23.0	07BR0741 - 02	T	6/1/2007	6/5/2007	07-0567	0.370	ng/L	B
RR-4 RM 22.5	07BR0741 - 03	T	6/1/2007	6/5/2007	07-0567	0.320	ng/L	B
Field Blank 2	07BR0741 - 04	T	6/1/2007	6/5/2007	07-0567	0.260	ng/L	B
RR-1 RM 36.0	07BR0741 - 05	T	6/5/2007	6/6/2007	07-0559	0.480	ng/L	

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Monday, June 18, 2007

  
Project Manager

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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 # 07BR0741

Lab Services Agreement ENX002

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## Mg

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SFRR-1 RM 0.0	07BR0741 - 06	D	5/29/2007	6/4/2007	07-0534	517.000	µg/L	
RR-3 RM 23.0	07BR0741 - 07	D	5/29/2007	6/4/2007	07-0534	653.000	µg/L	
RR-4 RM 22.5	07BR0741 - 08	D	5/29/2007	6/4/2007	07-0534	621.000	µg/L	
Field Blank 2	07BR0741 - 09	D	5/29/2007	6/4/2007	07-0534	0.700	µg/L	B
RR-1 RM 36.0	07BR0741 - 10	D	5/29/2007	6/4/2007	07-0534	439.000	µg/L	

---

Monday, June 18, 2007

  
Project Manager

Reported by  
**Brooks Rand LLC**

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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 # 07BR0741

Lab Services Agreement ENX002

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## Ni

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SFRR-1 RM 0.0	07BR0741 - 06	D	5/29/2007	6/4/2007	07-0534	0.100	µg/L	B
RR-3 RM 23.0	07BR0741 - 07	D	5/29/2007	6/4/2007	07-0534	0.100	µg/L	B
RR-4 RM 22.5	07BR0741 - 08	D	5/29/2007	6/4/2007	07-0534	0.090	µg/L	B
Field Blank 2	07BR0741 - 09	D	5/29/2007	6/4/2007	07-0534	0.040	µg/L	U
RR-1 RM 36.0	07BR0741 - 10	D	5/29/2007	6/4/2007	07-0534	0.090	µg/L	B

---

Monday, June 18, 2007

  
Project Manager

Reported by  
**Brooks Rand LLC**

Contact: Amanda Fawley  
3958 6th Avenue NW  
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Summary of Results for  
**Entrix, Inc.**

Contact: Brian Frantz  
590 Yencio Valley Road  
Walnut Creek CA 94596  
Tel: 925-988-1217

Lab Project # ENX002  
Lab Tracking # 07BR0741

Lab Services Agreement ENX002

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## Pb

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
SFRR-1 RM 0.0	07BR0741 - 06	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
RR-3 RM 23.0	07BR0741 - 07	D	5/29/2007	6/4/2007	07-0534	0.050	µg/L	B
RR-4 RM 22.5	07BR0741 - 08	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
Field Blank 2	07BR0741 - 09	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U
RR-1 RM 36.0	07BR0741 - 10	D	5/29/2007	6/4/2007	07-0534	0.010	µg/L	U

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Monday, June 18, 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 #: 07-0534

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

Analyte: Trace Metals

Matrix: Water

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

Analyte	NIST 1640			NIST 1643e		
	Certified Value $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$	Recovery %	Certified Value $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$	Recovery %
Mg	5819	6030	104%	8037	8553	106%
Ca	7045	6972	99%	32300	31327	97%
Cr	38.6	37.8	98%	20.4	21.6	106%
Ni	27.4	28.8	105%	62.41	66.43	106%
Cu	85.2	85.1	100%	22.76	22.66	100%
As	26.67	25.47	96%	60.45	55.84	92%
Cd	22.79	22.78	100%	6.568	6.784	103%
Pb	27.89	29.29	105%	19.63	19.86	101%

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

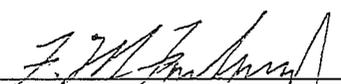
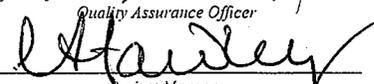
Analyte	ERA - Hardness		
	Certified Value $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$	Recovery %
Mg	6550	6177	94%
Ca	32400	29533	91%

BIAS Criteria: Recovery = 75-125%, RPD <25%  
Sample 07BR0681-10 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)

Analyte	Sample Value $\mu\text{g/L}$	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$	MS Recovery %	Spiked Value $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$	MSD Recovery %	
Mg	880.6	2000	2880	100%	2000	2827	97%	2%
Cr	-0.17	1.00	0.73	90%	1.00	0.73	90%	0%
Ni	0.16	1.00	1.08	92%	1.00	1.08	92%	0%
Cu	0.13	1.00	1.15	101%	1.00	1.17	104%	2%
As	0.04	1.00	0.99	95%	1.00	0.99	94%	1%
Cd	0.001	0.500	0.506	101%	0.500	0.504	101%	0%
Pb	0.00	0.50	0.53	107%	0.50	0.53	106%	1%

BIAS Criteria: Recovery = 75-125%, RPD <25%  
Sample 07BR0681-16 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)

Analyte	Sample Value $\mu\text{g/L}$	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$	MS Recovery %	Spiked Value $\mu\text{g/L}$	Measured Value $\mu\text{g/L}$	MSD Recovery %	
Mg	1573	2000	3571	100%	2000	3571	100%	0%
Cr	-0.11	1.00	0.81	92%	1.00	0.81	92%	1%
Ni	0.38	1.00	1.28	90%	1.00	1.28	91%	0%
Cu	0.43	1.00	1.43	100%	1.00	1.40	97%	2%
As	0.45	1.00	1.34	89%	1.00	1.32	87%	1%
Cd	0.004	0.500	0.500	99%	0.500	0.483	96%	3%
Pb	0.00	0.50	0.52	104%	0.50	0.51	102%	2%

  
 Quality Assurance Officer  
  
 Project Manager

# QUALITY ASSURANCE SUMMARY

Batch #: 07-0534 (continued)

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

Analyte: Trace Metals

Matrix: Water

BIAS Criteria: Recovery = 75-125%, RPD <25%

Sample 07BR0701-08 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)

Analyte	Sample Value	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked	Measured	MS	Spiked	Measured	MSD	
Mg	926.8	2000	2972	102%	2000	2955	101%	1%
Cr	-0.19	1.00	0.73	92%	1.00	0.75	94%	3%
Ni	0.13	1.00	1.09	95%	1.00	1.09	95%	0%
Cu	0.36	1.00	1.34	98%	1.00	1.39	103%	4%
As	0.16	1.00	1.07	91%	1.00	1.07	91%	0%
Cd	0.001	0.500	0.506	101%	0.500	0.506	101%	0%
Pb	0.00	0.50	0.52	104%	0.50	0.51	103%	1%

BIAS Criteria: Recovery = 75-125%, RPD <25%

Sample 07BR0714-22 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)

Analyte	Sample Value	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked	Measured	MS	Spiked	Measured	MSD	
Mg	270.7	2000	2222	98%	2000	2202	97%	1%
Cr	-0.06	1.00	0.90	96%	1.00	0.89	95%	1%
Ni	0.30	1.00	1.29	100%	1.00	1.28	98%	1%
Cu	0.30	1.00	1.27	97%	1.00	1.32	101%	4%
As	0.06	1.00	0.96	90%	1.00	0.99	93%	3%
Cd	0.004	0.500	0.494	98%	0.500	0.496	98%	0%
Pb	0.00	0.50	0.51	102%	0.50	0.51	102%	0%

BIAS Criteria: Recovery = 75-125%, RPD <25%

Sample 07BR0741-08 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)

Analyte	Sample Value	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked	Measured	MS	Spiked	Measured	MSD	
Mg	621.1	2000	2269	82%	2000	2402	89%	6%
Cr	-0.06	1.00	0.91	97%	1.00	0.94	100%	3%
Ni	0.09	1.00	1.07	98%	1.00	1.13	104%	6%
Cu	0.38	1.00	1.43	105%	1.00	1.48	110%	3%
As	0.17	1.00	1.10	93%	1.00	1.18	101%	7%
Cd	0.002	0.500	0.482	96%	0.500	0.512	102%	6%
Pb	0.00	0.50	0.52	104%	0.50	0.55	109%	5%

BIAS Criteria: Recovery = 75-125%, RPD <25%

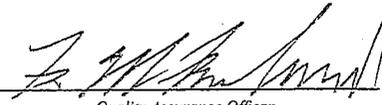
Sample 07BR0708-09 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)

Analyte	Sample Value	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked	Measured	MS	Spiked	Measured	MSD	
Cu	0.20	1.00	1.32	113%	1.00	1.44	125%	9%
Cd	0.002	1.000	1.014	101%	1.000	1.049	105%	3%
Pb	0.00	1.00	1.03	102%	1.00	1.08	107%	5%

BIAS Criteria: Recovery = 75-125%, RPD <25%

Sample 07BR0708-21 Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD)

Analyte	Sample Value	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked	Measured	MS	Spiked	Measured	MSD	
Mg	2273	5000	6483	84%	5000	6230	79%	4%
Ca	6492	10000	14868	84%	10000	14791	83%	1%

  
 Quality Assurance Officer  
  
 Project Manager

# QUALITY ASSURANCE SUMMARY

Batch #: 07-0534 (continued)

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

Analyte: Trace Metals

Matrix: Water

**PRECISION** *Criteria: RPD < 25% or results +/- PQL if < 5x PQL*  
**Sample 07BR0681-10 Method Duplicate Analysis (MD)**

Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	880.6	932.2	906.4	6%
Cr	-0.17	-0.17	-0.17	*
Ni	0.16	0.15	0.15	*
Cu	0.13	0.15	0.14	*
As	0.04	0.05	0.05	*
Cd	0.001	0.002	0.002	*
Pb	0.00	0.00	0.00	*

\* Results less than five times the PQL and within the PQL of each other.

**PRECISION** *Criteria: RPD < 25% or results +/- PQL if < 5x PQL*  
**Sample 07BR0681-16 Method Duplicate Analysis (MD)**

Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	1573	1546	1560	2%
Cr	-0.11	-0.12	-0.11	*
Ni	0.38	0.36	0.37	*
Cu	0.43	0.41	0.42	*
As	0.45	0.43	0.44	*
Cd	0.004	0.004	0.004	*
Pb	0.00	0.00	0.00	*

\* Results less than five times the PQL and within the PQL of each other.

**PRECISION** *Criteria: RPD < 25% or results +/- PQL if < 5x PQL*  
**Sample 07BR0701-08 Method Duplicate Analysis (MD)**

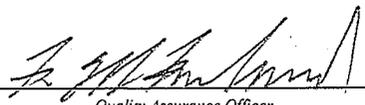
Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	926.8	938.7	932.7	1%
Cr	-0.19	-0.20	-0.20	*
Ni	0.13	0.13	0.13	*
Cu	0.36	0.38	0.37	*
As	0.16	0.16	0.16	*
Cd	0.001	0.001	0.001	*
Pb	0.00	0.00	0.00	*

\* Results less than five times the PQL and within the PQL of each other.

**PRECISION** *Criteria: RPD < 25% or results +/- PQL if < 5x PQL*  
**Sample 07BR0714-22 Method Duplicate Analysis (MD)**

Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	270.7	271.5	271.1	0%
Cr	-0.06	-0.05	-0.06	*
Ni	0.30	0.31	0.30	*
Cu	0.30	0.30	0.30	*
As	0.06	0.06	0.06	*
Cd	0.004	0.004	0.004	*
Pb	0.00	0.00	0.00	*

\* Results less than five times the PQL and within the PQL of each other.

  
 Quality Assurance Officer  
  
 Project Manager

# QUALITY ASSURANCE SUMMARY

Batch #: 07-0534 (continued)

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

Analyte: Trace Metals

Matrix: Water

**PRECISION** *Criteria: RPD < 25% or results +/- PQL if < 5x PQL*  
**Sample 07BR0741-08 Method Duplicate Analysis (MD)**

Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	621.1	604.2	612.7	3%
Cr	-0.06	-0.06	-0.06	*
Ni	0.09	0.09	0.09	*
Cu	0.38	0.35	0.36	*
As	0.17	0.16	0.17	*
Cd	0.002	0.001	0.002	*
Pb	0.00	0.00	0.00	*

\* Results less than five times the PQL and within the PQL of each other.

**PRECISION** *Criteria: RPD < 25% or results +/- PQL if < 5x PQL*  
**Sample 07BR0708-09 Method Duplicate Analysis (MD)**

Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Cu	0.20	0.21	0.20	*
Cd	0.002	0.002	0.002	*
Pb	0.00	0.00	0.00	*

\* Results less than five times the PQL and within the PQL of each other.

**PRECISION** *Criteria: RPD < 25% or results +/- PQL if < 5x PQL*  
**Sample 07BR0708-21 Method Duplicate Analysis (MD)**

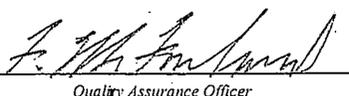
Analyte	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
Mg	2273	2257	2265	1%
Ca	6492	6402	6447	1%

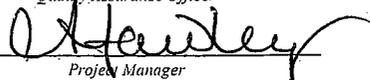
**Method Blanks (MB)** *Criteria: Avg. < PQL and StDev < MDL or < 1/10th sample result*

Analyte	MB1 µg/L	MB2 µg/L	MB3 µg/L	MB4 µg/L	Average µg/L	StDev µg/L
Mg	-0.2	-0.2	-0.2	-0.2	-0.2	0.0
Ca	-1.7	1.1	-2.7	-0.3	-0.9	1.7
Cr	-0.02	-0.01	-0.03	-0.01	-0.02	0.01
Ni	-0.01	0.00	-0.01	-0.01	-0.01	0.00
Cu	-0.14	-0.14	-0.14	-0.14	-0.14	0.00
As	0.011	0.02	0.010	0.001	0.01	0.01
Cd	-0.003	-0.002	-0.003	-0.003	-0.003	0.000
Pb	-0.06	-0.05	-0.05	-0.06	-0.05	0.01

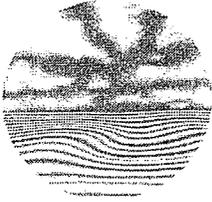
**Method Detection Limits**

Analyte	MDL µg/L	PQL µg/L
Mg	0.6	3.0
Ca	6.0	30.0
Cr	0.03	0.15
Ni	0.04	0.20
Cu	0.04	0.20
As	0.06	0.20
Cd	0.004	0.010
Pb	0.01	0.05

  
 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 #:** 07-0534b

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

**Analyte:** Trace Metals

**Matrix:** Water

BIAS <span style="float: right;">Criteria: Recovery = 75-125%</span>			
Certified Reference Materials (CRM)			
Analyte	NIST 1640		
	Certified Value µg/L	Measured Value µg/L	Recovery %
Fe	34.3	37.6	110%

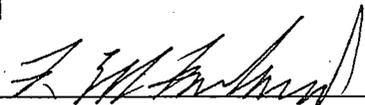
BIAS <span style="float: right;">Criteria: Recovery = 75-125%, RPD &lt;25%</span>								
Matrix Spike and Matrix Spike Duplicate Analysis (MS/MSD) for Fe								
Sample ID	Sample Value µg/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value µg/L	Measured Value µg/L	MS Recovery %	Spiked Value µg/L	Measured Value µg/L	MSD Recovery %	
07BR0681-10	2.8	20.0	22.0	96%	20.0	20.8	90%	6%
07BR0681-16	14.6	20.0	37.4	114%	20.0	35.4	104%	6%
07BR0701-08	-0.4	20.0	17.8	91%	20.0	18.5	95%	4%
07BR0714-22	1.4	20.0	20.9	97%	20.0	19.7	91%	6%
07BR0741-08	-5.0	20.0	15.8	104%	20.0	14.8	99%	6%

PRECISION <span style="float: right;">Criteria: RPD &lt;25% or results +/-PQL if &lt;5x PQL</span>				
Method Duplicate Analysis (MD) for Fe				
Sample ID	Sample Value µg/L	Duplicate Value µg/L	Average Value µg/L	Duplicate RPD
07BR0681-10	2.8	1.2	2.0	*
07BR0681-16	14.6	13.8	14.2	6%
07BR0701-08	-0.4	-0.9	-0.6	*
07BR0714-22	1.4	0.5	1.0	*
07BR0741-08	-5.0	-4.7	-4.8	*

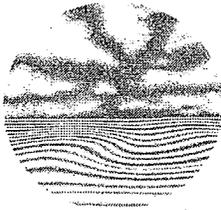
\* Results less than five times the PQL and within the PQL of each other.

Method Blanks (MB) <span style="float: right;">Criteria: Avg. &lt; PQL and StDev &lt; MDL or &lt; 1/10th sample result</span>						
Analyte	MB1 µg/L	MB2 µg/L	MB3 µg/L	MB4 µg/L	Average µg/L	StDev µg/L
Fe	0.1	0.9	-1.1	-0.1	0.0	0.8

Method Detection Limits		
Analyte	MDL µg/L	PQL µg/L
Fe	1.4	5.0

  
 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 #: 07-0553

Method #: EPA 1631E

Analyte: Hg

Matrix: Water

**BIAS** Criterion: Recovery = 77-123%

**Continuing Calibration Verification (CCV)**

QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
CCV1	5.00	5.25	105%
CCV2	5.00	4.72	94%
CCV3	5.00	4.79	96%

**BIAS** Criterion: Recovery = 85-115%

**Independent Calibration Verification (ICV)**

QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
ICV*	16.01	15.87	99%

\* Preparation of the CRM NIST 1641d.

**BIAS** Criteria: Recovery = 71-125%, RPD ≤ 24%

**Matrix Spikes/Matrix Spike Duplicates (MS/MSD)**

Sample ID	Sample Value ng/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value ng/L	Measured Value ng/L	MS Recovery %	Spiked Value ng/L	Measured Value ng/L	MSD Recovery %	
07BR0678-01	6.07	20.01	23.52	87%	20.36	23.03	83%	2%
07BR0709-01	68.47	156.7	217.2	95%	164.9	228.5	97%	5%

**1.0% BrCl Method Blanks (MB)** Criterion: MB < 0.5 ng/L

1.0% BrCl Method Blanks (MB)						Detection Limits	
MB1 ng/L	MB2 ng/L	MB3 ng/L	MB4 ng/L	Average ng/L	StDev ng/L	MB MDL ng/L	MB PQL ng/L
0.06	0.04	0.02	0.03	0.04	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.

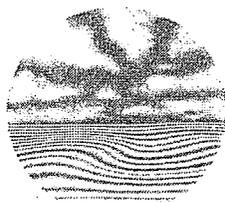
**Sample Specific Detection Limits**

Sample ID	MDL ng/L	PQL ng/L
07BR0678-01	0.31	0.82
07BR0709-01	0.62	1.66

*Nicol C. Mead*  
Quality Assurance Officer

*C. Hawley*  
Project Manager

QUALITY ASSURANCE SUMMARY



**BROOKSTRAND**  
TRACE METALS ANALYSIS & PRODUCTS

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

Batch #: 07-0559

Method #: EPA 1631E

Analyte: Hg

Matrix: Water

**BIAS** Criterion: Recovery = 77-123%  
**Continuing Calibration Verification (CCV)**

QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
CCV1	5.00	4.14	83%
CCV2	5.00	4.35	87%
CCV3	5.00	4.17	83%
CCV4	5.00	4.34	87%

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

QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
ICV*	16.01	14.99	94%

\* Preparation of the CRM NIST 1641d.

**BIAS** Criteria: Recovery = 71-125%, RPD ≤ 24%  
**Matrix Spikes/Matrix Spike Duplicates (MS/MSD)**

Sample ID	Sample Value ng/L	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value ng/L	Measured Value ng/L	MS Recovery %	Spiked Value ng/L	Measured Value ng/L	MSD Recovery %	
07BR0732-02	0.78	2.03	2.61	90%	2.13	2.48	80%	5%
07BR0733-02	12.96	40.96	46.84	83%	40.90	46.39	82%	1%

**1.0% BrCl Method Blanks (MB)** Criterion: MB < 0.5 ng/L **Detection Limits**

MB1 ng/L	MB2 ng/L	MB3 ng/L	MB4 ng/L	Average ng/L	StDev ng/L	MB MDL ng/L	MB PQL ng/L
0.05	-0.01	0.02	0.00	0.01	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**

Sample ID	MDL ng/L	PQL ng/L
07BR0734-01	3.20	8.40
07BR0734-02	3.20	8.40
07BR0734-03	3.10	8.20
07BR0728-01	3.20	8.40
07BR0728-02	1.50	4.00

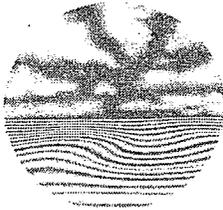
**Sample Specific Detection Limits**

Sample ID	MDL ng/L	PQL ng/L
07BR0728-03	3.20	8.40
07BR0733-01	0.30	0.79
07BR0733-02	0.29	0.78
07BR0730-01	0.30	0.80

*Nicole C. Mead*  
Quality Assurance Officer

*L. Hawley*  
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 #: 07-0567

Method #: EPA 1631E

Analyte: Hg

Matrix: Water

BIAS <i>Criterion: Recovery = 77-123%</i>			
Continuing Calibration Verification (CCV)			
<i>QCS ID</i>	<i>Certified Value ng/L</i>	<i>Measured Value ng/L</i>	<i>Recovery %</i>
CCV1	5.00	5.37	107%
CCV2	5.00	4.80	96%
CCV3	5.00	4.87	97%

BIAS <i>Criterion: Recovery = 85-115%</i>			
Independent Calibration Verification (ICV)			
<i>QCS ID</i>	<i>Certified Value ng/L</i>	<i>Measured Value ng/L</i>	<i>Recovery %</i>
ICV*	16.01	15.81	99%

\* Preparation of the CRM NIST 1641d.

BIAS <i>Criteria: Recovery = 71-125%, RPD ≤ 24%</i>								
Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
<i>Sample ID</i>	<i>Sample Value ng/L</i>	<i>Matrix Spike</i>			<i>Matrix Spike Duplicate</i>			<i>Duplicate RPD</i>
		<i>Spiked Value ng/L</i>	<i>Measured Value ng/L</i>	<i>MS Recovery %</i>	<i>Spiked Value ng/L</i>	<i>Measured Value ng/L</i>	<i>MSD Recovery %</i>	
07BR0741-01	0.41	2.03	2.34	95%	1.99	2.41	100%	3%
07BR0758-01	7.14	25.35	30.30	91%	26.14	30.60	90%	1%

1.0% BrCl Method Blanks (MB) <i>Criterion: MB &lt; 0.5 ng/L</i>						Detection Limits	
<i>MB1 ng/L</i>	<i>MB2 ng/L</i>	<i>MB3 ng/L</i>	<i>MB4 ng/L</i>	<i>Average ng/L</i>	<i>StDev ng/L</i>	<i>MB MDL ng/L</i>	<i>MB PQL ng/L</i>
0.02	0.05	0.02	0.04	0.03	0.01	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 ng/L</i>	<i>PQL ng/L</i>
07BR0758-01	0.77	2.04

*Nicole C. Mead*  
Quality Assurance Officer

*L. Pawley*  
Project Manager



### Sample Receiving Log

Tracking # **07BR0714**

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: 3.8 C  
Shipping container coolant: Ice

Sample Turnaround Time:  
Contract Turnaround Time: 28 days

Due Date: 6/21/2007  
Receiving Date: 5/24/2007  
Receiving Time: 8:30 AM  
Logged-in by: Katie Jahanmir  
Log-in Date: 5/24/2007  
Log-in Time: 11:32 AM

Airbill present? Yes  
Airbill # 857329316900  
Courier: FedEx

Custody seal present? Yes  
Custody seal intact? Yes  
COC Present? Yes  
COC/Sample tag agree? Yes  
COC Number: N/A

Comments:

Lab ID:

**01** Matrix/Sub-Matrix: Water,  
Sample Tag #: MFAR-7 RM 26.0 Preservation: none  
Collection Date/Time: 5/22/2007, 8:00:00 AM Acid Lot#: n/a  
Container Type and Lot #: FLPE bottle, 06-351 pH: Filtered?: No  
Size: 250-mL Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg EPA 1631

**02** Matrix/Sub-Matrix: Water,  
Sample Tag #: DC-1 RM 8.5 Preservation: none  
Collection Date/Time: 5/22/2007, 9:45:00 AM Acid Lot#: n/a  
Container Type and Lot #: FLPE bottle, 06-351 pH: Filtered?: No  
Size: 250-mL Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg EPA 1631

**03** Matrix/Sub-Matrix: Water,  
Sample Tag #: DC-2 RM 8.0 Preservation: none  
Collection Date/Time: 5/22/2007, 10:40:00 AM Acid Lot#: n/a  
Container Type and Lot #: FLPE bottle, 06-351 pH: Filtered?: No  
Size: 250-mL Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg EPA 1631



Lab ID:

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<b>10</b>	Sample Tag #: HH-2 Collection Date/Time: 5/22/2007, 10:30:00 AM ContainerType and Lot #: FLPE bottle, 06-351 Size: 250-mL	Matrix/Sub-Matrix: Water, Preservation: none Acid Lot#: n/a pH: Sample Storage Location: Cabinet #5	Filtered?: No
<u>Comments:</u>			
Analysis / Method: Hg EPA 1631			
<hr/>			
<b>11</b>	Sample Tag #: HH-2 (S) Collection Date/Time: 5/22/2007, 11:00:00 AM ContainerType and Lot #: FLPE bottle, 06-351 Size: 250-mL	Matrix/Sub-Matrix: Water, Preservation: none Acid Lot#: n/a pH: Sample Storage Location: Cabinet #5	Filtered?: No
<u>Comments:</u>			
Analysis / Method: Hg EPA 1631			
<hr/>			
<b>12</b>	Sample Tag #: HH-3 Collection Date/Time: 5/22/2007, 11:30:00 AM ContainerType and Lot #: FLPE bottle, 06-351 Size: 250-mL	Matrix/Sub-Matrix: Water, Preservation: none Acid Lot#: n/a pH: Sample Storage Location: Cabinet #5	Filtered?: No
<u>Comments:</u>			
Analysis / Method: Hg EPA 1631			
<hr/>			
<b>13</b>	Sample Tag #: HH-3 (S) Collection Date/Time: 5/22/2007, 12:00:00 PM ContainerType and Lot #: FLPE bottle, 06-351 Size: 250-mL	Matrix/Sub-Matrix: Water, Preservation: none Acid Lot#: n/a pH: Sample Storage Location: Cabinet #5	Filtered?: No
<u>Comments:</u>			
Analysis / Method: Hg EPA 1631			
<hr/>			
<b>14</b>	Sample Tag #: HH-1 Collection Date/Time: 5/22/2007, 1:00:00 PM ContainerType and Lot #: FLPE bottle, 06-351 Size: 250-mL	Matrix/Sub-Matrix: Water, Preservation: none Acid Lot#: n/a pH: Sample Storage Location: Cabinet #5	Filtered?: No
<u>Comments:</u>			
Analysis / Method: Hg EPA 1631			
<hr/>			
<b>15</b>	Sample Tag #: HH-1 (S) Collection Date/Time: 5/22/2007, 1:45:00 PM ContainerType and Lot #: FLPE bottle, 06-351 Size: 250-mL	Matrix/Sub-Matrix: Water, Preservation: none Acid Lot#: n/a pH: Sample Storage Location: Cabinet #5	Filtered?: No
<u>Comments:</u>			
Analysis / Method: Hg EPA 1631			

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Lab ID:

16

Sample Tag #: MFAR-7 RM 26.0  
Collection Date/Time: 5/22/2007, 8:00:00 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 #5

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)

17

Sample Tag #: DC-1 RM 8.5  
Collection Date/Time: 5/22/2007, 9:45:00 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 #5

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 #: DC-2 RM 8.0  
Collection Date/Time: 5/22/2007, 10:40:00 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 #5

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)

19

Sample Tag #: MFAR-1 RM 51.5  
Collection Date/Time: 5/22/2007, 11:40:00 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 #5

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)

20

Matrix/Sub-Matrix: Water,

Sample Tag #: MFAR-2 RM 46.5  
Collection Date/Time: 5/22/2007, 12:30:00 PM  
ContainerType and Lot #: HDPE bottle, 07-097  
Size: 250-mL  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #5

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)

21

Matrix/Sub-Matrix: Water,

Sample Tag #: RR-2B  
Collection Date/Time: 5/22/2007, 2:00:00 PM  
ContainerType and Lot #: HDPE bottle, 07-097  
Size: 250-mL  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #5

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)

22

Matrix/Sub-Matrix: Water,

Sample Tag #: RR-2 EC  
Collection Date/Time: 5/22/2007, 2:40:00 PM  
ContainerType and Lot #: HDPE bottle, 07-097  
Size: 250-mL  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #5

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:

23

Matrix/Sub-Matrix: Water,

Sample Tag #: RR-2 DEC

Preservation: none

Collection Date/Time: 5/22/2007, 2:50:00 PM

Acid Lot#: n/a

ContainerType and Lot #: HDPE bottle, 07-097

pH:

Filtered?: Yes

Size: 250-mL

Sample Storage Location: Cabinet #5

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)

24

Matrix/Sub-Matrix: Water,

Sample Tag #: RR-2A

Preservation: none

Collection Date/Time: 5/22/2007, 3:10:00 PM

Acid Lot#: n/a

ContainerType and Lot #: HDPE bottle, 07-097

pH:

Filtered?: Yes

Size: 250-mL

Sample Storage Location: Cabinet #5

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)

25

Matrix/Sub-Matrix: Water,

Sample Tag #: HH-2

Preservation: none

Collection Date/Time: 5/22/2007, 10:30:00 AM

Acid Lot#: n/a

ContainerType and Lot #: HDPE bottle, 07-097

pH:

Filtered?: Yes

Size: 250-mL

Sample Storage Location: Cabinet #5

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)

26

Matrix/Sub-Matrix: Water,

Sample Tag #: HH-2 (S)

Preservation: none

Collection Date/Time: 5/22/2007, 11:00:00 AM

Acid Lot#: n/a

ContainerType and Lot #: HDPE bottle, 07-097

pH:

Filtered?: Yes

Size: 250-mL

Sample Storage Location: Cabinet #5

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)

27

Matrix/Sub-Matrix: Water,

Sample Tag #: HH-3  
Collection Date/Time: 5/22/2007, 11:30:00 AM  
ContainerType and Lot #: HDPE bottle, 07-097  
Size: 250-mL  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #5

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)

28

Matrix/Sub-Matrix: Water,

Sample Tag #: HH-3 (S)  
Collection Date/Time: 5/22/2007, 12:00:00 PM  
ContainerType and Lot #: HDPE bottle, 07-097  
Size: 250-mL  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #5

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)

29

Matrix/Sub-Matrix: Water,

Sample Tag #: HH-1  
Collection Date/Time: 5/22/2007, 1:00:00 PM  
ContainerType and Lot #: HDPE bottle, 07-097  
Size: 250-mL  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #5

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:

30

Matrix/Sub-Matrix: Water,

Sample Tag #: HH-1 (S)

Preservation: none

Collection Date/Time: 5/22/2007, 1:45:00 PM

Acid Lot#: n/a

ContainerType and Lot #: HDPE bottle, 07-097

pH:

Filtered?: Yes

Size: 250-mL

Sample Storage Location: Cabinet #5

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)

*Hawley* 5/25/07 updated  
Sample Custodian signature Date

*Tiffany Stelwate* 5/28/07  
Reviewed By signature Date



### Sample Receiving Log

Tracking # **07BR0741**

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

BRL Project Manager: Amanda Fawley

Due Date: 6/22/2007  
Receiving Date: 5/25/2007  
Receiving Time: 8:30 AM  
Logged-in by: Katie Jahanmir  
Log-in Date: 5/25/2007  
Log-in Time: 2:48 PM

QA Level Standard  
Sample Condition Intact  
Shipping container intact? Yes  
Shipping container type: Cooler  
Shipping container temp: See Comments  
Shipping container coolant: Ice  
Sample Turnaround Time:  
Contract Turnaround Time: 28 days

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

Comments: Cooler 1: 857329313658, ice, 4.0 C Cooler 2: 857329313670, ice, 4.2 C Sample tag and COC do not match for ICP-MS sample "RR-4 RM 22.5", sample logged in as on COC.

Lab ID:

**01** Matrix/Sub-Matrix: Water,  
Sample Tag #: SFRR-1 RM 0.0 Preservation: none  
Collection Date/Time: , 11:00:00 AM Acid Lot#: n/a  
ContainerType and Lot #: FLPE bottle, 06-325 pH: Filtered?: No  
Size: 500-mL Sample Storage Location: Cabinet #5  
Comments: 250 mL of extra volume stored with sample  
Analysis / Method: Hg EPA 1631

**02** Matrix/Sub-Matrix: Water,  
Sample Tag #: RR-3 RM 23.0 Preservation: none  
Collection Date/Time: , 11:40:00 AM Acid Lot#: n/a  
ContainerType and Lot #: FLPE bottle, 07-099 pH: Filtered?: No  
Size: 250-mL Sample Storage Location: Cabinet #5  
Comments:  
Analysis / Method: Hg EPA 1631

**03** Matrix/Sub-Matrix: Water,  
Sample Tag #: RR-4 RM 22.5 Preservation: none  
Collection Date/Time: , 12:20:00 PM Acid Lot#: n/a  
ContainerType and Lot #: FLPE bottle, 07-099 pH: Filtered?: No  
Size: 250-mL Sample Storage Location: Cabinet #5  
Comments:  
Analysis / Method: Hg EPA 1631

Lab ID:

04  
Sample Tag #: Field Blank 2  
Collection Date/Time: , 2:30:00 PM  
ContainerType and Lot #: FLPE bottle, 07-099  
Size: 250-mL  
Matrix/Sub-Matrix: Water, Blank  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: No  
Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg EPA 1631 Do Not Spike

05  
Sample Tag #: RR-1 RM 36.0  
Collection Date/Time: 5/24/2007, 10:20:00 AM  
ContainerType and Lot #: FLPE bottle, 07-099  
Size: 250-mL  
Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: No  
Sample Storage Location: Cabinet #5

Comments:

Analysis / Method: Hg EPA 1631

06  
Sample Tag #: SFRR-1 RM 0.0  
Collection Date/Time: , 11:00:00 AM  
ContainerType and Lot #: HDPE bottle,  
Size: 250-mL  
Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #5

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)

07  
Sample Tag #: RR-3 RM 23.0  
Collection Date/Time: , 11:40:00 AM  
ContainerType and Lot #: HDPE bottle,  
Size: 250-mL  
Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #5

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:

08

Sample Tag #: RR-4 RM 22.5  
Collection Date/Time: , 12:20:00 PM  
ContainerType and Lot #: HDPE bottle,  
Size: 250-mL

Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #5

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)

09

Sample Tag #: Field Blank 2  
Collection Date/Time: , 2:30:00 PM  
ContainerType and Lot #: HDPE bottle,  
Size: 250-mL

Matrix/Sub-Matrix: Water, Blank  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #5

Comments:

Analysis / Method:	As	EPA 1638 Mod. (ICP-MS)	Do Not Spike
Analysis / Method:	Cd	EPA 1638 Mod. (ICP-MS)	Do Not Spike
Analysis / Method:	Cr	EPA 1638 Mod. (ICP-MS)	Do Not Spike
Analysis / Method:	Cu	EPA 1638 Mod. (ICP-MS)	Do Not Spike
Analysis / Method:	Fe	EPA 1638 Mod. (ICP-MS)	Do Not Spike
Analysis / Method:	Mg	EPA 1638 Mod. (ICP-MS)	Do Not Spike
Analysis / Method:	Ni	EPA 1638 Mod. (ICP-MS)	Do Not Spike
Analysis / Method:	Pb	EPA 1638 Mod. (ICP-MS)	Do Not Spike

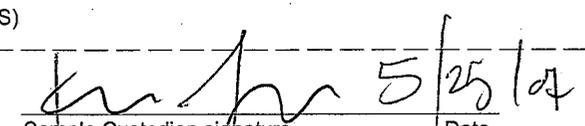
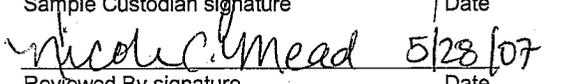
10

Sample Tag #: RR-1 RM 36.0  
Collection Date/Time: 5/24/2007, 10:20:00 AM  
ContainerType and Lot #: HDPE bottle,  
Size: 250-mL

Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: Yes  
Sample Storage Location: Cabinet #5

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)

  
Sample Custodian signature | Date 5/25/07  
  
Reviewed By signature | Date 5/28/07



# Chain Of Custody Record

Page 1 of 2  
 White: LAB COPY  
 Yellow: CUSTOMER COPY

Client: **ENTRIX**  
 Contact: **CORAUE DAYNE**  
 Address: **590 YONNACIO VALLEY RD  
 WALNUT CREEK, CA 94596**

Phone #: **925-988-1234**  
 PO #:

COC receipt confirmation? (Y/N)  
 If yes, by Fax / Email (circle one)

Fax #:  
 Email:  
 Sampler's name: **J ALDRIN**  
 Client project ID: **ENX007**  
 BRL project ID: **ENX007**

Ship to: **Brooks Rand LLC**  
 3958 6<sup>th</sup> Avenue NW  
 Seattle, WA 98107  
 Phone: 206-632-6206  
 Fax: 206-632-6017  
 Email: **samples@brookstrand.com**  
 www.brooksrand.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 <sub>3</sub> /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)
1 MFAR-TRM 26.0	5-22-07	0800	CBJA	H <sub>2</sub> O	2		X			X								
2 DC-1 RM 8.5	5-22-07	0945	CBJA	H <sub>2</sub> O	2		X			X								
3 DC-2 RM 8.0	5-22-07	1040	CBJA	H <sub>2</sub> O	2		X			X								
4 MFAR-1 RM 51.5	5-22-07	1140	CBJA	H <sub>2</sub> O	2		X			X								
5 MFAR-2 RM 46.5	5-22-07	1220	CBJA	H <sub>2</sub> O	2		X			X								
6 RR-2B	5-22-07	1400	CBJA	H <sub>2</sub> O	2		X			X								
7 RR-2 EC	5-22-07	1440	CBJA	H <sub>2</sub> O	2		X			X								
8 RA-2 DEC	5-22-07	1450	CBJA	H <sub>2</sub> O	2		X			X								
9 RR-2A	5-22-07	1510	CBJA	H <sub>2</sub> O	2		X			X								
10																		

Relinquished by: **Julia Aldy** Date: **5-22-07** Time: **1900**

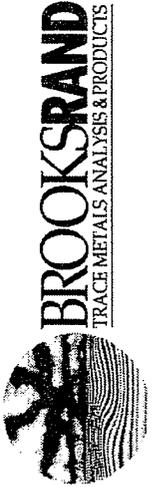
Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipping carrier: \_\_\_\_\_ # of coolers: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received at BRL by: **for** Date: **24/07** Time: **0830**

BRL Tracking #: **07BR0714**



**Chain Of Custody Record**

<b>Client:</b> ENTRIX	<b>COC receipt confirmation? (Y/N)</b>	<b>Ship to: Brooks Rand LLC</b>
<b>Contact:</b> CORALIE DAYDE	<b>If yes, by Fax / Email (circle one)</b>	3958 6 <sup>th</sup> Avenue NW
<b>Address:</b> 590 YONACIO VALLEY RD WALNUT CREEK, CA 94596	<b>Fax #:</b>	Seattle, WA 98107
	<b>Email:</b>	Phone: 206-632-6206
	<b>Sampler's name:</b> C DAYDE	Fax: 206-632-6017
	<b>Client project ID:</b> ENX002	Email: samples@brooksrand.com
	<b>BRL project ID:</b> ENX002	www.brooksrand.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 <sub>3</sub> /BCl (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)
1 HH-2	5/22	10:30	CD/BF	H <sub>2</sub> O	2		X		X							X		
2 HH-2 (S)	5/22	11:00	CD/BF	H <sub>2</sub> O	2		X		X							X		
3 HH-3	5/22	11:30	CD/BF	H <sub>2</sub> O	2		X		X							X		
4 HH-3 (S)	5/22	12:00	CD/BF	H <sub>2</sub> O	2		X		X							X		
5 HH-1	5/22	13:00	CD/BF	H <sub>2</sub> O	2		X		X							X		
6 HH-1 (S)	5/22	13:45	CD/BF	H <sub>2</sub> O	2		X		X							X		
7																		
8																		
9																		
10																		

<b>Relinquished by:</b> Coralie Dayde	<b>Date:</b> 5/22/07	<b>Time:</b> 1900	<b>Received by:</b>	<b>Date:</b>	<b>Time:</b>
<b>Relinquished by:</b>	<b>Date:</b>	<b>Time:</b>	<b>Received at BRL by:</b> [Signature]	<b>Date:</b> 5/24/07	<b>Time:</b> 0630
<b>Shipping carrier:</b>	<b># of coolers:</b>		<b>BRL Tracking #:</b> 07BR0714		



**BROOKSRAND**  
TRACE METALS ANALYSIS & PRODUCTS

**Chain Of Custody Record**

<b>Client:</b> ENTRIX	<b>COC receipt confirmation?</b> (Y/N) <input checked="" type="checkbox"/>	<b>Ship to:</b> Brooks Rand LLC
<b>Contact:</b> CHARLIE DAYDE	<b>If yes, by Fax / Email</b> (circle one)	3958 6 <sup>th</sup> Avenue NW
<b>Address:</b> 590 Ygnacio Valley rd, Ste 200	<b>Fax #:</b>	Seattle, WA 98107
Walnut Creek CA 94596	<b>Email:</b>	Phone: 206-632-6206
<b>Phone #:</b> 925-988-1234	<b>Sampler's name:</b> Charlie Dayde - J. Admin	Fax: 206-632-6017
<b>PO #:</b>	<b>Client project ID:</b>	Email: samples@brooksrand.com
	<b>BRL project ID:</b> ENX002	www.brooksrand.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 <sub>3</sub> /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) As Cd Cu Pb Hg Ni Wc Fe	Other (specify)	Other (specify)
1 SFRR-1 RH 0-0		11:00	CDJA	H <sub>2</sub> O	1	Y				X									
2 SFRR-1 RH 0-0		11:00	CDJA	H <sub>2</sub> O	2	N				X									
3 RR-3 RH 23-0		11:40	CDJA	H <sub>2</sub> O	2					X									
4 RR-4 RH 22.5		12:20	CDJA	H <sub>2</sub> O	2					X									
5 Field Blank 2		14:30	CDJA		2					X									
6																			
7																			
8																			
9																			
10																			

<b>Relinquished by:</b> Charlie Dayde	<b>Date:</b> 5/23/07	<b>Time:</b> 0700	<b>Received by:</b>	<b>Date:</b>	<b>Time:</b>
<b>Relinquished by:</b>	<b>Date:</b>	<b>Time:</b>	<b>Received at BRL by:</b> [Signature]	<b>Date:</b> 5/25/07	<b>Time:</b> 0830
<b>Shipping carrier:</b>	<b># of coolers:</b>		<b>BRL Tracking #:</b> 07BR0741		