



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: 626 386 1100
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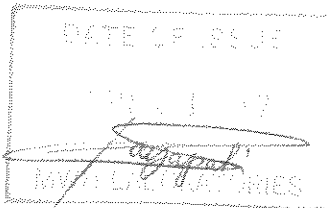
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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



ADE ^{for} Andy Eaton
Project Manager

Report#199120R replaces the original Report.



Report#: 199120R
Project: CL04
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 14 page[s].



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

199120

MW LABS USE ONLY:

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: 76

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 <input type="checkbox"/> (check for yes)															
K-FRAME/CEE-MP Michele Brown Susan Crowley (702) 651-2234		Weekly Permit Compliance Samples - SO #6532 & #6534 Ironox LLC - Henderson Plant PO Box 55 Henderson, NV 89009		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)															
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	CL04	RADCWB (2 Bts)	NH3, NH3-DIST	PH-N, NO3-N, NH4-N, SS	CL03	FE, CR	T-P, TN	Color	RA228EDD/RA228EDD (2 Bts)	CR	NO2-N, NO3-N, NH4-N	SAMPLER COMMENTS	
6:30 AM	3/19/2007		EFFLUENT	RSW	X		X	X	X	X	X	X	X	X	X				Revised SO #6534
7:00	3/19/2007		INFLUENT	RSW	X		X	X	X		X	X	X	X					Revised SO #6532

② 199120/107

* 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

TIME

RELINQUISHED BY: <u>Michele Brown</u>	DATE: 3/19/2007	TIME: 12:00 PM
RECEIVED BY: <u>[Signature]</u>	DATE: 3-20	TIME: 10:00
RELINQUISHED BY: <u>[Signature]</u>	DATE: 3-20	TIME: 10:00
RECEIVED BY: <u>[Signature]</u>	DATE: 3-20	TIME: 10:00



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

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

W Weekly
Week 1

Period

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

SO# 34685 6532 RS

Sampler: Please Return this Paper with your samples

Created by 0
Order Date 02/12/07
Date Needed by Client
SHIP LOCATION

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

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

ATTN: Susan Crowley
PHONE: 702-651-2234

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

Quote#

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

of Samples Tests

UN#

Important Comments

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
1	CLO4	1 125ml poly /no preservative		This is a weekly sample of
1	NH3, NH3-DIST.	1 125 ml poly+ 0.5ml H2SO4 (50%)	UN 2796	INFLUENT This cooler can be shipped out along with the I-X-E-F-F cooler as one order.
1	CR	1 125ml poly acid rinsed + 1ml HNO3 (18%)	3077	NOTIFY LAB AS SOON AS CR-VI COMES IN- 24HR ht
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN 2031	PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER- also use a LARGE COOLER
1	COLOR	1 500ml amber glass / no preservative	UN2796	PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER- also use a LARGE COOLER
1	NO2-N, NO3, N-NOR	1 500 ml poly / no preservative		SHORT HOLDING TIME!!!!
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	#KERRINF for this site Login - use Profile note to Login - notify Lisa when this sample comes in so she can run NO3 on her IC
		note: deleted CRVI-LOW from bottle order - being sent separately from now on		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;

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

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#: 199120
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **03/20/07**. 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	Matrix	Sample Date
2703200499	EFFLUENT	Water	19-mar-2007 06:30:00
		Tests Scheduled	
		@R226EDD @R228EDD @RADCWB CLO3 CLO4 COLOR CR FE N-INOR NH3 NH3-DIST NO2-N NO3 PH T T-P TKN TSS	
2703200500	INFLUENT	Water	19-mar-2007 07:00:00
		Tests Scheduled	
		CLO3 CLO4 COLOR CR N-INOR NH3 NH3-DIST NO2-N NO3 NO3RFA P T T-P TKN	

Test Acronym Description

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



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Report
Comments
#199120

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

Report revised to correct QC for NO3 and NO2-N.
Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA California cert 04222CA by Pace Analytical Services, PA. Nevada Cert PA91-2004-77
TKN for Influent has signal suppression and low bias
TKN<NH3. Interference documented on earlier samples from same site



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Laboratory
Hits Report
#199120

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

Samples Received
20-mar-2007 17:26:21

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2703200499	EFFLUENT				
04/09/07		Radium 226	<0.517	3	pCi/l	0.52
04/09/07		Radium 226, Minimal Detectable	0.517		pCi/l	
04/09/07		Radium 226, Two Sigma Error	0.238		pCi/l	
04/04/07		Radium 228	0.850	5	pCi/l	0.84
04/04/07		Radium 228, Minimum Detectable	0.841		pCi/l	
04/04/07		Radium 228, Two Sigma Error	0.444		pCi/l	
04/09/07		Alpha, Gross	12	15	pCi/l	9.3
04/09/07		Alpha, Min Detectable Activity	9.28		pCi/l	
04/09/07		Alpha, Two Sigma Error	9.3		pCi/l	
04/09/07		Gross Alpha + adjusted error	19.8		pCi/l	
03/23/07		Ammonia Nitrogen	1.2		mg/l	0.10
03/20/07		Apparent Color	35	15	ACU	3.0
03/23/07		Iron, Total, ICAP	3.2	0.3	mg/l	0.040
03/22/07		Kjeldahl Nitrogen	3.3		mg/l	1.0
03/22/07		Metals digestion performed.	Y		Yes/No	
03/21/07		PH (H3=past HT, not compliant)	6.5	6.5-8.5	Units	0.0010
03/26/07		Total Inorganic Nitrogen-Calc	1.2		mg/l	0.20
03/22/07		Total Suspended Solids (TSS)	14		mg/l	10
03/27/07		Total phosphorus-P	0.20		mg/l	0.020
	2703200500	INFLUENT				
03/23/07		Ammonia Nitrogen	2.9		mg/l	0.10
03/20/07		Apparent Color	10	15	ACU	3.0
03/23/07		Chlorate by IC	507000		ug/l	50000
03/21/07		Chromium, Total, ICAP	0.020		mg/l	0.020
03/22/07		Kjeldahl Nitrogen	0.58		mg/l	0.50
03/27/07		Nitrate + Nitrite as N by RFA	16	10	mg/l	2.5
03/20/07		Nitrate as Nitrogen by IC	17	10	mg/l	0.62
03/21/07		Perchlorate	218000		ug/l	20000

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#199120

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

Samples Received
20-mar-2007 17:26:21

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2703200500	INFLUENT				
03/26/07	Total Inorganic Nitrogen-Calc		20		mg/l	10



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Laboratory
Data Report
#199120

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

Samples Received
03/20/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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EFFLUENT (2703200499)

Sampled on 03/19/07 06:30

03/23/07 00:00	358638	(ML/EPA 300.0)	Chlorate by IC	ND	ug/l	50	5
03/21/07 00:01	358498	(EPA 314)	Perchlorate	ND	ug/l	10	5
03/20/07 00:00	358086	(ML/S2120B)	Apparent Color	35	ACU	3.0	1
03/23/07 19:50	358756	(ML/EPA 200.7)	Chromium, Total, ICAP	ND	mg/l	0.020	2
03/22/07 18:09		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
03/23/07 19:50	358759	(ML/EPA 200.7)	Iron, Total, ICAP	3.2	mg/l	0.040	2
03/26/07 09:54	358779	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	1.2	mg/l	0.20	50
03/23/07 00:00	358750	(ML/EPA 350.1)	Ammonia Nitrogen	1.2	mg/l	0.10	2
03/20/07 13:30	358219	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
03/20/07 13:30	358222	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	0.62	50
03/21/07 00:00	358205	(4500HB/ E 150)	PH (H3-past HT, not compliant)	6.5	Units	0.0010	1
03/27/07 00:00	359151	(S4500PE/ 365.1)	Total phosphorus-P	0.20	mg/l	0.020	1
03/22/07 00:00	358532	(ML/EPA 351.2)	Kjeldahl Nitrogen	3.3	mg/l	1.0	5
03/22/07 19:03	358653	(ML/EPA 160.2)	Total Suspended Solids (TSS)	14	mg/l	10	1

Gross Alpha Radiation

04/09/07 00:00	361346	(ML/EPA 900.0)	Alpha, Gross	12	pCi/l	9.3	1
04/09/07 00:00	361346	(ML/EPA 900.0)	Gross Alpha + adjusted error	19.8	pCi/l	0	1
04/09/07 00:00	361346	(ML/EPA 900.0)	Alpha, Two Sigma Error	9.3	pCi/l	0	1
04/09/07 00:00	361346	(ML/EPA 900.0)	Alpha, Min Detectable Activity	9.28	pCi/l	0	1

Radium 226 (Sub)

04/09/07 00:00		(EPA 903.1)	Radium 226	<0.517	pCi/l	0.52	1
04/09/07 00:00		(EPA 903.1)	Radium 226, Two Sigma Error	0.238	pCi/l	0	1
04/09/07 00:00		(EPA 903.1)	Radium 226, Minimal Detectable	0.517	pCi/l	0	1

Radium 228 (Sub)

04/04/07 00:00		(EPA 904.0)	Radium 228	0.850	pCi/l	0.84	1
04/04/07 00:00		(EPA 904.0)	Radium 228, Two Sigma Error	0.444	pCi/l	0	1
04/04/07 00:00		(EPA 904.0)	Radium 228, Minimum Detectable	0.841	pCi/l	0	1



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Laboratory
Data Report
#199120

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
INFLUENT (2703200500)				Sampled on 03/19/07 07:00				
	03/23/07 00:00	358638	(ML/EPA 300.0)	Chlorate by IC	507000	ug/l	50000	5000
	03/21/07 00:01	358498	(EPA 314)	Perchlorate	218000	ug/l	20000	5000
	03/20/07 00:00	358086	(ML/S2120B)	Apparent Color	10	ACU	3.0	1
	03/21/07 15:29	358374	(ML/EPA 200.7)	Chromium, Total, ICAP	0.020	mg/l	0.020	2
	03/26/07 09:54	358779	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	20	mg/l	10	50
	03/23/07 00:00	358750	(ML/EPA 350.1)	Ammonia Nitrogen	2.9	mg/l	0.10	2
	03/20/07 13:16	358219	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	0.62	50
	03/20/07 13:16	358222	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	17	mg/l	0.62	50
	03/27/07 13:22	359106	(ML/EPA 353.2)	Nitrate + Nitrite as N by RFA	16	mg/l	2.5	25
	03/27/07 00:00	359151	(S4500PE/ 365.1)	Total phosphorus-P	ND	mg/l	0.020	1
	03/22/07 00:00	358532	(ML/EPA 351.2)	Kjeldahl Nitrogen	0.58	mg/l	0.50	5



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Laboratory
QC Summary
#199120

Tronox LLC - Henderson

QC Ref #358086 - Apparent Color Analysis Date: 03/20/2007

2703200499	EFFLUENT	Analyzed by: bxr
2703200500	INFLUENT	Analyzed by: bxr

QC Ref #358205 - PH (H3=past HT, not compliant) Analysis Date: 03/21/2007

2703200499	EFFLUENT	Analyzed by: sar
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QC Ref #358219 - Nitrite, Nitrogen by IC Analysis Date: 03/20/2007

2703200499	EFFLUENT	Analyzed by: jkz
2703200500	INFLUENT	Analyzed by: jkz

QC Ref #358222 - Nitrate as Nitrogen by IC Analysis Date: 03/20/2007

2703200499	EFFLUENT	Analyzed by: jkz
2703200500	INFLUENT	Analyzed by: jkz

QC Ref #358374 - Chromium, Total, ICAP Analysis Date: 03/21/2007

2703200500	INFLUENT	Analyzed by: wbh
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QC Ref #358498 - Perchlorate Analysis Date: 03/21/2007

2703200499	EFFLUENT	Analyzed by: raja
2703200500	INFLUENT	Analyzed by: raja

QC Ref #358532 - Kjeldahl Nitrogen Analysis Date: 03/22/2007

2703200499	EFFLUENT	Analyzed by: njr
2703200500	INFLUENT	Analyzed by: njr



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Laboratory
QC Summary
#199120

Tronox LLC - Henderson
(continued)

QC Ref #358638	- Chlorate by IC	Analysis Date: 03/23/2007
2703200499	EFFLUENT	Analyzed by: raja
2703200500	INFLUENT	Analyzed by: raja
QC Ref #358653	- Total Suspended Solids (TSS)	Analysis Date: 03/22/2007
2703200499	EFFLUENT	Analyzed by: anh
QC Ref #358750	- Ammonia Nitrogen	Analysis Date: 03/23/2007
2703200499	EFFLUENT	Analyzed by: nina
2703200500	INFLUENT	Analyzed by: nina
QC Ref #358756	- Chromium, Total, ICAP	Analysis Date: 03/23/2007
2703200499	EFFLUENT	Analyzed by: wbh
QC Ref #358759	- Iron, Total, ICAP	Analysis Date: 03/23/2007
2703200499	EFFLUENT	Analyzed by: wbh
QC Ref #358779	- Total Inorganic Nitrogen-Calc	Analysis Date: 03/26/2007
2703200499	EFFLUENT	Analyzed by: dwr
2703200500	INFLUENT	Analyzed by: dwr
QC Ref #359106	- Nitrate + Nitrite as N by RFA	Analysis Date: 03/27/2007
2703200500	INFLUENT	Analyzed by: maria



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Laboratory
QC Summary
#199120

Tronox LLC - Henderson
(continued)

QC Ref #359151 - Total phosphorus-P

Analysis Date: 03/27/2007

2703200499
2703200500

EFFLUENT
INFLUENT

Analyzed by: njr
Analyzed by: njr

QC Ref #361346 - Gross Alpha Radiation

Analysis Date: 04/09/2007

2703200499

EFFLUENT

Analyzed by: ajc



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Laboratory
QC Report
#199120

Tronox LLC - Henderson

QC Ref #358086 Apparent Color

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

QC Ref #358205 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03200063	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	7.3	7.4	UNIT		(0-20)	1.4

QC Ref #358219 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03200006	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	0.964	MGL	96.4	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	0.961	MGL	96.1	(90-110)	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0489	MGL	97.8	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.470	MGL	94.0	(90-110)	
MSD	Nitrite, Nitrogen by IC	0.500	0.470	MGL	94.0	(90-110)	
RPD_LCS	Nitrite, Nitrogen by IC	96.400	96.100	MGL	0.3	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	94.000	94.000	MGL	0.0	(0-20)	

QC Ref #358222 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03200006	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.48	MGL	99.2	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.47	MGL	98.8	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0452	MGL	90.4	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.20	MGL	96.0	(80-112)	

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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Laboratory
QC Report
#199120

Tronox LLC - Henderson
(continued)

MSD	Nitrate as Nitrogen by IC	1.25	1.20	MGL	96.0	(80-112)
RPD_LCS	Nitrate as Nitrogen by IC	99.200	98.800	MGL	0.4	(0-20)
RPD_MS	Nitrate as Nitrogen by IC	96.000	96.000	MGL	0.0	(0-20)

QC Ref #358374 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.996	MGL	99.6	(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	0.010	MGL	100.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.993	MGL	99.3	(70-130)	

QC Ref #358498 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03190042	UGL		(0-0)	
LCS1	Perchlorate	25.0	25.8	UGL	103.2	(85-115)	
LCS2	Perchlorate	25.0	25.6	UGL	102.4	(85-115)	
LCS3	Perchlorate	4	4.05	UGL	101.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.2	UGL	92.8	(70-130)	
MSD	Perchlorate	25.0	21.8	UGL	87.2	(70-130)	
RPD_LCS	Perchlorate	103.200	102.400	UGL	0.8	(0-20)	
RPD_MS	Perchlorate	92.800	87.200	UGL	6.2	(0-20)	

QC Ref #358532 Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03150314	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	3.84	MGL	96.0	(90-110)	
LCS2	Kjeldahl Nitrogen	4	3.92	MGL	98.0	(90-110)	

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Tronox LLC - Henderson
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MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	4.06	MGL	101.5	(90-110)	
MSD	Kjeldahl Nitrogen	4	4.06	MGL	101.5	(90-110)	
RPD_LCS	Kjeldahl Nitrogen	96.000	98.000	MGL	2.1	(0-20)	
RPD_MS	Kjeldahl Nitrogen	101.500	101.500	MGL	0.0	(0-20)	

QC Ref #358638 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03200006	UGL		(0-0)	
LCS1	Chlorate by IC	200	215	UGL	107.5	(90-110)	
LCS2	Chlorate by IC	200	218	UGL	109.0	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	11.6	UGL	116.0	(50-150)	
MS	Chlorate by IC	100	105	UGL	105.0	(75-125)	
MSD	Chlorate by IC	100	106	UGL	106.0	(75-125)	
RPD_LCS	Chlorate by IC	107.500	109.000	UGL	1.4	(0-20)	
RPD_MS	Chlorate by IC	105.000	106.000	UGL	0.9	(0-20)	

QC Ref #358653 Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03220137	MGL		(0-0)	
LCS1	Total Suspended Solids (TSS)	175	158	MGL	90.3	(80-120)	
LCS2	Total Suspended Solids (TSS)	175	164	MGL	93.7	(80-120)	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			

QC Ref #358750 Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03190005	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.06	MGL	106.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.06	MGL	106.0	(90-110)	

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MBLK	Ammonia Nitrogen	ND	<0.050	MGL		
MRL_CHK	Ammonia Nitrogen	0.05	0.041	MGL	82.0	(50-150)
MS	Ammonia Nitrogen	1.00	1.03	MGL	103.0	(90-110)
MSD	Ammonia Nitrogen	1.00	1.07	MGL	107.0	(90-110)
MS_2ND	Ammonia Nitrogen	1	1.07	MGL	107.0	(90-110)
RPD_LCS	Ammonia Nitrogen	106.000	106.000	MGL	0.0	(0-20)
RPD_MS	Ammonia Nitrogen	103.000	107.000	MGL	3.8	(0-20)

QC Ref #358756 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.916	MGL	91.6	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.942	MGL	94.2	(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	0.936	MGL	93.6	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.910	MGL	91.0	(70-130)	

QC Ref #358759 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.59	MGL	91.8	(85-115)	
LCS2	Iron, Total, ICAP	5.0	4.73	MGL	94.6	(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	4.73	MGL	94.6	(70-130)	
MS2	Iron, Total, ICAP	5.0	4.52	MGL	90.4	(70-130)	
MSD	Iron, Total, ICAP	5.0	4.61	MGL	92.2	(70-130)	
MSD2	Iron, Total, ICAP	5.0	4.66	MGL	93.2	(70-130)	
RPD_MS	Iron, Total, ICAP	94.600	92.200	MGL	2.6	(0-20)	

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QC Ref #359106 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03200419	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	1.03	MGL	103.0	(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			
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	0.97	MGL	97.0	(90-110)	
MSD	Nitrate + Nitrite as N by RFA	1.0	1.01	MGL	101.0	(90-110)	

QC Ref #359151 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	03200529	MGL		(0-0)	
LCS1	Total phosphorus-P	0.4	0.431	MGL	107.7	(90-110)	
LCS2	Total phosphorus-P	0.4	0.436	MGL	109.0	(90-110)	
MBLK	Total phosphorus-P	ND	<0.020	MGL			
MS	Total phosphorus-P	0.4	0.441	MGL	<u>110.2</u>	(90-110)	
MSD	Total phosphorus-P	0.4	0.441	MGL	<u>110.2</u>	(90-110)	
RPD_LCS	Total phosphorus-P	107.750	109.000	MGL	1.2	(0-10)	
RPD_MS	Total phosphorus-P	110.250	110.250	MGL	0.0	(0-20)	

QC Ref #361346 Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	03210122	PCIL		(0-0)	
DUP	Alpha, Gross	ND	ND	PCIL		(0-20)	
LCS1	Alpha, Gross	16.6	15.6	PCIL	94.0	(80-120)	
LCS2	Alpha, Gross	16.6	17.0	PCIL	102.4	(80-120)	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	33.0	PCIL	99.4	(70-130)	

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RPD_LCS	Alpha, Gross	93.976	102.410	PCIL	8.6	(0-20)
DUP	Beta, Gross	ND	ND	PCIL		(0-20)
LCS1	Beta, Gross	15.7	14.1	PCIL	89.8	(80-120)
LCS2	Beta, Gross	15.7	14.0	PCIL	89.2	(80-120)
MBLK	Beta, Gross	ND	<3.0	PCIL		
MS	Beta, Gross	11.4	30.2	PCIL	96.2	(70-130)
RPD_LCS	Beta, Gross	89.809	89.172	PCIL	0.7	(0-20)

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