



# MWH Laboratories

A Division of MWH Americas, Inc.

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

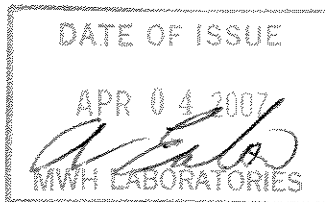
## Laboratory Report

for

Tronox LLC - Henderson  
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton  
Project Manager



Report#: 198145  
Project: CLO4  
PO#: Susan Crowle

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Comments, QC Report, QC Summary, Data Report, Hits Report, totaling 13 page[s].



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

198145

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

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: FC

SAMPLE TEMP, RECEIPT AT LAB: 4C

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															
KERRMCGEE-MP Michele Brown		Weekly Permit Compliance Samples - SO #6532 & #6534		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)															
Sampler Signature: <u>Michele Brown</u>		Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009																	
Susan Crowley (702) 651-2234																			
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CL04	RADCWB (2 Bts)	NH3, NH3-DIST	PH, NO2-N, NO3-N, NH4-N, TSS	CL03	FE CR	TP, TKN	Color	RA228EDD/RA226EDD (2 Bts)	CR	NO2-N, NO3-N, NH4-N	SAMPLER COMMENTS	
6:30 AM	3/7/2007		EFFLUENT	RSW	X		X	X	X	X	X	X	X	X	X				Revised SO #6534
7:00	3/7/2007		INFLUENT	RSW	X		X	X	X	X	X	X	X	X	X				Revised SO #6532
																			Lot # 09/08/07

\* 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  
 RSW = Raw Surface Water  
 CWW = Chlorinated Waste Water  
 WW = Other Waste Water  
 SW = Storm Water

RELINQUISHED BY: <u>Michele Brown</u>	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:		Michele Brown	Veolia Water NA for Tronox LLC - Henderson Plant	3/7/2007	12:00 PM
RELINQUISHED BY:					
RECEIVED BY: <u>Jay Jay</u>		Fidel Chavez	Mcw H	3-8	pm



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

**Bottle Order for 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

**SO# 34686 6534 RS**

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

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

Send Report to

Tronox LLC  
Attn: Accounts Payable  
P.O. Box 268859  
Oklahoma City, OK 73126-8859

Billing Address

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

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

**Quote#**

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

# 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 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 RAZ26/228 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	RAZ28EDD/RAZ26EDD	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

ActiveCode Status Date Shipped Carrier Qty of Coolers Tracking Number Prepared By

Prepared By

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#: 198145  
 Project#: CLO4  
 Proj Mgr: Andrew Eaton  
 Phone: (626) 386-1125

The following samples were received from you on **03/08/07**. 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
2703080336	EFFLUENT	@R226EDD @R228EDD @RADCWB CLO3 CLO4 COLOR CR FE N-INOR NH3 NO3 P PH T T-P TKN TSS	Water	07-mar-2007 06:30:00
2703080337	INFLUENT	CLO3 CLO4 COLOR CR NH3-DIST NO2-N NO3 NO3RFA P T-P TKN	Water	07-mar-2007 07:00:00

Test Acronym Description

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



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**Report  
Comments  
#198145**

### **Client Specific Comments**

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

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

### **Group Comments**

(TKN) CCBs and Method Blank are greater than 1/2 MRL but less than MRL.

TKN on influent is biased low. TKN<NH3.

Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA. Nevada Cert PA91-2004-77



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Laboratory  
Hits Report  
#198145

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

Samples Received  
08-mar-2007 15:31:43

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	<b>2703080336</b>	<b>EFFLUENT</b>				
03/26/07		Radium 226	<0.624	3	pCi/l	0.62
03/26/07		Radium 226, Minimal Detectable	0.624		pCi/l	
03/26/07		Radium 226, Two Sigma Error	0.407		pCi/l	
03/28/07		Radium 228	0.746	5	pCi/l	0.50
03/28/07		Radium 228, Minimum Detectable	0.503		pCi/l	
03/28/07		Radium 228, Two Sigma Error	0.295		pCi/l	
03/15/07		Alpha, Min Detectable Activity	9.54		pCi/l	
03/15/07		Alpha, Two Sigma Error	9.1		pCi/l	
03/14/07		Ammonia Nitrogen	1.7		mg/l	0.050
03/08/07		Apparent Color	10	15	ACU	3.0
03/14/07		Iron, Total, ICAP	0.23	0.3	mg/l	0.040
03/15/07		Kjeldahl Nitrogen	3.9		mg/l	0.20
03/13/07		Metals digestion performed.	Y		Yes/No	
03/08/07		PH (H3=past HT, not compliant)	6.5	6.5-8.5	Units	0.0010
03/19/07		Total Inorganic Nitrogen-Calc	1.7		mg/l	0.20
03/13/07		Total phosphorus-P	0.50		mg/l	0.020
	<b>2703080337</b>	<b>INFLUENT</b>				
03/14/07		Ammonia Nitrogen	2.3		mg/l	0.050
03/08/07		Apparent Color	10	15	ACU	3.0
03/12/07		Chlorate by IC	476000		ug/l	50000
03/09/07		Chromium, Total, ICAP	0.022		mg/l	0.020
03/09/07		Nitrate + Nitrite as N by RFA	16	10	mg/l	2.5
03/08/07		Nitrate as Nitrogen by IC	17	10	mg/l	0.62
03/10/07		Perchlorate	212000		ug/l	20000
03/19/07		Total Inorganic Nitrogen-Calc	19		mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory  
Data Report  
#198145

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

Samples Received  
03/08/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>EFFLUENT (2703080336)                      Sampled on 03/07/07 06:30</b>								
	03/12/07 00:00	357389	( ML/EPA 300.0 )	Chlorate by IC	ND	ug/l	50	5
	03/10/07 00:00	356509	( EPA 314 )	Perchlorate	ND	ug/l	10	5
	03/08/07 00:00	356401	( ML/S2120B )	Apparent Color	10	ACU	3.0	1
	03/14/07 02:05	356992	( ML/EPA 200.7 )	Chromium, Total, ICAP	ND	mg/l	0.020	2
	03/13/07 11:29		( EPA 200 Prep )	Metals digestion performed.	Y	Yes/No	0	1
	03/14/07 02:05	356996	( ML/EPA 200.7 )	Iron, Total, ICAP	0.23	mg/l	0.040	2
	03/19/07 09:36	357740	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	1.7	mg/l	0.20	50
	03/14/07 16:08	357606	( ML/EPA 350.1 )	Ammonia Nitrogen	1.7	mg/l	0.050	1
	03/08/07 13:19	356408	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
	03/08/07 13:19	356410	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	ND	mg/l	0.62	50
	03/08/07 00:00	356372	( 4500HB/ E 150 )	PH (H3=past HT, not compliant)	6.5	Units	0.0010	1
	03/13/07 00:00	356901	( S4500PE/ 365.1 )	Total phosphorus-P	0.50	mg/l	0.020	1
	03/15/07 00:00	357654	( ML/EPA 351.2 )	Kjeldahl Nitrogen	3.9	mg/l	0.20	1
	03/09/07 14:10	356504	( ML/EPA 160.2 )	Total Suspended Solids (TSS)	ND	mg/l	10	1
<b>Gross Alpha Radiation</b>								
	03/15/07 00:00	358022	( ML/EPA 900.0 )	Alpha, Gross	ND	pCi/l	9.5	1
	03/15/07 00:00	358022	( ML/EPA 900.0 )	Gross Alpha + adjusted error	NA	pCi/l	0	1
	03/15/07 00:00	358022	( ML/EPA 900.0 )	Alpha, Two Sigma Error	9.1	pCi/l	0	1
	03/15/07 00:00	358022	( ML/EPA 900.0 )	Alpha, Min Detectable Activity	9.54	pCi/l	0	1
<b>Radium 226 (Sub)</b>								
	03/26/07 00:00		( EPA 903.1 )	Radium 226	<0.624	pCi/l	0.62	1
	03/26/07 00:00		( EPA 903.1 )	Radium 226, Two Sigma Error	0.407	pCi/l	0	1
	03/26/07 00:00		( EPA 903.1 )	Radium 226, Minimal Detectable	0.624	pCi/l	0	1
<b>Radium 228 (Sub)</b>								
	03/28/07 00:00		( EPA 904.0 )	Radium 228	0.746	pCi/l	0.50	1
	03/28/07 00:00		( EPA 904.0 )	Radium 228, Two Sigma Error	0.295	pCi/l	0	1
	03/28/07 00:00		( EPA 904.0 )	Radium 228, Minimum Detectable	0.503	pCi/l	0	1



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Laboratory  
Data Report  
#198145

Tronox LLC - Henderson  
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>INFLUENT (2703080337)</b>					<b>Sampled on 03/07/07 07:00</b>			
	03/12/07 00:00	357389	( ML/EPA 300.0 )	Chlorate by IC	476000	ug/l	50000	5000
	03/10/07 00:00	356509	( EPA 314 )	Perchlorate	212000	ug/l	20000	5000
	03/08/07 00:00	356401	( ML/S2120B )	Apparent Color	10	ACU	3.0	1
	03/09/07 23:05	356561	( ML/EPA 200.7 )	Chromium, Total, ICAP	0.022	mg/l	0.020	2
	03/19/07 09:36	357740	( ML/EPA 300.0 )	Total Inorganic Nitrogen-Calc	19	mg/l	10	50
	03/14/07 16:08	357606	( ML/EPA 350.1 )	Ammonia Nitrogen	2.3	mg/l	0.050	1
	03/08/07 13:06	356408	( ML/EPA 300.0 )	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
	03/08/07 13:06	356410	( ML/EPA 300.0 )	Nitrate as Nitrogen by IC	17	mg/l	0.62	50
	03/09/07 12:13	356474	( ML/EPA 353.2 )	Nitrate + Nitrite as N by RFA	16	mg/l	2.5	25
	03/13/07 00:00	356901	( S4500PE/ 365.1 )	Total phosphorus-P	ND	mg/l	0.020	1
	03/15/07 00:00	357654	( ML/EPA 351.2 )	Kjeldahl Nitrogen	ND	mg/l	0.20	1





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Laboratory  
QC Summary  
#198145

Tronox LLC - Henderson

QC Ref #356372 - PH (H3=past HT, not compliant) Analysis Date: 03/08/2007

2703080336                      EFFLUENT                      Analyzed by: sar

QC Ref #356401 - Apparent Color                      Analysis Date: 03/08/2007

2703080336                      EFFLUENT                      Analyzed by: bxr  
2703080337                      INFLUENT                      Analyzed by: bxr

QC Ref #356408 - Nitrite, Nitrogen by IC                      Analysis Date: 03/08/2007

2703080336                      EFFLUENT                      Analyzed by: jkz  
2703080337                      INFLUENT                      Analyzed by: jkz

QC Ref #356410 - Nitrate as Nitrogen by IC                      Analysis Date: 03/08/2007

2703080336                      EFFLUENT                      Analyzed by: jkz  
2703080337                      INFLUENT                      Analyzed by: jkz

QC Ref #356474 - Nitrate + Nitrite as N by RFA Analysis Date: 03/09/2007

2703080337                      INFLUENT                      Analyzed by: maria

QC Ref #356504 - Total Suspended Solids (TSS)                      Analysis Date: 03/09/2007

2703080336                      EFFLUENT                      Analyzed by: anh

QC Ref #356509 - Perchlorate                      Analysis Date: 03/10/2007

2703080336                      EFFLUENT                      Analyzed by: raja  
2703080337                      INFLUENT                      Analyzed by: raja

QC Ref #356561 - Chromium, Total, ICAP                      Analysis Date: 03/09/2007

2703080337                      INFLUENT                      Analyzed by: wbh



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Laboratory  
QC Summary  
#198145

Tronox LLC - Henderson  
(continued)

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QC Ref #356901 - Total phosphorus-P		Analysis Date: 03/13/2007
2703080336	EFFLUENT	Analyzed by: njr
2703080337	INFLUENT	Analyzed by: njr
QC Ref #356992 - Chromium, Total, ICAP		Analysis Date: 03/14/2007
2703080336	EFFLUENT	Analyzed by: wbh
QC Ref #356996 - Iron, Total, ICAP		Analysis Date: 03/14/2007
2703080336	EFFLUENT	Analyzed by: wbh
QC Ref #357389 - Chlorate by IC		Analysis Date: 03/12/2007
2703080336	EFFLUENT	Analyzed by: raja
2703080337	INFLUENT	Analyzed by: raja
QC Ref #357606 - Ammonia Nitrogen		Analysis Date: 03/14/2007
2703080336	EFFLUENT	Analyzed by: nina
2703080337	INFLUENT	Analyzed by: nina
QC Ref #357654 - Kjeldahl Nitrogen		Analysis Date: 03/15/2007
2703080336	EFFLUENT	Analyzed by: njr
2703080337	INFLUENT	Analyzed by: njr
QC Ref #357740 - Total Inorganic Nitrogen-Calc		Analysis Date: 03/19/2007
2703080336	EFFLUENT	Analyzed by: dwr
2703080337	INFLUENT	Analyzed by: dwr



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Laboratory  
QC Summary  
#198145

Tronox LLC - Henderson  
(continued)

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QC Ref #358022 - Gross Alpha Radiation

2703080336

EFFLUENT

Analysis Date: 03/15/2007

Analyzed by: ajc



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Laboratory  
QC Report  
#198145

Tronox LLC - Henderson

QC Ref #356372 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03080370	UNIT		( 0-0 )	
DUP	PH (H3=past HT, not compliant)	8.3	8.3	UNIT		( 0-20 )	0.0

QC Ref #356401 Apparent Color

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

QC Ref #356408 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03080040	MGL		( 0-0 )	
LCS1	Nitrite, Nitrogen by IC	1.0	0.983	MGL	98.3	( 90-110 )	
LCS2	Nitrite, Nitrogen by IC	1.0	1.00	MGL	100.0	( 90-110 )	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0509	MGL	101.8	( 50-150 )	
MS	Nitrite, Nitrogen by IC	0.500	0.497	MGL	99.4	( 90-110 )	
MSD	Nitrite, Nitrogen by IC	0.500	0.496	MGL	99.2	( 90-110 )	
RPD_LCS	Nitrite, Nitrogen by IC	98.300	100.000	MGL	1.7	( 0-20 )	
RPD_MS	Nitrite, Nitrogen by IC	99.400	99.200	MGL	0.2	( 0-20 )	

QC Ref #356410 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03080040	MGL		( 0-0 )	
LCS1	Nitrate as Nitrogen by IC	2.5	2.40	MGL	96.0	( 90-110 )	
LCS2	Nitrate as Nitrogen by IC	2.5	2.44	MGL	97.6	( 90-110 )	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0473	MGL	94.6	( 50-150 )	
MS	Nitrate as Nitrogen by IC	1.25	1.16	MGL	92.8	( 90-110 )	

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

Tronox LLC - Henderson  
 (continued)

MSD	Nitrate as Nitrogen by IC	1.25	1.16	MGL	92.8	( 90-110 )
RPD_LCS	Nitrate as Nitrogen by IC	96.000	97.600	MGL	1.7	( 0-20 )
RPD_MS	Nitrate as Nitrogen by IC	92.800	92.800	MGL	0.0	( 0-20 )

**QC Ref #356474 Nitrate + Nitrite as N by RFA**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03060327	MGL		( 0-0 )	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.96	MGL	96.0	( 90-110 )	
LCS2	Nitrate + Nitrite as N by RFA	1.0	1.03	MGL	103.0	( 90-110 )	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.10	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.050	0.06	MGL	120.0	( 50-150 )	
MS	Nitrate + Nitrite as N by RFA	1.0	1.16	MGL	<u>116.0</u>	( 90-110 )	
MSD	Nitrate + Nitrite as N by RFA	1.0	0.96	MGL	96.0	( 90-110 )	

**QC Ref #356504 Total Suspended Solids (TSS)**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03080336	MGL		( 0-0 )	
LCS1	Total Suspended Solids (TSS)	175	166	MGL	94.9	( 80-120 )	
LCS2	Total Suspended Solids (TSS)	175	156	MGL	89.1	( 80-120 )	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			

**QC Ref #356509 Perchlorate**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03080321	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.6	UGL	98.4	( 85-115 )	
LCS2	Perchlorate	25.0	23.8	UGL	95.2	( 85-115 )	
LCS3	Perchlorate	4	3.42	UGL	85.5	( 75-125 )	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.4	UGL	93.6	( 70-130 )	
MSD	Perchlorate	25.0	22.2	UGL	88.8	( 70-130 )	

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



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(continued)

RPD_LCS	Perchlorate	98.400	95.200	UGL	3.3	( 0-20 )
RPD_MS	Perchlorate	93.600	88.800	UGL	5.3	( 0-20 )

**QC Ref #356561 Chromium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03080153	MGL		( 0-0 )	
LCS1	Chromium, Total, ICAP	1.00	0.890	MGL	89.0	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.984	MGL	98.4	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0109	MGL	109.0	( 50-150 )	
MS	Chromium, Total, ICAP	1.00	0.992	MGL	99.2	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.999	MGL	99.9	( 70-130 )	

**QC Ref #356901 Total phosphorus-P**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03060300	MGL		( 0-0 )	
LCS1	Total phosphorus-P	0.4	0.430	MGL	107.5	( 90-110 )	
LCS2	Total phosphorus-P	0.4	0.434	MGL	108.5	( 90-110 )	
MBLK	Total phosphorus-P	ND	<0.020	MGL			
MS	Total phosphorus-P	0.4	0.437	MGL	109.2	( 90-110 )	
MSD	Total phosphorus-P	0.4	0.438	MGL	109.5	( 90-110 )	
RPD_LCS	Total phosphorus-P	107.500	108.500	MGL	0.9	( 0-10 )	
RPD_MS	Total phosphorus-P	109.250	109.500	MGL	0.2	( 0-20 )	

**QC Ref #356992 Chromium, Total, ICAP**

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.881	MGL	88.1	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.887	MGL	88.7	( 85-115 )	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.010	MGL	100.0	( 50-150 )	

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MS	Chromium, Total, ICAP	1.00	0.916	MGL	91.6	( 70-130 )
MSD	Chromium, Total, ICAP	1.00	0.919	MGL	91.9	( 70-130 )

QC Ref #356996      Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.38	MGL	87.6	( 85-115 )	
LCS2	Iron, Total, ICAP	5.0	4.49	MGL	89.8	( 85-115 )	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0202	MGL	101.0	( 50-150 )	
MS	Iron, Total, ICAP	5.0	4.70	MGL	94.0	( 70-130 )	
MS2	Iron, Total, ICAP	5.0	4.69	MGL	93.8	( 70-130 )	
MSD	Iron, Total, ICAP	5.0	4.67	MGL	93.4	( 70-130 )	
MSD2	Iron, Total, ICAP	5.0	4.40	MGL	88.0	( 70-130 )	
RPD_MS	Iron, Total, ICAP	94.000	93.400	MGL	0.6	( 0-20 )	

QC Ref #357389      Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03080037	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	199	UGL	99.5	( 90-110 )	
LCS2	Chlorate by IC	200	204	UGL	102.0	( 90-110 )	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	9.98	UGL	99.8	( 50-150 )	
MS	Chlorate by IC	100	93.7	UGL	93.7	( 75-125 )	
MSD	Chlorate by IC	100	92.1	UGL	92.1	( 75-125 )	
RPD_LCS	Chlorate by IC	99.500	102.000	UGL	2.5	( 0-20 )	
RPD_MS	Chlorate by IC	93.700	92.100	UGL	1.7	( 0-20 )	

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QC Ref #357606

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03080048	MGL		( 0-0 )	
LCS1	Ammonia Nitrogen	1.00	0.980	MGL	98.0	( 90-110 )	
LCS2	Ammonia Nitrogen	1.00	0.981	MGL	98.1	( 90-110 )	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MS	Ammonia Nitrogen	1.00	0.965	MGL	96.5	( 90-110 )	
MSD	Ammonia Nitrogen	1.00	0.966	MGL	96.6	( 90-110 )	
RPD_LCS	Ammonia Nitrogen	98.000	98.100	MGL	0.1	( 0-20 )	
RPD_MS	Ammonia Nitrogen	96.500	96.600	MGL	0.1	( 0-20 )	

QC Ref #357654

Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03080214	MGL		( 0-0 )	
LCS1	Kjeldahl Nitrogen	4	4.32	MGL	108.0	( 90-110 )	
LCS2	Kjeldahl Nitrogen	4	4.01	MGL	100.2	( 90-110 )	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	3.86	MGL	96.5	( 90-110 )	
MSD	Kjeldahl Nitrogen	4	3.96	MGL	99.0	( 90-110 )	
RPD_LCS	Kjeldahl Nitrogen	108.000	100.250	MGL	7.4	( 0-20 )	
RPD_MS	Kjeldahl Nitrogen	96.500	99.000	MGL	2.6	( 0-20 )	

QC Ref #358022

Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03070157	PCIL		( 0-0 )	
DUP	Alpha, Gross	ND	ND	PCIL		( 0-20 )	
LCS1	Alpha, Gross	16.6	15.1	PCIL	91.0	( 80-120 )	
LCS2	Alpha, Gross	16.6	17.5	PCIL	105.4	( 80-120 )	
MBLK	Alpha, Gross	ND	<3.0	PCIL			

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Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates  
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MS	Alpha, Gross	33.2	40.3	PCIL	121.4	( 70-130 )
RPD_LCS	Alpha, Gross	90.964	105.422	PCIL	14.7	( 0-20 )
DUP	Beta, Gross	ND	ND	PCIL		( 0-20 )
LCS1	Beta, Gross	15.7	16.1	PCIL	102.5	( 80-120 )
LCS2	Beta, Gross	15.7	13.8	PCIL	87.9	( 80-120 )
MBLK	Beta, Gross	ND	<3.0	PCIL		
MS	Beta, Gross	31.4	32.0	PCIL	101.9	( 70-130 )
RPD_LCS	Beta, Gross	102.548	87.898	PCIL	15.4	( 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 Magee-MP

Pace Analytical Services, Inc.

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March 29, 2007

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

Drinking Water Characterization; Purchase Order No. 99-27019  
198145 NV DW, Ra-226/228; NV Cert Expires 03/31/07; MWH Laboratories  
Pace Project No. 07-1532

Dear Ms. Montanez:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc. The sample was received on March 14, 2007 and logged in for analysis on March 15, 2007.

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

Sincerely,

Richard M. Kinney  
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

## REPORT OF LABORATORY ANALYSIS

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PACE ANALYTICAL SERVICES, INC.  
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 07-1532

CLIENT: Purchase Order Number: 99-27019

B: SAMPLE IDENTIFICATIONS:

PACE: 0703-0855

CLIENT: 2703080336

C: SHIPPING/RECEIVING COMMENTS:

Final Report 3/29/07.

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. 07-1532  
Drinking Water Characterization; 198145 NV DW, Ra-226/228  
Charge Order No. 99-27019; NV Cert Expires 03/31/07

Page 1 of 2

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act	Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	03/26/07	0703-0855	0.339 ± 0.407
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	03/28/07	2703080336 (3/7/07)	(0.624) (0.503)

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

0000004

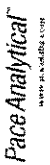
Table 1  
(Continued)

Page 2 of 2

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act + Unc (MDC)	Method Blank (3/14/07)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	03/26/07	0.436 ± 0.403	(0.535)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	03/28/07	0.986 ± 0.340	(0.553)

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: 3/21/2007  
Worklist: 14253  
Matrix: DW

**Method Blank Assessment**

MB Sample ID: MB14253  
MB concentration: 0.436  
MB Counting Uncertainty: 0.403  
MB MDC: 0.535  
MB Numerical Performance Indicator: 10.31  
MB Status vs Numerical Indicator: N/A  
MB Status vs. MDC: Pass

**Laboratory Control Sample Assessment**

Count Date:	LCS14253	Y
3/26/2007	06-005	06-005
Spike I.D.:	57-283	57-283
Spike Concentration (pCi/ml):	0.10	0.10
Volume Used (ml):	0.500	0.500
Aliquot Volume (l, g, F):	11.457	11.457
Target Conc. (pCi/L, g, F):	0.275	0.275
Uncertainty (Calculated):	11.407	11.581
Result (pCi/L, g, F):	1.834	1.856
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	-0.05	0.13
Numerical Performance Indicator:	99.96%	101.09%
Percent Recovery:	N/A	N/A
Status vs Numerical Indicator:	N/A	Pass
Status vs Recovery:	Pass	Pass

**Duplicate Sample Assessment**

Sample I.D.: LCS14253  
Duplicate Sample I.D.: LCS14253  
Sample Result (pCi/L, g, F): 1.834  
Sample Duplicate Result (pCi/L, g, F): 1.856  
Sample Duplicate Counting Uncertainty (pCi/L, g, F): NO  
Are sample and/or duplicate results below MDC? NO  
Duplicate Numerical Performance Indicator: -0.131  
Duplicate RPD: 1.52%  
Duplicate Status vs Numerical Indicator: N/A  
Duplicate Status vs RPD: Pass

**Sample Matrix Spike Control Assessment**

Sample Collection Date: 3/14/2007  
Sample I.D.: 0703-101B  
Sample MSD I.D.: 0703-101BMS  
Spike I.D.: 06-005  
MS/MSD Decay Corrected Spike Concentration (pCi/ml): 57.284  
Spike Volume Used in MS (ml): 0.20  
MS Aliquot (l, g, F): 0.500  
MS Target Conc (pCi/L, g, F): 22.914  
MSD Aliquot (l, g, F):  
MSD Target Conc. (pCi/L, g, F):  
Spike uncertainty (calculated): 0.550  
Sample Result: -0.081  
Sample Matrix Spike Result: 0.355  
Sample Matrix Spike Duplicate Result: 23.918  
Sample Matrix Spike Duplicate Result: 2.872  
Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): 0.722  
MS Numerical Performance Indicator: 104.74%  
MS Percent Recovery: N/A  
MS Status vs Numerical Indicator: N/A  
MS Status vs Recovery: Pass  
MSD Status vs Numerical Indicator:  
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:

0000006

PAGE Analytical Services, Inc.

# Quality Control Sample Performance Assessment



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

Test: Ra-228  
Analyst: OLB  
Date: 3/28/2007  
Worklist: 14245  
Matrix: DW

**Method Blank Assessment**

MB Sample ID: MB14245  
 MB concentration: 0.986  
 M/B Counting Uncertainty: 0.340  
 MB MDC: 0.553  
 MB Numerical Performance Indicator: 5.69  
 MB Status vs Numerical Indicator: N/A  
 MB Status vs MDC: See Comment

**Laboratory Control Sample Assessment**

LCSD (Y or N)?	Y
LCSD14245	3/28/2007
Count Date:	06-009
Spike I.D.:	69.542
Spike Concentration (pCi/mL):	0.10
Volume Used (mL):	0.800
Aliquot Volume (L, g, F):	8.693
Target Conc. (pCi/L, g, F):	0.269
Uncertainty (Calculated):	7.665
Result (pCi/L, g, F):	0.656
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	-2.84
Numerical Performance Indicator:	0.717
Percent Recovery:	-0.73
Status vs Numerical Indicator:	96.72%
Status vs Recovery:	N/A
	Pass

**Duplicate Sample Assessment**

Sample I.D.:	LCS14245
Duplicate Sample I.D.:	LCSD14245
Sample Result Counting Uncertainty (pCi/L, g, F):	7.665
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.656
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	8.408
Ave sample and/or duplicate results below MDC?	NO
Duplicate Numerical Performance Indicator:	-1.499
Duplicate RPD:	9.24%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass

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

**Sample Matrix Spike Control Assessment**

Sample Collection Date: 2/26/2007  
 Sample I.D.: 0703-0861  
 Sample MS I.D.: 0703-0861MS  
 Spike I.D.: 06-009  
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 70.245  
 Spike Volume Used in MS (mL): 0.20  
 MS Aliquot (L, g, F): 0.800  
 MSD Aliquot (L, g, F): 17.561  
 MSD Target Conc. (pCi/L, g, F): 0.544  
 Spike uncertainty (calculated): 0.473  
 Sample Result Counting Uncertainty (pCi/L, g, F): 0.255  
 Sample Matrix Spike Result: 12.317  
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 0.761  
 Sample Matrix Spike Duplicate Result: -11.555  
 MS Numerical Performance Indicator: 67.44%  
 MSD Numerical Performance Indicator: N/A  
 MS Percent Recovery: N/A  
 MSD Percent Recovery: Pass  
 MS Status vs Numerical Indicator: Pass  
 MSD Status vs Recovery: Pass

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

Sample I.D.:  
 Sample MS I.D.:  
 Sample MSD I.D.:  
 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:

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



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Ship To: **Mike Schnupp**

**Space Analytical - Waltz Mill**

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

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

MWH Project # Report Due: Sub PO#  
 198145 04/03/07 99-27019



ncl

Date 03/12/07

**Submission Form & Purchase Order 99-27019**

\*REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!  
 Report & Invoice must have the MWH Project Number **198145** and Job # **1000032**  
 Sub PO# **99-27019**

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report.  
**Results must have Complete data & QC with Approval Signature.** See reverse side for List of Terms and Conditions

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

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

NEVEDA

07-1532

Client Sample ID for reference only Analysis Requested Date & Time Matrix Container

@R226ED	2703080336	EFFLUENT	Radioactivity, Radium 226 Sub-contracted	03/07/07 06:30	dw	1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE P.C.
@R228ED		0703-0855	Radioactivity, Radium 228 Sub-contracted			2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE P.C.

WWS - 0856

2

Relinquished by: *[Signature]* Date 03/12/07 Time 1263  
 Sample Control MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS  
 Page 1  
 Date 3/14/07 Time 1030 An Acknowledgement of Receipt is requested to attn: Julie Lee