



**BROOKSRAND**  
TRACE METALS ANALYSIS & PRODUCTS

June 25, 2007

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

RE: Brooks Rand Project: ENX002; Report #: 07BR0763 & 07BR0771

Dear Mr. Frantz,

Four containers were received by Brooks Rand Labs (BRL) on May 31, 2007 and were assigned the BRL internal tracking number 07BR0763. Another fourteen containers, including two field blanks, were received on June 1, 2007 and were assigned the BRL internal tracking number 07BR0761. 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 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 details.


Due to an analytical error, the fourth method blank (MB) was not used to MB correct the results in Hg batch #07-0620. These results were blank-corrected with the average of the three remaining MBs.

The Cu concentration in the "Field Blank" (07BR0771-14) sample was above the method detection limit (MDL) and below the practical quantitation limit (PQL). Although this result was above the MDL, it was unquantifiable and not representative of contamination in the associated samples.

Due to a previous contamination issue, the certified reference material (CRM) NIST 1643e is no longer certified for Fe, therefore the Fe recovery was not applicable. 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@brooksrands.com

  
Amy Durdle  
Project Coordinator  
amy@brooksrands.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 #** 07BR0763**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**

RA-1

5/28/2007

Water

07BR0763 - 01

5/31/2007

RA-1 (S)

5/28/2007

Water

07BR0763 - 02

5/31/2007

RA-1

5/28/2007

Water

07BR0763 - 03

5/31/2007

RA-1 (S)

5/28/2007

Water

07BR0763 - 04

5/31/2007

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**As**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.200	µg/L	B
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.220	µg/L	

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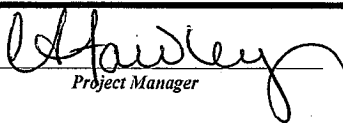
**Cd**

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U

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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)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U

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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)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.390	µg/L	
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.340	µg/L	

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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)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	8.300	µg/L	
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	5.400	µg/L	

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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)
RA-1	07BR0763 - 01	T	6/1/2007	6/5/2007	07-0567	0.680	ng/L	
RA-1 (S)	07BR0763 - 02	T	6/1/2007	6/5/2007	07-0567	0.340	ng/L	B

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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)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	862.000	µg/L	
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	1,020.000	µg/L	

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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)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.090	µg/L	B
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.090	µg/L	B

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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)
RA-1	07BR0763 - 03	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
RA-1 (S)	07BR0763 - 04	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U

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**Lab Project #** ENX002**Lab Tracking #** 07BR0771**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
FM-1	5/31/2007	Water		07BR0771 - 01	6/1/2007
FM-1 (S)	5/31/2007	Water		07BR0771 - 02	6/1/2007
FM-2	5/31/2007	Water		07BR0771 - 03	6/1/2007
FM-2 (S)	5/31/2007	Water		07BR0771 - 04	6/1/2007
FM-3	5/31/2007	Water		07BR0771 - 05	6/1/2007
FM-3 (S)	5/31/2007	Water		07BR0771 - 06	6/1/2007
Field Blank	5/31/2007	Water	Blank	07BR0771 - 07	6/1/2007
FM-1	5/31/2007	Water		07BR0771 - 08	6/1/2007
FM-1 (S)	5/31/2007	Water		07BR0771 - 09	6/1/2007
FM-2	5/31/2007	Water		07BR0771 - 10	6/1/2007
FM-2 (S)	5/31/2007	Water		07BR0771 - 11	6/1/2007
FM-3	5/31/2007	Water		07BR0771 - 12	6/1/2007
FM-3 (S)	5/31/2007	Water		07BR0771 - 13	6/1/2007
Field Blank	5/31/2007	Water	Blank	07BR0771 - 14	6/1/2007

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**Lab Project #** ENX002**Lab Tracking #** 07BR0771**Lab Services Agreement** ENX002**As**

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	0.120	µg/L	B
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.130	µg/L	B
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.110	µg/L	B
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.130	µg/L	B
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.120	µg/L	B
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.110	µg/L	B
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.060	µg/L	U

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**Lab Project #** ENX002**Lab Tracking #** 07BR0771**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)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.004	µg/L	U

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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.030	µg/L	U

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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)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	0.220	µg/L	
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.190	µg/L	B
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.180	µg/L	B
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.190	µg/L	B
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.180	µg/L	B
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.180	µg/L	B
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.090	µg/L	B

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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)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	2.200	µg/L	B
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	1.400	µg/L	U
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	1.400	µg/L	U
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	1.400	µg/L	U
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	1.400	µg/L	U
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	4.100	µg/L	B
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	1.400	µg/L	U

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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)
FM-1	07BR0771 - 01	T	6/14/2007	6/15/2007	07-0620	0.860	ng/L	
FM-1 (S)	07BR0771 - 02	T	6/14/2007	6/15/2007	07-0620	0.290	ng/L	B
FM-2	07BR0771 - 03	T	6/14/2007	6/15/2007	07-0620	0.420	ng/L	
FM-2 (S)	07BR0771 - 04	T	6/14/2007	6/15/2007	07-0620	0.350	ng/L	B
FM-3	07BR0771 - 05	T	6/14/2007	6/15/2007	07-0620	0.610	ng/L	
FM-3 (S)	07BR0771 - 06	T	6/14/2007	6/15/2007	07-0620	0.340	ng/L	B
Field Blank	07BR0771 - 07	T	6/14/2007	6/15/2007	07-0620	0.150	ng/L	U

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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)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	608.000	µg/L	
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	626.000	µg/L	
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	582.000	µg/L	
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	641.000	µg/L	
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	585.000	µg/L	
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	593.000	µg/L	
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.600	µg/L	U

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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)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.040	µg/L	U

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**Pb**

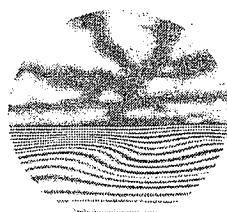
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Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
FM-1	07BR0771 - 08	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
FM-1 (S)	07BR0771 - 09	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
FM-2	07BR0771 - 10	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
FM-2 (S)	07BR0771 - 11	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
FM-3	07BR0771 - 12	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
FM-3 (S)	07BR0771 - 13	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U
Field Blank	07BR0771 - 14	D	6/11/2007	6/12/2007	07-0586	0.010	µg/L	U

Friday, June 22, 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 #: 07-0567

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	5.37	107%
CCV2	5.00	4.80	96%
CCV3	5.00	4.87	97%

BIAS Criterion: Recovery = 85-115%			
Independent Calibration Verification (ICV)			
QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
ICV*	16.01	15.81	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 %	
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) 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
0.02	0.05	0.02	0.04	0.03	0.01	0.15	0.40

1% BrCl MB prepared in quadruplicate.

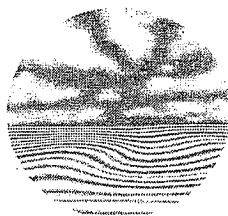
Average MB result multiplied by appropriate factor to produce correction factor for each sample preservation BrCl level.

Sample Specific Detection Limits		
Sample ID	MDL ng/L	PQL ng/L
07BR0758-01	0.77	2.04

*Nicole C. Mead*  
Quality Assurance Officer

*C. 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 #: 07-0620

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	4.64	93%
CCV2	5.00	4.90	98%
CCV3	5.00	4.32	86%
CCV4	5.00	4.30	86%

BIAS Criterion: Recovery = 85-115% Independent Calibration Verification (ICV)			
QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
ICV*	16.01	15.13	95%

\* 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 %	
07BR0771-06	0.34	1.00	1.28	94%	1.02	1.28	93%	0%
07BR0793-01	1.17	2.53	3.58	95%	2.52	3.56	95%	1%

1.0% BrCl Method Blanks (MB) Criterion: MB < 0.5 ng/L					Method Detection Limits	
MB1 ng/L	MB2 ng/L	MB3 ng/L	Average ng/L	StDev ng/L	MB MDL ng/L	MB PQL ng/L
0.03	0.01	0.03	0.02	0.01	0.15	0.40

1% BrCl MB prepared in quadruplicate, MB4 not analyzed due to analytical error. See narrative.

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

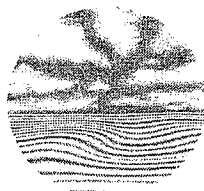
Sample Specific Detection Limits		
Sample ID	MDL ng/L	PQL ng/L
07BR0772-01	0.27	0.72

*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 #:** 07-0586

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

**Analyte:** Trace Metals

**Matrix:** Water

BIAS <span style="float: right;">Criterion: Recovery = 85-115%</span>			
Independent Calibration Verification (ICV)			
Analyte	Certified Value µg/L	Measured Value µg/L	Recovery %
Mg	50.00	55.83	112%
Cr	50.00	50.38	101%
Fe	50.0	51.9	104%
Ni	50.00	53.03	106%
Cu	50.00	50.44	101%
As	50.00	49.97	100%
Cd	5.000	4.983	100%
Pb	5.00	5.14	103%

BIAS <span style="float: right;">Criteria: Recovery = 75-125%</span>						
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	6111	105%	8037	8423	105%
Cr	38.6	39.2	102%	20.4	21.5	106%
Fe	34.3	37.6	110%	98.1	*	N/A
Ni	27.4	29.3	107%	62.41	66.28	106%
Cu	85.2	88.2	104%	22.76	23.11	102%
As	26.67	26.43	99%	60.45	57.06	94%
Cd	22.79	23.19	102%	6.568	6.778	103%
Pb	27.89	31.16	112%	19.63	20.31	103%

\* NIST 1643e is not appropriate for the analysis of iron due to contamination of the source. See case narrative.

BIAS <span style="float: right;">Criteria: Recovery = 75-125%, RPD ≤25%</span>								
Sample 07BR0771-08 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	607.7	2000	2658	102%	2000	2776	108%	4%
Cr	-0.07	1.00	0.87	94%	1.00	0.88	95%	2%
Fe	2.2	20.0	20.9	93%	20.0	21.6	97%	3%
Ni	0.04	1.00	1.00	96%	1.00	1.03	99%	3%
Cu	0.22	1.00	1.25	102%	1.00	1.38	116%	10%
As	0.12	1.00	1.08	96%	1.00	1.08	96%	0%
Cd	0.002	0.500	0.518	103%	0.500	0.541	108%	4%
Pb	0.01	0.50	0.58	113%	0.50	0.58	114%	1%

  
Quality Assurance Officer  
  
Project Manager

# QUALITY ASSURANCE SUMMARY

Batch #: 07-0586 (continued)

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

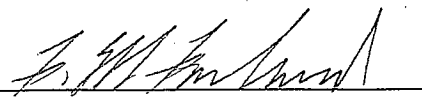
Analyte: Trace Metals

Matrix: Water

PRECISION <span style="float: right;">Criteria: <math>RPD \leq 25\%</math> or results <math>\pm PQL</math> if <math>\leq 5x PQL</math></span>				
Sample 07BR0771-08 Method Duplicate Analysis (MD)				
Analyte	Sample Value $\mu\text{g/L}$	Duplicate Value $\mu\text{g/L}$	Average Value $\mu\text{g/L}$	Duplicate RPD
Mg	607.7	582.6	595.2	4%
Cr	-0.07	-0.10	-0.08	***
Fe	2.2	1.8	2.0	***
Ni	0.04	0.04	0.04	***
Cu	0.22	0.22	0.22	***
As	0.12	0.10	0.11	***
Cd	0.002	0.002	0.002	***
Pb	0.01	0.01	0.01	***

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

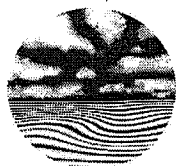
Method Blanks (MB) <span style="float: right;">Criteria: <math>\text{Avg.} \leq PQL</math> and <math>\text{StDev} \leq MDL</math> or <math>&lt; 1/10\text{th}</math> sample result</span>							Method Detection Limits	
Analyte	MB1 $\mu\text{g/L}$	MB2 $\mu\text{g/L}$	MB3 $\mu\text{g/L}$	MB4 $\mu\text{g/L}$	Average $\mu\text{g/L}$	StDev $\mu\text{g/L}$	MDL $\mu\text{g/L}$	PQL $\mu\text{g/L}$
Mg	-0.21	-0.08	-0.21	-0.20	-0.17	0.06	0.60	3.00
Cr	0.00	0.00	-0.01	0.03	0.01	0.01	0.03	0.15
Fe	0.2	0.3	-0.1	1.3	0.4	0.6	1.4	5.0
Ni	-0.16	-0.13	-0.16	-0.16	-0.15	0.01	0.04	0.20
Cu	-0.01	0.00	-0.01	-0.01	-0.01	0.00	0.04	0.20
As	-0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.20
Cd	0.000	0.000	-0.001	0.000	0.000	0.000	0.004	0.010
Pb	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05



Quality Assurance Officer



Project Manager



**BROOKSRAND**  
TRACE METALS ANALYSIS & PRODUCTS

3958 6<sup>th</sup> Avenue NW  
Seattle, WA 98107  
www.brooksrand.com

Phone: 206-632-6206  
Fax: 206-632-6017  
Email: brl@brooksrand.com

## Sample Receiving Log

Tracking # **07BR0763**

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: 8.6 C

Shipping container coolant: Ice

Sample Turnaround Time:

Contract Turnaround Time: 28 days

Due Date: 6/28/2007

Receiving Date: 5/31/2007

Receiving Time: 8:45 AM

Logged-in by: Katie Jahanmir

Log-in Date: 5/31/2007

Log-in Time: 10:18 AM

Airbill present? Yes

Airbill # 857329316771

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**

Sample Tag #: RA-1

Collection Date/Time: 5/28/2007, 10:40:00 AM

ContainerType and Lot #: FLPE bottle, 06-351

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

**02**

Sample Tag #: RA-1 (S)

Collection Date/Time: 5/28/2007, 12:30:00 PM

ContainerType and Lot #: FLPE bottle, 06-351

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

**03**

Sample Tag #: RA-1

Collection Date/Time: 5/28/2007, 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)

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)

04

Matrix/Sub-Matrix: Water,

Sample Tag #: RA-1 (S)

Preservation: none

Collection Date/Time: 5/28/2007, 12:30:00 PM

Acid Lot#: n/a

ContainerType and Lot #: HDPE bottle, 07-097

pH:

Filtered?: Yes

Size: 250-mL

Sample Storage Location: Cabinet #5

Comments:

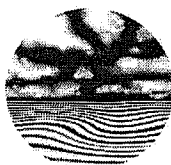
Analysis / Method:	As	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Cd	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Cr	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Cu	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Fe	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Mg	EPA 1638 Mod. (ICP-MS)
Analysis / Method:	Ni	EPA 1638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

Sample Custodian signature

Date

Reviewed By signature

Date



**BROOKSRAND**  
TRACE METALS ANALYSIS & PRODUCTS

3958 6<sup>th</sup> Avenue NW

Seattle, WA 98107

www.brooksrand.com

Phone: 206-632-6206

Fax: 206-632-6017

Email: brl@brooksrand.com

## Sample Receiving Log

Tracking # 07BR0771

Customer: Entrix, Inc.

Contact: Brian Frantz

Project Ref. #: ENX002

BRL Project Manager: Amanda Fawley

Due Date: 6/29/2007

Receiving Date: 6/1/2007

Receiving Time: 8:30 AM

Logged-in by: Katie Jahanmir

Log-in Date: 6/1/2007

Log-in Time: 12:49 PM

QA Level Standard

Sample Condition Intact

Shipping container intact? Yes

Shipping container type: Cooler

Shipping container temp: 7.0 C

Shipping container coolant: Ice

Sample Turnaround Time:

Contract Turnaround Time: 28 days

Airbill present? Yes

Airbill # 857329316750

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

Sample Tag #: FM-1

Collection Date/Time: 5/31/2007, 8:40:00 AM

ContainerType and Lot #: FLPE bottle, 06-351

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: No

Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg

EPA 1631

02

Sample Tag #: FM-1 (S)

Collection Date/Time: 5/31/2007, 9:30:00 AM

ContainerType and Lot #: FLPE bottle, 06-351

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: No

Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg

EPA 1631

03

Sample Tag #: FM-2

Collection Date/Time: 5/31/2007, 10:40:00 AM

ContainerType and Lot #: FLPE bottle, 06-351

Size: 250-mL

Matrix/Sub-Matrix: Water,

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: No

Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg

EPA 1631

Lab ID:

04

Sample Tag #: FM-2 (S)  
Collection Date/Time: 5/31/2007, 10:00:00 AM  
ContainerType and Lot #: FLPE bottle, 06-351  
Size: 250-mL

Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: No  
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg EPA 1631

05

Sample Tag #: FM-3  
Collection Date/Time: 5/31/2007, 12:15:00 PM  
ContainerType and Lot #: FLPE bottle, 06-351  
Size: 250-mL

Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: No  
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg EPA 1631

06

Sample Tag #: FM-3 (S)  
Collection Date/Time: 5/31/2007, 1:15:00 PM  
ContainerType and Lot #: FLPE bottle, 06-325  
Size: 500-mL

Matrix/Sub-Matrix: Water,  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: No  
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg EPA 1631

07

Sample Tag #: Field Blank  
Collection Date/Time: 5/31/2007, 8:00:00 AM  
ContainerType and Lot #: FLPE bottle, 06-351  
Size: 250-mL

Matrix/Sub-Matrix: Water, Blank  
Preservation: none  
Acid Lot#: n/a  
pH:  
Filtered?: No  
Sample Storage Location: Cabinet #4

Comments:

Analysis / Method: Hg EPA 1631 Do Not Spike

08

Sample Tag #: FM-1  
Collection Date/Time: 5/31/2007, 8:40:00 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 #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:

09

Sample Tag #: FM-1 (S)  
Collection Date/Time: 5/31/2007, 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)

10

Sample Tag #: FM-2  
Collection Date/Time: 5/31/2007, 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 #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)

11

Sample Tag #: FM-2 (S)  
Collection Date/Time: 5/31/2007, 10:00:00 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 #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)

12

Sample Tag #: FM-3  
Collection Date/Time: 5/31/2007, 12:15:00 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)
--------------------	----	------------------------

## 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)

13

Sample Tag #: FM-3 (S)  
Collection Date/Time: 5/31/2007, 1:15:00 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)

14

Sample Tag #: Field Blank  
Collection Date/Time: 5/31/2007, 8:00:00 AM  
ContainerType and Lot #: HDPE bottle, 07-097  
Size: 250-mL

Matrix/Sub-Matrix: Water, Blank

Preservation: none

Acid Lot#: n/a

pH:

Filtered?: Yes

Sample Storage Location: Cabinet #4

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

Sample Custodian signature

Date

Reviewed By signature

Date





# Chain Of Custody Record

Page 1 of 1

**White: LAB COPY**

Yellow: CUSTOMER COPY

Client: <b>ENOTRIX</b> Contact: <b>Brian Frantz</b> Address: <b>59049gracio valley Rd</b> <b>Walnut Creek Ca 94596</b> Phone #: <b>925-935-9920</b> PO #: <b>925-935-5308</b>			COC receipt confirmation? (Y / N) If yes, by Fax / Email (circle one) Fax #: _____ Email: _____ Sampler's name: _____ Client project ID: _____ BRL project ID: <b>ENX002</b>			Ship to: <b>Brooks Rand LLC</b> 3958 6 <sup>th</sup> Avenue NW Seattle, WA 98107 Phone: 206-632-6206 Fax: 206-632-6017 Email: <a href="mailto:samples@brooksrand.com">samples@brooksrand.com</a> <a href="http://www.brooksrand.com">www.brooksrand.com</a>														
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) <i>As, Cd, Cr, Cu, Fe, Hg, Ni, Pb</i>	Other (specify)	Other (specify)	
1 RA-1	5/26/07	1040	JACM	40	2	Y/N	X			X							X			THg not filtered
2 RA-1 (5)	5/26/07	1230	JACM	40	2	Y	X			X							X			THg not filtered
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Relinquished by: <i>Julia Shaw</i>			Date: 5-29-07		Time: 1700				Received by: <i>[Signature]</i>		Date: 5/31/07		Time: 0845							
Relinquished by: _____			Date: _____		Time: _____				Received at BRL by: _____		Date: _____		Time: _____							
Shipping carrier: _____									BRL Tracking #: <b>07BR0763</b>											



# Chain Of Custody Record

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

Client: <b>ENTRIX</b>		COC receipt confirmation? (Y/N) <b>(N)</b>		Ship to: <b>Brooks Rand LLC</b>																															
Contact: <b>Brian Frantz</b>		If yes, by Fax / Email (circle one)		3958 6 <sup>th</sup> Avenue NW																															
Address: <b>590 Ygnacio Valley Rd</b>		Fax #:		Seattle, WA 98107																															
Woodnut Creek, CA 94596		Email:		Phone: 206-632-6206																															
Phone #: <b>925-935-9920</b>		Sampler's name:		Fax: 206-632-6017																															
PO #: <b>925-935-5368</b>		Client project ID: <b>ENX002</b>		Email: <a href="mailto:samples@brooksrand.com">samples@brooksrand.com</a>																															
BRL project ID: <b>ENX002</b>		www.brooksrand.com																																	
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, Cr, Cu, Fe, Hg, Ni, Pb	Other (specify)	Other (specify)																		
<b>Sample ID</b>																		1	FM-1	08/05/07	5:31	JAC	H2O	2	Y/N	X	X	X	X	X	X	X	X	Total Hg not filtered	
																		2	FM-1 (S)	09/20/07	3:07	JAC	H2O	2	Y/N	X	X	X	X	X	X	X	X	X	
																		3	FM-2	09/20/07	10:46	JAC	H2O	2	Y/N	X	X	X	X	X	X	X	X	X	
																		4	FM-2 (S)	09/20/07	10:00	JAC	H2O	2	Y/N	X	X	X	X	X	X	X	X	X	
																		5	FM-3	09/20/07	12:15	JAC	H2O	2	Y/N	X	X	X	X	X	X	X	X	X	
																		6	FM-3 (S)	09/20/07	13:15	JAC	H2O	2	Y/N	X	X	X	X	X	X	X	X	X	
																		7	Field Blank	09/20/07	08:00	JAC	H2O	2	Y/N	X	X	X	X	X	X	X	X	X	
8																																			
9																																			
10																																			
Relinquished by: <b>[Signature]</b>		Date: <b>5/31/07</b>		Time: <b>1400</b>		Received by: <b>[Signature]</b>		Date: <b>6/1/07</b>		Time: <b>0830</b>																									
Relinquished by: <b>[Signature]</b>		Date: <b>6/1/07</b>		Time: <b>0830</b>		Received at BRL by: <b>[Signature]</b>		Date: <b>6/1/07</b>		Time: <b>0830</b>																									
Shipping carrier: <b>[Signature]</b>		# of coolers: <b>07BR0771</b>				BRL Tracking #:																													