



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)

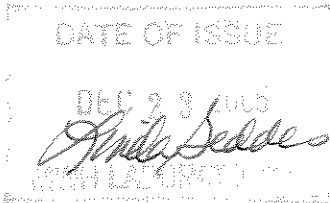
Laboratory Report

for

Tronox LLC - Henderson
PO Box 55

Henderson , NV 89009

Attention: Susan Crowley
Fax: 702-651-2310



ADE Andy Eaton
Project Manager



Report#: 163218
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

163218

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

MWLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: AS

SAMPLE TEMP, RECEIPT AT LAB: 10

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**
 IDENTIFIER, STATE ID#: **Kerr-McGee Chemical LLC**
 LOCATION: **PO Box 55 Henderson, NV 89009**
 SIGNATURE: *Wendy Prescott*
 PRINT NAME: **Wendy Prescott**

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)										SAMPLER COMMENTS									
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	Total Cr	Hexavalent Chromium	Total CrO ₃	NO ₃ as N											
10:00 AM	12/4/6,8-05		GWTP Discharge	RSW		X		X	X	X											Total Cr sample preserved with HNO ₃
10:00 AM	12/8/2005		GWTP West Well Feed	RSW	X			X	X												Total Cr sample preserved with HNO ₃
10:00 AM	12/8/2005		GWTP East Well Feed	RSW	X			X	X												Total Cr sample preserved with HNO ₃
																					East & West CLO4 added beginning 11-11-04

*** MATRIX TYPES:**
 Reported by Volume:
 CFW = Chlor(amin)ated 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

RELINQUISHED BY: *Wendy Prescott* SIGNATURE: *Wendy Prescott* PRINT NAME: **Wendy Prescott**
 RECEIVED BY: *Wendy Prescott* COMPANY/TITLE: **Veolia Water NA for Kerr McGee Chemical LLC** DATE: **12/8/2005** TIME: **12:00**
 RELINQUISHED BY: *Wendy Prescott* RECEIVED BY: *Wendy Prescott*



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
Standing

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

Client Code KERRMCGEE-MP W Weekly
Project Code CLO4 Week 1
PO# / Job#
Blanket PO

SO# 27340 16287 RS

Sampler: Please Return this Paper with your samples

Created by EEF

Order Date

11/28/05

Date Needed
by Client

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#

EEF

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		GWTP EAST WELL FEED
1	CLO3	1 60ml poly+0.60 mL 5% EDA sol'n		GWTP DISCHARGE
3	CLO4	1 125ml poly /no preservative AMBER IF WITH CLO3!	UN 1604	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 lrg revised 11/4/04 ade
				shipping - the CLO3 bottle has been missed several times - please be sure it is included!

Prepared By

Carrier Qty of Coolers Tracking Number

Date Shipped

ActiveCode Status

SCANNED

THIS 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: 141689

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.

STAMP

CARRIER Federal Express		Date 12/8/05	FROM NO. STATION: STATE Henderson, NV 89015	
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400			Authorization S.CROWLEY	
FREIGHT CHARGES xx <input type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER KERR-McGEE CHEMICAL LLC		
N/A/R		CUSTOMER PO OR REQ'N NO.	CODE NO. WCN IF 1321.10400 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 Henderson, NV				
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY	
	East and West Well Feed Misc. Samples One ice chest at 13 lbs.		1 COOLER	
			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. KERR-McGEE CHEMICAL LLC	
			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				
PLACARDS OFFERED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC - DAY OR NIGHT 800-424-9300 483-7616 IN DISTRICT OF COLUMBIA 202-463-7616 FROM OUTSIDE THE CONTINENTAL US.	NUMBER OF PACKAGES	GROSS WEIGHT	TARE WEIGHT	NET WEIGHT
			0	
	1	TOTAL GROSS WEIGHT 13	TOTAL TARE WEIGHT 0	13
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 _____				"Shippers imprint in lieu of stamp; not a part of Bill of Lading approved by the Interstate Commerce Commission"

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

Chuck Whitney

AGENT

PER

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



CLS 102785/09/16

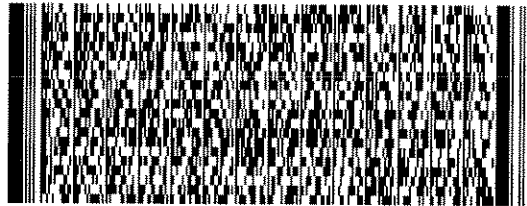
Ship Date: 08DEC05
ActWgt: 13 LB
System#: 2274147/INET2300
Account#: S *****

REF: MSO #141689



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# **7924 5881 1017**

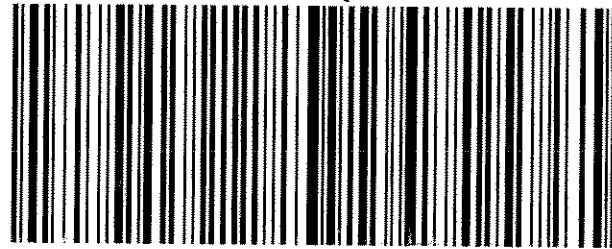
FORM
0201

Deliver By:
09DEC05

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.

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#: 163218
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on 12/09/05. 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
2512090332	GWTP DISCHARGE	CLO3 CLO4	Water	08-dec-2005 10:00:00
		T	CR CR-VI	NO3RFA P
2512090333	GWTP WEST WELL FEED	CLO4 CR	Water	08-dec-2005 10:00:00
			CR-VI P	T
2512090334	GWTP EAST WELL FEED	CLO4 CR	Water	08-dec-2005 10:00:00
			CR-VI P	T

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
P	Metals sample pH
T	Metals Turbidity



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#: 2512090332)

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

H3- Sample was received and analyzed past holding time.

(QC Ref#: 2512090333)

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

H3- Sample was received and analyzed past holding time.

(QC Ref#: 2512090334)

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

H3- Sample was received and analyzed past holding time.



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Laboratory
 Hits Report
 #163218

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

Samples Received
 09-dec-2005 17:15:59

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2512090332	GWTP DISCHARGE				
12/15/05		Chlorate by IC	5560000		ug/l	200000
12/12/05		Chromium, Total, ICAP	0.25		mg/l	0.02
12/13/05		Nitrate + Nitrite as N by RFA	75.8	10	mg/l	5
12/20/05		Perchlorate	1580000		ug/l	200000
	2512090333	GWTP WEST WELL FEED				
12/12/05		Chromium, Total, ICAP	2.3		mg/l	0.1
12/09/05		Hexavalent chromium (Cr VI)	2.3		mg/l	0.05
12/20/05		Perchlorate	2000000		ug/l	200000
	2512090334	GWTP EAST WELL FEED				
12/12/05		Chromium, Total, ICAP	16		mg/l	0.2
12/09/05		Hexavalent chromium (Cr VI)	19		mg/l	0.25
12/20/05		Perchlorate	1250000		ug/l	200000

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
 Data Report
 #163218

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

Samples Received
 12/09/05

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
GWTP DISCHARGE (2512090332)				Sampled on 12/08/05 10:00				
	12/15/05 00:00	299768	(ML/EPA 300.1)	Chlorate by IC	5560000	ug/l	200000	20000
	12/20/05 14:18	300371	(EPA 314)	Perchlorate	1580000	ug/l	200000	50000
	12/12/05 15:02	299184	(MWH200.7/6010B)	Chromium, Total, ICAP	0.25	mg/l	0.02	2
	12/09/05 00:00	298931	(MWH SW7196)	Hexavalent chromium (Cr VI)	ND(H3)	mg/l	0.01	2
	12/13/05 00:00	299411	(ML/EPA 353.2)	Nitrate + Nitrite as N by RFA	75.8	mg/l	5	50
GWTP WEST WELL FEED (2512090333)				Sampled on 12/08/05 10:00				
	12/20/05 14:35	300371	(EPA 314)	Perchlorate	2000000	ug/l	200000	50000
	12/12/05 15:05	299184	(MWH200.7/6010B)	Chromium, Total, ICAP	2.3	mg/l	0.1	10
	12/09/05 00:00	298931	(MWH SW7196)	Hexavalent chromium (Cr VI)	2.3(H3)	mg/l	0.05	10
GWTP EAST WELL FEED (2512090334)				Sampled on 12/08/05 10:00				
	12/20/05 14:52	300371	(EPA 314)	Perchlorate	1250000	ug/l	200000	50000
	12/12/05 15:10	299184	(MWH200.7/6010B)	Chromium, Total, ICAP	16	mg/l	0.2	20
	12/09/05 00:00	298931	(MWH SW7196)	Hexavalent chromium (Cr VI)	19(H3)	mg/l	0.25	50



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Laboratory
QC Summary
#163218

Tronox LLC - Henderson

QC Ref #298931 - Hexavalent chromium (Cr VI) Analysis Date: 12/09/2005

2512090332	GWTP DISCHARGE	Analyzed by: wbh
2512090333	GWTP WEST WELL FEED	Analyzed by: wbh
2512090334	GWTP EAST WELL FEED	Analyzed by: wbh

QC Ref #299184 - Chromium, Total, ICAP Analysis Date: 12/12/2005

2512090332	GWTP DISCHARGE	Analyzed by: wbh
2512090333	GWTP WEST WELL FEED	Analyzed by: wbh
2512090334	GWTP EAST WELL FEED	Analyzed by: wbh

QC Ref #299411 - Nitrate + Nitrite as N by RFA Analysis Date: 12/13/2005

2512090332	GWTP DISCHARGE	Analyzed by: clv
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QC Ref #299768 - Chlorate by IC Analysis Date: 12/15/2005

2512090332	GWTP DISCHARGE	Analyzed by: bxs
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QC Ref #300371 - Perchlorate Analysis Date: 12/20/2005

2512090332	GWTP DISCHARGE	Analyzed by: bxs
2512090333	GWTP WEST WELL FEED	Analyzed by: bxs
2512090334	GWTP EAST WELL FEED	Analyzed by: bxs



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Laboratory
QC Report
#163218

Tronox LLC - Henderson

QC Ref #298931 Hexavalent chromium (Cr VI)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	12090333	MGL		(0-0)	
LCS1	Hexavalent chromium (Cr VI)	0.050	0.051	MGL	102.0	(85-115)	
LCS2	Hexavalent chromium (Cr VI)	0.050	0.051	MGL	102.0	(85-115)	0.00
MBLK	Hexavalent chromium (Cr VI)	ND	<0.005	MGL			
MRL_CHK	Hexavalent chromium (Cr VI)	0.005	0.005	MGL	100.0	(50-150)	
MS	Hexavalent chromium (Cr VI)	0.50	0.45	MGL	90.0	(70-130)	
MSD	Hexavalent chromium (Cr VI)	0.50	0.52	MGL	104.0	(70-130)	14

QC Ref #299184 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	0.942	MGL	94.2	(85-115)	0.53
MBLK	Chromium, Total, ICAP	ND	<0.01	MGL			
MS	Chromium, Total, ICAP	1.00	0.933	MGL	93.3	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.934	MGL	93.4	(70-130)	0.11

QC Ref #299411 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 25	12070414	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	1.02	MGL	102.0	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	1.02	MGL	102.0	(90-110)	0.00
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.1	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.100	0.081	MGL	81.0	(50-150)	
MS	Nitrate + Nitrite as N by RFA	1.0	0.92	MGL	92.0	(90-110)	
MSD	Nitrate + Nitrite as N by RFA	1.0	0.90	MGL	90.0	(90-110)	2.2

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
#163218

Tronox LLC - Henderson
(continued)

QC Ref #299768

Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 25	12070353	UGL		(0-0)	
LCS1	Chlorate by IC	200	206	UGL	103.0	(75-125)	
LCS2	Chlorate by IC	200	199	UGL	99.5	(75-125)	3.5
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	11.4	UGL	114.0	(50-150)	
MS	Chlorate by IC	100	95	UGL	95.0	(75-125)	
MSD	Chlorate by IC	100	98	UGL	98.0	(75-125)	3.1

QC Ref #300371

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Perchlorate	25.0	23.9	UGL	95.6	(85-115)	
LCS2	Perchlorate	25.0	24	UGL	96.0	(85-115)	0.42
MBLK	Perchlorate	ND	<4	UGL			
MS	Perchlorate	25.0	23.1	UGL	92.4	(70-130)	
MSD	Perchlorate	25.0	23.2	UGL	92.8	(70-130)	0.43

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.