



# MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-0629  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

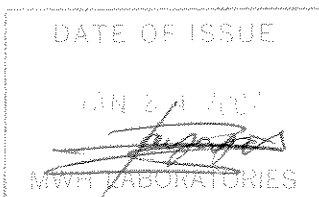
## Laboratory Report

for

Tronox LLC - Henderson  
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton  
Project Manager



Report#: 192296  
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 13 page[s].



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

192296

MVLABS USE ONLY:

750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629

(626) 386-1100 (800) 566-5227

SAMPLES CHECKED/LOGGED IN BY: *[Signature]*

SAMPLE TEMP, RECEIPT AT LAB: \_\_\_\_\_

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

*[Handwritten marks]*

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#

Weekly Permit Compliance Samples - SO #6532 & #6534

Sampler Signature: *Michele Brown*

Tronox LLC - Henderson Plant  
PO Box 55  
Henderson, NV 89009

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CL04	RAD CWB (2 Bils)	NH3, NH3-DIST	PH, NO2-N, NO3-N, NH4-N, TSS	CL03	FE CR	T-P, TKN	Color	RA228EDD/RA226EDD (2 Bils)	CR	NO2-N, NO3-N, NH4-N	SAMPLER COMMENTS
6:30 AM	1/8/2007	<i>[Handwritten]</i>	EFFLUENT	RSW	X		X	X	X	X	X	X	X	X	X			Revised SO #6534
7:00	1/8/2007		INFLUENT	RSW	X		X	X	X	X	X	X	X	X				Revised SO #6532
																		<i>[Handwritten]</i>

\* MATRIX TYPES:

Reported by Volume:

CFW = Chlor(am)inated 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

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE/TIME

RELINQUISHED BY: *Michele Brown*

Michele Brown

Veolia Water NA for Tronox LLC - Henderson Plant

1/8/2007 12:00 PM

RECEIVED BY: *[Signature]*

*[Signature]*

1-8-07 9:45

RECEIVED BY:



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 KERRMCGEE-MP  
Project Code CLO4  
PO# / Job#  
Blanket PO

W Weekly  
Week 1

SO# 33392 6532 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

Created by  
Order Date  
11/27/06  
Date Needed  
by Client

Send Report to  
Ironox LLC Henderson Plant  
PO Box 55  
Henderson, NV 89009

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

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

UN#

Important Comments

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
1	CLO4	1 125ml poly /no preservative		This is a weekly sample of
1	NH3, NH3-DIST,	1 125 ml poly+ 0.5ml H2SO4 (50%)	UN 2796	<b>INFLUENT</b> This cooler can be shipped out along with the IX-EFF cooler as one order.
			3077	NOTIFY LAB AS SOON AS CR-VI COMES IN- 24HR ht
1	CR	1 125ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	<b>PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER- also use a LARGE COOLER</b>
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	<b>Login - use Profile #KERRINF for this site</b>
1	COLOR	1 500ml amber glass / no preservative <b>SHORT HOLDING TIME!!!!</b>		note to Login - notify Lisa when this sample comes in so she can run NO3 on her IC
1	NO2-N, NO3, N-INOR	1 500 ml poly / no preservative <b>SHORT HOLDING TIME!!!!</b>		Test code for CRVI changed to IC 1-6-04; Moved CBOD to separate order as of 10/21/04; O updated 12-8-05 to delete some tests and change frequency on others.
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	Changed CR-MS to CR and updated profile for login
		note: deleted CRVI-LOW from bottle order - being sent separately from now on		added CLO3 back to weekly 2-7-08
				2/10/06- CRVI-LOW separate order deleted NO3RFA as of 7-5-06;

SCANNED

Prepared By

Tracking Number

Carrier

Date Shipped

Status

ActiveCode

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: 142378

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>1/2/07</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/AR			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>Weekly Discreets—Influent and Effluent Grab Samples Not Regulated</b>  <b>1 ice chest @ 33 lbs 1 ice chest @ 19 lbs</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>	TOTAL GROSS WEIGHT <b>52</b>	TOTAL TARE WEIGHT <b>0</b>	<b>52</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, P.O. Box 268857, Oklahoma City, OK 73126-8857		PER <b>Judi Durkin</b>	AGENT	PER

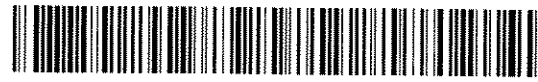
From: Origin ID: (702)651-2230  
TRONOX LLC  
TRONOX LLC  
8000 LAKE MEAD PARKWAY  
SHIPPING DEPARTMENT  
HENDERSON, NV 89015



CLS 100 306/19/23

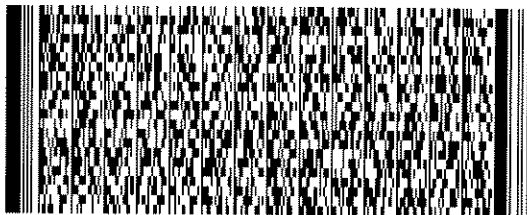
Ship Date: 02JAN07  
ActWgt: 19 LB  
System#: 2274147/NET2500  
Account#: S \*\*\*\*\*

REF: MSO #142378



Delivery Address Bar Code

SHIP TO: (626)568-6400 **BILL SENDER**  
**ATTN: MONTGOMERY LABS RECEIVING**  
**MONTGOMERY WATSON LABS**  
**750 ROYAL OAKS AVENUE**  
**#100**  
**MONROVIA, CA 91016**



**PRIORITY OVERNIGHT**

**WED**

Deliver By:  
03JAN07

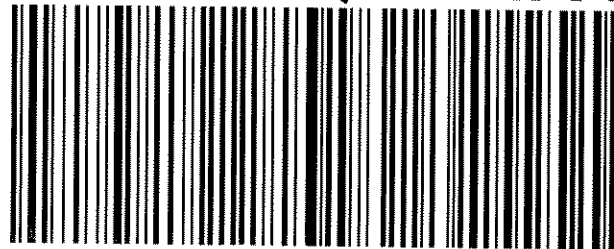
TRK# 7922 6602 7212

FORM  
0201

**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#: 192296  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on 01/03/07. 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
2701030010	EFFLUENT	@R226EDD @R228EDD @RADCWB CLO3 CLO4 COLOR CR FE N-INOR NH3 NO2-N NO3 P PH T T-P TKN TSS	Water	02-jan-2007 06:30:00
2701030011	INFLUENT	CLO3 CLO4 NH3-DIST NO2-N NO3 T-P TKN	Water	02-jan-2007 07:00:00

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)



A Division of MWH Americas, Inc.

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

---

Report  
Comments  
#192296

**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**

Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA California cert 04222CA



750 Royal Oaks Drive, Suite 100  
 Monrovia, California 91016-3829  
 Tel: 626 386 1100  
 Fax: 626 386 1101  
 1 800 566 LABS (1 800 566 5227)

Laboratory  
 Hits Report  
 #192296

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

Samples Received  
 03-jan-2007 10:31:25

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2701030010</b>	<b>EFFLUENT</b>				
01/16/07	Radium 226		<0.330	3	pCi/l	0.33
01/16/07	Radium 226, Minimal Detectable		0.330		pCi/l	
01/16/07	Radium 226, Two Sigma Error		0.238		pCi/l	
01/18/07	Radium 228		<0.827	5	pCi/l	0.83
01/18/07	Radium 228, Minimum Detectable		0.827		pCi/l	
01/18/07	Radium 228, Two Sigma Error		0.385		pCi/l	
01/11/07	Alpha, Gross		15	15	pCi/l	8.6
01/11/07	Alpha, Min Detectable Activity		8.62		pCi/l	
01/11/07	Alpha, Two Sigma Error		9.0		pCi/l	
01/08/07	Ammonia Nitrogen		0.631		mg/l	0.050
01/03/07	Apparent Color		10	15	ACU	3.0
01/08/07	Iron, Total, ICAP		0.42	0.3	mg/l	0.040
01/05/07	Kjeldahl Nitrogen		2.2		mg/l	0.20
01/05/07	Metals digestion performed.		Y		Yes/No	
01/04/07	PH (H3=past HT, not compliant)		7.5	6.5-8.5	Units	0.0010
01/10/07	Total Inorganic Nitrogen-Calc		0.63		mg/l	0.20
01/04/07	Total phosphorus-P		0.31		mg/l	0.010
	<b>2701030011</b>	<b>INFLUENT</b>				
01/08/07	Ammonia Nitrogen		2.55		mg/l	0.25
01/03/07	Apparent Color		10	15	ACU	3.0
01/06/07	Chlorate by IC		509000		ug/l	50000
01/04/07	Chromium, Total, ICAP		0.08		mg/l	0.020
01/09/07	Nitrate + Nitrite as N by RFA		19	10	mg/l	2.5
01/03/07	Nitrate as Nitrogen by IC		17	10	mg/l	0.62
01/04/07	Perchlorate		213000		ug/l	20000
01/10/07	Total Inorganic Nitrogen-Calc		20		mg/l	10
01/04/07	Total phosphorus-P		0.011		mg/l	0.010

SUMMARY OF POSITIVE DATA ONLY.





750 Royal Oaks Drive, Suite 100  
 Monrovia, California 91016-3629  
 Tel: 626 386 1100  
 Fax: 626 386 1161  
 1 800 566 LABS (1 800 566 5227)

Laboratory  
 Data Report  
 #192296

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

Samples Received  
 01/03/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>EFFLUENT (2701030010)</b>								
<b>Sampled on 01/02/07 06:30</b>								
	01/06/07 00:00	347355	( ML/EPA 300.1 )	Chlorate by IC	ND	ug/l	50	5
	01/04/07 00:00	347052	( EPA 314 )	Perchlorate	ND	ug/l	10	5
	01/03/07 00:00	346916	( ML/S2120B )	Apparent Color	10	ACU	3.0	1
	01/08/07 15:10	347491	( ML/EPA 200.7 )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	01/05/07 11:31		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	01/08/07 15:10	347493	( ML/EPA 200.7 )	Iron, Total, ICAP	0.42	mg/l	0.040	2
	01/10/07 09:05	347677	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	0.63	mg/l	0.20	50
	01/08/07 00:00	347541	( ML/EPA 350.1 )	Ammonia Nitrogen	0.631	mg/l	0.050	1
	01/03/07 15:39	346984	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	01/03/07 15:39	346985	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	ND	mg/l	0.62	50
	01/04/07 00:00	347103	( 4500HB/ E 150 )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
	01/04/07 16:55	347211	( S4500PE/ 365.1 )	Total phosphorus-P	0.31	mg/l	0.010	1
	01/05/07 13:47	347210	( ML/EPA 351.2 )	Kjeldahl Nitrogen	2.2	mg/l	0.20	1
	01/05/07 15:26	347343	( ML/EPA 160.2 )	Total Suspended Solids (TSS)	ND	mg/l	10	1
<b>Gross Alpha Radiation</b>								
	01/11/07 00:00	348539	( ML/EPA 900.0 )	Alpha, Gross	15	pCi/l	8.6	1
	01/11/07 00:00	348539	( ML/EPA 900.0 )	Alpha, Two Sigma Error	9.0	pCi/l	0	1
	01/11/07 00:00	348539	( ML/EPA 900.0 )	Alpha, Min Detectable Activity	8.62	pCi/l	0	1
<b>Radium 226 (Sub)</b>								
	01/16/07 00:00		( EPA 903.1 )	Radium 226	<0.330	pCi/l	0.33	1
	01/16/07 00:00		( EPA 903.1 )	Radium 226, Two Sigma Error	0.238	pCi/l	0	1
	01/16/07 00:00		( EPA 903.1 )	Radium 226, Minimal Detectable	0.330	pCi/l	0	1
<b>Radium 228 (Sub)</b>								
	01/18/07 00:00		( EPA 904.0 )	Radium 228	<0.827	pCi/l	0.83	1
	01/18/07 00:00		( EPA 904.0 )	Radium 228, Two Sigma Error	0.365	pCi/l	0	1
	01/18/07 00:00		( EPA 904.0 )	Radium 228, Minimum Detectable	0.827	pCi/l	0	1



750 Royal Oaks Drive, Suite 100  
 Monrovia, California 91016-3829  
 Tel: 626 386 1100  
 Fax: 626 386 1101  
 1 800 566 LABS (1 800 566 5227)

Laboratory  
 Data Report  
 #192296

Tronox LLC - Henderson  
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>INFLUENT (2701030011)</b>				<b>Sampled on 01/02/07 07:00</b>				
	01/06/07 00:00	347355	( ML/EPA 300.1 )	Chlorate by IC	509000	ug/l	50000	5000
	01/04/07 00:00	347052	( EPA 314 )	Perchlorate	213000	ug/l	20000	5000
	01/03/07 00:00	346916	( ML/S2120B )	Apparent Color	10	ACU	3.0	1
	01/04/07 19:36	347363	( ML/EPA 200.7 )	Chromium, Total, ICAP	0.08	mg/l	0.020	2
	01/10/07 09:05	347677	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	20	mg/l	10	50
	01/08/07 00:00	347541	( ML/EPA 350.1 )	Ammonia Nitrogen	2.55	mg/l	0.25	5
	01/03/07 15:11	346984	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	01/03/07 15:11	346985	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	17	mg/l	0.62	50
	01/09/07 10:31	347693	( ML/EPA 353.2 )	Nitrate + Nitrite as N by RFA	19	mg/l	2.5	25
	01/04/07 15:40	347212	( S4500PE/ 365.1)	Total phosphorus-P	0.011	mg/l	0.010	1
	01/05/07 13:47	347210	( ML/EPA 351.2 )	Kjeldahl Nitrogen	ND	mg/l	1.0	5



**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  
QC Summary  
#192296

Tronox LLC - Henderson

QC Ref #346916 - Apparent Color Analysis Date: 01/03/2007

2701030010 EFFLUENT  
2701030011 INFLUENT

Analyzed by: sar  
Analyzed by: sar

QC Ref #346984 - Nitrite, Nitrogen by IC Analysis Date: 01/03/2007

2701030010 EFFLUENT  
2701030011 INFLUENT

Analyzed by: jkz  
Analyzed by: jkz

QC Ref #346985 - Nitrate as Nitrogen by IC Analysis Date: 01/03/2007

2701030010 EFFLUENT  
2701030011 INFLUENT

Analyzed by: jkz  
Analyzed by: jkz

QC Ref #347052 - Perchlorate Analysis Date: 01/04/2007

2701030010 EFFLUENT  
2701030011 INFLUENT

Analyzed by: raja  
Analyzed by: raja

QC Ref #347103 - PH (H3=past HT, not compliant) Analysis Date: 01/04/2007

2701030010 EFFLUENT

Analyzed by: jxl

QC Ref #347210 - Kjeldahl Nitrogen Analysis Date: 01/05/2007

2701030010 EFFLUENT  
2701030011 INFLUENT

Analyzed by: bxr  
Analyzed by: bxr

QC Ref #347211 - Total phosphorus-P Analysis Date: 01/04/2007

2701030010 EFFLUENT

Analyzed by: bxr



750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3829  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
QC Summary  
#192296

Tronox LLC - Henderson  
(continued)

---

QC Ref #347212 - Total phosphorus-P		Analysis Date: 01/04/2007
2701030011	INFLUENT	Analyzed by: bxr
QC Ref #347343 - Total Suspended Solids (TSS)		Analysis Date: 01/05/2007
2701030010	EFFLUENT	Analyzed by: anh
QC Ref #347355 - Chlorate by IC		Analysis Date: 01/06/2007
2701030010	EFFLUENT	Analyzed by: raja
2701030011	INFLUENT	Analyzed by: raja
QC Ref #347363 - Chromium, Total, ICAP		Analysis Date: 01/04/2007
2701030011	INFLUENT	Analyzed by: wbh
QC Ref #347491 - Chromium, Total, ICAP		Analysis Date: 01/08/2007
2701030010	EFFLUENT	Analyzed by: wbh
QC Ref #347493 - Iron, Total, ICAP		Analysis Date: 01/08/2007
2701030010	EFFLUENT	Analyzed by: wbh
QC Ref #347541 - Ammonia Nitrogen		Analysis Date: 01/08/2007
2701030010	EFFLUENT	Analyzed by: nina
2701030011	INFLUENT	Analyzed by: nina



**MWH Laboratories**  
A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3829  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

Laboratory  
QC Summary  
#192296

Tronox LLC - Henderson  
(continued)

---

QC Ref #347677 - Total Inorganic Nitrogen-Calc Analysis Date: 01/10/2007

2701030010	EFFLUENT	Analyzed by: dwr
2701030011	INFLUENT	Analyzed by: dwr

QC Ref #347693 - Nitrate + Nitrite as N by RFA Analysis Date: 01/09/2007

2701030011	INFLUENT	Analyzed by: maria
------------	----------	--------------------

QC Ref #348539 - Gross Alpha Radiation Analysis Date: 01/11/2007

2701030010	EFFLUENT	Analyzed by: ajc
------------	----------	------------------



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  
 QC Report  
 #192296

Tronox LLC - Henderson

QC Ref #346916      Apparent Color

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

QC Ref #346984      Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 26	01030066	MGL		( 0-0 )	
LCS1	Nitrite, Nitrogen by IC	1.0	1.01	MGL	101.0	( 90-110 )	
LCS2	Nitrite, Nitrogen by IC	1.0	0.984	MGL	98.4	( 90-110 )	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrite, Nitrogen by IC	0.500	0.535	MGL	107.0	( 90-110 )	
MSD	Nitrite, Nitrogen by IC	0.500	0.528	MGL	105.6	( 90-110 )	
RPD_LCS	Nitrite, Nitrogen by IC	101.000	98.400	MGL	2.6	( 0-20 )	
RPD_MS	Nitrite, Nitrogen by IC	107.000	105.600	MGL	1.3	( 0-20 )	

QC Ref #346985      Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 26	01030066	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.73	MGL	109.2	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.63	MGL	105.2	( 90-110 )	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrate as Nitrogen by IC	1.25	1.32	MGL	105.6	( 90-110 )	
MSD	Nitrate as Nitrogen by IC	1.25	1.29	MGL	103.2	( 90-110 )	
RPD_LCS	Nitrate as Nitrogen by IC	109.200	105.200	MGL	3.7	( 0-20 )	
RPD_MS	Nitrate as Nitrogen by IC	105.600	103.200	MGL	2.3	( 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  
 are advisory only, unless otherwise specified in the method.



**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  
QC Report  
#192296

Tronox LLC - Henderson  
(continued)

QC Ref #347052      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 26	12280106	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.0	UGL	96.0	( 85-115 )	
LCS2	Perchlorate	25.0	23.5	UGL	94.0	( 85-115 )	
LCS3	Perchlorate	4	3.73	UGL	93.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	21.3	UGL	85.2	( 70-130 )	
MSD	Perchlorate	25.0	21.8	UGL	87.2	( 70-130 )	
RPD_LCS	Perchlorate	96.000	94.000	UGL	2.1	( 0-20 )	
RPD_MS	Perchlorate	85.200	87.200	UGL	2.3	( 0-20 )	

QC Ref #347103      PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab# 27	01030435	UNIT		( 0-0 )	
DUP	PH (H3=past HT, not compliant)	7.99	8.00	UNIT		( 0-20 )	0.1

QC Ref #347210      Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 26	12290209	MGL		( 0-0 )	
LCS1	Kjeldahl Nitrogen	4	3.95	MGL	98.8	( 90-110 )	
LCS2	Kjeldahl Nitrogen	4	3.98	MGL	99.5	( 90-110 )	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	4.09	MGL	102.2	( 90-110 )	
MSD	Kjeldahl Nitrogen	4	4.28	MGL	107.0	( 90-110 )	
RPD_LCS	Kjeldahl Nitrogen	98.750	99.500	MGL	0.8	( 0-20 )	
RPD_MS	Kjeldahl Nitrogen	102.250	107.000	MGL	4.5	( 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  
are advisory only, unless otherwise specified in the method.



**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  
QC Report  
#192296

Tronox LLC - Henderson  
(continued)

QC Ref #347211      Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 26	01030010	MGL		( 0-0 )	
LCS1	Total phosphorus-P	0.4	0.396	MGL	99.0	( 90-110 )	
LCS2	Total phosphorus-P	0.4	0.439	MGL	109.7	( 90-110 )	
MBLK	Total phosphorus-P	ND	<0.010	MGL			
MS	Total phosphorus-P	0.4	0.409	MGL	102.2	( 90-110 )	
MSD	Total phosphorus-P	0.4	0.383	MGL	95.8	( 90-110 )	
RPD_LCS	Total phosphorus-P	99.000	109.750	MGL	<u>10.3</u>	( 0-10 )	
RPD_MS	Total phosphorus-P	102.250	95.750	MGL	6.6	( 0-20 )	

QC Ref #347212      Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 26	01030161	MGL		( 0-0 )	
LCS1	Total phosphorus-P	0.4	0.393	MGL	98.2	( 90-110 )	
LCS2	Total phosphorus-P	0.4	0.395	MGL	98.8	( 90-110 )	
MBLK	Total phosphorus-P	ND	<0.010	MGL			
MS	Total phosphorus-P	0.4	0.381	MGL	95.2	( 90-110 )	
MSD	Total phosphorus-P	0.4	0.380	MGL	95.0	( 90-110 )	
RPD_LCS	Total phosphorus-P	98.250	98.750	MGL	0.5	( 0-10 )	
RPD_MS	Total phosphorus-P	95.250	95.000	MGL	0.3	( 0-20 )	

QC Ref #347343      Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01040162	MGL		( 0-0 )	
LCS1	Total Suspended Solids (TSS)	175	166	MGL	94.9	( 80-120 )	
LCS2	Total Suspended Solids (TSS)	175	168	MGL	96.0	( 80-120 )	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			

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 Ref #347355 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01040102	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	208	UGL	104.0	( 75-125 )	
LCS2	Chlorate by IC	200	212	UGL	106.0	( 75-125 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	11.6	UGL	116.0	( 50-150 )	
MS	Chlorate by IC	100	97.9	UGL	97.9	( 75-125 )	
MSD	Chlorate by IC	100	99.3	UGL	99.3	( 75-125 )	
RPD_LCS	Chlorate by IC	104.000	106.000	UGL	1.9	( 0-20 )	
RPD_MS	Chlorate by IC	97.900	99.300	UGL	1.4	( 0-20 )	

QC Ref #347363 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01030212	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.995	MGL	99.5	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.010	MGL	100.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 70-130 )	

QC Ref #347491 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.956	MGL	95.6	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.914	MGL	91.4	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0054	MGL	54.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	0.941	MGL	94.1	( 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  
are advisory only, unless otherwise specified in the method.

Tronox LLC - Henderson  
(continued)

MSD Chromium, Total, ICAP 1.00 0.96 MGL 96.0 ( 70-130 )

QC Ref #347493 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.81	MGL	96.2	( 85-115 )	
LCS2	Iron, Total, ICAP	5.0	4.57	MGL	91.4	( 85-115 )	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.020	MGL	100.0	( 50-150 )	
MS	Iron, Total, ICAP	5.0	4.83	MGL	96.6	( 70-130 )	
MSD	Iron, Total, ICAP	5.0	4.86	MGL	97.2	( 70-130 )	
RPD_MS	Iron, Total, ICAP	96.600	97.200	MGL	0.6	( 0-20 )	

QC Ref #347541 Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01040299	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	1.15	MGL	<u>115.0</u>	( 90-110 )	
MSD	Ammonia Nitrogen	1.00	1.15	MGL	<u>115.0</u>	( 90-110 )	
RPD_LCS	Ammonia Nitrogen	104.000	104.000	MGL	0.0	( 0-20 )	
RPD_MS	Ammonia Nitrogen	115.000	115.000	MGL	0.0	( 0-20 )	

QC Ref #347693 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01030250	MGL		( 0-0 )	
LCS1	Nitrate + Nitrite as N by RFA	1.0	1.04	MGL	104.0	( 90-110 )	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.97	MGL	97.0	( 90-110 )	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.10	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.05	MGL	100.0	( 50-150 )	

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)

MS	Nitrate + Nitrite as N by RFA	1.0	0.98	MGL	98.0	( 90-110 )
MSD	Nitrate + Nitrite as N by RFA	1.0	1.01	MGL	101.0	( 90-110 )

QC Ref #348539

Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 26	12270198	PCIL		( 0-0 )	
DUP	Alpha, Gross	ND	ND	PCIL		( 0-20 )	
LCS1	Alpha, Gross	16.6	15.3	PCIL	92.2	( 80-120 )	
LCS2	Alpha, Gross	16.6	15.8	PCIL	95.2	( 80-120 )	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	34.2	PCIL	103.0	( 70-130 )	
RPD_LCS	Alpha, Gross	92.169	95.181	PCIL	3.2	( 0-20 )	
DUP	Beta, Gross	ND	ND	PCIL		( 0-20 )	
LCS1	Beta, Gross	15.7	13.9	PCIL	88.5	( 80-120 )	
LCS2	Beta, Gross	15.7	16.0	PCIL	101.9	( 80-120 )	
MBLK	Beta, Gross	ND	<3.0	PCIL			
MS	Beta, Gross	31.4	30.5	PCIL	97.1	( 70-130 )	
RPD_LCS	Beta, Gross	88.535	101.911	PCIL	14.0	( 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  
are advisory only, unless otherwise specified in the method.



Kemmigee-mp

**Pace Analytical Services, Inc.**

MS62, P.O. Box 158

Madison, PA 15663

Phone: 724.722.5214

Fax: 724.722.5208

January 23, 2007

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

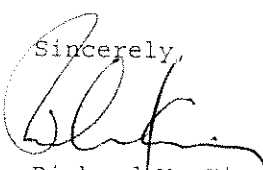
Drinking Water Characterization; Purchase Order No. 99-25732  
192296 NW DW, Ra-226/228; NV Cert Expires 01/31/07; MWH Laboratories  
Pace Project No. 07-0085

Dear Ms. Montanez:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc. The sample was received on January 4, 2007 and logged in for analysis on January 8, 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

PACE ANALYTICAL SERVICES, INC.  
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-0085

CLIENT: Purchase Order Number: 99-25732

B: SAMPLE IDENTIFICATIONS:

PACE: 0701-0225

CLIENT: 2701030010

C: SHIPPING/RECEIVING COMMENTS:

Final Report 1/23/07.

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.  
 Pace Project No. 07-0085  
 Drinking Water Characterization; 192296 NV DW, Ra-226/228  
 Charge Order No. 99-25732; NV Cert Expires 01/31/07

Page 1 of 2

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act + Unc	(MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	01/16/07	0.122 ± 0.238	(0.330)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	01/18/07	0.366 ± 0.385	(0.827)

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

0000004

Table 1  
(Continued)

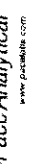
Page 2 of 2

Parameter	Analytical Method	Units	Sample Identification		
			Analyzed	Act ± Unc (MDC)	Method Blank (1/4/07)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	01/16/07	0.121 ± 0.444	(0.727)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	01/18/07	0.486 ± 0.373	(0.753)

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: 1/13/2007  
Worklist: 13832  
Matrix: DW

*21/23/07*

Analyst Must Manually Enter All Fields Highlighted in Yellow.

**Method Blank Assessment**

MB Sample ID: MB13832  
 MB concentration: 0.121  
 MB Counting Uncertainty: 0.444  
 MB MDC: 0.727  
 MB Numerical Performance Indicator: 2.36  
 MB Status vs Numerical Indicator: N/A  
 MB Status vs. MDC: Pass

**Laboratory Control Sample Assessment**

Count Date:	Count	Y
1/16/2007	LCS13832	LCS13832
1/16/2007	06-005	06-005
1/16/2007	57.288	57.288
1/16/2007	0.10	0.10
1/16/2007	0.500	0.500
1/16/2007	11.458	11.458
1/16/2007	0.275	0.275
1/16/2007	12.524	12.524
1/16/2007	2.376	2.346
1/16/2007	0.711	0.688
1/16/2007	107.55%	109.31%
1/16/2007	N/A	N/A
1/16/2007	Pass	Pass

**Duplicate Sample Assessment**

Sample I.D.: LCS13832  
 Duplicate Sample I.D.: LCS13832  
 Sample Result (pCi/L, g, F): 12.323  
 Sample Result Counting Uncertainty (pCi/L, g, F): 2.376  
 Sample Duplicate Result (pCi/L, g, F): 12.524  
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 2.346  
 Are sample and/or duplicate results below MDC? NO  
 Duplicate Numerical Performance Indicator: -0.118  
 Duplicate RPD: 1.62%  
 Duplicate Status vs Numerical Indicator: N/A  
 Duplicate Status vs RPD: Pass

**Sample Matrix Spike Control Assessment**

Sample Collection Date: 1/3/2007  
 Sample I.D.: 0701-0210  
 Sample MS I.D.: 0701-0210MS  
 Spike I.D.: 06-005  
 Spike Volume Used in MS (mL): 57.289  
 Spike Volume Used in MSD (mL): 0.20  
 MS/MSD Decay Corrected Spike Concentration (pCi/mL, g, F): 0.500  
 MS Aliquot (L, g, F): 22.915  
 MS Target Conc (pCi/L, g, F): 0.550  
 MSD Aliquot (L, g, F): -0.151  
 MSD Target Conc (pCi/L, g, F): 0.295  
 Spike uncertainty (calculated): 3.144  
 Sample Result: 22.351  
 Sample Result Counting Uncertainty (pCi/L, g, F): -0.253  
 Matrix Spike Result: 3.144  
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 98.19%  
 Matrix Spike Duplicate Result: N/A  
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Pass  
 MS Numerical Performance Indicator:  
 MSD Numerical Performance Indicator:  
 MS Percent Recovery:  
 MSD Percent Recovery:  
 MS Status vs Numerical Indicator:  
 MSD Status vs Numerical Indicator:  
 MS Status vs Recovery:  
 MSD Status vs Recovery:

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

Sample I.D.:  
 Sample MS I.D.:  
 Sample MSD I.D.:  
 Matrix Spike Result:  
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):  
 Sample Matrix Spike Duplicate Result:  
 Sample 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:

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

Comments:



000006



PACE Analytical Services, Inc.

# Quality Control Sample Performance Assessment

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: OLB  
Date: 1/18/2007  
Worklist: 13829  
Matrix: DW

**Method Blank Assessment**

MB Sample ID: MB13829  
 MB Concentration: 0.486  
 MB Counting Uncertainty: 0.373  
 MB MDC: 0.753  
 MB Numerical Performance Indicator: 2.55  
 MB Status vs Numerical Indicator: N/A  
 MB Status vs. MDC: Pass

**Laboratory Control Sample Assessment**

Count Date:	LCS13829	Y
1/18/2007	05-034	0.10
Spike I.D.:	77.459	0.800
Spike Concentration (pCi/mL):	0.10	9.682
Volume Used (mL):	0.300	0.300
Aliquot Volume (L, g, F):	9.713	8.557
Target Conc (pCi/L, g, F):	0.963	1.082
Uncertainty (Calculated):	100.31%	-1.96
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	N/A	N/A
Numerical Performance Indicator:	Pass	Pass
Status vs Recovery:	Pass	Pass

**Duplicate Sample Assessment**

Sample I.D.: LCS13829  
 Duplicate Sample I.D.: LCS13829  
 Sample Result (pCi/L, g, F): 9.713  
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.963  
 Sample Duplicate Result (pCi/L, g, F): 8.557  
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 1.082  
 Are sample and/or duplicate results below MDC? NO  
 Duplicate Numerical Performance Indicator: 1.564  
 Duplicate RPD: 12.65%  
 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.

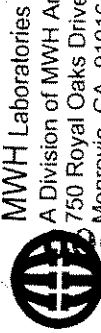
Comments:

**Sample Matrix Spike Control Assessment**

Sample Collection Date: 12/14/2006  
 Sample I.D.: 0701-0227  
 Sample MS I.D.: 0701-0227MS  
 Sample MSD I.D.: 05-034  
 Spike I.D.: 78.371  
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 0.20  
 Spike Volume Used in MS (mL): 0.800  
 Spike Volume Used in MSD (mL): 19.593  
 MS Aliquot (L, g, F):  
 MSD Aliquot (L, g, F):  
 MS Target Conc (pCi/L, g, F):  
 MSD Target Conc (pCi/L, g, F):  
 Spike uncertainty (calculated): 0.607  
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.068  
 Sample Matrix Spike Result: 0.388  
 Sample Spike Result Counting Uncertainty (pCi/L, g, F): 15.214  
 Matrix Spike Result: 1.091  
 Sample Matrix Spike Duplicate Result: -6.663  
 MS Numerical Performance Indicator: 77.31%  
 MSD Numerical Performance Indicator: N/A  
 MS Percent Recovery: Pass  
 MS Status vs Numerical Indicator: Pass  
 MSD Status vs Recovery: Pass

**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:  
 Sample Matrix Spike Duplicate 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**  
**Trace Analytical - Waltz Mill**

70 Westinghouse Waltz Mill Site  
 70 Madison Exit  
 Madison, PA 15663

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

MWH Project # Report Due: Sub PO#  
 192296 01/25/07 99-25732

emmm



Client Sample ID for reference only

Date 01/03/07 Submittal Form & Purchase Order 99-25732

\*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!  
 Report & Invoice must have the MWH Project Number 192296 and Job # 1000032  
 Sub PO# 99-25732

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

Reports: Elena Montanez Sub-contracting Administrator  
 EMAIL TO: mwhlabs-subcontractreports@mwhglobal.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

07-0085  
 Provide in each Report  
 the Specified State  
 Certification # & Exp Date for  
 requested tests + matrix

NEVEDA

Analysis Requested Date & Time Matrix Container

Analysis Requested	Date & Time	Matrix	Container
Radioactivity, Radium 226 Sub-contracted	01/02/07 06:30	dw	1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION OF
Radioactivity, Radium 228 Sub-contracted			2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION OF
Method	Blank		

Relinquished by: *[Signature]* Date 01/03/07 Time 14:29 Sample Control *[Signature]* Date 1/4/07 Time 10:00  
 Received by: *[Signature]* Date 1/4/07 Time 10:00  
 An Acknowledgement of Receipt is requested to attn: Julie Lee