



# 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)

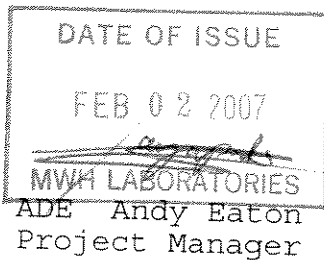
## Laboratory Report

for

Tronox LLC - Henderson  
PO Box 55

Henderson , NV 89009

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



Report#: 192802  
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].





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 Tronox 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# 33597 6534 RS

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

Created by 0  
 Order Date 12/11/06  
 Date Needed by Client  
 Date Samples to Arrive at MWL  
 SHIP LOCATION

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

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

Billing Address  
 Tronox LLC  
 Attn: Accounts Payable  
 P.O. 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#

**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 RAZ226/228 to be subbed to a NV certified lab
1	PH, NO2-N, NO3, N-INOR, 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
1	RA228EDD/RA226EDD	2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE DL'S	UN 2031	Testcode for CRVI changed to IC effective 1/6/04
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	Moved CBOD to separate order as of 10/21/04
-	-	note: deleted CRVI-LOW from bottle order - being sent separately from now on		updated BO 12-8-05 - deleted some tests and changed Cr from MS to ICP.
-	-			added clo3 back 2-7-06
-	-			removed CRVI-LOW to sep BO 2-10-06

Prepared By \_\_\_\_\_  
 Status \_\_\_\_\_ Date Shipped \_\_\_\_\_  
 Carrier \_\_\_\_\_ Qty of Coolers \_\_\_\_\_ Tracking Number \_\_\_\_\_



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: 142395

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.

SCANNED

CARRIER <b>Federal Express</b>		Date <b>1/8/07</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>Weekly Discreets—Influent and Effluent Grab Samples Not Regulated</b>  1 ice chest @ 30 lbs 1 ice chest @ 21 lbs		<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					
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		
		0			
2	TOTAL GROSS WEIGHT 51	TOTAL TARE WEIGHT 0	51		
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					
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.					
"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 268857, Oklahoma City, OK 73126-8857		PER <b>Chuck Whitney</b>	AGENT	PER	



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 Tronox LLC- Henderson Standing**

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

Client Code KERRMCGEE-MP  
 Project Code CLC4  
 PO# / Job#  
 Blanket PO

W Weekly  
 Week 1

SO# 33460 6532 RS

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

Created by 0  
 Order Date 12/04/06  
 Date Needed by Client  
 Date Samples to Arrive at MWL  
 SHIP LOCATION

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

Billing Address  
 Tronox LLC  
 Attn: Accounts Payable  
 P.O. 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>
1	CR	1 125ml poly acid rinsed + 1ml HNO3 (18%)	3077	This cooler can be shipped out along with the IX-EFF cooler as one order. NOTIFY LAB AS SOON AS CR-VI COMES IN - 24HR ht
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN 2031	<b>PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER- also use a LARGE COOLER</b>
1	COLOR	1 500ml amber glass / no preservative	UNZ796	<b>PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER- also use a LARGE COOLER</b>
1	NO2-N, NO3, N-INOR	1 500 ml poly / no preservative		<b>SHORT HOLDING TIME!!!!</b>
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	<b>SHORT HOLDING TIME!!!!</b>
		note: deleted CRVI-LOW from bottle order - being sent separately from now on		Login - use Profile #KERRINF for this site note to Login - notify Lisa when this sample comes in so she can run NO3 on her IC 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. Changed CR-MS to CR and updated profile for login added CLO3 back to weekly 2-7-08 2/10/06- CRVI-LOW separate order deleted NO3RFA as of 7-5-06;

Active Code Status Date Shipped Carrier Qty of Coolers Tracking Number Prepared By



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: 142395

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

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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.

SCANNED

CARRIER <b>Federal Express</b>		Date <b>1/8/07</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.	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.
SHIPPED FROM <b>Henderson, NV</b>			
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY
	<b>Weekly Discreets—Influent and Effluent Grab Samples Not Regulated  1 ice chest @ 30 lbs 1 ice chest @ 21 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			
PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
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.	NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT
			NET WEIGHT
		0	
	TOTAL GROSS WEIGHT	TOTAL TARE WEIGHT	
	51	0	51
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			
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 268857, Oklahoma City, OK 73126-8857	PER <b>Chuck Whitney</b>	AGENT	PER

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



Ship Date: 08JAN07  
ActWgt: 21 LB  
System#: 2274147/INET2500  
Account#: S \*\*\*\*\*

REF: MSO #142395



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**

CLS 100 066/19/23

**PRIORITY OVERNIGHT**

**TUE**

TRK# 7929 1182 4641

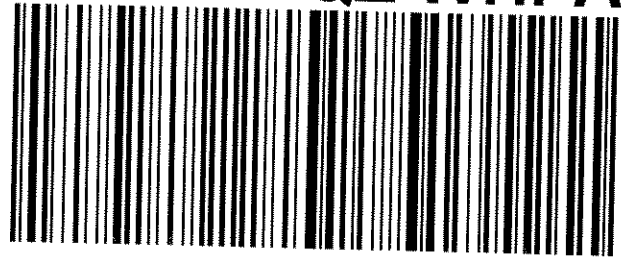
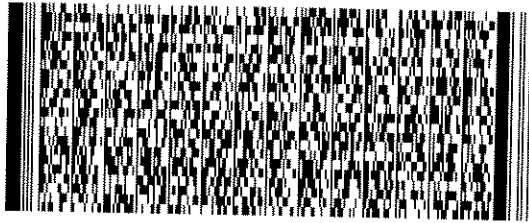
FORM 0201

Deliver By: 09JAN07

**BUR A2**

91016 -CA-US

**QZ WHPA**



SCANNED

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.

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#: 192802  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **01/09/07**. 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
2701090303	EFFLUENT		Water	08-jan-2007 06:30:00
		@R226EDD @R228EDD @RADCWB CLO3		CLO4 COLOR
		CR FE N-INOR NH3		NH3-DIST NO2-N
		NO3 P PH T		T-P TKN
		TSS		
2701090304	INFLUENT		Water	08-jan-2007 07:00:00
		CLO3 CLO4 COLOR CR		N-INOR NH3
		NH3-DIST NO2-N NO3 NO3RFA		P T
		T-P TKN		

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)





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

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

Report  
Comments  
#192802

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**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. Nevada Cert PA91-2004-77



760 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  
 Hits Report  
 #192802

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

Samples Received  
 09-jan-2007 15:03:20

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2701090303</b>	<b>EFFLUENT</b>				
01/24/07		Radium 226	<0.774	3	pCi/l	0.77
01/24/07		Radium 226, Minimal Detectable	0.774		pCi/l	
01/24/07		Radium 226, Two Sigma Error	0.461		pCi/l	
01/29/07		Radium 228	<0.774	5	pCi/l	0.77
01/29/07		Radium 228, Minimum Detectable	0.774		pCi/l	
01/29/07		Radium 228, Two Sigma Error	0.461		pCi/l	
01/17/07		Alpha, Gross	19	15	pCi/l	7.7
01/17/07		Alpha, Min Detectable Activity	7.72		pCi/l	
01/17/07		Alpha, Two Sigma Error	8.8		pCi/l	
01/11/07		Ammonia Nitrogen	0.491		mg/l	0.10
01/09/07		Apparent Color	5	15	ACU	3.0
01/11/07		Iron, Total, ICAP	0.44	0.3	mg/l	0.040
01/18/07		Kjeldahl Nitrogen	2.1		mg/l	0.20
01/11/07		Metals digestion performed.	Y		Yes/No	
01/10/07		PH (H3=past HT, not compliant)	7.5	6.5-8.5	Units	0.0010
01/16/07		Total Inorganic Nitrogen-Calc	0.49		mg/l	0.20
01/12/07		Total phosphorus-P	0.17		mg/l	0.010
	<b>2701090304</b>	<b>INFLUENT</b>				
01/11/07		Ammonia Nitrogen	2.70		mg/l	0.10
01/09/07		Apparent Color	10	15	ACU	3.0
01/11/07		Chlorate by IC	475000		ug/l	50000
01/10/07		Chromium, Total, ICAP	0.032		mg/l	0.020
01/16/07		Nitrate + Nitrite as N by RFA	18	10	mg/l	2.5
01/09/07		Nitrate as Nitrogen by IC	18	10	mg/l	0.62
01/12/07		Perchlorate	230000		ug/l	20000
01/16/07		Total Inorganic Nitrogen-Calc	21		mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



**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  
Data Report  
#192802

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

Samples Received  
01/09/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>EFFLUENT (2701090303)                      Sampled on 01/08/07 06:30</b>								
	01/11/07 00:00	348058	( ML/EPA 300.1 )	Chlorate by IC	ND	ug/l	50	5
	01/12/07 00:01	348175	( EPA 314 )	Perchlorate	ND	ug/l	10	5
	01/09/07 00:00	347667	( ML/S2120B )	Apparent Color	5	ACU	3.0	1
	01/11/07 16:26	348022	( ML/EPA 200.7 )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	01/11/07 10:01		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	01/11/07 16:26	348024	( ML/EPA 200.7 )	Iron, Total, ICAP	0.44	mg/l	0.040	2
	01/16/07 09:15	348234	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	0.49	mg/l	0.20	50
	01/11/07 00:00	348070	( ML/EPA 350.1 )	Ammonia Nitrogen	0.491	mg/l	0.10	2
	01/09/07 19:43	347717	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	01/09/07 19:43	347720	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	ND	mg/l	0.62	50
	01/10/07 00:00	347881	( 4500HB/ E 150 )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
	01/12/07 14:16	348094	( S4500PE/ 365.1 )	Total phosphorus-P	0.17	mg/l	0.010	1
	01/18/07 14:17	348756	( ML/EPA 351.2 )	Kjeldahl Nitrogen	2.1	mg/l	0.20	1
	01/12/07 15:40	348181	( ML/EPA 160.2 )	Total Suspended Solids (TSS)	ND	mg/l	10	1
<b>Gross Alpha Radiation</b>								
	01/17/07 00:00	348677	( ML/EPA 900.0 )	Alpha, Gross	19	pCi/l	7.7	1
	01/17/07 00:00	348677	( ML/EPA 900.0 )	Alpha, Two Sigma Error	8.8	pCi/l	0	1
	01/17/07 00:00	348677	( ML/EPA 900.0 )	Alpha, Min Detectable Activity	7.72	pCi/l	0	1
<b>Radium 226 (Sub)</b>								
	01/24/07 00:00		( EPA 903.1 )	Radium 226	<0.774	pCi/l	0.77	1
	01/24/07 00:00		( EPA 903.1 )	Radium 226, Two Sigma Error	0.461	pCi/l	0	1
	01/24/07 00:00		( EPA 903.1 )	Radium 226, Minimal Detectable	0.774	pCi/l	0	1
<b>Radium 228 (Sub)</b>								
	01/29/07 00:00		( EPA 904.0 )	Radium 228	<0.774	pCi/l	0.77	1
	01/29/07 00:00		( EPA 904.0 )	Radium 228, Two Sigma Error	0.461	pCi/l	0	1
	01/29/07 00:00		( EPA 904.0 )	Radium 228, Minimum Detectable	0.774	pCi/l	0	1



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(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>INFLUENT (2701090304)</b>		<b>Sampled on 01/08/07 07:00</b>						
01/11/07	00:00	348058	( ML/EPA 300.1 )	Chlorate by IC	475000	ug/l	50000	5000
01/12/07	00:01	348175	( EPA 314 )	Perchlorate	230000	ug/l	20000	5000
01/09/07	00:00	347667	( ML/S2120B )	Apparent Color	10	ACU	3.0	1
01/10/07	13:48	347825	( ML/EPA 200.7 )	Chromium, Total, ICAP	0.032	mg/l	0.020	2
01/16/07	09:15	348234	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	21	mg/l	10	50
01/11/07	00:00	348070	( ML/EPA 350.1 )	Ammonia Nitrogen	2.70	mg/l	0.10	2
01/09/07	19:29	347717	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
01/09/07	19:29	347720	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	18	mg/l	0.62	50
01/16/07	12:44	348672	( ML/EPA 353.2 )	Nitrate + Nitrite as N by RFA	18	mg/l	2.5	25
01/12/07	14:16	348094	( S4500PE/ 365.1 )	Total phosphorus-P	ND	mg/l	0.010	1
01/18/07	14:17	348756	( ML/EPA 351.2 )	Kjeldahl Nitrogen	ND	mg/l	0.60	3



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QC Ref #347667 - Apparent Color		Analysis Date: 01/09/2007
2701090303	EFFLUENT	Analyzed by: sar
2701090304	INFLUENT	Analyzed by: sar
QC Ref #347717 - Nitrite, Nitrogen by IC		Analysis Date: 01/09/2007
2701090303	EFFLUENT	Analyzed by: jkz
2701090304	INFLUENT	Analyzed by: jkz
QC Ref #347720 - Nitrate as Nitrogen by IC		Analysis Date: 01/09/2007
2701090303	EFFLUENT	Analyzed by: jkz
2701090304	INFLUENT	Analyzed by: jkz
QC Ref #347825 - Chromium, Total, ICAP		Analysis Date: 01/10/2007
2701090304	INFLUENT	Analyzed by: wbh
QC Ref #347881 - PH (H3=past HT, not compliant)		Analysis Date: 01/10/2007
2701090303	EFFLUENT	Analyzed by: jxl
QC Ref #348022 - Chromium, Total, ICAP		Analysis Date: 01/11/2007
2701090303	EFFLUENT	Analyzed by: wbh
QC Ref #348024 - Iron, Total, ICAP		Analysis Date: 01/11/2007
2701090303	EFFLUENT	Analyzed by: wbh
QC Ref #348058 - Chlorate by IC		Analysis Date: 01/11/2007
2701090303	EFFLUENT	Analyzed by: raja
2701090304	INFLUENT	Analyzed by: raja



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Tronox LLC - Henderson  
(continued)

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QC Ref #348070 - Ammonia Nitrogen		Analysis Date: 01/11/2007
2701090303	EFFLUENT	Analyzed by: dtn
2701090304	INFLUENT	Analyzed by: dtn
QC Ref #348094 - Total phosphorus-P		Analysis Date: 01/12/2007
2701090303	EFFLUENT	Analyzed by: bxr
2701090304	INFLUENT	Analyzed by: bxr
QC Ref #348175 - Perchlorate		Analysis Date: 01/12/2007
2701090303	EFFLUENT	Analyzed by: raja
2701090304	INFLUENT	Analyzed by: raja
QC Ref #348181 - Total Suspended Solids (TSS)		Analysis Date: 01/12/2007
2701090303	EFFLUENT	Analyzed by: anh
QC Ref #348234 - Total Inorganic Nitrogen-Calc		Analysis Date: 01/16/2007
2701090303	EFFLUENT	Analyzed by: dwr
2701090304	INFLUENT	Analyzed by: dwr
QC Ref #348672 - Nitrate + Nitrite as N by RFA		Analysis Date: 01/16/2007
2701090304	INFLUENT	Analyzed by: maria
QC Ref #348677 - Gross Alpha Radiation		Analysis Date: 01/17/2007
2701090303	EFFLUENT	Analyzed by: ajc



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#192802

Tronox LLC - Henderson  
(continued)

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QC Ref #348756 - Kjeldahl Nitrogen

Analysis Date: 01/18/2007

2701090303  
2701090304

EFFLUENT  
INFLUENT

Analyzed by: bxr  
Analyzed by: bxr



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## QC Ref #347667

## Apparent Color

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

## QC Ref #347717

## Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 26	01080257	MGL		( 0-0 )	
LCS1	Nitrite, Nitrogen by IC	1.0	1.10	MGL	<u>110.0</u>	( 90-110 )	
LCS2	Nitrite, Nitrogen by IC	1.0	1.06	MGL	106.0	( 90-110 )	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrite, Nitrogen by IC	0.500	0.540	MGL	108.0	( 90-110 )	
MSD	Nitrite, Nitrogen by IC	0.500	0.539	MGL	107.8	( 90-110 )	
RPD_LCS	Nitrite, Nitrogen by IC	110.000	106.000	MGL	3.7	( 0-20 )	
RPD_MS	Nitrite, Nitrogen by IC	108.000	107.800	MGL	0.2	( 0-20 )	

## QC Ref #347720

## Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 26	01080257	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.51	MGL	100.4	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.47	MGL	98.8	( 90-110 )	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrate as Nitrogen by IC	1.25	1.22	MGL	97.6	( 90-110 )	
MSD	Nitrate as Nitrogen by IC	1.25	1.22	MGL	97.6	( 90-110 )	
RPD_LCS	Nitrate as Nitrogen by IC	100.400	98.800	MGL	1.6	( 0-20 )	
RPD_MS	Nitrate as Nitrogen by IC	97.600	97.600	MGL	0.0	( 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.





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Tronox LLC - Henderson  
(continued)

QC Ref #347825                      Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	( 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	1.02	MGL	102.0	( 70-130 )	

QC Ref #347881                      PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab# 27	01090579	UNIT		( 0-0 )	
DUP	PH (H3=past HT, not compliant)	8.03	8.09	UNIT		( 0-20 )	0.7

QC Ref #348022                      Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.927	MGL	92.7	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.943	MGL	94.3	( 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	0.941	MGL	94.1	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.950	MGL	95.0	( 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 #348024                      Iron, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.63	MGL	92.6	( 85-115 )	
LCS2	Iron, Total, ICAP	5.0	4.69	MGL	93.8	( 85-115 )	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.022	MGL	110.0	( 50-150 )	
MS	Iron, Total, ICAP	5.0	4.75	MGL	95.0	( 70-130 )	
MSD	Iron, Total, ICAP	5.0	4.79	MGL	95.8	( 70-130 )	
RPD_MS	Iron, Total, ICAP	95.000	95.800	MGL	0.8	( 0-20 )	

**QC Ref #348058                      Chlorate by IC**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01080241	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	201	UGL	100.5	( 75-125 )	
LCS2	Chlorate by IC	200	202	UGL	101.0	( 75-125 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	10.4	UGL	104.0	( 50-150 )	
MS	Chlorate by IC	100	93.8	UGL	93.8	( 75-125 )	
MSD	Chlorate by IC	100	89.3	UGL	89.3	( 75-125 )	
RPD_LCS	Chlorate by IC	100.500	101.000	UGL	0.5	( 0-20 )	
RPD_MS	Chlorate by IC	93.800	89.300	UGL	4.9	( 0-20 )	

**QC Ref #348070                      Ammonia Nitrogen**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01090266	MGL		( 0-0 )	
LCS1	Ammonia Nitrogen	1.00	1.03	MGL	103.0	( 90-110 )	
LCS2	Ammonia Nitrogen	1.00	1.03	MGL	103.0	( 90-110 )	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MS	Ammonia Nitrogen	1.00	1.59	MGL	<u>159.0</u>	( 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  
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MSD	Ammonia Nitrogen	1.00	1.58	MGL	<u>158.0</u>	( 90-110 )
RPD_LCS	Ammonia Nitrogen	103.000	103.000	MGL	0.0	( 0-20 )
RPD_MS	Ammonia Nitrogen	159.000	158.000	MGL	0.6	( 0-20 )

QC Ref #348094      Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 26	01100307	MGL		( 0-0 )	
LCS1	Total phosphorus-P	0.4	0.426	MGL	106.5	( 90-110 )	
LCS2	Total phosphorus-P	0.4	0.430	MGL	107.5	( 90-110 )	
MBLK	Total phosphorus-P	ND	<0.010	MGL			
MS	Total phosphorus-P	0.4	0.411	MGL	102.7	( 90-110 )	
MSD	Total phosphorus-P	0.4	0.425	MGL	106.2	( 90-110 )	
RPD_LCS	Total phosphorus-P	106.500	107.500	MGL	0.9	( 0-10 )	
RPD_MS	Total phosphorus-P	102.750	106.250	MGL	3.3	( 0-20 )	

QC Ref #348175      Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01100393	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	25.0	UGL	100.0	( 85-115 )	
LCS2	Perchlorate	25.0	25.5	UGL	102.0	( 85-115 )	
LCS3	Perchlorate	4	4.26	UGL	106.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	25.0	UGL	100.0	( 70-130 )	
MSD	Perchlorate	25.0	23.9	UGL	95.6	( 70-130 )	
RPD_LCS	Perchlorate	100.000	102.000	UGL	2.0	( 0-20 )	
RPD_MS	Perchlorate	100.000	95.600	UGL	4.5	( 0-20 )	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.  
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QC Ref #348181                      Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01060008	MGL		( 0-0 )	
LCS1	Total Suspended Solids (TSS)	175	164	MGL	93.7	( 80-120 )	
LCS2	Total Suspended Solids (TSS)	175	172	MGL	98.3	( 80-120 )	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			

QC Ref #348672                      Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01090429	MGL		( 0-0 )	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.98	MGL	98.0	( 90-110 )	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.99	MGL	99.0	( 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 )	
MS	Nitrate + Nitrite as N by RFA	1.0	1.02	MGL	102.0	( 90-110 )	
MSD	Nitrate + Nitrite as N by RFA	1.0	1.02	MGL	102.0	( 90-110 )	

QC Ref #348677                      Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01050053	PCIL		( 0-0 )	
DUP	Alpha, Gross	ND	ND	PCIL		( 0-20 )	
LCS1	Alpha, Gross	16.6	17.0	PCIL	102.4	( 80-120 )	
LCS2	Alpha, Gross	16.6	16.0	PCIL	96.4	( 80-120 )	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	41.2	PCIL	124.1	( 70-130 )	
RPD_LCS	Alpha, Gross	102.410	96.386	PCIL	6.1	( 0-20 )	
DUP	Beta, Gross	ND	ND	PCIL		( 0-20 )	
LCS1	Beta, Gross	15.7	15.0	PCIL	95.5	( 80-120 )	
LCS2	Beta, Gross	15.7	13.6	PCIL	86.6	( 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  
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MBLK	Beta, Gross	ND	<3.0	PCIL		
MS	Beta, Gross	31.4	35.6	PCIL	113.4	( 70-130 )
RPD_LCS	Beta, Gross	95.541	86.624	PCIL	9.8	( 0-20 )

QC Ref #348756

**Kjeldahl Nitrogen**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01080263	MGL		( 0-0 )	
LCS1	Kjeldahl Nitrogen	4	4.08	MGL	102.0	( 90-110 )	
LCS2	Kjeldahl Nitrogen	4	4.15	MGL	103.8	( 90-110 )	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	4.39	MGL	109.7	( 90-110 )	
MSD	Kjeldahl Nitrogen	4	4.15	MGL	103.8	( 90-110 )	
RPD_LCS	Kjeldahl Nitrogen	102.000	103.750	MGL	1.7	( 0-20 )	
RPD_MS	Kjeldahl Nitrogen	109.750	103.750	MGL	5.6	( 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.



Kerr McGee-mf

**Pace Analytical Services, Inc.**  
MS62, P.O. Box 158  
Madison, PA 15663  
Phone: 724.722.5214  
Fax: 724.722.5208

February 1, 2007

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

Drinking Water Characterization; Purchase Order No. 99-25815  
192802 NV DW, Ra-226/228; NV Cert Expires 01/31/07; MWH Laboratories  
Pace Project No. 07-0202

Dear Ms. Montanez:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc. The sample was received on January 11, 2007 and logged in for analysis on January 12, 2007.

Methods used are indicated on the attached data tables. 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: 07-0202

CLIENT: Purchase Order Number: 99-25815

B: SAMPLE IDENTIFICATIONS:

PACE: 0701-0840

CLIENT: 2701090303

C: SHIPPING/RECEIVING COMMENTS:

Final Report 2/1/07.

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. 07-0202  
Drinking Water Characterization; 192802 NV DW, Ra-226/228  
Charge Order No. 99-25815; NV Cert Expires 01/31/07

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Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act	Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	01/24/07	0.316 ± 0.461	(0.774)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	01/29/07	0.222 ± 0.377	(0.847)

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



0000004

Table 1  
(Continued)

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Parameter	Analytical Method	Units	Sample Identification		
			Analyzed	Act + Unc	(MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	01/24/07	0.195 ± 0.383	(0.718)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	01/29/07	0.459 ± 0.303	(0.593)

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

# Quality Control Sample Performance Assessment

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

Test: Ra-226  
Analyst: CMC  
Date: 1/19/2007  
Worklist: 13859  
Matrix: DW

*2/1/07*

**Method Blank Assessment**

MB Sample ID: MB13859  
MB concentration: 0.195  
MB Counting Uncertainty: 0.383  
MB MDC: 0.718  
MB Numerical Performance Indicator: 5.12  
MB Status vs Numerical Indicator: N/A  
MB Status vs. MDC: **Pass**

**Laboratory Control Sample Assessment**

Count Date:	LCS13859	Y
1/23/2007	LCS13859	
Spike I.D.:	06-005	
Spike Concentration (pCi/mL):	57.287	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.500	
Target Conc. (pCi/L, g, F):	11.457	
Uncertainty (Calculated):	0.275	
Result (pCi/L, g, F):	9.288	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.726	
Numerical Performance Indicator:	-2.43	
Percent Recovery:	81.07%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	<b>Pass</b>	

**Duplicate Sample Assessment**

Sample I.D.: LCS13859  
Duplicate Sample I.D.: LCS13859  
Sample Result (pCi/L, g, F): 9.288  
Sample Duplicate Result (pCi/L, g, F): 8.715  
Sample Duplicate Counting Uncertainty (pCi/L, g, F): 2.033  
Are sample and/or duplicate results below MDC? NO  
Duplicate Numerical Performance Indicator: 0.422  
Duplicate RPD: 6.37%  
Duplicate Status vs Numerical Indicator: N/A  
Duplicate Status vs RPD: **Pass**

Enter duplicate sample IDs if other than LCS/LCSD in the space below

**Sample Matrix Spike Control Assessment**

Sample Collection Date: 1/4/2007  
Sample I.D.: 0701-0812  
Sample MS I.D.: 0701-0812MS  
Sample MSD I.D.: 06-005  
MS/MSD Decay Corrected Spike Concentration (pCi/mL): 57.289  
Spike Volume Used in MS (mL): 0.20  
MS Aliquot (L, g, F): 0.500  
MS Target Conc. (pCi/L, g, F): 22.915  
MSD Aliquot (L, g, F):  
MSD Target Conc. (pCi/L, g, F): 0.550  
Spike uncertainty (calculated): 0.196  
Sample Result: 0.196  
Sample Result Counting Uncertainty (pCi/L, g, F): 0.271  
Sample Matrix Spike Result: 27.133  
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F): 3.166  
Sample Matrix Spike Duplicate Result: 2.445  
MS Numerical Performance Indicator: 117.55%  
MS Percent Recovery: N/A  
MSD Status vs Numerical Indicator: N/A  
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:

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

Comments:

0000005

9000000



PACE Analytical Services, Inc.

# Quality Control Sample Performance Assessment

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

*Q21167*

Test: Ra-228  
Analyst: OLB  
Date: 1/29/2007  
Worklist: 13856  
Matrix: DW

**Method Blank Assessment**

MB Sample ID: MB13856  
 MB Concentration: 0.459  
 M/B Counting Uncertainty: 0.303  
 MB MDC: 0.593  
 MB Numerical Performance Indicator: 2.97  
 MB Status vs Numerical Indicator: N/A  
 MB Status vs. MDC: Pass

**Laboratory Control Sample Assessment**

Count Date:	Y	LCSD (Y or N)?
1/29/2007	Y	LCSD13856
Sample I.D.:	06-009	1/29/2007
Spike Concentration (pCi/mL):	70.882	06-009
Volume Used (mL):	0.10	70.882
Aliquot Volume (L, g, F):	0.800	0.10
Target Conc. (pCi/L, g, F):	8.860	0.800
Uncertainty (Calculated):	0.275	8.860
Result (pCi/L, g, F):	6.232	0.275
LCSA CSD Counting Uncertainty (pCi/L, g, F):	0.719	6.846
Numerical Performance Indicator:	-6.69	0.883
Percent Recovery:	70.34%	-4.27
Status vs Numerical Indicator:	N/A	77.27%
Status vs Recovery:	Pass	N/A
		Pass

**Duplicate Sample Assessment**

Sample I.D.: LCS13856  
 Duplicate Sample I.D.: LCSD13856  
 Sample Result (pCi/L, g, F): 6.232  
 Sample Duplicate Result (pCi/L, g, F): 0.719  
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 6.846  
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 0.883  
 Are sample and/or duplicate results below MDC? NO  
 Duplicate Numerical Performance Indicator: -1.057  
 Duplicate RPD: 9.39%  
 Duplicate Status vs Numerical Indicator: N/A  
 Duplicate Status vs RPD: Pass

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

**Sample Matrix Spike Control Assessment**

Sample Collection Date: 1/10/2007  
 Sample MS I.D.: 0701-0814  
 Sample MSD I.D.: 0701-0814MS  
 Spike I.D.: 06-009  
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 71.343  
 Spike Volume Used in MS (mL): 0.20  
 Spike Volume Used in MSD (mL): 0.800  
 MS Aliquot (L, g, F): 17.836  
 MSD Aliquot (L, g, F):  
 MS Target Conc. (pCi/L, g, F):  
 MSD Target Conc. (pCi/L, g, F):  
 Spike uncertainty (calculated): 0.553  
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.230  
 Sample Matrix Spike Result: 0.369  
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 16.344  
 Sample Matrix Spike Duplicate Result: 1.218  
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):  
 MS Numerical Performance Indicator: -2.433  
 MSD Numerical Performance Indicator: 90.34%  
 MS Status vs Numerical Indicator: N/A  
 MSD Status vs Numerical Indicator: Pass  
 MS Status vs Recovery: Pass  
 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:

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

Comments:



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**

**Pace Analytical - Waltz Mill**

**c/o Westinghouse Waltz Mill Site**  
**170 Madison Exit**  
**Madison, PA 15663**

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

**MWH Project # Report Due: Sub PO#**  
192802 02/01/07 99-25815



ncl

Date 01/10/07

**Submittal Form & Purchase Order 99-25815**

**\*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!**  
Report & Invoice must have the MWH Project Number **192802** 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

0706202

**Reports: Elena Montanez Sub-contracting Administrator**  
**EMAIL TO: mwlab-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**

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

NEVEDA

Client Sample ID for reference only	Analysis Requested	Sample Date & Time	Matrix	Container
@R226ED	Radioactivity, Radium 226 Sub-contracted	01/09/07 06:30	dw	1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION
@R228ED	Radioactivity, Radium 228 Sub-contracted			2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION
	<i>Method Blank</i>			

Relinquished by: *[Signature]*

Received by: *[Signature]*

Sample Control

Date 01/10/07

Time *10:24*

Page 1

MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS

An Acknowledgement of Receipt is requested to attn: Julie Lee