



# MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

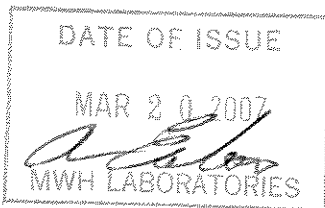
## Laboratory Report

for

Tronox LLC - Henderson  
PO Box 55

Henderson , NV 89009

Attention: Susan Crowley  
Fax: (405) 302-4607



ADE Andy Eaton  
Project Manager



Report#: 197212  
Project: CLO4  
PO#: Susan Crowle

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 14 page[s].



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

197212

MWLABS USE ONLY:

750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629 (626) 386-1100 (800) 566-5227

SAMPLES CHECKED/LOGGED IN BY: FC

SAMPLE TEMP, RECEIPT AT LAB: 6C

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER: COMPANY / PROJECT NAME PROJECT JOB # / P.O.#

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

Table with columns: TIME, DATE, LOCATION, IDENTIFIER, STATE ID#, MATRIX, COMP, GRAB, RAD/CWB (2 Bts), NH3, NH3-DIST, PH, CL03, FE, CR, T-P, TKN, Color, RA228EDD/RA228EDD (2 Bts), CR, NO2-N, NO3-N, N-NOR, SAMPLER COMMENTS

\* MATRIX TYPES: Reported by Volume: CFW = Chlor(ami)nated Finished Water, FW = Other Finished Water, RGW = Raw Ground Water, RSW = Raw Surface Water, CWW = Chlorinated Waste Water, WW = Other Waste Water, SW = Storm Water, Reported by Weight: SO = Soil, SL = Sludge

RELINQUISHED BY: Signature: Michele Brown, RECEIVED BY: Signature: Fidal Chavez, COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant, DATE: 2/26/2007, TIME: 12:00 PM



MWH Laboratories, a Division of MWH Americas, Inc.  
 750 Royal Oaks Avenue Suite 100  
 Monrovia CA 91016 (626) 386-1100 FAX (626) 386-1124

**Bottle Order for Ironox LLC- Henderson**  
 Standing

Andrew Eaton ..... Your MWL Project Manager  
 (626) 386-1125 ..... Direct Phone/Voice Mail

Client Code KERRMC GEE-MP  
 Project Code CLO4  
 PO# / Job#  
 Blanket PO

W Weekly  
 Week 1

SO# 34423 6534 RS

**Sampler: Please Return this Paper with your samples**

0 Ship Sample Kits to  
 Veolia Water-Tronox LLC  
 Gate 1  
 8000 West Lake Mead Drive  
 Henderson, NV 89015

Send Report to  
 Ironox LLC-Henderson Plant  
 P.O. Box 55  
 Henderson, NV 89009

Billing Address  
 Ironox LLC  
 Attn: Accounts Payable  
 P.O. BOX 268859  
 Oklahoma City, OK 73126-8859

Created by  
 Order Date  
 01/29/07

Date Needed  
 by Client  
 Date Samples  
 to Arrive at MWL  
**SHIP LOCATION**

ATTN: Susan Crowley  
 PHONE: 702-651-2234

ATTN: Susan Crowley  
 PHONE: 702-651-2234  
 FAX: 702-651-2310

**Quote#**

# of Samples Tests Bottles-Qty for each sample, type & preservative if any

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
1	CLO4	1 125ml poly /no preservative		This is the weekly order for the
1	@RADCW	2: 1 125 ml poly / no pres & 1 x 500 ml poly + 2 ml HNO3 (18%)	UN 2031	<b>EFFLUENT</b>
1	NH3, NH3-DIST	1 250 ml poly+ 1 ml H2SO4 (50%)	UN 2796	NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR HT RA226/228 to be subbed to a NV certified lab
1	PH, NO2-N, NO3, N-NINOR, TSS	1 500 ml poly/ no preservative <b>SHORT HOLDING TIME!!!!</b>		<b>PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER - also use a LARGE COOLER</b>
1	FE, CR	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN2031	login - use profile
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	<b>#KERREFF for this site</b>
1	COLOR	1 500ml amber glass / no preservative <b>SHORT HOLDING TIME!!!!</b>		CLIENT CODE CHANGED 7/25/03 Testcode for CRVI changed to IC effective 1/6/04
1	RA228EDD/RA226EDD	2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE DLS	UN 2031	Moved CBOD to separate order as of 10/21/04
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	updated BO 12-8-05 - deleted some tests and changed Cr from MS to ICP.
		note: deleted CRVI-LOW from bottle order - being sent separately from now on		added clo3 back 2-7-06 removed CRVI-LOW to sep BO 2-10-06

Prepared By  
 Date Shipped  
 Carrier  
 Qty of Coolers  
 Tracking Number  
 Status

SCANNED

THIS MEMORANDUM is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

SHIPPER'S NUMBER: 142482

RECEIVED subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading.

From: TRONOX LLC

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said Carrier (the word Carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another Carrier on the route to said destination. It is mutually agreed, as to each Carrier of all or any said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the Shipper and accepted for himself and his assigns.

CARRIER <b>Federal Express</b>		Date <b>02/26/07</b>	FROM NO. STATION: STATE <b>Henderson, NV 89015</b>
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400		Authorization <b>S. CROWLEY</b>	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER TRONOX LLC	
N/A/R		CUSTOMER PO OR REQ'N NO.	
SHIPPED FROM <b>Henderson, NV</b>		CODE NO. WCN IS <b>1321.10400</b> If it moves between two ports by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shippers weight.	
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY
	<b>Ice Chest with water samples</b>  <b>Weekly Discreets</b> <b>(Influent—Effluent Weekly Grabs)</b>  <b>1 Ice Chest @ 31 lbs.</b> <b>1 Ice Chest @ 20 lbs.</b>  <b>Not Regulated</b>		<b>2 COOLERS</b>
			Subject to Section 7 of Conditions of applicable Bill of Lading, if this shipment is to be delivered to the Consignee without recourse on the Consignor, the Consignor shall sign the following statement: The Carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. <b>TRONOX LLC</b>
			The description and weight indicated on this Bill of Lading are correct. Subject to verification by the Governing Weighing and Inspection Bureau according to Agreement.
TRUCK SHIPMENTS		FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT 800-424-9300 483-7616 IN DISTRICT OF COLUMBIA 202-483-7616 FROM OUTSIDE THE CONTINENTAL US.	
PLACARDS OFFERED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	PLACARDS ACCEPTED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
		<b>0</b>	
<b>2</b>	<b>TOTAL GROSS WEIGHT 51</b>	<b>TOTAL TARE WEIGHT 0</b>	<b>51</b>
NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____			"Shippers imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission"

THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.

TRONOX LLC  
Shipper permanent post office address of shipper, PO Box 268859, Oklahoma City, OK 73126-8859

PER

**Chuck Whitney**

AGENT

PER

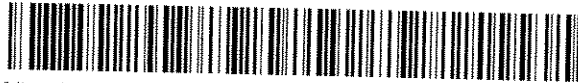
From: Origin ID: LASA (702)651-2230  
TRONOX LLC  
TRONOX LLC  
8000 LAKE MEAD PARKWAY  
SHIPPING DEPARTMENT  
HENDERSON, NV 89015



CLS812972123

Ship Date: 26FEB07  
ActWgt: 31 LB  
System#: 2274147/NET2600  
Account#: S \*\*\*\*\*

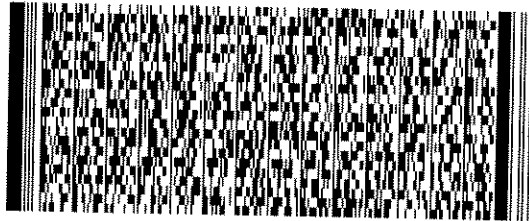
Delivery Address Bar Code



Ref # MSO #142482  
Invoice #  
PO #  
Dept #

SHIP TO: (626)568-6400 **BILL SENDER**  
**ATTN: MONTGOMERY LABS RECEIVING**  
**MONTGOMERY WATSON LABS**  
**750 ROYAL OAKS DR # 100**

**MONROVIA, CA 910163629**



**PRIORITY OVERNIGHT**

**TUE**

TRK# **7981 1581 1345**

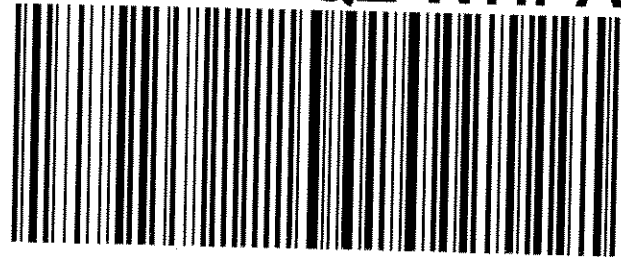
FORM 0201

Deliver By:  
27FEB07

**BUR A2**

**91016 -CA-US**

**QZ WHPA**



Shipping Label: Your shipment is complete

1. Use the 'Print' feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.**

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

**MWH Laboratories**  
 750 Royal Oaks Drive, Monrovia, CA 91016  
 PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Tronox LLC - Henderson  
 PO Box 55  
 Henderson, NV 89009  
 Attn: Susan Crowley  
 Phone: 702-651-2234

Customer Code: KERRMCGEE-MP  
 PO#: Susan Crowley PO  
 Group#: 197212  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **02/27/07**. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2702270258	EFFLUENT	@R226EDD @R228EDD CR FE NO3 P TSS	Water @RADCWB CLO3 N-INOR NH3 PH T	26-feb-2007 06:30:00 CLO4 COLOR NH3-DIST NO2-N T-P TKN
2702270259	INFLUENT	CLO3 CLO4 NH3-DIST NO2-N T-P TKN	Water COLOR CR NO3 NO3RFA	26-feb-2007 07:00:00 N-INOR NH3 P T

Test Acronym Description

Test Acronym	Description
@R226EDD	Radium 226 (Sub)
@R228EDD	Radium 228 (Sub)
@RADCWB	Gross Alpha Radiation
CLO3	Chlorate by IC
CLO4	Perchlorate
COLOR	Apparent Color
CR	Chromium, Total, ICAP
FE	Iron, Total, ICAP
N-INOR	Total Inorganic Nitrogen-Calc
NH3	Ammonia Nitrogen
NH3-DIST	NPDES Ammonia Distillation
NO2-N	Nitrite, Nitrogen by IC
NO3	Nitrate as Nitrogen by IC
NO3RFA	Nitrate + Nitrite as N by RFA
P	Metals sample pH
PH	PH (H3=past HT, not compliant)
T	Metals Turbidity
T-P	Total phosphorus-P
TKN	Kjeldahl Nitrogen
TSS	Total Suspended Solids (TSS)



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Report  
Comments  
#197212

### Client Specific Comments

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Client Signature: \_\_\_\_\_

### Group Comments

(TKN) Ending CCB was above 1/2 MRL but below MRL. LCS/LCSD recoveries are acceptable. Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA. Nevada Cert PA91-2004-77 TKN for Influent is likely biased low. NH3>TKN



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Laboratory  
Hits Report  
#197212

Tronox LLC - Henderson  
Susan Crowley  
PO Box 55  
Henderson , NV 89009

Samples Received  
27-feb-2007 15:34:31

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2702270258</b>	<b>EFFLUENT</b>				
03/15/07		Radium 226	<0.545	3	pCi/l	0.55
03/15/07		Radium 226, Minimal Detectable	0.545		pCi/l	
03/15/07		Radium 226, Two Sigma Error	0.282		pCi/l	
03/15/07		Radium 228	<0.867	5	pCi/l	0.87
03/15/07		Radium 228, Minimum Detectable	0.867		pCi/l	
03/15/07		Radium 228, Two Sigma Error	0.437		pCi/l	
03/05/07		Alpha, Gross	12.0	15	pCi/l	8.5
03/05/07		Alpha, Min Detectable Activity	8.49		pCi/l	
03/05/07		Alpha, Two Sigma Error	9.0		pCi/l	
03/05/07		Gross Alpha + adjusted error	19.6		pCi/l	
03/07/07		Ammonia Nitrogen	1.33		mg/l	0.050
02/27/07		Apparent Color	10	15	ACU	3.0
03/02/07		Iron, Total, ICAP	0.48	0.3	mg/l	0.040
02/28/07		Kjeldahl Nitrogen	2.7		mg/l	0.20
03/01/07		Metals digestion performed.	Y		Yes/No	
02/27/07		PH (H3=past HT, not compliant)	7.2	6.5-8.5	Units	0.0010
03/08/07		Total Inorganic Nitrogen-Calc	1.3		mg/l	0.20
03/01/07		Total phosphorus-P	0.11		mg/l	0.020
	<b>2702270259</b>	<b>INFLUENT</b>				
03/07/07		Ammonia Nitrogen	1.89		mg/l	0.050
02/27/07		Apparent Color	10	15	ACU	3.0
03/01/07		Chlorate by IC	406000		ug/l	50000
02/27/07		Chromium, Total, ICAP	0.27		mg/l	0.020
02/28/07		Nitrate + Nitrite as N by RFA	15	10	mg/l	2.5
02/27/07		Nitrate as Nitrogen by IC	17	10	mg/l	5.0
03/02/07		Perchlorate	205000		ug/l	20000
03/08/07		Total Inorganic Nitrogen-Calc	19		mg/l	10
03/01/07		Total phosphorus-P	0.03		mg/l	0.020

SUMMARY OF POSITIVE DATA ONLY.





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Laboratory  
Hits Report  
#197212

Tronox LLC - Henderson  
Susan Crowley  
PO Box 55  
Henderson , NV 89009

Samples Received  
27-feb-2007 15:34:31

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2702270259	INFLUENT				

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
 Data Report  
 #197212

Tronox LLC - Henderson  
 Susan Crowley  
 PO Box 55  
 Henderson, NV 89009

Samples Received  
 02/27/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>EFFLUENT (2702270258)      Sampled on 02/26/07 06:30</b>								
	03/01/07 00:00	355286	( ML/EPA 300.0 )	Chlorate by IC	ND	ug/l	50	5
	03/02/07 00:00	355447	( EPA 314 )	Perchlorate	ND	ug/l	10	5
	02/27/07 00:00	354923	( ML/S2120B )	Apparent Color	10	ACU	3.0	1
	03/02/07 16:53	355562	( ML/EPA 200.7 )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	03/01/07 14:37		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	03/02/07 16:53	355564	( ML/EPA 200.7 )	Iron, Total, ICAP	0.48	mg/l	0.040	2
	03/08/07 08:42	356178	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	1.3	mg/l	0.20	50
	03/07/07 00:00	356166	( ML/EPA 350.1 )	Ammonia Nitrogen	1.33	mg/l	0.050	1
	02/27/07 15:36	354985	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
	02/27/07 15:36	354988	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	ND	mg/l	5.0	50
	02/27/07 00:00	354910	( 4500HB/ E 150 )	PH (H3=past HT, not compliant)	7.2	Units	0.0010	1
	03/01/07 00:00	355329	( S4500PE/ 365.1 )	Total phosphorus-P	0.11	mg/l	0.020	1
	02/28/07 19:27	355270	( ML/EPA 351.2 )	Kjeldahl Nitrogen	2.7	mg/l	0.20	1
	03/01/07 14:50	355360	( ML/EPA 160.2 )	Total Suspended Solids (TSS)	ND	mg/l	10	1
<b>Gross Alpha Radiation</b>								
	03/05/07 00:00	356467	( ML/EPA 900.0 )	Alpha, Gross	12.0	pCi/l	8.5	1
	03/05/07 00:00	356467	( ML/EPA 900.0 )	Gross Alpha + adjusted error	19.6	pCi/l	0	1
	03/05/07 00:00	356467	( ML/EPA 900.0 )	Alpha, Two Sigma Error	9.0	pCi/l	0	1
	03/05/07 00:00	356467	( ML/EPA 900.0 )	Alpha, Min Detectable Activity	8.49	pCi/l	0	1
<b>Radium 226 (Sub)</b>								
	03/15/07 00:00		( EPA 903.1 )	Radium 226	<0.545	pCi/l	0.55	1
	03/15/07 00:00		( EPA 903.1 )	Radium 226, Two Sigma Error	0.282	pCi/l	0	1
	03/15/07 00:00		( EPA 903.1 )	Radium 226, Minimal Detectable	0.545	pCi/l	0	1
<b>Radium 228 (Sub)</b>								
	03/15/07 00:00		( EPA 904.0 )	Radium 228	<0.867	pCi/l	0.87	1
	03/15/07 00:00		( EPA 904.0 )	Radium 228, Two Sigma Error	0.437	pCi/l	0	1
	03/15/07 00:00		( EPA 904.0 )	Radium 228, Minimum Detectable	0.867	pCi/l	0	1



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Laboratory  
 Data Report  
 #197212

Tronox LLC - Henderson  
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>INFLUENT (2702270259)</b>					<b>Sampled on 02/26/07 07:00</b>			
	03/01/07 00:00	355286	( ML/EPA 300.0 )	Chlorate by IC	406000	ug/l	50000	5000
	03/02/07 00:00	355447	( EPA 314 )	Perchlorate	205000	ug/l	20000	5000
	02/27/07 00:00	354923	( ML/S2120B )	Apparent Color	10	ACU	3.0	1
	02/27/07 16:38	354890	( ML/EPA 200.7 )	Chromium, Total, ICAP	0.27	mg/l	0.020	2
	03/08/07 08:42	356178	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	19	mg/l	10	50
	03/07/07 00:00	356166	( ML/EPA 350.1 )	Ammonia Nitrogen	1.89	mg/l	0.050	1
	02/27/07 15:22	354985	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
	02/27/07 15:22	354988	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	17	mg/l	5.0	50
	02/28/07 11:02	355054	( ML/EPA 353.2 )	Nitrate + Nitrite as N by RFA	15	mg/l	2.5	25
	03/01/07 00:00	355329	( S4500PE/ 365.1 )	Total phosphorus-P	0.03	mg/l	0.020	1
	02/28/07 19:27	355270	( ML/EPA 351.2 )	Kjeldahl Nitrogen	ND	mg/l	0.20	1



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Laboratory  
QC Summary  
#197212

Tronox LLC - Henderson

QC Ref #354890	- Chromium, Total, ICAP	Analysis Date: 02/27/2007
2702270259	INFLUENT	Analyzed by: wbh
QC Ref #354910	- PH (H3=past HT, not compliant)	Analysis Date: 02/27/2007
2702270258	EFFLUENT	Analyzed by: sar
QC Ref #354923	- Apparent Color	Analysis Date: 02/27/2007
2702270258	EFFLUENT	Analyzed by: bxr
2702270259	INFLUENT	Analyzed by: bxr
QC Ref #354985	- Nitrite, Nitrogen by IC	Analysis Date: 02/27/2007
2702270258	EFFLUENT	Analyzed by: jkz
2702270259	INFLUENT	Analyzed by: jkz
QC Ref #354988	- Nitrate as Nitrogen by IC	Analysis Date: 02/27/2007
2702270258	EFFLUENT	Analyzed by: jkz
2702270259	INFLUENT	Analyzed by: jkz
QC Ref #355054	- Nitrate + Nitrite as N by RFA	Analysis Date: 02/28/2007
2702270259	INFLUENT	Analyzed by: maria
QC Ref #355270	- Kjeldahl Nitrogen	Analysis Date: 02/28/2007
2702270258	EFFLUENT	Analyzed by: dtn
2702270259	INFLUENT	Analyzed by: dtn
QC Ref #355286	- Chlorate by IC	Analysis Date: 03/01/2007
2702270258	EFFLUENT	Analyzed by: raja
2702270259	INFLUENT	Analyzed by: raja



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QC Summary  
#197212

Tronox LLC - Henderson  
(continued)

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QC Ref #355329	- Total phosphorus-P	Analysis Date: 03/01/2007
2702270258	EFFLUENT	Analyzed by: dtn
2702270259	INFLUENT	Analyzed by: dtn
QC Ref #355360	- Total Suspended Solids (TSS)	Analysis Date: 03/01/2007
2702270258	EFFLUENT	Analyzed by: anh
QC Ref #355447	- Perchlorate	Analysis Date: 03/02/2007
2702270258	EFFLUENT	Analyzed by: raja
2702270259	INFLUENT	Analyzed by: raja
QC Ref #355562	- Chromium, Total, ICAP	Analysis Date: 03/02/2007
2702270258	EFFLUENT	Analyzed by: wbh
QC Ref #355564	- Iron, Total, ICAP	Analysis Date: 03/02/2007
2702270258	EFFLUENT	Analyzed by: wbh
QC Ref #356166	- Ammonia Nitrogen	Analysis Date: 03/07/2007
2702270258	EFFLUENT	Analyzed by: dav
2702270259	INFLUENT	Analyzed by: dav
QC Ref #356178	- Total Inorganic Nitrogen-Calc	Analysis Date: 03/08/2007
2702270258	EFFLUENT	Analyzed by: dwr
2702270259	INFLUENT	Analyzed by: dwr



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(continued)

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QC Ref #356467 - Gross Alpha Radiation

2702270258

EFFLUENT

Analysis Date: 03/05/2007

Analyzed by: ajc



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## QC Ref #354890 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.953	MGL	95.3	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.963	MGL	96.3	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0103	MGL	103.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	0.946	MGL	94.6	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.967	MGL	96.7	( 70-130 )	

## QC Ref #354910 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02270521	UNIT		( 0-0 )	
DUP	PH (H3=past HT, not compliant)	8.1	8.1	UNIT		( 0-20 )	0.0

## QC Ref #354923 Apparent Color

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Apparent Color	ND	ND	ACU		( 0-20 )	

## QC Ref #354985 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02260143	MGL		( 0-0 )	
LCS1	Nitrite, Nitrogen by IC	1.0	1.01	MGL	101.0	( 90-110 )	
LCS2	Nitrite, Nitrogen by IC	1.0	0.975	MGL	97.5	( 90-110 )	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0494	MGL	98.8	( 50-150 )	
MS	Nitrite, Nitrogen by IC	0.500	0.498	MGL	99.6	( 90-110 )	
MSD	Nitrite, Nitrogen by IC	0.500	0.503	MGL	100.6	( 90-110 )	
RPD_LCS	Nitrite, Nitrogen by IC	101.000	97.500	MGL	3.5	( 0-20 )	
RPD_MS	Nitrite, Nitrogen by IC	99.600	100.600	MGL	1.0	( 0-20 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
 Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
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 (continued)

## QC Ref #354988 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02260143	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.42	MGL	96.8	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.34	MGL	93.6	( 90-110 )	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0444	MGL	88.8	( 50-150 )	
MS	Nitrate as Nitrogen by IC	1.25	1.19	MGL	95.2	( 90-110 )	
MSD	Nitrate as Nitrogen by IC	1.25	1.21	MGL	96.8	( 90-110 )	
RPD_LCS	Nitrate as Nitrogen by IC	96.800	93.600	MGL	3.4	( 0-20 )	
RPD_MS	Nitrate as Nitrogen by IC	95.200	96.800	MGL	1.7	( 0-20 )	

## QC Ref #355054 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02230147	MGL		( 0-0 )	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.934	MGL	93.4	( 90-110 )	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.936	MGL	93.6	( 90-110 )	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.10	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.070	0.07	MGL	100.0	( 50-150 )	
MS	Nitrate + Nitrite as N by RFA	1.0	0.889	MGL	<u>88.9</u>	( 90-110 )	
MSD	Nitrate + Nitrite as N by RFA	1.0	1.00	MGL	100.0	( 90-110 )	

## QC Ref #355270 Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02270064	MGL		( 0-0 )	
LCS1	Kjeldahl Nitrogen	4	3.90	MGL	97.5	( 90-110 )	
LCS2	Kjeldahl Nitrogen	4	3.87	MGL	96.8	( 90-110 )	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	3.86	MGL	96.5	( 90-110 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
 Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
 are advisory only, unless otherwise specified in the method.



Tronox LLC - Henderson  
(continued)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MSD	Kjeldahl Nitrogen	4	3.77	MGL	94.2	( 90-110 )	
RPD_LCS	Kjeldahl Nitrogen	97.500	96.750	MGL	0.8	( 0-20 )	
RPD_MS	Kjeldahl Nitrogen	96.500	94.250	MGL	2.4	( 0-20 )	

QC Ref #355286

Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02280059	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	197	UGL	98.5	( 75-125 )	
LCS2	Chlorate by IC	200	197	UGL	98.5	( 75-125 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	9.09	UGL	90.9	( 50-150 )	
MS	Chlorate by IC	100	94.5	UGL	94.5	( 75-125 )	
MSD	Chlorate by IC	100	97.5	UGL	97.5	( 75-125 )	
RPD_LCS	Chlorate by IC	98.500	98.500	UGL	0.0	( 0-20 )	
RPD_MS	Chlorate by IC	94.500	97.500	UGL	3.1	( 0-20 )	

QC Ref #355329

Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02270443	MGL		( 0-0 )	
LCS1	Total phosphorus-P	0.4	0.396	MGL	99.0	( 90-110 )	
LCS2	Total phosphorus-P	0.4	0.399	MGL	99.8	( 90-110 )	
MBLK	Total phosphorus-P	ND	<0.020	MGL			
MS	Total phosphorus-P	0.4	0.430	MGL	107.5	( 90-110 )	
MSD	Total phosphorus-P	0.4	0.423	MGL	105.7	( 90-110 )	
RPD_LCS	Total phosphorus-P	99.000	99.750	MGL	0.8	( 0-10 )	
RPD_MS	Total phosphorus-P	107.500	105.750	MGL	1.6	( 0-20 )	

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## QC Ref #355360 Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02210116	MGL		( 0-0 )	
LCS1	Total Suspended Solids (TSS)	175	172	MGL	98.3	( 80-120 )	
LCS2	Total Suspended Solids (TSS)	175	176	MGL	100.6	( 80-120 )	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			

## QC Ref #355447 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03010172	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.5	UGL	98.0	( 85-115 )	
LCS2	Perchlorate	25.0	25.3	UGL	101.2	( 85-115 )	
LCS3	Perchlorate	4	3.52	UGL	88.0	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.5	UGL	90.0	( 70-130 )	
MSD	Perchlorate	25.0	22.2	UGL	88.8	( 70-130 )	
RPD_LCS	Perchlorate	98.000	101.200	UGL	3.2	( 0-20 )	
RPD_MS	Perchlorate	90.000	88.800	UGL	1.3	( 0-20 )	

## QC Ref #355562 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.98	MGL	98.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0104	MGL	104.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.99	MGL	99.0	( 70-130 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
 Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
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(continued)

QC Ref #355564      Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	5.21	MGL	104.2	( 85-115 )	
LCS2	Iron, Total, ICAP	5.0	4.99	MGL	99.8	( 85-115 )	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0203	MGL	101.5	( 50-150 )	
MS	Iron, Total, ICAP	5.0	5.31	MGL	106.2	( 70-130 )	
MS2	Iron, Total, ICAP	5.0	5.03	MGL	100.6	( 70-130 )	
MSD	Iron, Total, ICAP	5.0	5.11	MGL	102.2	( 70-130 )	
MSD2	Iron, Total, ICAP	5.0	5.25	MGL	105.0	( 70-130 )	
RPD_MS	Iron, Total, ICAP	106.200	102.200	MGL	3.8	( 0-20 )	

QC Ref #356166      Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02260076	MGL		( 0-0 )	
LCS1	Ammonia Nitrogen	1.00	1.04	MGL	104.0	( 90-110 )	
LCS2	Ammonia Nitrogen	1.00	1.04	MGL	104.0	( 90-110 )	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MS	Ammonia Nitrogen	1.00	0.940	MGL	94.0	( 90-110 )	
MSD	Ammonia Nitrogen	1.00	0.947	MGL	94.7	( 90-110 )	
RPD_LCS	Ammonia Nitrogen	104.000	104.000	MGL	0.0	( 0-20 )	
RPD_MS	Ammonia Nitrogen	94.000	94.700	MGL	0.7	( 0-20 )	

QC Ref #356467      Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02270031	PCIL		( 0-0 )	
DUP	Alpha, Gross	ND	ND	PCIL		( 0-20 )	
LCS1	Alpha, Gross	16.6	18.3	PCIL	110.2	( 80-120 )	
LCS2	Alpha, Gross	16.6	18.3	PCIL	110.2	( 80-120 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.



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MBLK	Alpha, Gross	ND	<3.0	PCIL		
MS	Alpha, Gross	33.2	42.4	PCIL	127.7	( 70-130 )
RPD_LCS	Alpha, Gross	110.241	110.241	PCIL	0.0	( 0-20 )
DUP	Beta, Gross	ND	ND	PCIL		( 0-20 )
LCS1	Beta, Gross	15.7	14.1	PCIL	89.8	( 80-120 )
LCS2	Beta, Gross	15.7	13.8	PCIL	87.9	( 80-120 )
MBLK	Beta, Gross	ND	<3.0	PCIL		
MS	Beta, Gross	31.4	28.5	PCIL	90.8	( 70-130 )
RPD_LCS	Beta, Gross	89.809	87.898	PCIL	2.2	( 0-20 )

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
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Kermmccgce-11

Pace Analytical Services, Inc.  
Exit 54, I-70  
Madison, PA 15663  
Phone: 724.722.5214  
Fax: 724.722.5208  
www.pacelabs.com

March 16, 2007

Ms. Elena Montanez  
MWH Americas, Inc  
750 Royal Oaks Drive  
Suite 100  
Monrovia, CA 91016-3629

Drinking Water Characterization; Purchase Order No. 99-26879  
197212 NY DW, Ra-226/228; NV Cert Expires 03/31/07; MWH Laboratories  
Pace Project No. 07-1306

Dear Ms. Montanez:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc. The sample was received on March 1, 2007 and logged in for analysis on March 3, 2007.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-722-5219.

Sincerely,

Richard M. Kinney  
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

## REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.  
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-1306

CLIENT: Purchase Order Number: 99-26879

B: SAMPLE IDENTIFICATIONS:

PACE: 0703-0072

CLIENT: 2702270258

C: SHIPPING/RECEIVING COMMENTS:

Final Report 3/16/07.

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

0000002

0000003

Table 1  
General Data Table  
MWH Americas, Inc.  
Face Project No. 07-1306  
Drinking Water Characterization; 197212 NV DW, Ra-226/228  
Charge Order No. 99-26879; NV Cert Expires 03/31/07

Page 1 of 2

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act	Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	03/15/07	0703-0072	
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	03/15/07	2702270258 (2/26/07)	(0.545) (0.867)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

0000004

Table 1  
(Continued)

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act ± Unc (MDC)	Method Blank (3/1/07)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	03/15/07	0.233 ± 0.280	(0.429)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	03/15/07	0.945 ± 0.412	(0.746)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.



0000005

# Quality Control Sample Performance Assessment

Test: Ra-226  
Analyst: CMC  
Date: 3/7/2007  
Worklist: 14159  
Matrix: DW

*2/3/16/67*  
Analyst Must Manually Enter All Fields Highlighted in Yellow.

**Method Blank Assessment**

MB Sample ID: MB14159  
MB concentration: 0.233  
MB Counting Uncertainty: 0.280  
MB MDC: 0.429  
MB Numerical Performance Indicator: 11.43  
MB Status vs Numerical Indicator: N/A  
MB Status vs MDC: Pass

**Laboratory Control Sample Assessment**

Count Date:	LCSD (Y or N)?	Y
3/15/2007	LCSD14159	3/15/2007
Spike I.D.:	06-005	06-005
Spike Concentration (pCi/mL):	57.284	57.284
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.500
Target Conc. (pCi/L, g, F):	11.457	11.457
Uncertainty (Calculated):	0.275	0.275
Result (pCi/L, g, F):	11.819	12.152
LCSD Counting Uncertainty (pCi/L, g, F):	1.700	1.661
Numerical Performance Indicator:	0.41	0.81
Percent Recovery:	103.17%	106.07%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

**Duplicate Sample Assessment**

Sample I.D.: LCS14159  
Duplicate Sample I.D.: LCS14159  
Sample Result (pCi/L, g, F): 11.819  
Sample Result Counting Uncertainty (pCi/L, g, F): 1.700  
Sample Duplicate Result (pCi/L, g, F): 12.152  
Sample Duplicate Counting Uncertainty (pCi/L, g, F): 1.661  
Are sample and/or duplicate results below MDC? NO  
Duplicate Numerical Performance Indicator: -0.275  
Duplicate RPD: 2.78%  
Duplicate Status vs Numerical Indicator: N/A  
Duplicate Status vs RPD: Pass

Enter Duplicate sample I.D.s if other than LCS/LCSD in the space below.

**Sample Matrix Spike Control Assessment**

Sample Collection Date: 2/27/2007  
Sample I.D.: 0703-0010  
Sample MS I.D.: 0703-0010MS  
Sample MSD I.D.: 06-005  
Spike I.D.: 57.285  
MS/MSD Decay Corrected Spike Concentration (pCi/mL): 0.20  
Spike Volume Used in MS (mL): 0.500  
MS Aliquot (L, g, F): 22.914  
MSD Aliquot (L, g, F):  
MS Target Conc. (pCi/L, g, F):  
MSD Target Conc. (pCi/L, g, F):  
Spike uncertainty (calculated): 0.550  
Sample Result Counting Uncertainty (pCi/L, g, F): 0.881  
Sample Matrix Spike Result: 0.502  
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 23.995  
Sample Matrix Spike Duplicate Result: 2.348  
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):  
MS Numerical Performance Indicator: 0.159  
MSD Numerical Performance Indicator: 100.87%  
MS Status vs Numerical Indicator: N/A  
MSD Status vs Numerical Indicator: Pass

**Matrix Spike/Matrix Spike Duplicate Sample Assessment**

Sample I.D.:  
Sample MS I.D.:  
Sample MSD I.D.:  
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):  
Sample Matrix Spike Duplicate Result: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD:  
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):  
Sample Matrix Spike Duplicate Result: Duplicate Numerical Performance Indicator: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD:

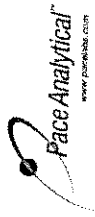
# Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

0000006

# Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228  
 Analyst: OLB  
 Date: 3/15/2007  
 Worklist: 14160  
 Matrix: DW

**Method Blank Assessment**

MB Sample ID: MB14160  
 MB Concentration: 0.845  
 MB Counting Uncertainty: 0.412  
 MB MDC: 0.746  
 MB Numerical Performance Indicator: 4.50  
 MB Status vs Numerical Indicator: N/A  
 MB Status vs MDC: See Comment\*

**Laboratory Control Sample Assessment**

Count Date:	LCS14160	Y	LCS14160
3/15/2007	06-009		3/15/2007
Spike I.D.:	06-009		06-009
Spike Concentration (pCi/L):	69.838		69.838
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.800		0.800
Target Conc. (pCi/L, g, F):	8.730		8.730
Uncertainty (Calculated):	0.271		0.271
Result (pCi/L, g, F):	5.964		7.537
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.589		0.699
Numerical Performance Indicator:	-8.36		-3.12
Percent Recovery:	68.32%		86.34%
Status vs Numerical Indicator:	N/A		N/A
Status vs Recovery:	Pass		Pass

**Duplicate Sample Assessment**

Sample I.D.: LCS14160  
 Duplicate Sample I.D.: LCS14160  
 Sample Result (pCi/L, g, F): 5.964  
 Duplicate Result (pCi/L, g, F): 5.964  
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.589  
 Duplicate Counting Uncertainty (pCi/L, g, F): 0.589  
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.699  
 Duplicate Counting Uncertainty (pCi/L, g, F): 0.699  
 Are sample and/or duplicate results below MDC? NO  
 Duplicate Numerical Performance Indicator: -3.371  
 Duplicate RPD: 23.30%  
 Duplicate Status vs Numerical Indicator: N/A  
 Duplicate Status vs RPD: Pass

# Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:  
 \*The method blank result is below the reporting limit for this analysis and is acceptable.

\*\*\*\*If all other QC criteria pass, this batch is acceptable. The matrix spike result indicates a possible bias for this sample only and may not be applicable to any other samples in this analytical batch.

03/16/07

**Sample Matrix Spike Control Assessment**

Sample Collection Date: 2/27/2007  
 Sample I.D.: 0703-0010  
 Sample MS I.D.: 0703-0010MS  
 Sample MSD I.D.:  
 Spike I.D.: 06-009  
 Spike Concentration (pCi/mL): 70.220  
 Spike Volume Used in MS (mL): 0.20  
 MS/MSD Decay Corrected Spike Concentration (pCi/L, g, F): 0.800  
 MS Target Conc. (pCi/L, g, F): 17.555  
 MSD Aliquot (L, g, F):  
 MSD Target Conc. (pCi/L, g, F):  
 Spike uncertainty (calculated): 0.544  
 Sample Result: 0.793  
 Sample Matrix Spike Result: 0.352  
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 11.903  
 Sample Matrix Spike Duplicate Result: 0.804  
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):  
 MS Numerical Performance Indicator: -12.233  
 MSD Numerical Performance Indicator:  
 MS Percent Recovery: 63.28%  
 MSD Percent Recovery:  
 MS Status vs Numerical Indicator: N/A  
 MSD Status vs Numerical Indicator:  
 MS Status vs Recovery: MS Low\*\*\*\*  
 MSD Status vs Recovery:

**Matrix Spike/Matrix Spike Duplicate Sample Assessment**

Sample I.D.:  
 Sample MS I.D.:  
 Sample MSD I.D.:  
 Sample Matrix Spike Result:  
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):  
 Sample Matrix Spike Duplicate Result:  
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):  
 Duplicate Numerical Performance Indicator:  
 MS/MSD Duplicate RPD:  
 MS/MSD Duplicate Status vs Numerical Indicator:  
 MS/MSD Duplicate Status vs RPD:



MWH Laboratories  
 A Division of MWH Americas, Inc.  
 750 Royal Oaks Drive Suite 100  
 Monrovia, CA 91016-3629  
 Ph (626) 386-1100 Fax (626) 386-1095

Ship To  
 Mike Schnupp  
 Face Analytical - Waltz Mill

Westinghouse Waltz Mill Site  
 70 Madison Exit  
 Madison, PA 15663

724) 722-5214/5218 Fax (724) 722-5208

MWH Project # Report Due: Sub PO#  
 197212 03/22/07 99-26879



ncl

Client Sample ID for reference only

Date **02/28/07** **Submittal Form & Purchase Order 99-26879**  
 \*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!  
 Report & Invoice must have the MWH Project Number **197212** Sub PO# **99-26879** and Job # **1000032**  
 Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report.  
 Results must have Complete data & QC with Approval Signature. See reverse side for List of Terms and Conditions

07-1306  
 Provide in each Report  
 the Specified State  
 Certification # & Exp Date for  
 requested tests + matrix  
**NEVEDA**

Reports: Elena Montanez Sub-contracting Administrator  
 EMAIL TO: mwllabs-subcontractreports@mwglobal.com  
 MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016  
 Phone (626) 386-1118 Fax (626) 386-1122  
 Invoices to: MWH LABORATORIES  
 Accounts Payable PO BOX 6610, Broomfield, CO 80021

Sample	Analysis Requested	Date & Time	Matrix	Container
@R226ED	Radioactivity, Radium 226 Sub-contracted	02/26/07 06:30	dw	1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION OF
@R228ED	Radioactivity, Radium 228 Sub-contracted			2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION OF

0703-0072 MB 73

Relinquished by:

Received by:

Sample Control Date **02/28/07** Time **12:55** MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS  
 Date **3/1/07** Time **10:25** Page 1  
 An Acknowledgement of Receipt is requested to attn: Julie Lee