



MWH Laboratories

A Division of MWH Americas, Inc.

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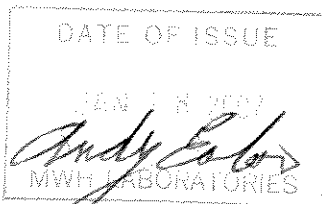
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton
Project Manager



Report#: 191969
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

19/9/67

MWLABS USE ONLY:

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

LOGIN COMMENTS:

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

SAMPLES CHECKED/LOGGED IN BY: SS

SAMPLE TEMP, RECEIPT AT LAB: 65

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)								
KEREMC/GE-E-MP Samsam Crowley (702) 651-2234		Weekly Permit Compliance Samples - SO #6532 & #6534		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)																				
Sampler Signature: Michele Brown		Tronox LLC - Henderson Plant PO Box 65 Henderson, NV 89009														SAMPLER COMMENTS								
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CL04	RADCWB (2 Bils)	NH3, NH3-DIST	PH-N2-N, NO3-N, NH4-N, TSS	CL03	FE CR	T-P, TKN	Color	FA228EDD/RA226DD (2 Bils)	CR	NO2-N, NO3-N, NH4-N							
6:30 AM	12/26/2006		EFFLUENT	RSW	X		X	X	X	X	X	X	X	X	X									Revised SO #6534
7:00	12/26/2006		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

RGW = Raw Ground Water
RSW = Raw Surface Water

CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water

Reported by Weight:
SO = Soil
SL = Sludge

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RECEIVED BY: <u>Michele Brown</u>	DATE: 12/26/2006	TIME: 12:00 PM
RECEIVED BY: <u>Fidelis</u>	DATE: 12/21	TIME: 10:00
RECEIVED BY:		
RECEIVED BY:		

SCANNED



Andrew Eaton Your MWL Project Manager
 (626) 386-1125 Direct Phone/Voice Mail
 Project Code CLO4
 PO# / Job#
 Blanket PO

Client Code KERRMCGEE-MP
 W Weekly
 Period
 Week 1

SO# 33320 RS **0** **Sampler: Please Return this Paper with your samples**
 Created by
 Order Date 11/20/06
 Date Needed by Client
 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
 Ironox LLC
 Attn: Accounts Payable
 P.O. Box 268859
 Oklahoma City, OK 73126-8859
 Billing Address

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

of Samples Tests
 SHIP LOCATION
 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	UN 2796	This is a weekly sample of INFLUENT
1	NH3, NH3-DIST,	1 125 ml poly+ 0.5ml H2SO4 (50%)	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	CR	1 125ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER- also use a LARGE COOLER
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	Login - use Profile #KERRINF for this site
1	COLOR	1 500ml amber glass / no preservative SHORT HOLDING TIME!!!!		note to Login - notify Lisa when this sample comes in so she can run NO3 on her IC
1	NO2-N, NO3, N-INOR	1 500 ml poly / no preservative SHORT HOLDING TIME!!!!	UN 1604	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;
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n		
		note: deleted CRVI-LOW from bottle order - being sent separately from now on		

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#: 191969
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **12/27/06**. 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
2612270098	EFFLUENT	@R226EDD @R228EDD @RADCWB CLO3 CR FE NO3 P TSS	Water	26-dec-2006 06:30:00
			CLO4 NH3 T-P	COLOR NH3-DIST NO2-N TKN
2612270099	INFLUENT	CLO3 CLO4 NH3-DIST NO2-N T-P	Water	26-dec-2006 07:30:00
			COLOR CR NO3 NO3RFA P	N-INOR NH3 T

Test Acronym Description

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



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Report
Comments
#191969

Client Specific Comments

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

Client Signature: _____

Group Comments

Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA California cert 04222CA y Pace Analytical Services, PA. Nevada Cert PA91-2004-77



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Laboratory
Hits Report
#191969

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

Samples Received
27-dec-2006 11:33:09

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2612270098	EFFLUENT				
01/10/07		Radium 226	<0.545	3	pCi/l	0.55
01/10/07		Radium 226, Minimal Detectable	0.545		pCi/l	
01/10/07		Radium 226, Two Sigma Error	0.205		pCi/l	
01/15/07		Radium 228	<0.669	5	pCi/l	0.67
01/15/07		Radium 228, Minimum Detectable	0.669		pCi/l	
01/15/07		Radium 228, Two Sigma Error	0.304		pCi/l	
01/10/07		Alpha, Gross	12	15	pCi/l	8.7
01/10/07		Alpha, Min Detectable Activity	8.69		pCi/l	
01/10/07		Alpha, Two Sigma Error	8.7		pCi/l	
12/28/06		Ammonia Nitrogen	0.43		mg/l	0.050
12/27/06		Apparent Color	10	15	ACU	3.0
12/29/06		Iron, Total, ICAP	0.34	0.3	mg/l	0.040
01/05/07		Kjeldahl Nitrogen	1.1		mg/l	0.20
12/29/06		Metals digestion performed.	Y		Yes/No	
12/27/06		PH (H3=past HT, not compliant)	6.8	6.5-8.5	Units	0.0010
12/29/06		Total Inorganic Nitrogen-Calc	0.43		mg/l	0.20
12/29/06		Total phosphorus-P	0.20		mg/l	0.010
	2612270099	INFLUENT				
12/28/06		Ammonia Nitrogen	1.7		mg/l	0.050
12/27/06		Apparent Color	10	15	ACU	3.0
01/03/07		Chlorate by IC	516000		ug/l	100000
12/27/06		Chromium, Total, ICAP	0.12		mg/l	0.020
12/29/06		Nitrate + Nitrite as N by RFA	18	10	mg/l	2.5
12/27/06		Nitrate as Nitrogen by IC	17	10	mg/l	0.62
12/28/06		Perchlorate	227000		ug/l	20000
12/29/06		Total Inorganic Nitrogen-Calc	19		mg/l	10
12/29/06		Total phosphorus-P	0.019		mg/l	0.010

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
 Data Report
 #191969

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

Samples Received
 12/27/06

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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EFFLUENT (2612270098)

Sampled on 12/26/06 06:30

01/03/07 00:00	346835	(ML/EPA 300.1)	Chlorate by IC	ND	ug/l	50	5
12/28/06 00:00	346287	(EPA 314)	Perchlorate	ND	ug/l	10	5
12/27/06 00:00	346025	(ML/S2120B)	Apparent Color	10	ACU	3.0	1
12/29/06 19:15	346544	(ML/EPA 200.7)	Chromium, Total, ICAP	ND	mg/l	0.020	2
12/29/06 10:16		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
12/29/06 19:15	346548	(ML/EPA 200.7)	Iron, Total, ICAP	0.34	mg/l	0.040	2
12/29/06 11:21	346307	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	0.43	mg/l	0.20	50
12/28/06 00:00	346197	(ML/EPA 350.1)	Ammonia Nitrogen	0.43	mg/l	0.050	1
12/27/06 16:13	346126	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
12/27/06 16:13	346129	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.62	50
12/27/06 00:00	346094	(4500HB/ E 150)	PH (H3=past HT, not compliant)	6.8	Units	0.0010	1
12/29/06 11:10	346326	(S4500PE/ 365.1)	Total phosphorus-P	0.20	mg/l	0.010	1
01/05/07 13:47	347210	(ML/EPA 351.2)	Kjeldahl Nitrogen	1.1	mg/l	0.20	1
12/28/06 14:19	346181	(ML/EPA 160.2)	Total Suspended Solids (TSS)	ND	mg/l	10	1

Gross Alpha Radiation

01/10/07 00:00	348320	(ML/EPA 900.0)	Alpha, Gross	12	pCi/l	8.7	1
01/10/07 00:00	348320	(ML/EPA 900.0)	Alpha, Two Sigma Error	8.7	pCi/l	0	1
01/10/07 00:00	348320	(ML/EPA 900.0)	Alpha, Min Detectable Activity	8.69	pCi/l	0	1

Radium 226 (Sub)

01/10/07 00:00		(EPA 903.1)	Radium 226	<0.545	pCi/l	0.55	1
01/10/07 00:00		(EPA 903.1)	Radium 226, Two Sigma Error	0.205	pCi/l	0	1
01/10/07 00:00		(EPA 903.1)	Radium 226, Minimal Detectable	0.545	pCi/l	0	1

Radium 228 (Sub)

01/15/07 00:00		(EPA 904.0)	Radium 228	<0.669	pCi/l	0.67	1
01/15/07 00:00		(EPA 904.0)	Radium 228, Two Sigma Error	0.304	pCi/l	0	1
01/15/07 00:00		(EPA 904.0)	Radium 228, Minimum Detectable	0.669	pCi/l	0	1



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Laboratory
Data Report
#191969

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
INFLUENT (2612270099)				Sampled on 12/26/06 07:30				
	01/03/07 00:01	347040	(ML/EPA 300.1)	Chlorate by IC	516000	ug/l	100000	10000
	12/28/06 00:00	346287	(EPA 314)	Perchlorate	227000	ug/l	20000	5000
	12/27/06 00:00	346025	(ML/S2120B)	Apparent Color	10	ACU	3.0	1
	12/27/06 23:45	346081	(ML/EPA 200.7)	Chromium, Total, ICAP	0.12	mg/l	0.020	2
	12/29/06 11:21	346307	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	19	mg/l	10	50
	12/28/06 00:00	346197	(ML/EPA 350.1)	Ammonia Nitrogen	1.7	mg/l	0.050	1
	12/27/06 16:00	346126	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	12/27/06 16:00	346129	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	17	mg/l	0.62	50
	12/29/06 14:20	346440	(ML/EPA 353.2)	Nitrate + Nitrite as N by RFA	18	mg/l	2.5	25
	12/29/06 11:10	346326	(S4500PE/ 365.1)	Total phosphorus-P	0.019	mg/l	0.010	1
	01/05/07 13:47	347210	(ML/EPA 351.2)	Kjeldahl Nitrogen	ND	mg/l	0.20	1



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Laboratory
QC Summary
#191969

Tronox LLC - Henderson

QC Ref #346025	- Apparent Color	Analysis Date: 12/27/2006
2612270098	EFFLUENT	Analyzed by: sar
2612270099	INFLUENT	Analyzed by: sar
QC Ref #346081	- Chromium, Total, ICAP	Analysis Date: 12/27/2006
2612270099	INFLUENT	Analyzed by: wbh
QC Ref #346094	- PH (H3=past HT, not compliant)	Analysis Date: 12/27/2006
2612270098	EFFLUENT	Analyzed by: jxl
QC Ref #346126	- Nitrite, Nitrogen by IC	Analysis Date: 12/27/2006
2612270098	EFFLUENT	Analyzed by: jkz
2612270099	INFLUENT	Analyzed by: jkz
QC Ref #346129	- Nitrate as Nitrogen by IC	Analysis Date: 12/27/2006
2612270098	EFFLUENT	Analyzed by: jkz
2612270099	INFLUENT	Analyzed by: jkz
QC Ref #346181	- Total Suspended Solids (TSS)	Analysis Date: 12/28/2006
2612270098	EFFLUENT	Analyzed by: anh
QC Ref #346197	- Ammonia Nitrogen	Analysis Date: 12/28/2006
2612270098	EFFLUENT	Analyzed by: dtn
2612270099	INFLUENT	Analyzed by: dtn
QC Ref #346287	- Perchlorate	Analysis Date: 12/28/2006
2612270098	EFFLUENT	Analyzed by: raja
2612270099	INFLUENT	Analyzed by: raja



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Laboratory
QC Summary
#191969

Tronox LLC - Henderson
(continued)

QC Ref #346307 - Total Inorganic Nitrogen-Calc Analysis Date: 12/29/2006

2612270098	EFFLUENT	Analyzed by: dwr
2612270099	INFLUENT	Analyzed by: dwr

QC Ref #346326 - Total phosphorus-P Analysis Date: 12/29/2006

2612270098	EFFLUENT	Analyzed by: bxr
2612270099	INFLUENT	Analyzed by: bxr

QC Ref #346440 - Nitrate + Nitrite as N by RFA Analysis Date: 12/29/2006

2612270099	INFLUENT	Analyzed by: dtn
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QC Ref #346544 - Chromium, Total, ICAP Analysis Date: 12/29/2006

2612270098	EFFLUENT	Analyzed by: wbh
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QC Ref #346548 - Iron, Total, ICAP Analysis Date: 12/29/2006

2612270098	EFFLUENT	Analyzed by: wbh
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QC Ref #346835 - Chlorate by IC Analysis Date: 01/03/2007

2612270098	EFFLUENT	Analyzed by: raja
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QC Ref #347040 - Chlorate by IC Analysis Date: 01/03/2007

2612270099	INFLUENT	Analyzed by: raja
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Laboratory
QC Summary
#191969

Tronox LLC - Henderson
(continued)

QC Ref #347210 - Kjeldahl Nitrogen

Analysis Date: 01/05/2007

2612270098 EFFLUENT
2612270099 INFLUENT

Analyzed by: bxr
Analyzed by: bxr

QC Ref #348320 - Gross Alpha Radiation

Analysis Date: 01/10/2007

2612270098 EFFLUENT

Analyzed by: ajc



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Laboratory
QC Report
#191969

Tronox LLC - Henderson

QC Ref #346025 Apparent Color

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

QC Ref #346081 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	1.0	MGL	100.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.998	MGL	99.8	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.009	MGL	90.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.991	MGL	99.1	(70-130)	

QC Ref #346094 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab# 26	12270168	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	7.85	7.86	UNIT		(0-20)	0.1

QC Ref #346126 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 26	12270065	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	1.06	MGL	106.0	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.03	MGL	103.0	(90-110)	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrite, Nitrogen by IC	0.500	0.538	MGL	107.6	(90-110)	
MSD	Nitrite, Nitrogen by IC	0.500	0.536	MGL	107.2	(90-110)	
RPD_LCS	Nitrite, Nitrogen by IC	106.000	103.000	MGL	2.9	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	107.600	107.200	MGL	0.4	(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.

Tronox LLC - Henderson
 (continued)

QC Ref #346129 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 26	12270065	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	2.44	MGL	97.6	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MS	Nitrate as Nitrogen by IC	1.25	1.19	MGL	95.2	(90-110)	
MSD	Nitrate as Nitrogen by IC	1.25	1.19	MGL	95.2	(90-110)	
RPD_LCS	Nitrate as Nitrogen by IC	100.400	97.600	MGL	2.8	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	95.200	95.200	MGL	0.0	(0-20)	

QC Ref #346181 Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 26	12270098	MGL		(0-0)	
LCS1	Total Suspended Solids (TSS)	175	170	MGL	97.1	(80-120)	
LCS2	Total Suspended Solids (TSS)	175	168	MGL	96.0	(80-120)	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			

QC Ref #346197 Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 26	12210212	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.04	MGL	104.0	(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	0.906	MGL	90.6	(90-110)	
MSD	Ammonia Nitrogen	1.00	0.927	MGL	92.7	(90-110)	
RPD_LCS	Ammonia Nitrogen	104.000	103.000	MGL	1.0	(0-20)	
RPD_MS	Ammonia Nitrogen	90.600	92.700	MGL	2.3	(0-20)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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 are advisory only, unless otherwise specified in the method.

Tronox LLC - Henderson
(continued)

QC Ref #346287 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 26	12270005	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.2	UGL	100.8	(85-115)	
LCS2	Perchlorate	25.0	24.2	UGL	96.8	(85-115)	
LCS3	Perchlorate	4	4.01	UGL	100.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.8	UGL	91.2	(70-130)	
MSD	Perchlorate	25.0	23.3	UGL	93.2	(70-130)	
RPD_LCS	Perchlorate	100.800	96.800	UGL	4.0	(0-20)	
RPD_MS	Perchlorate	91.200	93.200	UGL	2.2	(0-20)	

QC Ref #346326 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 26	12260182	MGL		(0-0)	
LCS1	Total phosphorus-P	0.4	0.387	MGL	96.8	(90-110)	
LCS2	Total phosphorus-P	0.4	0.416	MGL	104.0	(90-110)	
MBLK	Total phosphorus-P	ND	<0.010	MGL			
MS	Total phosphorus-P	0.4	0.395	MGL	98.8	(90-110)	
MSD	Total phosphorus-P	0.4	0.384	MGL	96.0	(90-110)	
RPD_LCS	Total phosphorus-P	96.750	104.000	MGL	7.2	(0-10)	
RPD_MS	Total phosphorus-P	98.750	96.000	MGL	2.8	(0-20)	

QC Ref #346440 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 26	12160030	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.93	MGL	93.0	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.93	MGL	93.0	(90-110)	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.10	MGL			

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



Tronox LLC - Henderson
(continued)

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	0.93	MGL	93.0	(90-110)
MSD	Nitrate + Nitrite as N by RFA	1.0	0.94	MGL	94.0	(90-110)

QC Ref #346544 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.986	MGL	98.6	(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	0.010	MGL	100.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	0.995	MGL	99.5	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.993	MGL	99.3	(70-130)	

QC Ref #346548 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	4.72	MGL	94.4	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.020	MGL	100.0	(50-150)	
MS	Iron, Total, ICAP	5.0	4.85	MGL	97.0	(70-130)	
MSD	Iron, Total, ICAP	5.0	4.8	MGL	96.0	(70-130)	
RPD_MS	Iron, Total, ICAP	97.000	96.000	MGL	1.0	(0-20)	

QC Ref #346835 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 26	12270175	UGL		(0-0)	
LCS1	Chlorate by IC	200	199	UGL	99.5	(75-125)	
LCS2	Chlorate by IC	200	199	UGL	99.5	(75-125)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	10.8	UGL	108.0	(50-150)	

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

Tronox LLC - Henderson
 (continued)

MS	Chlorate by IC	100	90.3	UGL	90.3	(75-125)
MSD	Chlorate by IC	100	91.3	UGL	91.3	(75-125)
RPD_LCS	Chlorate by IC	99.500	99.500	UGL	0.0	(0-20)
RPD_MS	Chlorate by IC	90.300	91.300	UGL	1.1	(0-20)

QC Ref #347040 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	01020092	UGL		(0-0)	
LCS1	Chlorate by IC	200	204	UGL	102.0	(75-125)	
LCS2	Chlorate by IC	200	205	UGL	102.5	(75-125)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	10.3	UGL	103.0	(50-150)	
MS	Chlorate by IC	100	92.3	UGL	92.3	(75-125)	
MSD	Chlorate by IC	100	92.2	UGL	92.2	(75-125)	
RPD_LCS	Chlorate by IC	102.000	102.500	UGL	0.5	(0-20)	
RPD_MS	Chlorate by IC	92.300	92.200	UGL	0.1	(0-20)	

QC Ref #347210 Kjeldahl Nitrogen

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

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

Tronox LLC - Henderson
(continued)

QC Ref #348320

Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 26	12220123	PCIL		(0-0)	
DUP	Alpha, Gross	ND	ND	PCIL		(0-20)	
LCS1	Alpha, Gross	16.6	18.1	PCIL	109.0	(80-120)	
LCS2	Alpha, Gross	16.6	19.1	PCIL	115.1	(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	109.036	115.060	PCIL	5.4	(0-20)	
DUP	Beta, Gross	ND	ND	PCIL		(0-20)	
LCS1	Beta, Gross	15.7	16.8	PCIL	107.0	(80-120)	
LCS2	Beta, Gross	15.7	17.2	PCIL	109.6	(80-120)	
MBLK	Beta, Gross	ND	<3.0	PCIL			
MS	Beta, Gross	31.4	35.0	PCIL	111.5	(70-130)	
RPD_LCS	Beta, Gross	107.006	109.554	PCIL	2.4	(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.



Kennecott-MP

Pace Analytical Services, Inc.

MS62, P.O. Box 158

Madison, PA 15663

Phone: 724.722.5214

Fax: 724.722.5208

January 17, 2007

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

Drinking Water Characterization; Purchase Order No. 99-25689
191969 NV DW, Ra-226/228; NV Cert Expires 11/30/06; MWH Laboratories
Pace Project No. 06-6705

Dear Ms. Montanez:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc. The sample was received on December 28, 2006 and logged in for analysis on December 29, 2006.

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

Sincerely,

Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljz

Enclosures

PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 06-6705

CLIENT: Purchase Order Number: 99-25689

B: SAMPLE IDENTIFICATIONS:

PACE: 0612-1472

CLIENT: 2612270098

C: SHIPPING/RECEIVING COMMENTS:

Final Report 1/17/07.

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. 06-6705
 Drinking Water Characterization; 191969 NV DW, Ra-226/228
 Charge Order No. 99-25689; NV Cert Expires 11/30/06

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act + Unc (MDC)	
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	01/10/07	0.000 ± 0.205	(0.545)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	01/15/07	0.222 ± 0.304	(0.669)

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

0000004

Table 1
(Continued)

Parameter	Analytical Method	Units	Sample Identification	
			Analyzed	Act + Unc (MDC)
Ra-226 (EPA 903.1)	EPA 903.1	pCi/L	01/10/07	-0.146 ± 0.287 (0.788)
Ra-228 (EPA 904.0)	EPA 904.0	pCi/L	01/15/07	0.722 ± 0.350 (0.651)

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

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: CMC
Date: 1/12/2007
Worklist: 13778
Matrix: DW

D. B. B. B.
Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID: MB13778
MB concentration: -0.146
M/B Counting Uncertainty: 0.287
MB MDC: 0.788
MB Numerical Performance Indicator: -6.83
MB Status vs Numerical Indicator: N/A
MB Status vs MDC: Pass

Laboratory Control Sample Assessment

Count Date:	LCS (Y or N)?	Y
1/10/2007	LCS13778	1/10/2007
Spike I.D.:	06-005	06-005
Spike Concentration (pCi/mL):	57.288	57.288
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.500
Target Conc. (pCi/L, g, F):	11.458	11.458
Uncertainty (Calculated):	0.275	0.275
Result (pCi/L, g, F):	10.889	9.339
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	1.691	1.716
Numerical Performance Indicator:	-0.65	-2.39
Percent Recovery:	95.04%	81.51%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass

Duplicate Sample Assessment

Sample I.D.: LCS13778
Duplicate Sample I.D.: LCS13778
Sample Result (pCi/L, g, F): 10.889
Sample Result Counting Uncertainty (pCi/L, g, F): 1.691
Sample Duplicate Result (pCi/L, g, F): 9.339
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 1.716
Are sample and/or duplicate results below MDC? NO
Duplicate Numerical Performance Indicator: 1.261
Duplicate RPD: 15.33%
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: 12/28/2006
Sample I.D.: 0612-1466
Sample MS I.D.: 0612-1486MS
Spike 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): 22.916
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F): 0.550
Spike uncertainty (calculated): 0.074
Sample Result: 0.385
Sample Result Counting Uncertainty (pCi/L, g, F): 23.582
Sample Matrix Spike Result: 2.435
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result: 0.460
MS Numerical Performance Indicator: 102.58%
MSD Numerical Performance Indicator:
MS Percent Recovery: N/A
MS Status vs Numerical Indicator: Pass
MSD Status vs Recovery: Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment

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

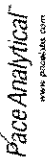
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

0000005

0000006

Quality Control Sample Performance Assessment



Test: Ra-228
 Analyst: OLB
 Date: 1/15/2007
 Worklist: 13791
 Matrix: DW

Method Blank Assessment

MB Sample ID: MB13791
 MB concentration: 0.722
 MB Counting Uncertainty: 0.350
 MB MDC: 0.651
 MB Numerical Performance Indicator: 4.05
 MB Status vs Numerical Indicator: N/A
 MB Status vs MDC: See Comment*

Laboratory Control Sample Assessment

Count Date:	LCSD (Y or N)?	Y	N
1/15/2007	LCSD13791	1/15/2007	
Spike I.D.: 05-034		05-034	
Spike Concentration (pCi/mL): 77.532		77.532	
Volume Used (mL): 0.10		0.10	
Aliquot Volume (L, g, F): 0.800		0.800	
Target Conc. (pCi/L, g, F): 9.691		9.691	
Uncertainty (Calculated): 0.300		0.300	
Result (pCi/L, g, F): 11.983		10.462	
LCSD Counting Uncertainty (pCi/L, g, F): 1.050		0.963	
Numerical Performance Indicator: 4.13		1.50	
Percent Recovery: 123.74%		107.95%	
Status vs Numerical Indicator: N/A		Pass	
Status vs Recovery: N/A		Pass	

Duplicate Sample Assessment

Sample I.D.:	LCSD13791	Y	N
Duplicate Sample I.D.: LCSD13791			
Duplicate Result (pCi/L, g, F): 11.983			
Sample Result Counting Uncertainty (pCi/L, g, F): 1.050			
Sample Duplicate Result (pCi/L, g, F): 10.462			
Sample Duplicate Counting Uncertainty (pCi/L, g, F): 0.963			
Are sample and/or duplicate results below MDC? NO			
Duplicate Numerical Performance Indicator: 2.106			
Duplicate RPD: 13.63%			
Duplicate Status vs Numerical Indicator: N/A			
Duplicate Status vs RPD: Pass			

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

Comments:

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

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment

Sample Collection Date:	12/27/2006
Sample I.D.: 0612-1474	
Sample MS I.D.: 0612-1474MS	
Sample MSD I.D.: 05-034	
Spike I.D.: 78.036	
MS/MSD Decay Corrected Spike Concentration (pCi/mL): 0.20	
Spike Volume Used in MS (mL): 0.800	
Spike Volume Used in MSD (mL): 19.509	
MS Aliquot (L, g, F): 0.800	
MS Target Conc (pCi/L, g, F): 19.509	
MSD Aliquot (L, g, F): 0.605	
MSD Target Conc (pCi/L, g, F): 0.259	
Spike uncertainty (calculated): 0.294	
Sample Result: 19.275	
Sample Result Counting Uncertainty (pCi/L, g, F): 1.211	
Sample Matrix Spike Result: -0.697	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 97.47%	
Sample Matrix Spike Duplicate Result: N/A	
MS Numerical Performance Indicator: N/A	
MSD Numerical Performance Indicator: Pass	
MS Percent Recovery: N/A	
MS Status vs Numerical Indicator: N/A	
MSD Status vs Numerical Indicator: N/A	
MS Status vs Recovery: N/A	
MSD Status vs Recovery: N/A	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	05-034
Sample MS I.D.: 78.036	
Sample MSD I.D.: 05-034	
Sample Matrix Spike Result: 0.800	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F): 0.300	
Sample Matrix Spike Duplicate Result: 0.800	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): 0.300	
Duplicate Numerical Performance Indicator: 2.106	
MS/MSD Duplicate RPD: 13.63%	
MS/MSD Duplicate Status vs Numerical Indicator: N/A	
MS/MSD Duplicate Status vs RPD: Pass	

1/17/07



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#
 191969 01/18/07 99-25689

emm



Client Sample ID for reference only

Analysis Requested Date & Time Matrix Container

@R226ED	EFFLUENT	Radioactivity, Radium 226 Sub-contracted	12/26/06 06:30	dw	1 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBILANICE D.Y.C
@R228ED		Radioactivity, Radium 228 Sub-contracted			2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBILANICE D.Y.C

2612-1472
1473

Michael Bank

Date 12/27/06

Submittal Form & Purchase Order 99-25689

***REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!**
 Report & Invoice must have the MWH Project Number **191969** 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

06-6705

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

Relinquished by:

[Signature]

Received by:

[Signature]

Sample Control Date 12/27/06 Time MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS
 Date *12/28/06* Time *0950*
 Page 1
 An Acknowledgement of Receipt is requested to attn: Julie Lee