



November 12, 2007

Entrix, Inc
Jillian Aldrin
701 University Ave, Suite 200
Sacramento, CA 95825

RE: Brooks Rand Project: ENX002; Report #: 07BR1467

Dear Ms. Aldrin,

This report details the monomethyl mercury (MMHg) analysis of two fish samples received by Brooks Rand Labs (BRL) on October 23, 2007. One sample was listed on the chain-of-custody (COC) form as "I-U2-BNT-1" and labeled as "INTB-U2-BT-PG". This sample was logged in according to the COC form. The samples were received, stored, prepared, and analyzed according to BRL standard operating procedures (SOPs) and a modification of EPA Method 1630.

Once thawed, the samples were filleted and were homogenized using pre-cleaned commercial grade homogenization equipment. A homogenization blank "HB-07-1221-MMHg" was collected and analyzed with the samples.

Results were blank corrected as described in the calculations section of the applicable BRL SOP and in Method 1630. The result less than or equal to the method detection limit (MDL) has been qualified "U" for non-detect and has been reported at the MDL.

The analysis of the post preparation spike (PPS) performed on a sample from a different sample delivery group 07BR1337-04 yielded a recovery above the control limits. This recovery was not indicative of a sample preparation issue that could affect other sample results as the spike was performed at the instrument. Furthermore, all other spikes at the instrument met the acceptance criteria, therefore, it has been concluded that the elevated PPS recovery was not indicative of analytical or instrumental issues that affect the data quality of other samples analyzed in this batch. All other quality control (QC) samples analyzed with this batch met their respective criteria including the analysis of two method duplicates (MDs), an independent calibration verification standard (ICV), four continuing calibration verification standards (CCVs), and a certified reference material (CRM). 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



Jennifer Holmes
Client Services Manager
jennifer@brooksrand.com

Reported by
Brooks Rand LLC

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

Lab Project # ENX002
Lab Tracking # 07BR1467

Summary of Results for
Entrix, Inc.

Contact: Jillian Aldrin
701 University Ave Suite 200
Sacramento CA 95825
Tel: 916-386-3824

Lab Services Agreement ENX002

Sample/Sampling/Receiving Info

Entrix, Inc.

BRL

Sample Identification	Sampling Date	Matrix	Submatrix	Sample Number	Receiving Date
I-U2-BNT-1	9/21/2007	Biota	Fish	07BR1467 - 01	10/23/2007
OC-RBT-1	10/16/2007	Biota	Fish	07BR1467 - 02	10/23/2007
HB-07-1221-MMHg	10/24/2007	Biota	blank	07BR1467 - 03	10/23/2007

Monday, November 12, 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

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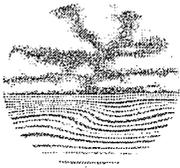
Hg(Monomethyl)

Sample Identification	BRL Number	Total or Dissolved	Preparation date	Analysis date	Batch #	Result	Units	Qualifier (Q)
IU2-BNT-1	07BR1467 - 01	T		11/5/2007	07-1182a	49.900	ng/g	
OC-RBT-1	07BR1467 - 02	T		11/5/2007	07-1182a	81.200	ng/g	
HB-07-1221-MMHg	07BR1467 - 03	T		11/5/2007	07-1182a	1.000	ng/g	U

Monday, November 12, 2007


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 #: 07-1182a

Method #: BR-0011

Analyte: MMHg

Matrix: Biota

BIAS Independent Calibration Verification (ICV)			
Criterion: Recovery = 80-120%			
QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
ICV*	7.33	8.50	116%

* The ICV standard is prepared from an aliquot of the CRM DORM-2.

BIAS Continuing Calibration Verification (CCV)			
Criterion: Recovery = 67-133%			
QCS ID	Certified Value ng/L	Measured Value ng/L	Recovery %
CCV1	0.625	0.604	97%
CCV2	0.625	0.460	74%
CCV3	0.625	0.563	90%
CCV4	0.625	0.487	78%

BIAS Certified Reference Material (CRM)			
Criteria: Recovery = 65-135%			
CRM ID	Certified Value ng/g	Measured Value ng/g	Recovery %
DORM-2	4470	4659	104%

BIAS Matrix Spikes/Matrix Spike Duplicates (MS/MSD)								
Criteria: Recovery = 65-135%, RPD ≤ 35%								
Sample ID	Sample Value ng/g AR	Matrix Spike			Matrix Spike Duplicate			Duplicate RPD
		Spiked Value ng/g AR	Measured Value ng/g AR	MS Recovery %	Spiked Value ng/g AR	Measured Value ng/g AR	MSD Recovery %	
07BR1337-04	357	1961	2925	131%	2018	2887	125%	1%
07BR1467-01*	49.9	1718	2134	121%	1992	2583	127%	5%

*Due to the large difference in spiking level, the RPD is calculated using the % recoveries rather than the measured values.

BIAS Post Preparation Spike (PPS)				
Criterion: Recovery = 67-133%				
Sample ID	Sample Value ng/g AR	Spiked Value ng/g AR	Measured Value ng/g AR	PPS Recovery %
07BR1337-04	357	1462	2433	142%
07BR1467-01	49.9	284.9	402.4	124%

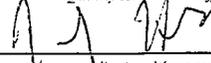
07BR1337-04PPS produced a high recovery, see narrative.

PRECISION Method Duplicate Analysis (MD)				
Criteria: RPD ≤ 35% or results +/- 2xPQL if < 5xPQL				
Sample ID	Sample Value ng/g AR	Duplicate Value ng/g AR	Average Value ng/g AR	RPD
07BR1337-04	357	355	356	1%
07BR1467-01	49.9	47.1	48.5	6%

Method Blanks (MB)					
Criteria: Avg. < 2x MDL, Std Dev < 2/3 MDL					
MB1	MB2	MB3	MB4	Average	StDev
ng/g	ng/g	ng/g	ng/g	ng/g	ng/g
0.2	0.2	0.2	0.1	0.2	0.1

Method Detection Limits	
MDL	PQL
ng/g	ng/g
1.0	3.0

Sample Specific Reporting Limits		
Sample ID	MDL ng/g	PQL ng/g
07BR1337-04	9	26
07BR1337-05	9	26


 Quality Assurance Officer

 Project Manager



3958 6 th Avenue NW	Phone: 206-632-6206
Seattle, WA 98107	Fax: 206-632-6017
www.brooksrand.com	Email: brl@brooksrand.com

Sample Receiving Log

Tracking # **07BR1467**

Customer: Entrix, Inc.
 Contact: Jillian Aldrin
 Project Ref. #: ENX002
 BRL Project Manager: Amanda Fawley

Due Date: 11/20/2007
 Receiving Date: 10/23/2007
 Receiving Time: 8:45 AM
 Logged-in by: Katie Jahanmir
 Log-in Date: 10/23/2007
 Log-in Time: 2:35 PM

QA Level Standard
 Sample Condition Intact
 Shipping container intact? Yes
 Shipping container type: Ziploc Bag
 Shipping container temp: 3.0 C
 Shipping container coolant: Ice
 Sample Turnaround Time:
 Contract Turnaround Time: 28 days

Airbill present? Yes
 Airbill # 848362948344
 Courier: FedEx
 Custody seal present? Yes
 Custody seal intact? Yes
 COC Present? Yes
 COC/Sample tag agree? Yes
 COC Number: N/A

Comments: Client label on sample 01 does not match the COC, sample has been logged in per the COC.

Lab ID:

01	Sample Tag #: I-U2-BNT-1	Matrix/Sub-Matrix: Biota, Fish
	Collection Date/Time: 9/21/2007, 11:15:00 AM	Preservation: none
	ContainerType and Lot #: Ziploc Bag,	Acid Lot#: n/a
	Size:	pH: Filtered?: No
		Sample Storage Location: Freezer #3

Comments:

Analysis / Method:	Filleting	In-House
Analysis / Method:	Hg(Monomethyl)	EPA 1630 Mod.
Analysis / Method:	Homogenization	BR-0103

02	Sample Tag #: OC-RBT-1	Matrix/Sub-Matrix: Biota, Fish
	Collection Date/Time: 10/16/2007,	Preservation: none
	ContainerType and Lot #: Ziploc Bag,	Acid Lot#: n/a
	Size:	pH: Filtered?: No
		Sample Storage Location: Freezer #3

Comments:

Analysis / Method:	Filleting	In-House
Analysis / Method:	Hg(Monomethyl)	EPA 1630 Mod.
Analysis / Method:	Homogenization	BR-0103

Lab ID:

<u>K. J. M.</u>	<u>10/23/07</u>
Sample Custodian signature	Date
<u>Nicola C. Mead</u>	<u>10/24/07</u>
Reviewed By signature	Date



BROOKSRAND
TRACE METALS ANALYSIS & PRODUCTS

Chain Of Custody Record

Client: **ENTRIX**

Contact: **CORALINE DAYDE**

Address: **2300 CRAWFORD RD, Ste 200
CONCORD, CA 94520**

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

PO #:

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

Fax #:

Email:

Sampler's name: **C. DAYDE**

Client project ID: **PCWA WP**

BRL project ID: **ENVX002**

Ship to: **Brooks Rand LLC**

3958 6th Avenue NW

Seattle, WA 98107

Phone: 206-632-6206

Fax: 206-632-6017

Email: samples@brooksrand.com

www.brooksrand.com

Sample ID	Collection		Miscellaneous				Field Preservation			Analyses required					Comments				
	Date	Time	Sampler (initials)	Matrix type	# of containers	Sample field filtered (Y/N)	Unpreserved / ice only	HCl/HNO ₃ /BrCl (circle one)	Other (specify)	Total Hg, EPA 1631	Methyl Hg, EPA 1630	Metals ICP-MS (specify)	As / Se species (specify)	% Solids		Filtration	Other	Other (specify)	Other (specify)
1	I-W2-BNF-1	9/21	11:15	PG	Fish		X			X									Hot fish w/skin off and homogenized individually
2	OC-RBT-1	10/16	?	PG	Fish		X			X									
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: *[Signature]*

Date: **10/22**

Time: **5:40**

Relinquished by:

Date:

Time:

Shipping carrier:

of coolers:

Received by:

Date:

Time:

Received at BRL by: *[Signature]*

Date: **10/27**

Time: **08:05**

BRL Tracking #: **07BR1467**