



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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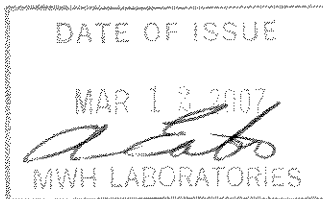
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

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



ADE Andy Eaton
Project Manager

Report#: 195318R
Project: CLO4
PO#: Susan Crowle

Report#195318R replaces the original Report.

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 15 page[s].



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

195318

MWLABS 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: SS

SAMPLE TEMP, RECEIPT AT LAB: 44

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)
KERRMCEE-AP Sampiler Signature: <u>Michele Brown</u> Susan Crowley (702) 651-2234	Weekly Permit Compliance Samples - SO #6532 & #6534 Tronox 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	CLO4	RADCW8 (2 Bts)	NH3, NH3-DIST	PH, NO2-N, NO3-N, NH4-N, TSS	CLO3	FE, CR	T-P, TKN	Color	RA228EDD/RA226EDD (2 Bts)	CR	NO2-N, NO3-N, NH4-N	SAMPLER COMMENTS	
6:30 AM	2/5/2007		EFFLUENT	RSW	X		X	X	X	X	X	X	X	X	X				Revised SO #6534
7:00	2/5/2007		INFLUENT	RSW	X		X	X	X	X	X	X	X	X	X				Revised SO #6532

* MATRIX TYPES:

Reported by Volume:
 CFW = Chloraminated Finished Water
 FW = Other Finished Water

RGW = Raw Ground Water
 RSW = Raw Surface Water

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

Reported by Weight:
 SO = Soil
 SL = Sludge

RELINQUISHED BY: <u>Michele Brown</u>	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY: <u>Joe Sanchez</u>		Michele Brown	Veolia Water NA for Tronox LLC - Henderson Plant	2/5/2007	12:00 PM
RELINQUISHED BY:					
RECEIVED 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

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

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

Period
W Weekly
Week 1

SO# 33984 6532 RS **Sampler: Please Return this Paper with your samples**

Created by
Order Date 01/02/07
Date Needed by Client
SHIP LOCATION

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

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#

of Samples Tests Bottles-Qty for each sample, type & preservative if any UN# Important Comments

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
1	CLO4	1 125ml poly /no preservative		This is a weekly sample of
1	NH3, NH3-DIST,	1 125 ml poly+ 0.5ml H2SO4 (50%)	UN 2796	INFLUENT This cooler can be shipped out along with the IX-EFF 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 H
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	use a LARGE COOLER
1	NO2-N, NO3, N-INCR	1 500 ml poly / no preservative		#KERRINF for this site note to Login - notify Lisa when this sample comes in so she can run NO3 on her IC
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	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;
		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
 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#: 195318
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on **02/06/07**. 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
2702060566	EFFLUENT	@R226EDD @R228EDD @RADCWB CLO3 CR FE NH3-NH3-DIST NO2-N NO3 P PH T T-P TKN	Water	05-feb-2007 06:30:00
2702060567	INFLUENT	CLO3 CLO4 NH3-DIST NO2-N NO3 T-P TKN	Water	05-feb-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
#195318

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 duplicate QC for CL03. (TKN) Method Blank is greater than half the MRL. This does not meet method requirements. Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA. Nevada Cert PA91-2004-77 NH3 > TKN on influent sample. Likely signal suppression of TKN on this matrix based on matrix spike results on Influent matrix from an earlier sample. Note - Nitrite/nitrate on effluent rerun past hold time because initial within hold time run was not consistent with historical data- likely duplicate analysis of influent on 2/6.

(QC Ref#: 2702060566)

Test: Nitrite, Nitrogen by IC (ML/EPA 300.0)

H1-Sample analysis performed past holding time. Data not acceptable for regulatory compliance

Test: Nitrate as Nitrogen by IC (ML/EPA 300.0)

H1-Sample analysis performed past holding time. Data not acceptable for regulatory compliance



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Laboratory
Hits Report
#195318

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

Samples Received
06-feb-2007 16:08:27

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2702060566	EFFLUENT				
02/21/07		Radium 226	<0.177	3	pCi/l	0.18
02/21/07		Radium 226, Minimal Detectable	0.177		pCi/l	
02/21/07		Radium 226, Two Sigma Error	0.181		pCi/l	
02/16/07		Radium 228	<0.712	5	pCi/l	0.71
02/16/07		Radium 228, Minimum Detectable	0.712		pCi/l	
02/16/07		Radium 228, Two Sigma Error	0.378		pCi/l	
02/15/07		Alpha, Gross	13	15	pCi/l	8.6
02/15/07		Alpha, Min Detectable Activity	8.61		pCi/l	
02/15/07		Alpha, Two Sigma Error	8.70		pCi/l	
02/15/07		Gross Alpha + adjusted error	20.3		pCi/l	
02/10/07		Ammonia Nitrogen	0.225		mg/l	0.050
02/06/07		Apparent Color	10	15	ACU	3.0
02/12/07		Iron, Total, ICAP	1.0	0.3	mg/l	0.040
02/09/07		Kjeldahl Nitrogen	1.7		mg/l	0.20
02/08/07		Metals digestion performed.	Y		Yes/No	
02/07/07		PH (H3=past HT, not compliant)	7.4	6.5-8.5	Units	0.0010
02/13/07		Total Inorganic Nitrogen-Calc	0.22		mg/l	0.20
02/12/07		Total Suspended Solids (TSS)	10		mg/l	10
02/15/07		Total phosphorus-P	0.33		mg/l	0.050
	2702060567	INFLUENT				
02/10/07		Ammonia Nitrogen	1.83		mg/l	0.050
02/06/07		Apparent Color	5	15	ACU	3.0
02/08/07		Chlorate by IC	411000		ug/l	50000
02/07/07		Chromium, Total, ICAP	0.074		mg/l	0.020
02/13/07		Nitrate + Nitrite as N by RFA	16	10	mg/l	2.5
02/07/07		Nitrate as Nitrogen by IC	17	10	mg/l	5.0
02/09/07		Perchlorate	203000		ug/l	20000
02/13/07		Total Inorganic Nitrogen-Calc	19		mg/l	10

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#195318

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

Samples Received
06-feb-2007 16:08:27

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2702060567	INFLUENT				
02/15/07	Total phosphorus-P		0.22		mg/l	0.050



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Laboratory
Data Report
#195318

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

Samples Received
02/06/07

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
EFFLUENT (2702060566)								
				Sampled on 02/05/07 06:30				
	02/07/07 00:00	351706	(ML/EPA 300.0)	Chlorate by IC	ND	ug/l	50	5
	02/09/07 00:00	352192	(EPA 314)	Perchlorate	ND	ug/l	10	5
	02/06/07 00:00	351575	(ML/S2120B)	Apparent Color	10	ACU	3.0	1
	02/12/07 10:06	352541	(ML/EPA 200.7)	Chromium, Total, ICAP	ND	mg/l	0.020	2
	02/08/07 12:32		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	02/12/07 10:06	352545	(ML/EPA 200.7)	Iron, Total, ICAP	1.0	mg/l	0.040	2
	02/13/07 09:56	352778	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	0.22	mg/l	0.20	50
	02/10/07 00:00	352642	(ML/EPA 350.1)	Ammonia Nitrogen	0.225	mg/l	0.050	1
	02/07/07 13:12	351825	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND(H1)	mg/l	5.0	50
	02/07/07 13:26	351828	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND(H1)	mg/l	5.0	50
	02/07/07 00:00	351648	(4500HB/ E 150)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
	02/15/07 00:00	353387	(S4500PE/ 365.1)	Total phosphorus-P	0.33	mg/l	0.050	5
	02/09/07 17:25	352429	(ML/EPA 351.2)	Kjeldahl Nitrogen	1.7	mg/l	0.20	1
	02/12/07 15:03	352805	(ML/EPA 160.2)	Total Suspended Solids (TSS)	10	mg/l	10	1
Gross Alpha Radiation								
	02/15/07 00:00	353479	(ML/EPA 900.0)	Alpha, Gross	13	pCi/l	8.6	1
	02/15/07 00:00	353479	(ML/EPA 900.0)	Gross Alpha + adjusted error	20.3	pCi/l	0	1
	02/15/07 00:00	353479	(ML/EPA 900.0)	Alpha, Two Sigma Error	8.70	pCi/l	0	1
	02/15/07 00:00	353479	(ML/EPA 900.0)	Alpha, Min Detectable Activity	8.61	pCi/l	0	1
Radium 226 (Sub)								
	02/21/07 00:00		(EPA 903.1)	Radium 226	<0.177	pCi/l	0.18	1
	02/21/07 00:00		(EPA 903.1)	Radium 226, Two Sigma Error	0.181	pCi/l	0	1
	02/21/07 00:00		(EPA 903.1)	Radium 226, Minimal Detectable	0.177	pCi/l	0	1
Radium 228 (Sub)								
	02/16/07 00:00		(EPA 904.0)	Radium 228	<0.712	pCi/l	0.71	1
	02/16/07 00:00		(EPA 904.0)	Radium 228, Two Sigma Error	0.378	pCi/l	0	1
	02/16/07 00:00		(EPA 904.0)	Radium 228, Minimum Detectable	0.712	pCi/l	0	1



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Tronox LLC - Henderson
 (continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
INFLUENT (2702060567)				Sampled on 02/05/07 07:00				
	02/08/07 00:00	351962	(ML/EPA 300.0)	Chlorate by IC	411000	ug/l	50000	5000
	02/09/07 00:00	352192	(EPA 314)	Perchlorate	203000	ug/l	20000	5000
	02/06/07 00:00	351575	(ML/S2120B)	Apparent Color	5	ACU	3.0	1
	02/07/07 02:51	351606	(ML/EPA 200.7)	Chromium, Total, ICAP	0.074	mg/l	0.020	2
	02/13/07 09:56	352778	(ML/EPA 300.0)	Total Inorganic Nitrogen-Calc	19	mg/l	10	50
	02/10/07 00:00	352642	(ML/EPA 350.1)	Ammonia Nitrogen	1.83	mg/l	0.050	1
	02/07/07 05:49	351718	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
	02/07/07 05:49	351721	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	17	mg/l	5.0	50
	02/13/07 17:55	353009	(ML/EPA 353.2)	Nitrate + Nitrite as N by RPA	16	mg/l	2.5	25
	02/15/07 00:00	353387	(S4500PE/ 365.1)	Total phosphorus-P	0.22	mg/l	0.050	5
	02/09/07 17:25	352429	(ML/EPA 351.2)	Kjeldahl Nitrogen	ND	mg/l	0.20	1



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Laboratory
QC Summary
#195318

Tronox LLC - Henderson

QC Ref #351575	- Apparent Color	Analysis Date: 02/06/2007
2702060566	EFFLUENT	Analyzed by: sar
2702060567	INFLUENT	Analyzed by: sar
QC Ref #351606	- Chromium, Total, ICAP	Analysis Date: 02/07/2007
2702060567	INFLUENT	Analyzed by: wbh
QC Ref #351648	- PH (H3=past HT, not compliant)	Analysis Date: 02/07/2007
2702060566	EFFLUENT	Analyzed by: jxl
QC Ref #351706	- Chlorate by IC	Analysis Date: 02/07/2007
2702060566	EFFLUENT	Analyzed by: raja
QC Ref #351718	- Nitrite, Nitrogen by IC	Analysis Date: 02/07/2007
2702060567	INFLUENT	Analyzed by: jkz
QC Ref #351721	- Nitrate as Nitrogen by IC	Analysis Date: 02/07/2007
2702060567	INFLUENT	Analyzed by: jkz
QC Ref #351825	- Nitrite, Nitrogen by IC	Analysis Date: 02/07/2007
2702060566	EFFLUENT	Analyzed by: jkz
QC Ref #351828	- Nitrate as Nitrogen by IC	Analysis Date: 02/07/2007
2702060566	EFFLUENT	Analyzed by: jkz



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Laboratory
QC Summary
#195318

Tronox LLC - Henderson
(continued)

QC Ref #351902 - Chlorate by IC		Analysis Date: 02/08/2007
2702060567	INFLUENT	Analyzed by: raja
QC Ref #352192 - Perchlorate		Analysis Date: 02/09/2007
2702060566	EFFLUENT	Analyzed by: raja
2702060567	INFLUENT	Analyzed by: raja
QC Ref #352429 - Kjeldahl Nitrogen		Analysis Date: 02/09/2007
2702060566	EFFLUENT	Analyzed by: bxr
2702060567	INFLUENT	Analyzed by: bxr
QC Ref #352541 - Chromium, Total, ICAP		Analysis Date: 02/12/2007
2702060566	EFFLUENT	Analyzed by: wbh
QC Ref #352545 - Iron, Total, ICAP		Analysis Date: 02/12/2007
2702060566	EFFLUENT	Analyzed by: wbh
QC Ref #352642 - Ammonia Nitrogen		Analysis Date: 02/10/2007
2702060566	EFFLUENT	Analyzed by: dav
2702060567	INFLUENT	Analyzed by: dav
QC Ref #352778 - Total Inorganic Nitrogen-Calc		Analysis Date: 02/13/2007
2702060566	EFFLUENT	Analyzed by: dwr
2702060567	INFLUENT	Analyzed by: dwr



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QC Summary
#195318

Tronox LLC - Henderson
(continued)

QC Ref #352805	- Total Suspended Solids (TSS)	Analysis Date: 02/12/2007
2702060566	EFFLUENT	Analyzed by: anh
QC Ref #353009	- Nitrate + Nitrite as N by RFA	Analysis Date: 02/13/2007
2702060567	INFLUENT	Analyzed by: maria
QC Ref #353387	- Total phosphorus-P	Analysis Date: 02/15/2007
2702060566	EFFLUENT	Analyzed by: dtn
2702060567	INFLUENT	Analyzed by: dtn
QC Ref #353479	- Gross Alpha Radiation	Analysis Date: 02/15/2007
2702060566	EFFLUENT	Analyzed by: ajc



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QC Report
#195318

Tronox LLC - Henderson

QC Ref #351575 Apparent Color

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

QC Ref #351606 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.960	MGL	96.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.956	MGL	95.6	(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	0.958	MGL	95.8	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.977	MGL	97.7	(70-130)	

QC Ref #351648 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02060460	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	7.60	7.62	UNIT		(0-20)	0.3

QC Ref #351706 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02060021	UGL		(0-0)	
LCS1	Chlorate by IC	200	195	UGL	97.5	(75-125)	
LCS2	Chlorate by IC	200	197	UGL	98.5	(75-125)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	11.4	UGL	114.0	(50-150)	
MS	Chlorate by IC	100	99.2	UGL	99.2	(75-125)	
MSD	Chlorate by IC	100	91.1	UGL	91.1	(75-125)	
RPD_LCS	Chlorate by IC	97.500	98.500	UGL	1.0	(0-20)	
RPD_MS	Chlorate by IC	99.200	91.100	UGL	8.5	(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 #351718 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02060425	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	0.985	MGL	98.5	(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			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0438	MGL	87.6	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.514	MGL	102.8	(90-110)	
MSD	Nitrite, Nitrogen by IC	0.500	0.521	MGL	104.2	(90-110)	
RPD_LCS	Nitrite, Nitrogen by IC	98.500	103.000	MGL	4.5	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	102.800	104.200	MGL	1.4	(0-20)	

QC Ref #351721 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02060425	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.37	MGL	94.8	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.45	MGL	98.0	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0458	MGL	91.6	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.21	MGL	96.8	(90-110)	
MSD	Nitrate as Nitrogen by IC	1.25	1.21	MGL	96.8	(90-110)	
RPD_LCS	Nitrate as Nitrogen by IC	94.800	98.000	MGL	3.3	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	96.800	96.800	MGL	0.0	(0-20)	

QC Ref #351825 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02060236	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	0.989	MGL	98.9	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	1.02	MGL	102.0	(90-110)	

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QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0524	MGL	104.8	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.505	MGL	101.0	(90-110)	
MSD	Nitrite, Nitrogen by IC	0.500	0.510	MGL	102.0	(90-110)	
RPD_LCS	Nitrite, Nitrogen by IC	98.900	102.000	MGL	3.1	(0-20)	
RPD_MS	Nitrite, Nitrogen by IC	101.000	102.000	MGL	1.0	(0-20)	

QC Ref #351828 Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02060236	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.39	MGL	95.6	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.42	MGL	96.8	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0462	MGL	92.4	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.22	MGL	97.6	(90-110)	
MSD	Nitrate as Nitrogen by IC	1.25	1.22	MGL	97.6	(90-110)	
RPD_LCS	Nitrate as Nitrogen by IC	95.600	96.800	MGL	1.2	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	97.600	97.600	MGL	0.0	(0-20)	

QC Ref #351902 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02070101	UGL		(0-0)	
LCS1	Chlorate by IC	200	197	UGL	98.5	(75-125)	
LCS2	Chlorate by IC	200	194	UGL	97.0	(75-125)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.0	10.2	UGL	102.0	(50-150)	
MS	Chlorate by IC	100	89.9	UGL	89.9	(75-125)	
MSD	Chlorate by IC	100	90.4	UGL	90.4	(75-125)	
RPD_LCS	Chlorate by IC	98.500	97.000	UGL	1.5	(0-20)	
RPD_MS	Chlorate by IC	89.900	90.400	UGL	0.6	(0-20)	

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QC Ref #352192

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02060700	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.2	UGL	92.8	(85-115)	
LCS2	Perchlorate	25.0	22.9	UGL	91.6	(85-115)	
LCS3	Perchlorate	4	3.01	UGL	75.2	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	21.6	UGL	86.4	(70-130)	
MSD	Perchlorate	25.0	20.1	UGL	80.4	(70-130)	
RPD_LCS	Perchlorate	92.800	91.600	UGL	1.3	(0-20)	
RPD_MS	Perchlorate	86.400	80.400	UGL	7.2	(0-20)	

QC Ref #352429

Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01230117	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	3.85	MGL	96.2	(90-110)	
LCS2	Kjeldahl Nitrogen	4	3.99	MGL	99.8	(90-110)	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MS	Kjeldahl Nitrogen	4	2.75	MGL	<u>68.8</u>	(90-110)	
MSD	Kjeldahl Nitrogen	4	2.75	MGL	<u>68.8</u>	(90-110)	
RPD_LCS	Kjeldahl Nitrogen	96.250	99.750	MGL	3.6	(0-20)	
RPD_MS	Kjeldahl Nitrogen	68.750	68.750	MGL	0.0	(0-20)	

QC Ref #352541

Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.885	MGL	88.5	(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	0.0096	MGL	96.0	(50-150)	

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MS	Chromium, Total, ICAP	1.00	0.955	MGL	95.5	(70-130)
MSD	Chromium, Total, ICAP	1.00	0.937	MGL	93.7	(70-130)

QC Ref #352545 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.52	MGL	90.4	(85-115)	
LCS2	Iron, Total, ICAP	5.0	4.84	MGL	96.8	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0212	MGL	106.0	(50-150)	
MS	Iron, Total, ICAP	5.0	4.91	MGL	98.2	(70-130)	
MSD	Iron, Total, ICAP	5.0	4.91	MGL	98.2	(70-130)	
RPD_MS	Iron, Total, ICAP	98.200	98.200	MGL	0.0	(0-20)	

QC Ref #352642 Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02030075	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.06	MGL	106.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.05	MGL	105.0	(90-110)	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MS	Ammonia Nitrogen	1.00	0.902	MGL	90.2	(90-110)	
MSD	Ammonia Nitrogen	1.00	0.895	MGL	<u>89.5</u>	(90-110)	
RPD_LCS	Ammonia Nitrogen	106.000	105.000	MGL	0.9	(0-20)	
RPD_MS	Ammonia Nitrogen	90.200	89.500	MGL	0.8	(0-20)	

QC Ref #352805 Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02060566	MGL		(0-0)	
LCS1	Total Suspended Solids (TSS)	175	164	MGL	93.7	(80-120)	
LCS2	Total Suspended Solids (TSS)	175	166	MGL	94.9	(80-120)	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			

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QC Ref #353009 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	02120266	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.94	MGL	94.0	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.90	MGL	90.0	(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	0.88	MGL	<u>88.0</u>	(90-110)	
MSD	Nitrate + Nitrite as N by RFA	1.0	0.91	MGL	91.0	(90-110)	

QC Ref #353387 Total phosphorus-P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 27	01240320	MGL		(0-0)	
LCS1	Total phosphorus-P	0.5	0.468	MGL	93.6	(90-110)	
LCS2	Total phosphorus-P	0.5	0.492	MGL	98.4	(90-110)	
MBLK	Total phosphorus-P	ND	<0.020	MGL			
MS	Total phosphorus-P	0.5	0.529	MGL	105.8	(90-110)	
MSD	Total phosphorus-P	0.5	0.517	MGL	103.4	(90-110)	
RPD_LCS	Total phosphorus-P	93.600	98.400	MGL	5.0	(0-10)	
RPD_MS	Total phosphorus-P	105.800	103.400	MGL	2.3	(0-20)	

QC Ref #353479 Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 27	02060021	PCIL		(0-0)	
DUP	Alpha, Gross	ND	ND	PCIL		(0-20)	
LCS1	Alpha, Gross	16.6	18.6	PCIL	112.0	(80-120)	
LCS2	Alpha, Gross	16.6	19.4	PCIL	116.9	(80-120)	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	40.3	PCIL	121.4	(70-130)	

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RPD_LCS	Alpha, Gross	112.048	116.867	PCIL	4.2	(0-20)
DUP	Beta, Gross	ND	ND	PCIL		(0-20)
LCS1	Beta, Gross	15.7	15.0	PCIL	95.5	(80-120)
LCS2	Beta, Gross	15.7	15.6	PCIL	99.4	(80-120)
MBLK	Beta, Gross	ND	<3.0	PCIL		
MS	Beta, Gross	31.4	32.6	PCIL	103.8	(70-130)
RPD_LCS	Beta, Gross	95.541	99.363	PCIL	3.9	(0-20)

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