



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

DATE OF ISSUE
Jul 01 2009
MWH LABORATORIES

ADE Andy Eaton
Project Manager



Report#: 271687
Project: CLO4
PO#: Susan Crowle

This report shall not be reproduced except in full, without the written approval of the laboratory.
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].



MWH

BUILDING A BETTER WORLD

July 2, 2009

Ms. Susan Crowley
Tronox
PO Box 55
Henderson, NV 89009

Subject: Case Narrative report 271687

Sample receipt: The samples arrived at MWH on June 09, 2009, with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative:

For the MWH Laboratories data the following issues were observed:

Note that two of the quad samples were re-analyzed for TOX past hold time because the initial results did not match the other two quadruplicates and it was suspected that there was an analytical problem with the first analysis.

Note that for ion chromatography tests such as perchlorate, the exact analysis time is not shown on the report. Only the date of analysis appears. The time normally defaults to 00:00.

If you have any questions, do not hesitate to contact us.

Sincerely yours,

Andrew Eaton, PhD
Project Manager



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

271687

M/LABS USE ONLY:

SCANNED

SAMPLES CHECKED/LOGGED IN BY: JS/JS

SAMPLE TEMP, RECEIPT AT LAB: 4°

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

750 Royal Oaks Dr, Suite 100, Monrovia, CA 91016-3629

(626) 568-6400 (800) 566-5227

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME

PROJECT JOB # / P.O.#

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

Annual Groundwater Sampling - April / May

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX*	GRAB	COMP	pH	Specific Conductance	Total Chromium	Hexavalent Chromium	Perchlorate, ClO ₄	TDS	T69060	PHENOL 96	TDX	TE 6010 UN6010	CAR 6010 NA 6010	PH 9610	CL 5052	CL 5052	CL 5052	CL 5052	SAMPLER COMMENTS
0752	06/06/09	M-7B		RGW	X						X	X	X	X	X	X	X	X	X	X	X	X	

Tronox LLC
 PO Box 55
 Henderson, NV 89009
 (702) 651-2234

Tronox LLC

Sampler Davis

* 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

RELINQUISHED BY: [Signature]

RECEIVED BY: Joe Sanchez

RELINQUISHED BY: Joe Sanchez

RECEIVED BY: Greg Geologist

DATE: 6-8-09

TIME: 12:00

DATE: 6-9-09

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 Kerr McGee Chemical Company - 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

A Annual

Period

Week 1

SO# 47276 16933 RS Sampler: Please Return this Paper with your samples

Created by GJY

Order Date 03/16/09

Date Needed by Client

Date Samples to Arrive at MWL

SHIP LOCATION

0 Ship Sample Kits to
Kerr McGee
8000 West Lake Mead Drive
Henderson, NV 89015

Send Report to
Kerr McGee Henderson Plant
P.O. Box 55
Henderson, NV 89009

Billing Address
Kerr McGee Henderson Plant
P.O. Box 55
Henderson, NV 89009

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

Quote# GJY

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
16	TOC9060	1 125ml amber glass + 0.5ml H2SO4(50%)	UN 2796	LANDFILL WELLS: M-5A, M-6A, M-7A, H-28A
4	TOX	4 250ml amber glass + 1ml H2SO4	UN 2796	
16	PH9040, EC9050	1 125ml poly/ no preservative		
4	SO49056, CL9056	1 125ml poly/ no preservative		
4	FE6010, MN6010, CR6010, NA6010	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	LOGIN - Please assign 4 lab numbers to each of the quadruplicate tests - TOX, TOC, EC, PH
4	PHENOL96	1 500ml amber glass+ 1ml H2S2O4(50%)	UN 2796	
4	TDS,	1 125ml poly/ no preservative		FOR APRIL SAMPLING EVENT Testcodes updated 3-16-06
4	CLO4	1 125ml poly /no preservative AMBER IF WITH CLO3!		
-	-	-	-	TDS and CLO4 added 6/16/06. (not in quad)
-	-	-	-	note to login - please add location code on each of these at login - Quad1, Quad2, Quad3, Quad4 for the 4 replicates of each well for

Prepared By

Carrier Qty of Coolers Tracking Number

Date Shipped

ActiveCode Status

From: Origin ID: LASA (702) 651-2230
Shipping
Tronox LLC
8000 lake Mead parkway

henderson, NV 89015



Ship Date: 08JUN09
ActWgt: 26.6 LB
CAD: 100263135/NET9011
Account#: S *****
Dims: 21 X 15 X 15 IN

Delivery Address Bar Code



Ref # 20092544V1
Invoice #
PO #
Dept #

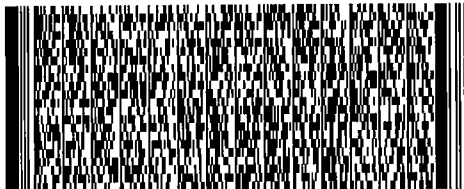
SHIP TO: (626) 568-6400 BILL SENDER

sample receiving
Montgomery Watson labs
750 ROYAL OAKS DR # 100

MONROVIA, CA 91016

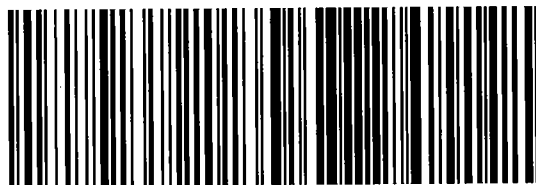
TRK# 7976 6048 2792
0201

TUE - 09JUN A2
PRIORITY OVERNIGHT
DSR



QZ WHPA

91016
CA-US
BUR



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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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#: 271687
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on 06/09/09. 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
2906090099	M-7B	CL9056 CLO4 NA6010 P TDS TOC9060	Water CR6010 EC9050 PH9040 PHENOL TOX	08-jun-2009 07:52:00 FE6010 MN6010 SO49056 T
2906090100	M-7B	EC9050 PH9040	Water TOC9060 TOX	08-jun-2009 07:52:00
2906090101	M-7B	EC9050 PH9040	Water TOC9060 TOX	08-jun-2009 07:52:00
2906090102	M-7B	EC9050 PH9040	Water TOC9060 TOX	08-jun-2009 07:52:00

Test Acronym Description

Test Acronym	Description
CL9056	Chloride
CLO4	Perchlorate
CR6010	Chromium, Total, ICAP
EC9050	Specific Conductance
FE6010	Iron, Total, ICAP
MN6010	Manganese, Total, ICAP
NA6010	Sodium, Total, ICAP
P	Metals sample pH
PH9040	PH (H3=past HT, not compliant)
PHENOL	Phenolic Compounds
SO49056	Sulfate
T	Metals Turbidity
TDS	Total Dissolved Solid (TDS)
TOC9060	Total Organic Carbon
TOX	Total Organic Halogen



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Report
Comments
#271687

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.

Signature: _____

(QC Ref#: 2906090099)

Test: Phenolic Compounds (MWH 420/SW9066)

L4 - The associated blank spike recovery was below method acceptance limits.

Test: Total Organic Halogen (SW9020/SM5320)

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

(QC Ref#: 2906090100)

Test: Total Organic Halogen (SW9020/SM5320)

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



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Laboratory
Hits Report
#271687

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

Samples Received
09-jun-2009 15:35:57

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906090099	M-7B				
06/18/09	Chloride		3600		mg/l	100
06/16/09	Iron, Total, ICAP		0.34		mg/l	0.20
06/16/09	Manganese, Total, ICAP		0.012		mg/l	0.0020
06/15/09	Metals digestion performed.		Y		Yes/No	
06/09/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
06/17/09	Perchlorate		52400		ug/l	4000
06/19/09	Sodium, Total, ICAP		1300		mg/l	10
06/10/09	Specific Conductance		12200		umho/cm	2.0
06/13/09	Sulfate		1500		mg/l	25
06/10/09	Total Dissolved Solid (TDS)		8950	500	mg/l	10
06/17/09	Total Organic Carbon		1.1		mg/l	0.30
06/23/09	Total Organic Halogen		1440		ug/l	500
	2906090100	M-7B				
06/09/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
06/10/09	Specific Conductance		12100		umho/cm	2.0
06/17/09	Total Organic Carbon		1.0		mg/l	0.30
06/23/09	Total Organic Halogen		1100		ug/l	500
	2906090101	M-7B				
06/09/09	PH (H3=past HT, not compliant)		7.5		Units	0.0010
06/10/09	Specific Conductance		12200		umho/cm	2.0
06/17/09	Total Organic Carbon		1.1		mg/l	0.30
06/19/09	Total Organic Halogen		1450		ug/l	500
	2906090102	M-7B				
06/09/09	PH (H3=past HT, not compliant)		7.4		Units	0.0010



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Laboratory
Hits Report
#271687

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

Samples Received
09-jun-2009 15:35:57

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2906090102	M-7B				
06/10/09			Specific Conductance	12200	umho/cm	2.0
06/17/09			Total Organic Carbon	1.1	mg/l	0.30
06/19/09			Total Organic Halogen	1390	ug/l	500



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Laboratory
Data Report
#271687

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

Samples Received
06/09/09

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-7B (2906090099)				Sampled on 06/08/09 07:52				
	06/18/09 17:44	488383	(ML/EPA 9056)	Chloride	3600	mg/l	100	100
	06/17/09 02:37	488222	(EPA 314)	Perchlorate	52400	ug/l	4000	1000
06/15/09	06/16/09 00:00	488241	(ML/EPA 6010B)	Chromium, Total, ICAP	ND	mg/l	0.010	1
	06/15/09 11:54		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	06/10/09 13:48	487702	(ML/EPA 9050A)	Specific Conductance	12200	umho/cm	2.0	1
06/15/09	06/16/09 23:40	488242	(ML/EPA 6010B)	Iron, Total, ICAP	0.34	mg/l	0.20	10
06/15/09	06/16/09 23:40	488243	(ML/EPA 6010B)	Manganese, Total, ICAP	0.012	mg/l	0.0020	1
06/15/09	06/19/09 10:06	488429	(ML/EPA 6010B)	Sodium, Total, ICAP	1300	mg/l	10	10
	06/09/09 14:47	487634	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
06/22/09	06/23/09 16:30	489035	(MWH 420/SW9066)	Phenolic Compounds	ND(L4)	mg/l	0.010	1
	06/13/09 00:56	488289	(ML/EPA 9056)	Sulfate	1500	mg/l	25	50
06/10/09	06/10/09 20:15	487751	(E160.1/SM2540C)	Total Dissolved Solid (TDS)	8950	mg/l	10	1
	06/17/09 08:10	488249	(ML/EPA 9060)	Total Organic Carbon	1.1	mg/l	0.30	1
	06/23/09 00:00	488767	(SW9020/SM5320)	Total Organic Halogen	1440(H1)	ug/l	500	50
M-7B (2906090100)				Sampled on 06/08/09 07:52				
	06/10/09 13:48	487702	(ML/EPA 9050A)	Specific Conductance	12100	umho/cm	2.0	1
	06/09/09 14:47	487634	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
	06/17/09 08:10	488249	(ML/EPA 9060)	Total Organic Carbon	1.0	mg/l	0.30	1
	06/23/09 00:00	488767	(SW9020/SM5320)	Total Organic Halogen	1100(H1)	ug/l	500	50
M-7B (2906090101)				Sampled on 06/08/09 07:52				
	06/10/09 13:48	487702	(ML/EPA 9050A)	Specific Conductance	12200	umho/cm	2.0	1
	06/09/09 14:47	487634	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.5	Units	0.0010	1
	06/17/09 08:10	488249	(ML/EPA 9060)	Total Organic Carbon	1.1	mg/l	0.30	1
	06/19/09 07:03	488770	(SW9020/SM5320)	Total Organic Halogen	1450	ug/l	500	50



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Laboratory
Data Report
#271687

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
M-7B (2906090102)				Sampled on 06/08/09 07:52				
	06/10/09 13:48	487702	(ML/EPA 9050A)	Specific Conductance	12200	umho/cm	2.0	1
	06/09/09 14:47	487635	(ML/EPA 9040B)	PH (H3=past HT, not compliant)	7.4	Units	0.0010	1
	06/17/09 08:10	488249	(ML/EPA 9060)	Total Organic Carbon	1.1	mg/l	0.30	1
	06/19/09 07:03	488770	(SW9020/SM5320)	Total Organic Halogen	1390	ug/l	500	50



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Laboratory
QC Summary
#271687

Tronox LLC - Henderson

QC Ref #487634 - PH (H3=past HT, not compliant) Analysis Date: 06/09/2009

2906090099	M-7B	Analyzed by: nem
2906090100	M-7B	Analyzed by: nem
2906090101	M-7B	Analyzed by: nem

QC Ref #487635 - PH (H3=past HT, not compliant) Analysis Date: 06/09/2009

2906090102	M-7B	Analyzed by: nem
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QC Ref #487702 - Specific Conductance Analysis Date: 06/10/2009

2906090099	M-7B	Analyzed by: nem
2906090100	M-7B	Analyzed by: nem
2906090101	M-7B	Analyzed by: nem
2906090102	M-7B	Analyzed by: nem

QC Ref #487751 - Total Dissolved Solid (TDS) Analysis Date: 06/10/2009

2906090099	M-7B	Analyzed by: maria
------------	------	--------------------

QC Ref #488222 - Perchlorate Analysis Date: 06/17/2009

2906090099	M-7B	Analyzed by: ser
------------	------	------------------

QC Ref #488241 - Chromium, Total, ICAP Analysis Date: 06/16/2009

2906090099	M-7B	Analyzed by: csk
------------	------	------------------

QC Ref #488242 - Iron, Total, ICAP Analysis Date: 06/16/2009

2906090099	M-7B	Analyzed by: csk
------------	------	------------------



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Laboratory
QC Summary
#271687

Tronox LLC - Henderson
(continued)

QC Ref #488243 - Manganese, Total, ICAP

2906090099 M-7B

Analysis Date: 06/16/2009

Analyzed by: csk

QC Ref #488249 - Total Organic Carbon

2906090099 M-7B
2906090100 M-7B
2906090101 M-7B
2906090102 M-7B

Analysis Date: 06/17/2009

Analyzed by: kxs
Analyzed by: kxs
Analyzed by: kxs
Analyzed by: kxs

QC Ref #488289 - Sulfate

2906090099 M-7B

Analysis Date: 06/13/2009

Analyzed by: sxk

QC Ref #488383 - Chloride

2906090099 M-7B

Analysis Date: 06/18/2009

Analyzed by: sxk

QC Ref #488429 - Sodium, Total, ICAP

2906090099 M-7B

Analysis Date: 06/19/2009

Analyzed by: csk

QC Ref #488767 - Total Organic Halogen

2906090099 M-7B
2906090100 M-7B

Analysis Date: 06/23/2009

Analyzed by: kxs
Analyzed by: kxs

QC Ref #488770 - Total Organic Halogen

2906090101 M-7B
2906090102 M-7B

Analysis Date: 06/19/2009

Analyzed by: kxs
Analyzed by: kxs



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Laboratory
QC Summary
#271687

Tronox LLC - Henderson
(continued)

QC Ref #489035 - Phenolic Compounds

2906090099

M-7B

Analysis Date: 06/23/2009

Analyzed by: azs



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 Monrovia, California 91016-3629
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Laboratory
 QC Report
 #271687

Tronox LLC - Henderson

QC Ref #487634 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.70	7.73	UNIT		(0-20)	0.4

QC Ref #487635 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	PH (H3=past HT, not compliant)	7.42	7.48	UNIT		(0-20)	0.8

QC Ref #487702 Specific Conductance

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Specific Conductance	682	676	UMHO		(0-20)	0.9
MRL_CHK	Specific Conductance	2.000	1.97	UMHO	98.5	(50-150)	

QC Ref #487751 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06090099	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	8950	8850	MGL		(0-10)	1.1
LCS1	Total Dissolved Solid (TDS)	175	174	MGL	99.4	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	662	MGL	94.6	(80-114)	
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			
MRL_CHK	Total Dissolved Solid (TDS)	10.0	13.0	MGL	130.0	(50-150)	
RPD_LCS	Total Dissolved Solid (TDS)	99.429	94.571	MGL	5.0	(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 #488222 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06110138	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.5	UGL	98.0	(85-115)	
LCS2	Perchlorate	25.0	23.9	UGL	95.6	(85-115)	
LCS3	Perchlorate	4	4.40	UGL	110.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	24.7	UGL	98.8	(80-120)	
MSD	Perchlorate	25.0	23.9	UGL	95.6	(80-120)	
RPD_LCS	Perchlorate	98.000	95.600	UGL	2.5	(0-15)	
RPD_MS	Perchlorate	98.800	95.600	UGL	1.0	(0-15)	

QC Ref #488241 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06030037	MGL		(0-0)	
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.0099	MGL	99.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.01	MGL	101.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.00	MGL	100.0	(70-130)	

QC Ref #488242 Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06030037	MGL		(0-0)	
LCS1	Iron, Total, ICAP	5.0	5.10	MGL	102.0	(85-115)	
LCS2	Iron, Total, ICAP	5.0	5.11	MGL	102.2	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0215	MGL	107.5	(50-150)	

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MS	Iron, Total, ICAP	5.0	5.17	MGL	103.4	(70-130)
MSD	Iron, Total, ICAP	5.0	4.96	MGL	99.2	(70-130)

QC Ref #488243 Manganese, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06030037	MGL		(0-0)	
LCS1	Manganese, Total, ICAP	0.50	0.532	MGL	106.4	(85-115)	
LCS2	Manganese, Total, ICAP	0.50	0.529	MGL	105.8	(85-115)	
MBLK	Manganese, Total, ICAP	ND	<0.0020	MGL			
MRL_CHK	Manganese, Total, ICAP	0.002	0.0014	MGL	70.0	(50-150)	
MS	Manganese, Total, ICAP	0.50	0.526	MGL	105.2	(70-130)	
MSD	Manganese, Total, ICAP	0.50	0.515	MGL	103.0	(70-130)	

QC Ref #488249 Total Organic Carbon

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 200906090530		MGL		(0-0)	
LCS1	Total Organic Carbon	5.0	4.98	MGL	99.6	(50-150)	
LCS2	Total Organic Carbon	5.0	5.04	MGL	100.8	(90-110)	
MBLK	Total Organic Carbon	ND	<0.30	MGL			
MRL_CHK	Total Organic Carbon	0.200	0.231	MGL	115.5	(50-150)	
MS	Total Organic Carbon	4.0	3.73	MGL	93.2	(80-120)	
MSD	Total Organic Carbon	4.0	3.98	MGL	99.5	(80-120)	
RPD_LCS	Total Organic Carbon	99.600	100.800	MGL	1.2	(0-20)	
RPD_MS	Total Organic Carbon	93.250	99.500	MGL	6.5	(0-20)	

QC Ref #488289 Sulfate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	200906120063	MGL		(0-0)	
LCS1	Sulfate	50	48.9	MGL	97.8	(90-110)	
LCS2	Sulfate	50	49.1	MGL	98.2	(90-110)	

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QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MBLK	Sulfate	ND	<0.50	MGL			
MRL_CHK	Sulfate	0.500	0.266	MGL	53.2	(50-150)	
MS	Sulfate	25	25.7	MGL	102.8	(84-130)	
MSD	Sulfate	25	25.9	MGL	103.6	(84-130)	
RPD_LCS	Sulfate	97.800	98.200	MGL	0.4	(0-20)	
RPD_MS	Sulfate	102.800	103.600	MGL	0.8	(0-20)	

QC Ref #488383 Chloride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	200906190068	MGL		(0-0)	
LCS1	Chloride	25	24.5	MGL	98.0	(90-110)	
LCS2	Chloride	25	24.5	MGL	98.0	(90-110)	
MBLK	Chloride	ND	<1.0	MGL			
MRL_CHK	Chloride	0.500	0.391	MGL	78.2	(50-150)	
MS	Chloride	12.5	11.3	MGL	90.4	(74-138)	
MSD	Chloride	12.5	11.3	MGL	90.4	(74-138)	
RPD_LCS	Chloride	98.000	98.000	MGL	0.0	(0-20)	
RPD_MS	Chloride	90.400	90.400	MGL	0.0	(0-20)	

QC Ref #488429 Sodium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 29	06030037	MGL		(0-0)	
LCS1	Sodium, Total, ICAP	50	52.1	MGL	104.2	(85-115)	
LCS2	Sodium, Total, ICAP	50	51.9	MGL	103.8	(85-115)	
MBLK	Sodium, Total, ICAP	ND	<1.0	MGL			
MRL_CHK	Sodium, Total, ICAP	1.000	0.985	MGL	98.5	(50-150)	
MS	Sodium, Total, ICAP	50	49.1	MGL	98.2	(70-130)	
MSD	Sodium, Total, ICAP	50	48.9	MGL	97.8	(70-130)	
RPD_LCS	Sodium, Total, ICAP	104.200	103.800	MGL	0.4	(0-20)	
RPD_MS	Sodium, Total, ICAP	98.200	97.800	MGL	0.4	(0-20)	

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QC Ref #488767 Total Organic Halogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06100166	UGL		(0-0)	
LCS1	Total Organic Halogen	10	11.0	UGL	110.0	(85-115)	
LCS2	Total Organic Halogen	200	207	UGL	103.5	(85-115)	
MBLK	Total Organic Halogen	ND	<10	UGL			
MS	Total Organic Halogen	100	96.8	UGL	96.8	(90-110)	
MSD	Total Organic Halogen	100	93.2	UGL	93.2	(90-110)	

QC Ref #488770 Total Organic Halogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06090099	UGL		(0-0)	
LCS1	Total Organic Halogen	10	10.3	UGL	103.0	(85-115)	
LCS2	Total Organic Halogen	200	196	UGL	98.0	(85-115)	
MBLK	Total Organic Halogen	ND	<10	UGL			
MS	Total Organic Halogen	100	106	UGL	106.0	(90-110)	
MSD	Total Organic Halogen	100	99	UGL	99.0	(90-110)	

QC Ref #489035 Phenolic Compounds

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 29	06050137	MGL		(0-0)	
LCS1	Phenolic Compounds	0.08	0.046	MGL	<u>57.5</u>	(90-110)	
LCS2	Phenolic Compounds	0.08	0.070	MGL	<u>87.5</u>	(90-110)	
MBLK	Phenolic Compounds	ND	<0.010	MGL			
MRL_CHK	Phenolic Compounds	0.010	0.0074	MGL	74.0	(50-150)	
MS	Phenolic Compounds	0.08	0.079	MGL	98.8	(90-110)	
MSD	Phenolic Compounds	0.08	0.078	MGL	97.5	(90-110)	

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