



**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)

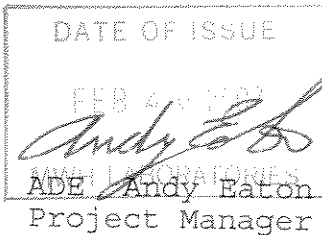
**Laboratory Report**

for

Tronox LLC - Henderson  
PO Box 55

Henderson , NV 89009

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



Report#: 194066  
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].

194066

CHAIN OF CUSTODY RECORD

MVLABS USE ONLY:

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

SAMPLES CHECKED/LOGGED IN BY: *[Signature]*  
 SAMPLE TEMP, RECEIPT AT LAB: *[Signature]*

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										(check for yes)				
KERRMCGEE-MP Jason Chambers		Weekly Permit Compliance Samples - SO #6532 & #6534		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)														
Sampler Signature: <i>Jason Chambers</i> Susan Crowley (702) 631-2234		Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009																
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CL04	RADCWB (2 Bites)	NH3, NH3-DIST	PH, NO2-N, NO3-N, INOR, TSS	CL03	FF, CR	T-P, TKN	Color	RA228EDD/RA226EDD (2 Bites)	CR	NO2-N, NO3-N, INOR	SAMPLER COMMENTS
6:30 AM	1/22/2007	EFFLUENT		RSW	X		X	X	X	X	X	X	X	X	X			Revised SO #6534
7:00	1/22/2007	INFLUENT		RSW	X		X	X	X	X	X	X	X	X	X			Revised SO #6532

\* MATRIX TYPES: Reported by Volume: CFW = Chlor(am)inated Finished Water, FW = Other Finished Water  
 Reported by Weight: SO = Soil, SL = Sludge

RGW = Raw Ground Water, CWW = Chlorinated Waste Water  
 RSW = Raw Surface Water, WW = Other Waste Water  
 SW = Storm Water

RELINQUISHED BY: <i>Jason Chambers</i>	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY: <i>[Signature]</i>		Jason Chambers	Veolia Water NA for Tronox LLC	1/22/2007	12:00 PM
RELINQUISHED BY: <i>[Signature]</i>					
RECEIVED BY: <i>[Signature]</i>					



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# 33921 6534 RS

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

Created by 0  
Order Date 12/26/06  
Date Needed by Client  
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#

# of Samples Tests

Bottles-Qty for each sample, type & preservative if any

UN#

# 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 <b>EFFLUENT</b> NOTIFY LAB AS SOON AS CR-VI COMES IN.- 24HR ht RA226/228 to be subbed to a NV certified lab <b>PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER - also use a LARGE COOLER</b> login - use profile <b>#KERREFF for this site</b> CLIENT CODE CHANGED 7/25/03 Testcode for CRVI changed to IC effective 1/6/04 Moved CBOD to separate order as of 10/21/04 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
1	@RAD CWB	2: 1 125 ml poly / no pres & 1 x 500 ml poly + 2 ml HNO3 (18%)	UN 2031	
1	NH3, NH3-DIST	1 250 ml poly+ 1 ml H2SO4 (50%)	UN 2796	
1	PH, NO2-N, NO3, N-INOR, TSS	1 500 ml poly/ no preservative <b>SHORT HOLDING TIME!!!!</b>		
1	FE, CR	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN2031	
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	
1	COLOR	1 500ml amber glass / no preservative <b>SHORT HOLDING TIME!!!!</b>		
1	RA228EDD/RA226EDD	2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE DL'S	UN 2031	
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	
		note: deleted CRVI-LOW from bottle order - being sent separately from now on		

ActiveCode Status Date Shipped Carrier Qty of Coolers Tracking Number Prepared 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# 33834 6532 RS

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

Created by  
Order Date 12/18/06  
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  
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

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

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

Quote#

Bottles-Qty for each sample, type & preservative if any

# of Samples Tests

# of Samples	Tests	Carrier	Qty of Coolers	Tracking Number	Date Shipped	Status	ActiveCode	UN#	Important Comments
1	CLO4							UN 2796	This is a weekly sample of
1	NH3, NH3-DIST,							3077	<b>INFLUENT</b> This cooler can be shipped out along with the IX-EFF cooler as one order.
1	CR							UN 2031	NOTIFY LAB AS SOON AS CR-VI COMES IN - 24HR ht
1	T-P, TKN							UN2796	<b>PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER- also use a LARGE COOLER</b>
1	COLOR								Login - use Profile
1	NO2-N, NO3, N-INOR							UN 1604	<b>#KERRINF for this site</b> note to Login - notify Lisa when this sample comes in so she can run NO3 on her IC
1	CLO3								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;

Prepared By

Carrier

Date Shipped

Status

ActiveCode

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: 142420

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>1/22/07</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 <b>TRONOX LLC</b>	
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</b>  <b>1 ice chest @ 32 lbs</b> <b>1 ice chest @ 21 lbs</b>		<b>2 COOLERS</b>
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>53</b>	TOTAL TARE WEIGHT <b>0</b>	<b>53</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 286857, Oklahoma City, OK 73126-8857	PER <b>Chuck Whitney</b>	AGENT	PER

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: 142420

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>1/22/07</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.	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</b>  <b>1 ice chest @ 32 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		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>53</b>	TOTAL TARE WEIGHT <b>0</b>	<b>53</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>Chuck Whitney</b>	AGENT	PER	

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



Ship Date: 22JAN07  
ActWgt: 32 LB  
System#: 2274147/INET2600  
Account#: S \*\*\*\*\*

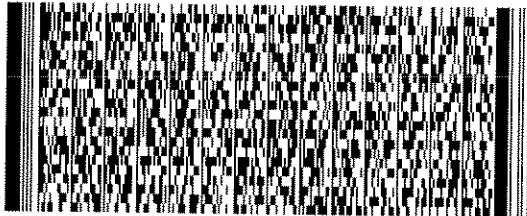
Delivery Address Bar Code



Ref # MSO #142420  
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# 7980 9010 0960

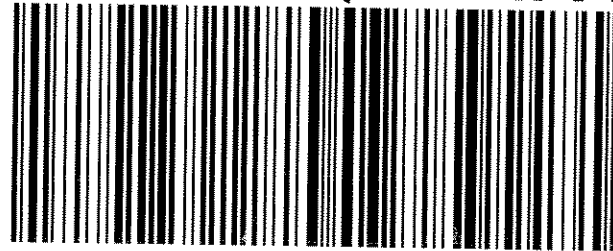
FORM  
0201

Deliver By:  
23JAN07

**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.

SCANNED

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



Ship Date: 22JAN07  
ActWgt: 21 LB  
System#: 2274147/INET2600  
Account#: S \*\*\*\*\*

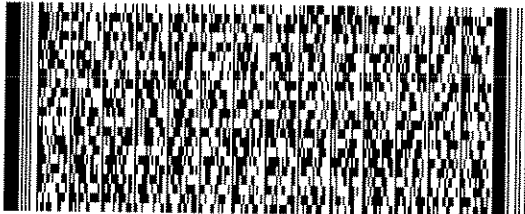
Delivery Address Bar Code



Ref # MSO #142420  
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# **7990 7318 2849**

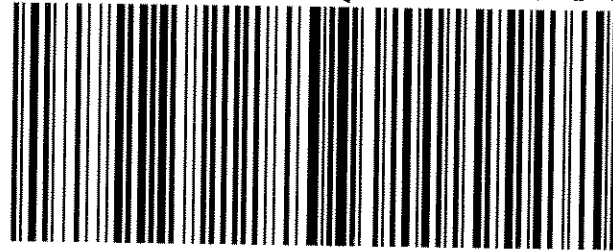
FORM  
0201

Deliver By:  
23JAN07

**BUR A2**

**91016 -CA-US**

**QZ WHPA**



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SCANNED



**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#: 194066  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **01/23/07**. 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
2701230468	EFFLUENT	@R226EDD @R228EDD CR FE NO3 P TSS	Water @RADCWB N-INOR PH	22-jan-2007 06:30:00 CLO3 CLO4 NH3 NH3-DIST T NO2-N TKN
2701230470	INFLUENT	CLO3 CLO4 NH3-DIST NO2-N T-P TKN	Water COLOR NO3 NO3RFA	22-jan-2007 07:00:00 CR 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)



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

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Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LA3S (1 800 566 5227)

---

Report  
Comments  
#194066

**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

(QC Ref#: 2701230470)

Test: Kjeldahl Nitrogen (ML/EPA 351.2)

M2- Matrix spike recovery was low, the method control sample recovery was acceptable.



**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  
Hits Report  
#194066

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

Samples Received  
23-jan-2007 18:36:28

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2701230468</b>	<b>EFFLUENT</b>				
02/13/07		Radium 226	<0.715	3	pCi/l	0.71
02/13/07		Radium 226, Minimal Detectable	0.715		pCi/l	
02/13/07		Radium 226, Two Sigma Error	0.319		pCi/l	
02/08/07		Radium 228	<0.905	5	pCi/l	0.91
02/08/07		Radium 228, Minimum Detectable	0.905		pCi/l	
02/08/07		Radium 228, Two Sigma Error	0.411		pCi/l	
01/26/07		Alpha, Gross	12	15	pCi/l	7.9
01/26/07		Alpha, Min Detectable Activity	7.94		pCi/l	
01/26/07		Alpha, Two Sigma Error	8.1		pCi/l	
01/25/07		Ammonia Nitrogen	0.152		mg/l	0.050
01/23/07		Apparent Color	5	15	ACU	3.0
01/27/07		Iron, Total, ICAP	0.33	0.3	mg/l	0.040
02/01/07		Kjeldahl Nitrogen	1.5		mg/l	0.20
01/26/07		Metals digestion performed.	Y		Yes/No	
01/24/07		PH (H3=past HT, not compliant)	7.5	6.5-8.5	Units	0.0010
01/26/07		Total Suspended Solids (TSS)	13		mg/l	10
01/29/07		Total phosphorus-P	0.015		mg/l	0.010
	<b>2701230470</b>	<b>INFLUENT</b>				
01/25/07		Ammonia Nitrogen	1.42		mg/l	0.050
01/23/07		Apparent Color	10	15	ACU	3.0
01/28/07		Chlorate by IC	474000		ug/l	50000
02/01/07		Kjeldahl Nitrogen	0.49		mg/l	0.20
01/27/07		Nitrate + Nitrite as N by RFA	18	10	mg/l	2.5
01/23/07		Nitrate as Nitrogen by IC	17	10	mg/l	0.62
01/26/07		Perchlorate	202000		ug/l	20000
01/26/07		Total Inorganic Nitrogen-Calc	18		mg/l	10
01/29/07		Total phosphorus-P	0.12		mg/l	0.010

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Data Report  
#194066

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

Samples Received  
01/23/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>EFFLUENT (2701230468)      Sampled on 01/22/07 06:30</b>								
	01/28/07 00:00	350216	( ML/EPA 300.1 )	Chlorate by IC	ND	ug/l	50	5
	01/26/07 00:00	349990	( EPA 314 )	Perchlorate	ND	ug/l	10	5
	01/23/07 00:00	349346	( ML/S2120B )	Apparent Color	5	ACU	3.0	1
	01/27/07 03:26	350093	( ML/EPA 200.7 )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	01/26/07 10:51		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	01/27/07 03:26	350100	( ML/EPA 200.7 )	Iron, Total, ICAP	0.33	mg/l	0.040	2
	01/26/07 08:30	349748	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	ND	mg/l	10	50
	01/25/07 00:00	349728	( ML/EPA 350.1 )	Ammonia Nitrogen	0.152	mg/l	0.050	1
	01/23/07 19:20	349428	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	01/23/07 19:20	349430	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	ND	mg/l	0.62	50
	01/24/07 00:00	349622	( 4500HB/ E 150 )	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
	01/29/07 14:53	350230	( S4500PE/ 365.1 )	Total phosphorus-P	0.015	mg/l	0.010	1
	02/01/07 15:46	350842	( ML/EPA 351.2 )	Kjeldahl Nitrogen	1.5	mg/l	0.20	1
	01/26/07 16:29	350068	( ML/EPA 160.2 )	Total Suspended Solids (TSS)	13	mg/l	10	1
<b>Gross Alpha Radiation</b>								
	01/26/07 00:00	350848	( ML/EPA 900.0 )	Alpha, Gross	12	pCi/l	7.9	1
	01/26/07 00:00	350848	( ML/EPA 900.0 )	Alpha, Two Sigma Error	8.1	pCi/l	0	1
	01/26/07 00:00	350848	( ML/EPA 900.0 )	Alpha, Min Detectable Activity	7.94	pCi/l	0	1
<b>Radium 226 (Sub)</b>								
	02/13/07 00:00		( EPA 903.1 )	Radium 226	<0.715	pCi/l	0.71	1
	02/13/07 00:00		( EPA 903.1 )	Radium 226, Two Sigma Error	0.319	pCi/l	0	1
	02/13/07 00:00		( EPA 903.1 )	Radium 226, Minimal Detectable	0.715	pCi/l	0	1
<b>Radium 228 (Sub)</b>								
	02/08/07 00:00		( EPA 904.0 )	Radium 228	<0.905	pCi/l	0.91	1
	02/08/07 00:00		( EPA 904.0 )	Radium 228, Two Sigma Error	0.411	pCi/l	0	1
	02/08/07 00:00		( EPA 904.0 )	Radium 228, Minimum Detectable	0.905	pCi/l	0	1



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Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>INFLUENT (2701230470)</b>				<b>Sampled on 01/22/07 07:00</b>				
	01/28/07 00:00	350216	( ML/EPA 300.1 )	Chlorate by IC	474000	ug/l	50000	5000
	01/26/07 00:00	349990	( EPA 314 )	Perchlorate	202000	ug/l	20000	5000
	01/23/07 00:00	349346	( ML/S2120B )	Apparent Color	10	ACU	3.0	1
	01/26/07 00:49	349955	( ML/EPA 200.7 )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	01/26/07 08:30	349748	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	18	mg/l	10	50
	01/25/07 00:00	349728	( ML/EPA 350.1 )	Ammonia Nitrogen	1.42	mg/l	0.050	1
	01/23/07 19:07	349428	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	01/23/07 19:07	349430	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	17	mg/l	0.62	50
	01/27/07 14:50	350251	( ML/EPA 353.2 )	Nitrate + Nitrite as N by RFA	18	mg/l	2.5	25
	01/29/07 14:53	350230	( S4500PE/ 365.1)	Total phosphorus-P	0.12	mg/l	0.010	1
	02/01/07 15:46	350842	( ML/EPA 351.2 )	Kjeldahl Nitrogen	0.49 (M2)	mg/l	0.20	1



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QC Ref #349346 - Apparent Color		Analysis Date: 01/23/2007
2701230468	EFFLUENT	Analyzed by: sar
2701230470	INFLUENT	Analyzed by: sar
QC Ref #349428 - Nitrite, Nitrogen by IC		Analysis Date: 01/23/2007
2701230468	EFFLUENT	Analyzed by: jkz
2701230470	INFLUENT	Analyzed by: jkz
QC Ref #349430 - Nitrate as Nitrogen by IC		Analysis Date: 01/23/2007
2701230468	EFFLUENT	Analyzed by: jkz
2701230470	INFLUENT	Analyzed by: jkz
QC Ref #349622 - PH (H3=past HT, not compliant)		Analysis Date: 01/24/2007
2701230468	EFFLUENT	Analyzed by: jxl
QC Ref #349728 - Ammonia Nitrogen		Analysis Date: 01/25/2007
2701230468	EFFLUENT	Analyzed by: dav
2701230470	INFLUENT	Analyzed by: dav
QC Ref #349748 - Total Inorganic Nitrogen-Calc		Analysis Date: 01/26/2007
2701230468	EFFLUENT	Analyzed by: dwr
2701230470	INFLUENT	Analyzed by: dwr
QC Ref #349955 - Chromium, Total, ICAP		Analysis Date: 01/26/2007
2701230470	INFLUENT	Analyzed by: wbh



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Tronox LLC - Henderson  
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QC Ref #349990	- Perchlorate		Analysis Date: 01/26/2007
2701230468	EFFLUENT	Analyzed by: raja	
2701230470	INFLUENT	Analyzed by: raja	
QC Ref #350068	- Total Suspended Solids (TSS)		Analysis Date: 01/26/2007
2701230468	EFFLUENT	Analyzed by: anh	
QC Ref #350093	- Chromium, Total, ICAP		Analysis Date: 01/27/2007
2701230468	EFFLUENT	Analyzed by: wbh	
QC Ref #350100	- Iron, Total, ICAP		Analysis Date: 01/27/2007
2701230468	EFFLUENT	Analyzed by: wbh	
QC Ref #350216	- Chlorate by IC		Analysis Date: 01/28/2007
2701230468	EFFLUENT	Analyzed by: raja	
2701230470	INFLUENT	Analyzed by: raja	
QC Ref #350230	- Total phosphorus-P		Analysis Date: 01/29/2007
2701230468	EFFLUENT	Analyzed by: bxr	
2701230470	INFLUENT	Analyzed by: bxr	
QC Ref #350251	- Nitrate + Nitrite as N by RFA		Analysis Date: 01/27/2007
2701230470	INFLUENT	Analyzed by: maria	



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QC Ref #350842 - Kjeldahl Nitrogen

Analysis Date: 02/01/2007

2701230468                      EFFLUENT  
2701230470                      INFLUENT

Analyzed by: bxr  
Analyzed by: bxr

QC Ref #350848 - Gross Alpha Radiation

Analysis Date: 01/26/2007

2701230468                      EFFLUENT

Analyzed by: ajc





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QC Ref #349346

Apparent Color

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

QC Ref #349428

Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01230024	MGL		( 0-0 )	
LCS1	Nitrite, Nitrogen by IC	1.0	1.01	MGL	101.0	( 90-110 )	
LCS2	Nitrite, Nitrogen by IC	1.0	1.01	MGL	101.0	( 90-110 )	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrite, Nitrogen by IC	0.500	0.528	MGL	105.6	( 90-110 )	
MSD	Nitrite, Nitrogen by IC	0.500	0.516	MGL	103.2	( 90-110 )	
RPD_LCS	Nitrite, Nitrogen by IC	101.000	101.000	MGL	0.0	( 0-20 )	
RPD_MS	Nitrite, Nitrogen by IC	105.600	103.200	MGL	2.3	( 0-20 )	

QC Ref #349430

Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01230024	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.52	MGL	100.8	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.52	MGL	100.8	( 90-110 )	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrate as Nitrogen by IC	1.25	1.34	MGL	107.2	( 90-110 )	
MSD	Nitrate as Nitrogen by IC	1.25	1.18	MGL	94.4	( 90-110 )	
RPD_LCS	Nitrate as Nitrogen by IC	100.800	100.800	MGL	0.0	( 0-20 )	
RPD_MS	Nitrate as Nitrogen by IC	107.200	94.400	MGL	12.7	( 0-20 )	

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QC Ref #349622 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01230424	UNIT		( 0-0 )	
DUP	PH (H3=past HT, not compliant)	8.10	8.07	UNIT		( 0-20 )	0.4

QC Ref #349728 Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01230117	MGL		( 0-0 )	
LCS1	Ammonia Nitrogen	1.00	1.05	MGL	105.0	( 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	0.953	MGL	95.3	( 90-110 )	
MSD	Ammonia Nitrogen	1.00	0.933	MGL	93.3	( 90-110 )	
RPD_LCS	Ammonia Nitrogen	105.000	104.000	MGL	1.0	( 0-20 )	
RPD_MS	Ammonia Nitrogen	95.300	93.300	MGL	2.1	( 0-20 )	

QC Ref #349955 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0105	MGL	105.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	1.04	MGL	104.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	1.06	MGL	106.0	( 70-130 )	

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## QC Ref #349990

## Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01230114	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.3	UGL	97.2	( 85-115 )	
LCS2	Perchlorate	25.0	23.3	UGL	93.2	( 85-115 )	
LCS3	Perchlorate	4	4.45	UGL	111.2	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.9	UGL	91.6	( 70-130 )	
MSD	Perchlorate	25.0	22.7	UGL	90.8	( 70-130 )	
RPD_LCS	Perchlorate	97.200	93.200	UGL	4.2	( 0-20 )	
RPD_MS	Perchlorate	91.600	90.800	UGL	0.9	( 0-20 )	

## QC Ref #350068

## Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01170056	MGL		( 0-0 )	
LCS1	Total Suspended Solids (TSS)	175	166	MGL	94.9	( 80-120 )	
LCS2	Total Suspended Solids (TSS)	175	164	MGL	93.7	( 80-120 )	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			

## QC Ref #350093

## Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.968	MGL	96.8	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.944	MGL	94.4	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0106	MGL	106.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.999	MGL	99.9	( 70-130 )	

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## QC Ref #350100 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.82	MGL	96.4	( 85-115 )	
LCS2	Iron, Total, ICAP	5.0	4.75	MGL	95.0	( 85-115 )	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0254	MGL	127.0	( 50-150 )	
MS	Iron, Total, ICAP	5.0	4.97	MGL	99.4	( 70-130 )	
MSD	Iron, Total, ICAP	5.0	4.99	MGL	99.8	( 70-130 )	
RPD_MS	Iron, Total, ICAP	99.400	99.800	MGL	0.4	( 0-20 )	

## QC Ref #350216 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01230422	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	217	UGL	108.5	( 75-125 )	
LCS2	Chlorate by IC	200	219	UGL	109.5	( 75-125 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	12.0	UGL	120.0	( 50-150 )	
MS	Chlorate by IC	100	103	UGL	103.0	( 75-125 )	
MSD	Chlorate by IC	100	103	UGL	103.0	( 75-125 )	
RPD_LCS	Chlorate by IC	108.500	109.500	UGL	0.9	( 0-20 )	
RPD_MS	Chlorate by IC	103.000	103.000	UGL	0.0	( 0-20 )	

## QC Ref #350230 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01190032	MGL		( 0-0 )	
LCS1	Total phosphorus-P	0.4	0.423	MGL	105.7	( 90-110 )	
LCS2	Total phosphorus-P	0.4	0.409	MGL	102.2	( 90-110 )	
MBLK	Total phosphorus-P	ND	<0.020	MGL			
MS	Total phosphorus-P	0.4	0.397	MGL	99.2	( 90-110 )	

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MSD	Total phosphorus-P	0.4	0.394	MGL	98.5	( 90-110 )
RPD_LCS	Total phosphorus-P	105.750	102.250	MGL	3.4	( 0-10 )
RPD_MS	Total phosphorus-P	99.250	98.500	MGL	0.8	( 0-20 )

### QC Ref #350251 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01240045	MGL		( 0-0 )	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.97	MGL	97.0	( 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 )	
MS	Nitrate + Nitrite as N by RFA	1.0	1.03	MGL		( 90-110 )	
MSD	Nitrate + Nitrite as N by RFA	1.0	0.97	MGL	97.0	( 90-110 )	

### QC Ref #350842 Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01230468	MGL		( 0-0 )	
LCS1	Kjeldahl Nitrogen	4	3.97	MGL	99.2	( 90-110 )	
LCS2	Kjeldahl Nitrogen	4	3.95	MGL	98.8	( 90-110 )	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	4.07	MGL	101.8	( 90-110 )	
MSD	Kjeldahl Nitrogen	4	4.19	MGL	104.8	( 90-110 )	
RPD_LCS	Kjeldahl Nitrogen	99.250	98.750	MGL	0.5	( 0-20 )	
RPD_MS	Kjeldahl Nitrogen	101.750	104.750	MGL	2.9	( 0-20 )	

### QC Ref #350848 Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01220059	PCIL		( 0-0 )	
DUP	Alpha, Gross	4.10	3.77	PCIL		( 0-20 )	8.4
LCS1	Alpha, Gross	16.6	15.3	PCIL	92.2	( 80-120 )	

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LCS2	Alpha, Gross	16.6	16.2	PCIL	97.6	( 80-120 )
MBLK	Alpha, Gross	ND	<3.0	PCIL		
MS	Alpha, Gross	33.2	34.5	PCIL	103.9	( 70-130 )
RPD_LCS	Alpha, Gross	92.169	97.590	PCIL	5.7	( 0-20 )
DUP	Beta, Gross	ND	ND	PCIL		( 0-20 )
LCS1	Beta, Gross	15.7	15.9	PCIL	101.3	( 80-120 )
LCS2	Beta, Gross	15.7	15.6	PCIL	99.4	( 80-120 )
MBLK	Beta, Gross	ND	<3.0	PCIL		
MS	Beta, Gross	31.4	31.7	PCIL	101.0	( 70-130 )
RPD_LCS	Beta, Gross	101.274	99.363	PCIL	1.9	( 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.



Kerrmcgee-mp

**Pace Analytical Services, Inc.**

Exit 54, I-70

Madison, PA 15663

Phone: 724.722.5214

Fax: 724.722.5208

[www.pacelabs.com](http://www.pacelabs.com)

February 13, 2007

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

Drinking Water Characterization; Purchase Order No. 99-26088  
194066 NV DW, Ra-226/228; NV Cert Expires 01/31/07; MWH Laboratories  
Pace Project No. 07-0487

Dear Ms. Montanez:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc. The sample was received on January 25, 2007 and logged in for analysis on January 26, 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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc.

PACE ANALYTICAL SERVICES, INC.  
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-0487  
CLIENT: Purchase Order Number: 99-26088

B: SAMPLE IDENTIFICATIONS:

PACE: 0701-1573  
CLIENT: 2701230468

C: SHIPPING/RECEIVING COMMENTS:

Final Report 2/13/07.

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. 07-0487  
Drinking Water Characterization; 194066 NV DW, Ra-226/228  
Charge Order No. 99-26088; NV Cert Expires 01/31/07

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act	Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	02/13/07	0701-1573	0.000 ± 0.319 (0.715)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	02/08/07	2701230468 (1/22/07)	0.308 ± 0.411 (0.905)

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

0000004

Table 1  
(Continued)

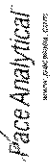
Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act ± Unc (MDC)	Act ± Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	02/13/07	0.060 ± 0.311	(0.646)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	02/08/07	0.298 ± 0.404	(0.891)

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

0000005

PACE Analytical Services, Inc.  
QC Sheet Drinking Water

# Quality Control Sample Performance Assessment



Test: Ra-226  
Analyst: CMC  
Date: 2/5/2007  
Worklist: 13926  
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

**Sample Matrix Spike Control Assessment**

Sample Collection Date:	1/22/2007
Sample I.D.:	0701-1514
Sample MS I.D.:	0701-1514MS
Sample MSD I.D.:	06-005
Spike I.D.:	57-287
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	0.20
Spike Volume Used in MS (mL):	0.500
Spike Volume Used in MSD (mL):	22.915
MS Aliquot (L, g, F):	0.500
MS Target Conc. (pCi/L, g, F):	22.915
MSD Aliquot (L, g, F):	0.550
MSD Target Conc. (pCi/L, g, F):	1.080
Spike uncertainty (calculated):	0.519
Sample Result:	23.384
Sample Result Counting Uncertainty (pCi/L, g, F):	2.329
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	-0.489
Sample Matrix Spike Duplicate Result:	97.33%
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	N/A
MS Numerical Performance Indicator:	Pass
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.:	
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:	

**Method Blank Assessment**

MB Sample ID:	MB13926
MB concentration:	0.060
M/B Counting Uncertainty:	0.311
MB MDC:	0.646
MB Numerical Performance Indicator:	2.38
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	Pass

**Laboratory Control Sample Assessment**

	LCS D (Y or N)?	Y
Count Date:	2/13/2007	LCS D13926
Spike I.D.:	06-005	06-005
Spike Concentration (pCi/mL):	57.286	57.286
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):	13.153	12.111
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.781	1.720
Numerical Performance Indicator:	1.84	0.74
Percent Recovery:	114.81%	105.70%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

**Duplicate Sample Assessment**

Sample I.D.:	LCS13926
Duplicate Sample I.D.:	LCS D13926
Sample Result (pCi/L, g, F):	13.153
Sample Duplicate Result (pCi/L, g, F):	1.781
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	12.111
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.720
Are sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	0.825
Duplicate RPD:	6.26%
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:

# Quality Control Sample Performance Assessment



Test: Ra-228  
 Analyst: OLB  
 Date: 2/8/2007  
 Worklist: 13941  
 Matrix: DW

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

**Method Blank Assessment**

MB Sample ID: MB13941  
 MB concentration: 0.298  
 MB Counting Uncertainty: 0.404  
 MB MDC: 0.891  
 MB Numerical Performance Indicator: 1.45  
 MB Status vs Numerical Indicator: N/A  
 MB Status vs. MDC: Pass

**Laboratory Control Sample Assessment**

LCS (Y or N)?	Y
Count Date:	LCS13941 2/8/2007
Spike I.D.:	06-009
Spike Concentration (pCi/mL):	70.649
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.800
Target Conc. (pCi/L, g, F):	8.831
Uncertainty (Calculated):	0.274
Result (pCi/L, g, F):	7.912
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.781
Numerical Performance Indicator:	-2.18
Percent Recovery:	89.59%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass

**Duplicate Sample Assessment**

Sample I.D.:	LCS13941	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCS13941	
Sample Result Counting Uncertainty (pCi/L, g, F):	7.912	
Sample Duplicate Result (pCi/L, g, F):	0.781	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	7.387	
Are sample and/or duplicate results below MDC?	0.837	
Duplicate Numerical Performance Indicator:	NO	
Duplicate RPD:	0.898	
Duplicate Status vs Numerical Indicator:	6.86%	
Duplicate Status vs RPD:	N/A	
Duplicate Status vs Recovery:	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: 1/24/2007  
 Sample I.D.: 0701-1551  
 Sample MS I.D.: 0701-1551MS  
 Sample MSD I.D.:  
 Spike I.D.: 06-009  
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 71.014  
 Spike Volume Used in MS (mL): 0.20  
 Spike Volume Used in MSD (mL):  
 MS Aliquot (L, g, F): 0.800  
 MS Target Conc. (pCi/L, g, F): 17.754  
 MSD Aliquot (L, g, F):  
 MSD Target Conc. (pCi/L, g, F): 0.550  
 Spike uncertainty (calculated): 1.501  
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.461  
 Sample Matrix Spike Result: 19.509  
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 1.241  
 Sample Matrix Spike Duplicate Result:  
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):  
 MS Numerical Performance Indicator: 0.347  
 MSD Numerical Performance Indicator:  
 MS Percent Recovery: 101.43%  
 MSD Percent Recovery:  
 MS Status vs Numerical Indicator: N/A  
 MSD Status vs Numerical Indicator:  
 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:

0000006



MWH Laboratories  
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 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#  
 194066 02/15/07 99-26088



ncl

Client Sample ID for reference only

Date 01/24/07 Submittal Form & Purchase Order 99-26088

\*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!  
 Report & Invoice must have the MWH Project Number 194066 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

07-0487

Reports: Elena Montanez Sub-contracting Administrator  
 EMAIL TO: mwlabsubs-subcontractreports@mwglobal.com  
 MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monterey, 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

	Analysis Requested	Sample Date & Time	Matrix	Container
@R226ED	Radioactivity, Radium 226 Sub-contracted	01/22/07 06:30	dw	1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBUSTANCE DTC
@R228ED	Radioactivity, Radium 228 Sub-contracted			2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBUSTANCE DTC
	Method <i>Blank</i>			

Relinquished by: *[Signature]* Date 01/24/07 Time *11:10* Sample Control *1110*  
 MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS  
 Page 1  
 An Acknowledgement of Receipt is requested to attn: Julie Lee