



# MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100  
Monrovia, California 91016-3829  
Tel: 626 386 1100  
Fax: 626 386 1101  
1 800 566 LABS (1 800 566 5227)

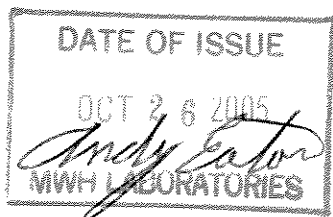
## Laboratory Report

for

Tronox LLC - Henderson  
PO Box 55

Henderson , NV 89009

Attention: Susan Crowley  
Fax: 702-651-2310



ADE Andy Eaton  
Project Manager



Report#: 158975  
CLO4

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 6 page[s].



MONTGOMERY WATSON LABORATORIES

# CHAIN OF CUSTODY RECORD

158995

MW LABS USE ONLY:

750 Royal Oaks Drive, Suite 100, Montrovia, CA 91016-3629  
(626) 568-6400 (800) 566-5227

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: [Signature]

SAMPLE TEMP, RECEIPT AT LAB: 20

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: **KERRMCGEE-MP**  
 PROJECT JOB # / P.O.#: **Weekly Cr Consent Order Compliance Samples**  
 ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	ANALYSES REQUIRED				SAMPLER COMMENTS
							Total Cr	Hexavalent Chromium	Total Cr <sub>2</sub> O <sub>3</sub>	NO <sub>3</sub> as N	
10:00 AM	10-9-11, 13-05		GWTP Discharge	RSW		X	X	X	X		Total Cr sample preserved with HNO <sub>3</sub> .
10:00 AM	10/13/2005		GWTP West Well Feed	RSW	X		X	X			Total Cr sample preserved with HNO <sub>3</sub> .
10:00 AM	10/13/2005		GWTP East Well Feed	RSW	X		X	X			Total Cr sample preserved with HNO <sub>3</sub> .
											East & West CLO4 added beginning 11-11-04

\* MATRIX TYPES: **Reported by Volume:**  
 CFW = Chlor(am)inated Finished Water  
 FW = Other Finished Water

**Reported by Weight:**  
 SO = Soil  
 SL = Sludge

RGW = Raw Ground Water  
 RSW = Raw Surface Water  
 CW = Chlorinated Waste Water  
 WW = Other Waste Water  
 SW = Storm Water

RELINQUISHED BY: [Signature] SIGNATURE  
 RECEIVED BY: [Signature] PRINT NAME  
 RELINQUISHED BY: [Signature] COMPANY TITLE  
 RECEIVED BY: [Signature] DATE: 10/13/2005 TIME: 12:00



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

Period

W Weekly

Week 1

SO# 26528 16287 RS

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

Created by LXG

Order Date

09/30/05

Date Needed by Client

10/07/05

Date Samples to Arrive at MWL

SHIP LOCATION

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

Send Report to

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

Billing Address

KMCLLC  
attn: Contract 304280  
P.O. Box 3049  
Livonia, MI 48150

ATTN: Susan Crowley  
PHONE: 702-651-2234

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

Quote#

LXG

# 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
3	CR	1 250 ml poly acid rinsed + 1ml HNO3 (18%)	UN 2031	GWTP WEST WELL FEED
3	CR-VI	1 125ml poly acid rinsed/ no preservative SHORT HOLDING TIME!!!!		GWTP EAST WELL FEED
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n	UN 1604	GWTP DISCHARGE
3	CLO4	1 125ml poly /no preservative AMBER IF WITH CLO3!		CLO4, CLO3, NO3RFA on DISCHARGE
1	NO3RFA	1 250 ml poly+ 1 ml H2SO4 (50%)	UN 2796	CR, and CRVI and CLO4 on all samples
				Please sample late in the day and send via priority overnight to ensure that we receive CRVI within hold time whenever possible.
				SHIPPING - PLEASE PRELABEL BOTTLES
				revised 4/29/04 lxxg
				revised 11/4/04 ade
				shipping - the CLO3 bottle has been missed several times - please be sure it is included!

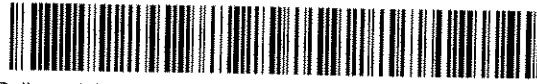
ActiveCode Status Date Shipped Carrier Qty of Coolers Tracking Number Prepared By

From: Origin ID: (702)651-2220  
KERR-MCGEE CHEMICAL  
KERR-MCGEE CHEMICAL  
8000 LAKE MEAD DRIVE  
SHIPPING DEPARTMENT  
HENDERSON, NV 89015



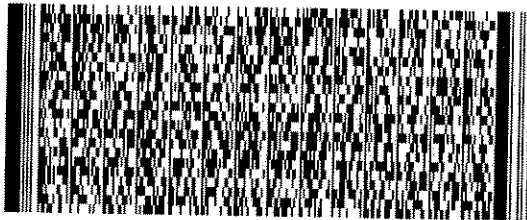
Ship Date: 13OCT05  
ActWgt: 12 LB  
System#: 2274147/INET2300  
Account#: S \*\*\*\*\*

REF: MSO# 141595



Delivery Address Bar Code

SHIP TO: (626)568-6400 **BILL SENDER**  
**ATTN: MONTGOMERY LABS RECEIVING**  
**MONTGOMERY WATSON LABS**  
**750 ROYAL OAKS AVENUE**  
**#100**  
**MONROVIA, CA 91016**



**PRIORITY OVERNIGHT**

**FRI**

TRK# 7912 3729 2908

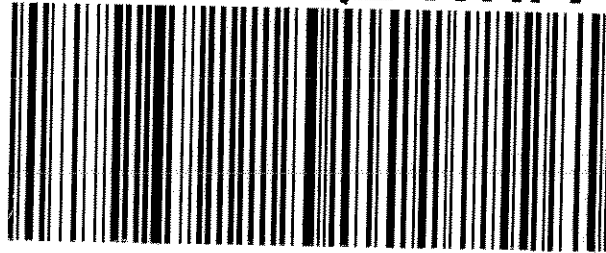
FORM 0201

Deliver By:  
14OCT05

**BUR A2**

91016 -CA-US

**QZ WHPA**



Shipping Label: Your shipment is complete

1. Use the 'Print' feature from your browser to send this page to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

**Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.**

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

SCANNED

5THIS MEMORANDUM is an acknowledgement that a Bill of Lading has been issued and is not the Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

SHIPPER'S NUMBER: 141595

RECEIVED subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading.

**From: KERR-McGEE CHEMICAL CORPORATION**

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said Carrier (the word Carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another Carrier on the route to said destination. It is mutually agreed, as to each Carrier of all or any said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said Bill of Lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the Shipper and accepted for himself and his assigns.

CARRIER <b>Federal Express</b>		Date <b>10/13/05</b>	FROM NO. STATION: STATE <b>Henderson, NV 89015</b>
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400		Authorization <b>S.CROWLEY</b>	
FREIGHT CHARGES xx <input type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER <b>KERR-McGEE CHEMICAL LLC</b>	
N/AR		CUSTOMER PO OR REQ'N NO.	<b>CODE NO. WCN IF</b> <b>1321.10400</b> If it moves between two ports by water, the law requires that the Bill of Lading shall state whether it is Carrier's or Shippers weight.
SHIPPED FROM <b>Henderson, NV</b>			
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY
	<b>East and West Well Feed Misc. Samples  One ice chest at 12 lbs.</b>		<b>1 COOLER</b>
			Subject to Section 7 of Conditions of applicable Bill of Lading, if this shipment is to be delivered to the Consignee without recourse on the Consignor, the Consignor shall sign the following statement: The Carrier shall not make delivery of this shipment without payment of freight and all other lawful charges. <b>KERR-McGEE CHEMICAL LLC</b>
			The description and weight indicated on this Bill of Lading are correct. Subject to verification by the Governing Weighing and Inspection Bureau according to Agreement.
TRUCK SHIPMENTS		FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT 800-424-9300 483-7616 IN DISTRICT OF COLUMBIA 202-483-7616 FROM OUTSIDE THE CONTINENTAL US.	
PLACARDS OFFERED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	PLACARDS ACCEPTED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
<b>1</b>	<b>TOTAL GROSS WEIGHT 12</b>	<b>0</b> <b>TOTAL TARE WEIGHT 0</b>	<b>12</b>
NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____			
THIS IS TO CERTIFY THAT THE ABOVE-NAMED MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.			

KERR-McGEE CHEMICAL LLC  
Shipper permanent post office address of shipper, Oklahoma City, OK 73125

PER

**Olga Maestas**

AGENT

PER

SCANNED

**MWH Laboratories**  
 750 Royal Oaks Drive, Monrovia, CA 91016  
 PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Kerr McGee Chemical Company - Henderson	Customer Code: KERRMCGEE-MP
PO Box 55	PO#: Susan Crowley PO
Henderson, NV 89009	Group#: 158975
Attn: Susan Crowley	Project#: CLO4
Phone: 702-651-2234	Proj Mgr: Andrew Eaton
	Phone: (626) 386-1125

The following samples were received from you on **10/14/05**. 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
2510140122	GWTP DISCHARGE	CLO3    CLO4	Water	13-oct-2005 10:00:00
			CR    CR-VI	NO3RFA
2510140126	GWTP WEST WELL FEED	CLO4    CR	Water	13-oct-2005 10:00:00
			CR-VI	
2510140136	GWTP EAST WELL FEED	CLO4    CR	Water	13-oct-2005 10:00:00
			CR-VI	

Test Acronym Description

Test Acronym	Description
CLO3	Chlorate by IC
CLO4	Perchlorate
CR	Chromium, Total, ICAP
CR-VI	Hexavalent chromium (Cr VI)
NO3RFA	Nitrate + Nitrite as N by RFA



**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: \_\_\_\_\_

(QC Ref#: 2510140122)

Test: Hexavalent chromium (Cr VI) (MWH SW7196)

H3- Sample was received and analyzed past holding time.

(QC Ref#: 2510140126)

Test: Hexavalent chromium (Cr VI) (MWH SW7196)

H3- Sample was received and analyzed past holding time.

(QC Ref#: 2510140136)

Test: Hexavalent chromium (Cr VI) (MWH SW7196)

H3- Sample was received and analyzed past holding time.



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Laboratory  
Hits Report  
#158975

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

Samples Received  
14-oct-2005 15:43:42

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2510140122	GWTP DISCHARGE				
10/19/05		Chlorate by IC	5100000		ug/l	200000
10/17/05		Chromium, Total, ICAP	0.58		mg/l	0.02
10/14/05		Hexavalent chromium (Cr VI)	0.012		mg/l	0.01
10/20/05		Nitrate + Nitrite as N by RFA	66	10	mg/l	5
10/24/05		Perchlorate	1500000		ug/l	200000
	2510140126	GWTP WEST WELL FEED				
10/17/05		Chromium, Total, ICAP	1.9		mg/l	0.1
10/14/05		Hexavalent chromium (Cr VI)	1.9		mg/l	0.05
10/24/05		Perchlorate	2100000		ug/l	200000
	2510140136	GWTP EAST WELL FEED				
10/17/05		Chromium, Total, ICAP	15		mg/l	0.2
10/14/05		Hexavalent chromium (Cr VI)	17		mg/l	0.25
10/24/05		Perchlorate	1200000		ug/l	200000

SUMMARY OF POSITIVE DATA ONLY.





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Laboratory  
 Data Report  
 #158975

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

Samples Received  
 10/14/05

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
<b>GWTP DISCHARGE (2510140122)</b>				<b>Sampled on 10/13/05 10:00</b>				
	10/19/05 00:00	291707	( ML/EPA 300.1 )	Chlorate by IC	5100000	ug/l	200000	20000
	10/24/05 15:55	292337	( EPA 314 )	Perchlorate	1500000	ug/l	200000	50000
	10/17/05 20:48	291236	( MWH200.7/6010B)	Chromium, Total, ICAP	0.58	mg/l	0.02	2
	10/14/05 00:00	291066	( MWH SW7196 )	Hexavalent chromium (Cr VI)	0.012 (H3)	mg/l	0.01	2
	10/20/05 14:56	292326	( ML/EPA 353.2 )	Nitrate + Nitrite as N by RFA	66	mg/l	5	50
<b>GWTP WEST WELL FEED (2510140126)</b>				<b>Sampled on 10/13/05 10:00</b>				
	10/24/05 00:00	292361	( EPA 314 )	Perchlorate	2100000	ug/l	200000	50000
	10/17/05 20:51	291236	( MWH200.7/6010B)	Chromium, Total, ICAP	1.9	mg/l	0.1	10
	10/14/05 00:00	291066	( MWH SW7196 )	Hexavalent chromium (Cr VI)	1.9 (H3)	mg/l	0.05	10
<b>GWTP EAST WELL FEED (2510140136)</b>				<b>Sampled on 10/13/05 10:00</b>				
	10/24/05 00:00	292361	( EPA 314 )	Perchlorate	1200000	ug/l	200000	50000
	10/17/05 20:56	291236	( MWH200.7/6010B)	Chromium, Total, ICAP	15	mg/l	0.2	20
	10/14/05 00:00	291066	( MWH SW7196 )	Hexavalent chromium (Cr VI)	17 (H3)	mg/l	0.25	50



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Laboratory  
QC Summary  
#158975

Tronox LLC - Henderson

QC Ref #291066 - Hexavalent chromium (Cr VI) Analysis Date: 10/14/2005

2510140122	GWTP DISCHARGE	Analyzed by: wbh
2510140126	GWTP WEST WELL FEED	Analyzed by: wbh
2510140136	GWTP EAST WELL FEED	Analyzed by: wbh

QC Ref #291236 - Chromium, Total, ICAP Analysis Date: 10/17/2005

2510140122	GWTP DISCHARGE	Analyzed by: wbh
2510140126	GWTP WEST WELL FEED	Analyzed by: wbh
2510140136	GWTP EAST WELL FEED	Analyzed by: wbh

QC Ref #291707 - Chlorate by IC Analysis Date: 10/19/2005

2510140122	GWTP DISCHARGE	Analyzed by: bxs
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QC Ref #292326 - Nitrate + Nitrite as N by RFA Analysis Date: 10/20/2005

2510140122	GWTP DISCHARGE	Analyzed by: mal
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QC Ref #292337 - Perchlorate Analysis Date: 10/24/2005

2510140122	GWTP DISCHARGE	Analyzed by: bxs
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QC Ref #292361 - Perchlorate Analysis Date: 10/24/2005

2510140126	GWTP WEST WELL FEED	Analyzed by: bxs
2510140136	GWTP EAST WELL FEED	Analyzed by: bxs



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Laboratory  
QC Report  
#158975

Tronox LLC - Henderson

QC Ref #291066      Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	10140126	MGL		( 0-0 )	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.054	MGL	108.0	( 85-115 )	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.051	MGL	102.0	( 85-115 )	5.7
MBLK	Hexavalent chromium (Cr VI)	ND	<0.005	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.006	MGL	120.0	( 50-150 )	
MS	Hexavalent chromium (Cr VI)	0.50	0.51	MGL	102.0	( 70-130 )	
MSD	Hexavalent chromium (Cr VI)	0.50	0.53	MGL	106.0	( 70-130 )	3.8

QC Ref #291236      Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.937	MGL	93.7	( 85-115 )	
LCS2	Chromium, Total, ICAP	1.00	0.931	MGL	93.1	( 85-115 )	0.64
MBLK	Chromium, Total, ICAP	ND	<0.01	MGL			
MS	Chromium, Total, ICAP	1.00	0.934	MGL	93.4	( 70-130 )	
MSD	Chromium, Total, ICAP	1.00	0.944	MGL	94.4	( 70-130 )	1.1

QC Ref #291707      Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	10130381	UGL		( 0-0 )	
LCS1	Chlorate by IC	200	198	UGL	99.0	( 75-125 )	
LCS2	Chlorate by IC	200	199	UGL	99.5	( 75-125 )	0.50
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	10.7	UGL	107.0	( 50-150 )	
MS	Chlorate by IC	100	89	UGL	89.0	( 75-125 )	
MSD	Chlorate by IC	100	97	UGL	97.0	( 75-125 )	8.6

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  
#158975

Tronox LLC - Henderson  
(continued)

QC Ref #292326 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	lab # 25	10050050	MGL		( 0-0 )	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.956	MGL	95.6	( 90-110 )	
LCS2	Nitrate + Nitrite as N by RFA	1.0	0.947	MGL	94.7	( 90-110 )	0.95
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.1	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.030	0.0399	MGL	133.0	( 50-150 )	
MS	Nitrate + Nitrite as N by RFA	1.0	0.923	MGL	92.3	( 90-110 )	
MSD	Nitrate + Nitrite as N by RFA	1.0	0.902	MGL	90.2	( 90-110 )	2.3

QC Ref #292337 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	25.0	24.6	UGL	98.4	( 85-115 )	
LCS1	Perchlorate	25.0	24.7	UGL	98.8	( 85-115 )	
MBLK	Perchlorate	ND	<4	UGL			
MS	Perchlorate	25.0	24.2	UGL	96.8	( 70-130 )	
MSD	Perchlorate	25.0	24.4	UGL	97.6	( 70-130 )	0.82

QC Ref #292361 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	10140050	UGL		( 0-0 )	
LCS1	Perchlorate	25.0	24.7	UGL	98.8	( 85-115 )	
LCS2	Perchlorate	25.0	24.6	UGL	98.4	( 85-115 )	0.41
LCS3	Perchlorate	4	4.4	UGL	110.0	( 75-125 )	
MBLK	Perchlorate	ND	<4	UGL			
MS	Perchlorate	25.0	24.2	UGL	96.8	( 70-130 )	
MSD	Perchlorate	25.0	24.4	UGL	97.6	( 70-130 )	0.82

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.