

TRONOX

Susan Crowley

Office 702-651-2234
Cell 702-592-7727
susan.crowley@tronox.com

April 3, 2009

Ms. Diana Silsby
NPDES Compliance Coordinator
Bureau of Water Permits & Compliance
State of Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249

Dear Ms. Silsby:

SUBJECT: NPDES Permit NV0023060 Discharge Monitoring Reports (DMRs) – Revised October 2008 DMR

Tronox LLC maintains an NPDES Permit #0023060 for discharge of treated water, as part of their on-going effort to remediate perchlorate in the Henderson area. DMRs for the fourth quarter 2008 (October, November and December) were filed in January 2008. Included with this correspondence is a revised October 2008 DMR, as Attachment 1. The DMR was updated to reflect receipt of additional analytical for the effluent's total phosphorus concentration for the first week in October (sample date October 6, 2008). This analytical was completed as unusual total phosphorus information was provided by the contract laboratory for the original sample, and sample compromise was suspected. The additional analytical was completed on a refrigerated sample retained at the site, which was submitted once the unusual result (6.7 mg/l) was received from the contract lab. The contract lab's supervising chemist has indicated that the second sample's analytical (0.14 mg/l) is valid as the total phosphorus concentrations would not be degraded in the time between sample capture and analysis. His opinion is included as Attachment 2. Reports for both the originally submitted sample and the re-submitted sample are included, as Attachment 3.

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.

Should you have any questions concerning this report, please contact me at (702) 651-2234 office, (702) 592-7727 cell or e-mail susan.crowley@tronox.com. Thank you.

Sincerely,



Susan Crowley
Certified Environmental Manager, CEM 1428 expires 3-8-11

Overnight Mail

cc: Please see attached distribution sheet

Attachments

smc/2008 4th Q NPDES NV 0023060 - Revised Oct 08 DMR Cvr Ltr.doc

Tronox. Adding value beyond the product.

8000 West Lake Mead Parkway, Henderson, Nevada 89015 • P.O. Box 55, Henderson, Nevada 89009

Tronox Document Distribution List

Updated: 3-Apr-09

Document Name: Perchlorate Project NPDES DMR (Discharge Monitoring Report) *

* Cover letter includes everything but the analytical reports on CD (Data) - and is reproduced in a 2-sided transmittal

Name (Last, First)	Firm	Distribution		Firm	Distribution	
		Hard	e-Copy		Hard	e-Copy
Croft King	NDEP			Tronox		X
Najima	NDEP			Tronox Counsel		X
Rakvica	NDEP		X	Tronox		X
Sous	NDEP			Tronox	X	X
Tinney	NDEP			Tronox		X
Palm	NDEP			Crowley Environmental	X	X
Harbour	NDEP			Tronox		X
Black	Neptune		X	Environ Answers	X	X
Hackenberry	Hackenberry				X	X
Copeland	Neptune					
Gratson	Neptune					
Otani-Fehling	Neptune					
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Conaty	COH Counsel					
Mulroy	SNWA					
Goff	SNWA			AIG		X
Liesing	SNWA		X	GEI		X
Kaplan	EPA, Reg 9		X	Broadbent		
Compliance Coordinator	NDEP		X	BMI		
Compliance Coordinator	DAQEM			Syngenta		
Juma	CCDAQEM			Stauffer		
Public Repository	Library			Montrose		
				AmPac		
				Olin		
				Olin		
				Timet		
				Montrose Counsel		

ATTACHMENT 1

Revised Discharge Monitoring Report (DMR)



C:\smc\My
Documents\Excel Spr

October 2008

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS

Name: Tronox LLC
Address: PO BOX 55
Henderson, NV 89009-7000

DISCHARGE MONITORING REPORT (DMR)

NV 0023060
PERMIT NUMBER
001
DISCHARGE NUMBER

NO DISCHARGE
NOTE: Read instructions before completing this form

MONITORING PERIOD			
YEAR	MO	DAY	TO
08	10	01	08 10 31

Facility: Tronox LLC
Location: Henderson, NV
Attn: Susan M. Crowley

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION		NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	30 Day Ave	7 Day Ave	30 Day Ave	7 Day Ave			
Flow	1.39	1.39	MGD	*****	0	Cont	Flow Meter
Effluent	1.45 MGD	1.75 MGD	Maximum	*****			
BOD5 (Inhibited)	*****	*****	*****	1.5	0	Weekly	Discrete
Influent	*****	*****	*****	Monitor & Report			
BOD5 (Inhibited)	*****	*****	*****	2.8	0	Weekly	Discrete
Effluent	*****	*****	*****	40 mg/L			
Perchlorate FBR	*****	*****	*****	318	0	Weekly	Comp
Influent	*****	*****	*****	Monitor & Report			
Perchlorate FBR	*****	*****	*****	5.88	0	Weekly	Comp
Effluent	*****	*****	*****	18 ug/l			
pH	*****	*****	*****	6.8	0	Weekly	Discrete
Effluent	*****	*****	*****	6.5 Minimum			
Hexavalent Chromium	*****	*****	*****	0.031	0	Weekly	Discrete
Influent	*****	*****	*****	Monitor & Report			

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME/TITLE: PRINCIPAL EXECUTIVE OFFICER
Susan Crowley
CEM 1428, exp 3-8-11
TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER: *S. Crowley*

OFFICER OR AUTHORIZED AGENT

TELEPHONE	DATE
702 651-2200	09 04
AREA NUMBER	YEAR MONTH DAY
702	09 04 02

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS

Name: Tronox LLC
Address: PO BOX 55
Henderson, NV 89009-7000

NV 0023060
PERMIT NUMBER

001
DISCHARGE NUMBER

NO DISCHARGE
NOTE: Read instructions before completing this form

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
08	10	01	08	10	31

FROM

PARAMETER	QUANTITY OR LOADING		QUANTITY OR CONCENTRATION			UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	30 Day Ave	7 Day Average	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lbs/day)				
Hexavalent Chromium	SAMPLE MEASUREMENT	*****	0.000	0.000	0.001	MG/L	0	Weekly	Discrete
	PERMIT REQUIREMENT	*****	Monitor & Report	0.01 mg/l	Monitor & Report				
Effluent	SAMPLE MEASUREMENT	*****	0.057	0.074	0.660	MG/L	0	Weekly	Discrete
	PERMIT REQUIREMENT	*****	Monitor & Report	Monitor & Report	Monitor & Report				
Total Chromium	SAMPLE MEASUREMENT	*****	0.014	0.020	0.160	MG/L	0	Weekly	Discrete
	PERMIT REQUIREMENT	*****	Monitor & Report	0.1 mg/l	Monitor & Report				
Effluent	SAMPLE MEASUREMENT	*****	25.25	30.00	293.88	MG/L	0	Weekly	Discrete
	PERMIT REQUIREMENT	*****	135 mg/l	Monitor & Report	1,634 lbs/day				
Total Suspended Solids	SAMPLE MEASUREMENT	*****	2.43	3.10	28.24	MG/L	0	Weekly	Discrete
	PERMIT REQUIREMENT	*****	10 mg/l	Monitor & Report	121.03 lbs/day				
Iron, Total	SAMPLE MEASUREMENT	*****	1.20	*****	13.75	MG/L	0	Quarterly	Discrete
	PERMIT REQUIREMENT	*****	5 mg/l	NA	60.52 lbs/day				
Effluent	SAMPLE MEASUREMENT	*****	0.065	0.070	0.757	MG/L	0	Weekly	Discrete
	PERMIT REQUIREMENT	*****	Monitor & Report	Monitor & Report	Monitor & Report				
Total Phosphorus, as P	SAMPLE MEASUREMENT	*****	*****	*****	*****				
	PERMIT REQUIREMENT	*****	*****	*****	*****				

Susan Crowley
SIGNATURE OF PRINCIPAL EXECUTIVE

702
AREA CODE

09
YEAR

04
MONTH

02
DAY

TELEPHONE

651-2200
NUMBER

OFFICER OR AUTHORIZED AGENT

NAME/TITLE: PRINCIPAL EXECUTIVE OFFICER
Susan Crowley

CEM 1428, exp 3-8-11
TYPED OR PRINTED

COMMENT AND EXPANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS

Name: Tronox LLC
Address: PO BOX 55
Henderson, NV 89009-7000

Facility: Tronox LLC
Location: Henderson, NV
Attn: Susan M. Crowley

DISCHARGE MONITORING REPORT (DMR)

NV 0023060
PERMIT NUMBER
001
DISCHARGE NUMBER

MONITORING PERIOD

FROM 08 10 01 TO 08 10 31
YEAR MO DAY YEAR MO DAY

NO DISCHARGE []
NOTE: Read instructions before completing this form

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	30 Day Ave	7 Day Average	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lbs/day)	UNITS			
Total Phosphorus, as P	*****	*****	0.958	1.900	11.095	MG/L	0	Weekly	Discrete
Effluent	*****	*****	Monitor & Report	Monitor & Report	20 lbs/day				
Total Ammonia, as N	*****	*****	1.71	3.20	19.85	MG/L	0	Weekly	Discrete
Effluent	*****	*****	Monitor & Report	Monitor & Report	40 lbs/day				
Attachment A	*****	*****	Please see attached results				0	Quarterly	Discrete
Effluent	*****	*****	Monitor & Report	Monitor & Report	Monitor & Report				
Color	*****	*****	38	50	*****	ACU	0	Weekly	Discrete
Influent	*****	*****	Monitor & Report	Monitor & Report	*****				
Color	*****	*****	12.50	20.00	*****	ACU	0	Weekly	Discrete
Effluent	*****	*****	Monitor & Report	Monitor & Report	*****				
Total Inorganic Nitrogen, as N	*****	*****	22.75	23.00	264.87	MG/L	0	Weekly	Discrete
Influent	*****	*****	Monitor & Report	Monitor & Report	Monitor & Report				
Total Inorganic Nitrogen, as N	*****	*****	1.71	3.20	19.85	MG/L	0	Weekly	Discrete
Effluent	*****	*****	Monitor & Report	Monitor & Report	Monitor & Report				

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INDUSTRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Susan Crowley
CEM 1428, EXP 3-8-11
TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER
Susan Crowley
OFFICER OR AUTHORIZED AGENT

TELEPHONE
702 651-2200
AREA NUMBER
09 04
YEAR MONTH
02
DAY

COMMENT AND EXPANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

NV 0023060
 PERMIT NUMBER
 001
 DISCHARGE NUMBER

NO DISCHARGE

NOTE: Read instructions before completing this form

MONITORING PERIOD
 FROM: YEAR 08 MO 10 DAY 01 TO YEAR 08 MO 10 DAY 31

PERMITTEE NAME/ADDRESS

Name: Trinox LLC
 Address: PO BOX 55
 Henderson, NV 89009-7000

Facility: Trinox LLC

Location: Henderson, NV

Attn: Susan M. Crowley

PARAMETER	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	30 Day Ave	7 Day Average	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	UNITS			
Sulfate	MEASUREMENT	*****	****	1,800	*****	MG/L	0	Monthly	Discrete
Influent	PERMIT REQUIREMENT	*****	****	Monitor & Report	*****	Monitor & Report			
	MEASUREMENT	*****	****	1,850	*****	MG/L	0	Monthly	Discrete
Effluent	PERMIT REQUIREMENT	*****	****	Monitor & Report	*****	Monitor & Report			
	MEASUREMENT	*****	****	7,240	*****	MG/L	0	Quarterly	Discrete
Total Dissolved Solids	PERMIT REQUIREMENT	*****	****	Monitor & Report	*****	Monitor & Report			
	MEASUREMENT	*****	****	6,780	*****	MG/L	0	Quarterly	Discrete
Effluent	PERMIT REQUIREMENT	*****	****	Monitor & Report	*****	Monitor & Report			
	MEASUREMENT	*****	****	0.03	*****	MG/L	0	Monthly	Discrete
Sulfide	PERMIT REQUIREMENT	*****	****	Monitor & Report	*****	Monitor & Report			
	MEASUREMENT	*****	****	0.03	*****	MG/L	0	Monthly	Discrete
Effluent	PERMIT REQUIREMENT	*****	****	Monitor & Report	*****	Monitor & Report			
	MEASUREMENT	*****	****	17.18	*****	MG/L	0	Quarterly	Discrete
Influent	PERMIT REQUIREMENT	*****	****	Monitor & Report	*****	Monitor & Report			
	MEASUREMENT	*****	****	Monitor & Report	*****	Monitor & Report			

Susan Crowley
 SIGNATURE OF PRINCIPAL EXECUTIVE
 OFFICER OR AUTHORIZED AGENT

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NAME/TITLE: PRINCIPAL EXECUTIVE OFFICER
 Susan Crowley
 CEM 1428, exp 3-8-11
 TYPED OR PRINTED

TELEPHONE: 651-2200
 AREA NUMBER: 702
 CODE
 DATE: 09 04 02
 YEAR MONTH DAY

COMMENT AND EXPANION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS
 Name: Tronox LLC
 Address: PO BOX 55
 Henderson, NV 89009-7000

DISCHARGE MONITORING REPORT (DMR)
 NV 0023060
 PERMIT NUMBER 001
 DISCHARGE NUMBER

NO DISCHARGE []
 NOTE: Read instructions before completing this form

MONITORING PERIOD
 FROM: YEAR 08 MO 10 DAY 01 TO YEAR 08 MO 10 DAY 31

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	30 Day Ave	7 Day Average	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	30 Day Ave (lbs/day)			
Oil & Grease	*****	*****	****	3.00	*****	34.36	0	Quarterly	Discrete
Effluent	*****	*****	****	Monitor & Report	*****	Monitor & Report			
Boron	*****	*****	****	4.30	*****	49.26	0	Quarterly	Discrete
Effluent	*****	*****	****	Monitor & Report	*****	Monitor & Report			
Dissolved Oxygen	*****	*****	****	2.61	5.39	30.06	0	Weekly	Discrete
Effluent	*****	*****	****	Monitor & Report	Monitor & Report	Monitor & Report			
Nitrate as N	*****	*****	****	2.50	*****	29.11	0	Monthly	Discrete
Effluent	*****	*****	****	Monitor & Report	*****	Monitor & Report			
Kjeldahl Nitrogen as N	*****	*****	****	6.30	7.00	73.32	0	Weekly	Discrete
Influent	*****	*****	****	Monitor & Report	Monitor & Report	Monitor & Report			
Kjeldahl Nitrogen as N	*****	*****	****	4.03	5.70	46.87	0	Weekly	Discrete
Effluent	*****	*****	****	Monitor & Report	Monitor & Report	Monitor & Report			
Chloride	*****	*****	****	2,500	*****	28,637	0	Quarterly	Discrete
Influent	*****	*****	****	Monitor & Report	*****	Monitor & Report			

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Susan Crowley
 SIGNATURE OF PRINCIPAL EXECUTIVE

702
 AREA CODE
 651-2200
 NUMBER
 OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE
 09 04 02
 MONTH DAY
 YEAR

COMMENT AND EXPANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS
 Name: Tronox LLC
 Address: PO BOX 55
 Henderson, NV 89009-7000

NV 0023060
 PERMIT NUMBER

001
 DISCHARGE NUMBER

NO DISCHARGE
 NOTE: Read instructions before completing this form

MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 FROM 08 10 01 TO 08 10 31

Facility: Tronox LLC
 Location: Henderson, NV
 Attn: Susan M. Crowley

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	30 Day Ave	7 Day Average	UNITS	30 Day Ave (mg/l)	7 Day Ave (mg/l)	UNITS			
Chloride	*****	*****	****	*****	*****	MG/L	0	Quarterly	Discrete
Effluent	*****	*****	****	*****	*****	Monitor & Report			
Radium 226 + 228	*****	*****	****	*****	1.73	pCi/L	0	Weekly	Discrete
Effluent	*****	*****	****	*****	*****	Monitor & Report			
Gross Alpha	*****	*****	****	*****	52.00	pCi/L	0	Weekly	Discrete
Effluent	*****	*****	****	*****	*****	Monitor & Report			
Chlorate	*****	*****	****	*****	392	MG/L	0	Monthly	Discrete
Influent	*****	*****	****	*****	*****	Monitor & Report			
Chlorate	*****	*****	****	*****	0.03	MG/L	0	Monthly	Discrete
Effluent	*****	*****	****	*****	*****	Monitor & Report			
	*****	*****	****	*****	*****	Monitor & Report	0		
	*****	*****	****	*****	*****	Monitor & Report	0		
	*****	*****	****	*****	*****	Monitor & Report	0		

CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

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702
 AREA CODE

651-2200
 NUMBER

09 04 02
 YEAR MONTH DAY

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 Susan Crowley
 CEM 1428, exp 3-8-11
 TYPED OR PRINTED

OFFICER OR AUTHORIZED AGENT

COMMENT AND EXPANION OF ANY VIOLATIONS (Reference all attachments here)

ATTACHMENT 2

Lab's Supervising Chemist's Opinion



C:\smc\My
Documents\2009040:

Crowley, Susan [Contractor]

From: Andrew Eaton [Andrew.D.Eaton@us.mwhglobal.com]
Sent: Tuesday, March 31, 2009 10:53 AM
To: Crowley, Susan [Contractor]
Cc: jeffrey.lambeth@VeoliaWaterNA.com; Keith Bailey
Subject: RE: Total P 2008.xls

In an acid preserved sample – which is the bottle we use for T-P there should be no difference. Even in an unpreserved bottle I would not expect any impact, because the phosphorus if anything gets either tied up in biota or released from biota during death, and one could theoretically lose some phosphorus to the sides of bottles that were unpreserved, but that could happen much earlier than 28 days... Not sure what the ambient pH is for the samples used to prepare the sample sent to us.

**MWH Laboratories**

Andrew Eaton, Ph.D.
Vice President/Laboratory Technical Director
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
626.386.1125 (phone)
626.386.1101 (fax)
626.628.3493 (direct fax)
www.mwhlabs.com

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ATTACHMENT 3

Supporting Analytical Reports



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Documents\Digital An

Influent and Effluent – October 6, 2008



C:\smc\My
Documents\Digital An

Re-Submitted Effluent – October 6, 2008

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein, exceptions and corresponding justifications are provided below.

Susan M. Crowley, CEM 1428, exp 3-8-11



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91018-3029
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
Dec 09 2008
MWH LABORATORIES

ADE Andy Eaton
Project Manager



Report#: 259934
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 5 page[s].



BUILDING A BETTER WORLD

December 9, 2008

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

Subject: Case Narrative report 259934

Enclosed is MWH Laboratories Report 259934

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on November 25, 2008 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:

Sample 2811250304 was received past hold time and without proper preservation.

Note that for ion chromatography analyses such as perchlorate, the exact analysis time is not typically shown on the report. Either a 00:00 is shown or the time of injection of the first sample in the batch.

Sincerely,

A handwritten signature in cursive script that reads "Andrew Eaton".

Andrew Eaton, PhD
Project Manager

259934

CHAIN OF CUSTODY RECORD

MONTGOMERY WATSON LABORATORIES
 750 Royal Oaks Drive, Suite 100, Monrovia, CA > 91016-3629
 (626) 568-6400 (800) 566-5227

MVLABS USE ONLY:
LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY: BS/JS
 SAMPLE TEMP, RECEIPT AT LAB: 2
 BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes)

COMPLETED BY SAMPLER: Wendy Prescott
 COMPANY / PROJECT NAME: Kerr-McGee Chemical LLC
 PROJECT JOB # / P.O.#: Weekly Permit ClO₂ Compliance Samples
 ADDRESS: Kerr-McGee Chemical LLC
PO Box 55
Henderson, NV 89009
 PHONE: (702) 651-2234

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)	SAMPLER COMMENTS
10:00am	11-16-08	11-22-08	Effluent-Comp	RSW		X	ClO ₂ TP	SBO-18882
10:00am	11-16-08	11-22-08	Influent-Comp	RSW		X		
10:00am	10/6/2008		Effluent	RSW			X	RESUBMITTING

* MATRIX TYPES:
 CFW = Chlor(amin)ated Finished Water
 FW = Other Finished Water
 CW = Chlorinated Waste Water
 WW = Other Waste Water
 SW = Storm Water

Reported by Weight:
 SO = Soil
 SL = Sludge

REPORTED BY: Wendy Prescott SIGNATURE
 RECEIVED BY: Joe Sanchez SIGNATURE
 COMPANY/TITLE: Veloia Water NA for Kerr McGee Chemical LLC
 DATE: 11/24/2008 TIME: 12:00
 PRINT NAME: Wendy Prescott
 RECEIVED BY: Joe Sanchez SIGNATURE
 DATE: 11-25-08 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

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

SO# 45696 18882 RS

Sampler: Please Return this Paper with your samples

Created by GJY
 Order Date 11/17/08

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
 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#

GJY

Date Needed
 by Client

SHIP LOCATION

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
2	CLO4	1 125ml poly /no preservative AMBER IF WITH CLO3		Weekly Composites at INFLUENT-COMP EFFLUENT-COMP
-	-	-	-	COC should be labeled with IDs as above.
-	-	-	-	These are in lieu of the former samples that were arriving once a month as a series of weekly composites.
-	-	-	-	adjusted to 2 samples 5/05

Active Code Status Date Shipped Carrier Qty of Coolers Tracking Number Prepared By

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: 143454

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

From: TRONOX LLC

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 Federal Express		Date 11/24/08	FROM NO. STATION: STATE Henderson, NV 89015
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400		Authorization M. Skromyda	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER TRONOX LLC CODE NO. WCN IS 1321.10181	
N/A/R	CUSTOMER PO OR REQ'N NO.	SHIPPED FROM Henderson, NV	
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY
	Ice Chest with water samples 2 bottles – Influent, Effluent Not Regulated		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. TRONOX 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		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
		0	
1	TOTAL GROSS WEIGHT 8	TOTAL TARE WEIGHT 0	8
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.			
TRONOX LLC Shipper permanent post office address of shipper, PO Box 268659, Oklahoma City, OK 73126-8659	PER Carron Williams	AGENT	PER

From: Origin ID: LASA (702) 651-2230
TRONOX LLC
TRONOX LLC
8000 LAKE MEAD PARKWAY
SHIPPING DEPARTMENT
HENDERSON, NV 89015



JCL911288/2627

Ship Date: 24NOV08
ActWgt: 8.0 LB
CAD: 2274147/NET8091
Account#: S *****

Delivery Address Bar Code



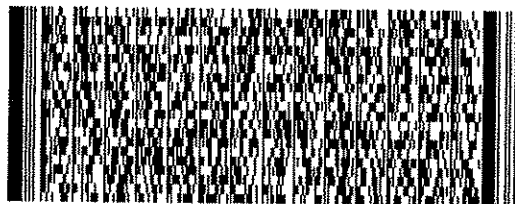
Ref # MSO #143454
Invoice #
PO #
Dept #

SHIP TO: (626) 568-6400 BILL SENDER
ATTN: SAMPLE RECEIVING
MONTGOMERY WATSON LABS
750 ROYAL OAKS DR # 100

MONROVIA, CA 91016

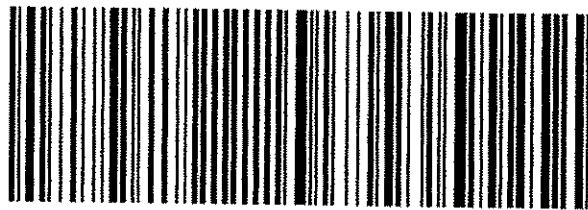
TRK# 7971 3516 6793
02071

TUE - 25NOV A2
PRIORITY OVERNIGHT



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.
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#: 259934
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on 11/25/08. 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
2811250302	EFFLUENT-COMP	CLO4	Water	22-nov-2008 10:00:00
2811250303	INFLUENT-COMP	CLO4	Water	22-nov-2008 10:00:00
2811250304	EFFLUENT	T-P	Water	06-oct-2008 10:00:00

Test Acronym Description

Test Acronym	Description
CLO4	Perchlorate
T-P	Total phosphorus as P



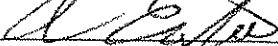
MWH Laboratories
A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Menlo Park, California 94025-3829
Tel: 626 388 1100
Fax: 626 388 1107
1 800 566 LABS (1 800 566 5227)

Report
Comments
#259934

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: 

Group Comments

T-P sample received past holding time.

(QC Ref#: 2811250304)

Test: Total phosphorus as P (S4500PF/ 365.1)

Q5 - Sample received with inadequate chemical preservation, but preserved by the laboratory.



MWH Laboratories

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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
Hits Report
#259934

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

Samples Received
25-nov-2008 17:17:12

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2811250302	EFFLUENT-COMP				
	2811250303	INFLUENT-COMP				
11/27/08	Perchlorate		254000		ug/l	20000
	2811250304	EFFLUENT				
12/03/08	Total phosphorus as P		0.14		mg/l	0.020

SUMMARY OF POSITIVE DATA ONLY.



MWH Laboratories

A Division of MWH Americas, Inc.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3828
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory
Data Report
#259934

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

Samples Received
11/25/08

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
EFFLUENT-COMP (2811250302)				Sampled on 11/22/08 10:00				
11/27/08 00:00	462031	(EPA 314)) Perchlorate	ND	ug/l	10	5
INFLUENT-COMP (2811250303)				Sampled on 11/22/08 10:00				
11/27/08 00:00	462031	(EPA 314)) Perchlorate	254000	ug/l	20000	5000
EFFLUENT (2811250304)				Sampled on 10/06/08 10:00				
12/03/08 14:38	462811	(S4500PF/ 365.1)		Total phosphorus as P	0.14(Q5)	mg/l	0.020	1



MWH Laboratories
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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
QC Summary
#259934

Tronox LLC - Henderson

QC Ref #462031 - Perchlorate

Analysis Date: 11/27/2008

2811250302

EFFLUENT-COMP

Analyzed by: ser

2811250303

INFLUENT-COMP

Analyzed by: ser

QC Ref #462811 - Total phosphorus as P

Analysis Date: 12/03/2008

2811250304

EFFLUENT

Analyzed by: njr



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
QC Report
#259934

Tronox LLC - Henderson

QC Ref #462031

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	11230070	UGL		(0-0)	
LCS1	Perchlorate	25.0	26.3	UGL	105.2	(85-115)	
LCS2	Perchlorate	25.0	25.5	UGL	102.0	(85-115)	
LCS3	Perchlorate	4	4.00	UGL	100.0	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	22.0	UGL	88.0	(80-120)	
MSD	Perchlorate	25.0	21.7	UGL	86.8	(80-120)	
RPD_LCS	Perchlorate	105.200	102.000	UGL	3.1	(0-15)	
RPD_MS	Perchlorate	88.000	86.800	UGL	1.0	(0-15)	

QC Ref #462811

Total phosphorus as P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	11250175	MGL		(0-0)	
LCS1	Total phosphorus as P	0.4	0.397	MGL	99.2	(90-110)	
LCS2	Total phosphorus as P	0.4	0.406	MGL	101.5	(90-110)	
MBLK	Total phosphorus as P	ND	<0.020	MGL			
MRL_CHK	Total phosphorus as P	0.02	0.015	MGL	75.0	(50-150)	
MS	Total phosphorus as P	0.4	0.421	MGL	105.2	(90-110)	
MS2	Total phosphorus as P	0.4	0.426	MGL	106.5	(90-110)	
MSD	Total phosphorus as P	0.4	0.411	MGL	102.7	(90-110)	
RPD_LCS	Total phosphorus as P	99.250	101.500	MGL	2.2	(0-10)	
RPD_MS	Total phosphorus as P	105.250	102.750	MGL	2.4	(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.



MWH Laboratories

A Division of MWH Americas, Inc.

760 Royal Oaks Drive, Suite 100
Monrovia, California 91015-3829
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: (405) 302-4607

DATE OF ISSUE
Nov 03 2008
MWH LABORATORIES

ADE Andy Eaton
Project Manager



Report#: 255906
Project: CLO4
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 16 page[s].



BUILDING A BETTER WORLD

November 4, 2008

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

Subject: Case Narrative report 255906

Enclosed is MWH Laboratories Report 255906

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on October 7, 2008 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:

TKN values were less than ammonia on the influent. This has been documented multiple times as an analytical interference with the TKN.

Ion chromatography analyses do not show actual analysis time for samples with holding times of >72 hours. Instead they show the time of first injection on a batch or 00:00.

The total suspended solids sample on the effluent was reanalyzed past holding time because of a high MRL. Initial analysis result was 25 mg/L and the re-analysis past hold time was 21 mg/L.

Radium 226/228 results were submitted by Pace Laboratories. Please see their case narrative for any issues.

Sincerely,

Andrew Eaton, PhD
Project Manager



MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

255900

NYLABS USE ONLY:

750 Royal Oaks dr, Suite 100 Montrovia, Ca., 91016-3629

SAMPLES CHECKED/LOGGED IN BY: JS/AS

(626) 386-1100 (800) 566-5227

SAMPLE TEMP, RECEIPT AT LAB: 2

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME: KERRMCGEE-MP PROJECT JOB # / P.O.#: Weekly Permit Compliance Samples - SO #6532 & #6534

SAMPLER SIGNATURE: Russell Speckin Tronox LLC - Henderson Plant PO Box 55 Henderson, NY 89009

SUSAN CROWLEY (702) 661-2287

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP	CL04	RADCWB (2 Bils)	NH3, NH3-DIST	pH, NO2-N, NO3-N, NH4-N, TSS	CL03	FF CR	T-F, TKN	Color	RA228EDD, RA226EDD (2 Bils)	CR	NO2-N, NO3-N, NH4-N	CM	SAMPLER COMMENTS
8:30 AM	10/6/2008		EFFLUENT	RSW	X		X	X	X	X	X	X	X	X	X	X	X	X	YGR
9:00	10/6/2008		INFLUENT	RSW	X		X	X	X	X	X	X	X	X	X	X	X	X	10/7/08

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

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

* 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

CWW = Chlorinated Waste Water, WW = Other Waste Water, SW = Storm Water

RELINQUISHED BY: [Signature] PRINT NAME: Russell Speckin

RECEIVED BY: [Signature] PRINT NAME: JOE SANCHEZ

COMPANY/TITLE: Veolia Water NA for Tronox LLC - Henderson Plant

DATE: 10-7-08 TIME: 12:00 PM

DATE: 10-7-08 TIME: 10:00 AM



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**

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

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

W Weekly
Week 1

SO# 44628 6534 RS

Sampler: Please Return this Paper with your samples

Created by GJY
Order Date 09/02/08
Date Needed by Client
Ship Sample Kits to
Veolia Water-Ironox 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
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#
GJY

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		
1	@RADCW8	2: 1 125 ml poly / no pres & 1 x 500 ml poly + 2 ml HNO3 (18%)	UN 2031	This is the weekly order for the EFFLUENT RAZ26/228 to be subbed to a NV certified lab
1	NH3, NH3-DIST	1 250 ml poly+ 1 ml H2SO4 (50%)	UN 2796	PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER - also use a LARGE COOLER
1	PH, NO2-N, NO3, N-INOR, TSS	1 500 ml poly/ no preservative SHORT HOLDING TIME!!!!		login - use profile #KERREFF
1	FE, CR	1 250ml poly acid rinsed + 1ml HNO3 (18%)	UN2031	for this site
1	T-P, TKN	1 250ml poly + 0.5ml H2SO4 (50%)	UN2796	CLIENT CODE CHANGED 7/25/03
1	COLOR	1 500ml amber glass / no preservative SHORT HOLDING TIME!!!!		Testcode for CRVI changed to IC effective 1/6/04
1	RA228EDD/RA226EDD	2 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMPLIANCE DL'S	UN 2031	Moved CBOD to separate order as of 10/21/04
1	CLO3	1 60ml poly+0.60 mL 5% EDA sofn	UN 1604	updated BO 12-8-05 - deleted some tests and changed Cr from MS to ICP.
1	CRVI-LOW	1125 ml poly/ 1 ml NH4SO4/NH4OH buffer	3077	added clo3 back 2-7-06
1	SYRINGE, SYRINGE FILTER, EXTRA BOTTLE	1 60 ml plastic syringe, 1 0.45 um syringe filter, 1 x 125 ml poly no pres		removed CRVI-LOW to sep BO 2-10-06
				added CRVI-LOW as of 4/11/07



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

W Weekly
Week 1

SO# 45029 6532 RS 0 **Sampler: Please Return this Paper with your samples**

Created by GJY
Order Date 09/22/08
Date Needed by Client
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
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

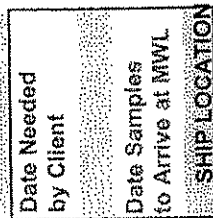
Quote# GJY

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

of Samples Tests

# of Samples	Tests	Carrier	Qty of Coolers	Tracking Number	Date Shipped	Status	Prepared By
1	CLO4						
1	NH3, NH3-DIST.						
1	CR						
1	T-P, TKN						
1	COLOR						
1	NO2-N, NO3, N-INOR						
1	CLO3						
1	CRVI-LOW						
1	SYRINGEFILTER/EXTRA BOTTLE						

This is a weekly sample of
INFLUENT
This cooler can be shipped out along with the EFFLUENT cooler as one order.
PLEASE SHIP EXTRA BLUE ICE DUE TO WARM WEATHER- also use a LARGE COOLER
Login - use Profile #KERRINF for this site
note to Login - notify Lisa when this sample comes in so she can run NO3 on her IC
Test code for CRVI changed to IC 1-8-04; 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;
CRVI-LOW added back to bottle order 4/11/07
Instructions regarding filtration for hex chrome provided via email



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: 143376

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

From: **TRONOX LLC**
 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 Federal Express		Date 10/06/08	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 <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER TRONOX LLC	
N/A/R		CODE NO. WCN IS 1321.10400	
CUSTOMER PO OR REQ'N NO.		If it moves between two ports by wafer, 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
	Weekly Discreets— (Influent – Effluent Weekly Grabs) Not Regulated One - ice chest @ 21 lbs One - ice chest @ 31 lbs		2 COOLERS
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. TRONOX 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		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
		0	
	TOTAL GROSS WEIGHT	TOTAL TARE WEIGHT	
2	52	0	52
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.			
TRONOX LLC Shipper permanent post office address of shipper, PO Box 268859, Oklahoma City, OK 73126-8859	PER Carron Williams	AGENT	PER

From: Origin ID: LASA (702)651-2230
TRONOX LLC
TRONOX LLC
8000 LAKE MEAD PARKWAY
SHIPPING DEPARTMENT
HENDERSON, NV 89015



CL5088104/2124

Ship Date: 06OCT08
ActWgt: 31 LB
CAD: 2274147/NET8091
Account#: S *****

Delivery Address Bar Code



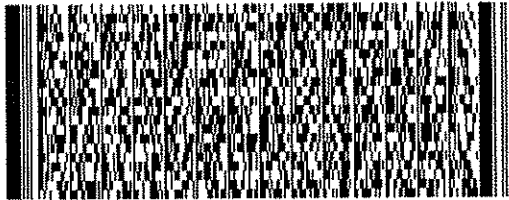
Ref # MSO #143376
Invoice #
PO #
Dept #

SHIP TO: 6265886400 **BILL SENDER**
ATTN: SAMPLE RECEIVING
MONTGOMERY WATSON LABS
750 ROYAL OAKS DR # 100

MONROVIA, CA 910163629

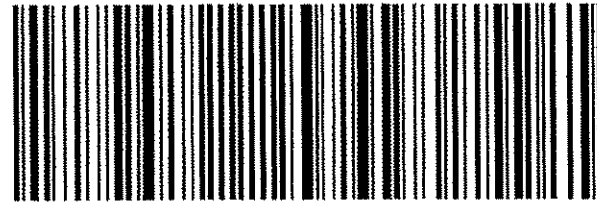
TUE - 07OCT A2
PRIORITY OVERNIGHT

TRK# 7905 9557 6606
0201



QZ WHPA

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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: 143376

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

From: TRONOX LLC

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 Federal Express		Date 10/06/08	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 <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		FULL NAME OF SHIPPER TRONOX LLC CODE NO. WCN IS 1321.10400	
N/A/R	CUSTOMER PO OR REQ'N NO.	SHIPPED FROM Henderson, NV	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.
LINE NO.	DESCRIPTION AND CLASSIFICATION	STOCK NO.	TOTAL QUANTITY
	Weekly Discreets— (Influent – Effluent Weekly Grabs) Not Regulated One - ice chest @ 21 lbs One - ice chest @ 31 lbs		2 COOLERS
			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. TRONOX 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		FOR CHEMICAL EMERGENCY-SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CALL CHEMTREC – DAY OR NIGHT 800-424-9300 483-7616 IN DISTRICT OF COLUMBIA 202-453-7616 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
		0	
2	TOTAL GROSS WEIGHT 52	TOTAL TARE WEIGHT 0	52
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 _____			
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TRONOX LLC Shipper permanent post office address of shipper, PO Box 268859, Oklahoma City, OK 73126-8859	PER Carron Williams	AGENT	PER

From: Origin ID: LASA (702)651-2230
TRONOX LLC
TRONOX LLC
8000 LAKE MEAD PARKWAY
SHIPPING DEPARTMENT
HENDERSON, NV 89015



CLSE02108/2174

Ship Date: 06OCT08
ActWgt: 21 LB
CAD: 2274147/INET8091
Account#: S *****

Delivery Address Bar Code



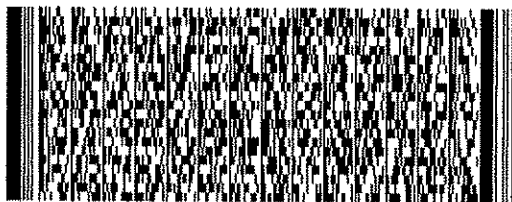
Ref # MSO #143376
Invoice #
PO #
Dept #

SHIP TO: 6265886400 BILL SENDER
ATTN: SAMPLE RECEIVING
MONTGOMERY WATSON LABS
750 ROYAL OAKS DR # 100

MONROVIA, CA 910163629

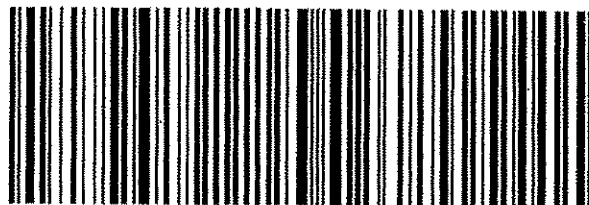
TRK# 7980 3064 0755
0201

TUE - 07OCT A2
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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#: 255906
 Project#: CLO4
 Proj Mgr: Andrew Eaton
 Phone: (626) 386-1125

The following samples were received from you on 10/07/08. 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
2810070126	EFFLUENT	Water	06-oct-2008 08:30:00
	Tests Scheduled		
	@R226EDD @R228EDD @RADCWB CLO3 CLO4 COLOR		
	CR CRVI-LOW FE N-INOR NH3 NH3-DIST		
	NO2-N NO3 P PH T		
	TKN TSS		
2810070127	INFLUENT	Water	06-oct-2008 09:00:00
	Tests Scheduled		
	CLO3 CLO4 COLOR CR CRVI-LOW N-INOR		
	NH3 NH3-DIST NO2-N NO3 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
CRVI-LOW	Hexavalent chromium(Dissolved)
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
P	Metals sample pH
PH	PH (H3=past HT, not compliant)
T	Metals Turbidity
T-P	Total phosphorus as P
TKN	Kjeldahl Nitrogen
TSS	Total Suspended Solids (TSS)



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Report
Comments
#255906

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: _____

Group Comments

Analytical results for Radium 226 & Radium 228 are submitted by Pace Analytical Services, PA. Nevada Cert PA91-2004-77

(QC Ref#: 2810070126)

Test: Total Suspended Solids (TSS) (SM 2540D)

Sample was originally analyzed within HT on 10/10. But the MRL was over range. But the Mblank was ND. Result was 25mg/L. Data was not reported.

HA - Initial analysis within holding time. Reanalysis was past holding time.



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Laboratory
Hits Report
#255906

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

Samples Received
07-oct-2008 15:49:19

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2810070126	EFFLUENT				
10/20/08		Radium 226	<0.597	3	pCi/l	0.28
10/20/08		Radium 226, Minimal Detectable	0.597		pCi/l	
10/20/08		Radium 226, Two Sigma Error	0.276		pCi/l	
10/17/08		Radium 228	<0.792	5	pCi/l	0.79
10/17/08		Radium 228, Minimum Detectable	0.792		pCi/l	
10/17/08		Radium 228, Two Sigma Error	0.440		pCi/l	
10/15/08		Alpha, Gross	33	15	pCi/l	12
10/15/08		Alpha, Min Detectable Activity	11.6		pCi/l	
10/15/08		Alpha, Two Sigma Error	13		pCi/l	
10/15/08		Gross Alpha + adjusted error	43.9		pCi/l	
10/13/08		Ammonia Nitrogen	3.2		mg/l	0.25
10/07/08		Apparent Color	10	15	ACU	3.0
10/30/08		Chromium, Total, ICAP	0.015		mg/l	0.010
10/30/08		Iron, Total, ICAP	2.1	0.3	mg/l	0.020
10/09/08		Kjeldahl Nitrogen	5.7		mg/l	0.20
10/21/08		Metals digestion performed.	Y		Yes/No	
10/07/08		PH (H3=past HT, not compliant)	6.6	6.5-8.5	Units	0.010
10/15/08		Total Inorganic Nitrogen-Calc	3.2		mg/l	0.20
10/16/08		Total Suspended Solids (TSS)	21		mg/l	10
10/08/08		Total phosphorus as P	6.7		mg/l	0.20
	2810070127	INFLUENT				
10/13/08		Ammonia Nitrogen	11		mg/l	0.50
10/07/08		Apparent Color	25	15	ACU	3.0
10/22/08		Chlorate by IC	392000		ug/l	10000
10/10/08		Chromium, Total, ICAP	0.021		mg/l	0.010
10/07/08		Hexavalent chromium(Dissolved)	16		ug/l	0.50
10/09/08		Kjeldahl Nitrogen	4.8		mg/l	1.0
10/14/08		Metals digestion performed.	Y		Yes/No	

SUMMARY OF POSITIVE DATA ONLY.



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Laboratory
Hits Report
#255906

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

Samples Received
07-oct-2008 15:49:19

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2810070127	INFLUENT				
10/07/08		Nitrate as Nitrogen by IC	12	10	mg/l	5.0
10/16/08		Perchlorate	315000		ug/l	20000
10/15/08		Total Inorganic Nitrogen-Calc	23.		mg/l	0.20
10/17/08		Total phosphorus as P	0.07		mg/l	0.020



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Laboratory
Data Report
#255906

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

Samples Received
10/07/08

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
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EFFLUENT (2810070126)

Sampled on 10/06/08 08:30

10/20/08 22:40	456712	(ML/EPA 300.0)	Chlorate by IC	ND	ug/l	50	5
10/11/08 15:28	455100	(EPA 314)	Perchlorate	ND	ug/l	10	5
10/07/08 00:00	455107	(SM 2120B)	Apparent Color	10	ACU	3.0	1
10/30/08 00:37	458223	(ML/EPA 200.7)	Chromium, Total, ICAP	0.015	mg/l	0.010	1
10/07/08 11:25	454592	(EPA 218.6)	Hexavalent chromium(Dissolved)	ND	ug/l	0.10	1
10/21/08 14:10		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
10/30/08 00:37	458228	(ML/EPA 200.7)	Iron, Total, ICAP	2.1	mg/l	0.020	1
10/15/08 12:30		(EPA 300.0)	Total Inorganic Nitrogen-Calc	3.2	mg/l	0.20	1
10/13/08 14:47	455507	(EPA 350.1)	Ammonia Nitrogen	3.2	mg/l	0.25	5
10/07/08 00:00	457015	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
10/07/08 12:55	454724	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/l	5.0	50
10/07/08 00:00	454574	(SM 4500-HB)	PH (H3-past NT, not compliant)	6.6	Units	0.010	1
10/08/08 11:37	454664	(S4500PF/ 365.1)	Total phosphorus as P	6.7	mg/l	0.20	10
10/09/08 14:39	455020	(EPA 351.2)	Kjeldahl Nitrogen	5.7	mg/l	0.20	1
10/16/08 16:00	456373	(SM 2540D)	Total Suspended Solids (TSS)	21(HA)	mg/l	10	1

Gross Alpha Radiation

10/15/08 16:20	456168	(EPA 900.0)	Alpha, Gross	33	pCi/l	12	1
10/15/08 16:20	456168	(EPA 900.0)	Gross Alpha + adjusted error	43.9	pCi/l	0	1
10/15/08 16:20	456168	(EPA 900.0)	Alpha, Two Sigma Error	13	pCi/l	0	1
10/15/08 16:20	456168	(EPA 900.0)	Alpha, Min Detectable Activity	11.6	pCi/l	0	1

Radium 226 (Sub)

10/20/08 00:00		(EPA 903.1)	Radium 226	<0.597	pCi/l	0.28	1
10/20/08 00:00		(EPA 903.1)	Radium 226, Two Sigma Error	0.276	pCi/l	0	1
10/20/08 00:00		(EPA 903.1)	Radium 226, Minimal Detectable	0.597	pCi/l	0	1

Radium 228 (Sub)

10/17/08 00:00		(EPA 904.0)	Radium 228	<0.792	pCi/l	0.79	1
10/17/08 00:00		(EPA 904.0)	Radium 228, Two Sigma Error	0.440	pCi/l	0	1
10/17/08 00:00		(EPA 904.0)	Radium 228, Minimum Detectable	0.792	pCi/l	0	1



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Laboratory
Data Report
#255906

Tronox LLC - Henderson
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
INFLUENT (2810070127)				Sampled on 10/06/08 09:00				
	10/22/08 15:36	457182	(ML/EPA 300.0)	Chlorate by IC	392000	ug/l	10000	1000
	10/16/08 00:24	456166	(EPA 314)	Perchlorate	315000	ug/l	20000	5000
	10/07/08 00:00	455107	(SM 2120B)	Apparent Color	25	ACU	3.0	1
	10/10/08 23:56	455115	(ML/EPA 200.7)	Chromium, Total, ICAP	0.021	mg/l	0.010	1
	10/07/08 12:06	454592	(EPA 218.6)	Hexavalent chromium(Dissolved)	16	ug/l	0.50	5
	10/14/08 15:41		(EPA 200 Prep)	Metals digestion performed.	Y	Yes/No	0	1
	10/15/08 12:30		(EPA 300.0)	Total Inorganic Nitrogen-Calc	23.	mg/l	0.20	1
	10/13/08 14:47	455507	(EPA 350.1)	Ammonia Nitrogen	11	mg/l	0.50	10
	10/07/08 00:00	457015	(ML/EPA 300.0)	Nitrite, Nitrogen by IC	ND	mg/l	5.0	50
	10/07/08 13:08	454724	(ML/EPA 300.0)	Nitrate as Nitrogen by IC	12	mg/l	5.0	50
	10/17/08 13:08	456182	(S4500PF/ 365.1)	Total phosphorus as P	0.07	mg/l	0.020	1
	10/09/08 14:39	455020	(EPA 351.2)	Kjeldahl Nitrogen	4.8	mg/l	1.0	5



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Laboratory
QC Summary
#255906

Tronox LLC - Henderson

QC Ref #0	- Metals sample pH	Analysis Date: 10/10/2008
2810070126	EFFLUENT	Analyzed by: jrf
2810070126	EFFLUENT	Analyzed by: jrf
2810070127	INFLUENT	Analyzed by: jrf
2810070127	INFLUENT	Analyzed by: jrf
QC Ref #454574	- PH (H3=past HT, not compliant)	Analysis Date: 10/07/2008
2810070126	EFFLUENT	Analyzed by: sar
QC Ref #454592	- Hexavalent chromium(Dissolved)	Analysis Date: 10/07/2008
2810070126	EFFLUENT	Analyzed by: tlh
2810070127	INFLUENT	Analyzed by: tlh
QC Ref #454664	- Total phosphorus as P	Analysis Date: 10/08/2008
2810070126	EFFLUENT	Analyzed by: njr
QC Ref #454724	- Nitrate as Nitrogen by IC	Analysis Date: 10/07/2008
2810070126	EFFLUENT	Analyzed by: sxk
2810070127	INFLUENT	Analyzed by: sxk
QC Ref #455020	- Kjeldahl Nitrogen	Analysis Date: 10/09/2008
2810070126	EFFLUENT	Analyzed by: njr
2810070127	INFLUENT	Analyzed by: njr
QC Ref #455100	- Perchlorate	Analysis Date: 10/11/2008
2810070126	EFFLUENT	Analyzed by: ser



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Laboratory
QC Summary
#255906

Tronox LLC - Henderson
(continued)

QC Ref #455107	- Apparent Color	Analysis Date: 10/07/2008
2810070126	EFFLUENT	Analyzed by: nem
2810070127	INFLUENT	Analyzed by: nem
QC Ref #455115	- Chromium, Total, ICAP	Analysis Date: 10/10/2008
2810070127	INFLUENT	Analyzed by: csk
QC Ref #455507	- Ammonia Nitrogen	Analysis Date: 10/13/2008
2810070126	EFFLUENT	Analyzed by: njr
2810070127	INFLUENT	Analyzed by: njr
QC Ref #456166	- Perchlorate	Analysis Date: 10/16/2008
2810070127	INFLUENT	Analyzed by: ser
QC Ref #456168	- Gross Alpha Radiation	Analysis Date: 10/15/2008
2810070126	EFFLUENT	Analyzed by: mal
QC Ref #456182	- Total phosphorus as P	Analysis Date: 10/17/2008
2810070127	INFLUENT	Analyzed by: njr
QC Ref #456373	- Total Suspended Solids (TSS)	Analysis Date: 10/16/2008
2810070126	EFFLUENT	Analyzed by: yaa



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Laboratory
QC Summary
#255906

Tronox LLC - Henderson
(continued)

QC Ref #456712 - Chlorate by IC	Analysis Date: 10/20/2008
2810070126 EFFLUENT	Analyzed by: ser
QC Ref #457015 - Nitrite, Nitrogen by IC	Analysis Date: 10/07/2008
2810070126 EFFLUENT	Analyzed by: sxk
2810070127 INFLUENT	Analyzed by: sxk
QC Ref #457182 - Chlorate by IC	Analysis Date: 10/22/2008
2810070127 INFLUENT	Analyzed by: ser
QC Ref #458223 - Chromium, Total, ICAP	Analysis Date: 10/30/2008
2810070126 EFFLUENT	Analyzed by: csk
QC Ref #458228 - Iron, Total, ICAP	Analysis Date: 10/30/2008
2810070126 EFFLUENT	Analyzed by: csk



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QC Ref #454574 PH (H3=past HT, not compliant)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	10070126	UNIT		(0-0)	
DUP	PH (H3=past HT, not compliant)	6.64	6.68	UNIT		(0-20)	0.6

QC Ref #454592 Hexavalent chromium(Dissolved)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	10060338	UGL		(0-0)	
LCS1	Hexavalent chromium(Dissolved)	2.0	1.93	UGL	96.5	(90-110)	
LCS2	Hexavalent chromium(Dissolved)	2.0	2.01	UGL	100.5	(90-110)	
MBLK	Hexavalent chromium(Dissolved)	ND	<0.10	UGL			
MRL_CHK	Hexavalent chromium(Dissolved)	0.100	0.100	UGL	100.0	(50-150)	
MS	Hexavalent chromium(Dissolved)	2.0	1.94	UGL	97.0	(90-110)	
MSD	Hexavalent chromium(Dissolved)	2.0	1.94	UGL	97.0	(90-110)	
RPD_LCS	Hexavalent chromium(Dissolved)	96.500	100.500	UGL	4.1	(0-20)	
RPD_MS	Hexavalent chromium(Dissolved)	97.000	97.000	UGL	0.0	(0-20)	

QC Ref #454664 Total phosphorus as P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	10030116	MGL		(0-0)	
LCS1	Total phosphorus as P	0.4	0.380	MGL	95.0	(90-110)	
LCS2	Total phosphorus as P	0.4	0.386	MGL	96.5	(90-110)	
MBLK	Total phosphorus as P	ND	<0.020	MGL			
MRL_CHK	Total phosphorus as P	0.02	0.016	MGL	80.0	(50-150)	
MS	Total phosphorus as P	0.4	0.410	MGL	102.5	(90-110)	
MS2	Total phosphorus as P	0.4	0.400	MGL	100.0	(90-110)	
MSD	Total phosphorus as P	0.4	0.402	MGL	100.5	(90-110)	
RPD_LCS	Total phosphorus as P	95.000	96.500	MGL	1.6	(0-10)	
RPD_MS	Total phosphorus as P	102.500	100.500	MGL	2.0	(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.



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(continued)

QC Ref #454724

Nitrate as Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSNP	Spiked sample	Lab # 28	10070144	MGL		(0-0)	
AASPKSNP	Spiked sample	Lab # 28	10080130	MGL		(0-0)	
LCS1	Nitrate as Nitrogen by IC	2.5	2.4	MGL	96.0	(90-110)	
LCS2	Nitrate as Nitrogen by IC	2.5	2.43	MGL	97.2	(90-110)	
MBLK	Nitrate as Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrate as Nitrogen by IC	0.050	0.0504	MGL	100.8	(50-150)	
MS	Nitrate as Nitrogen by IC	1.25	1.26	MGL	100.8	(87-121)	
MSD	Nitrate as Nitrogen by IC	1.25	1.25	MGL	100.0	(87-121)	
RPD_LCS	Nitrate as Nitrogen by IC	96.000	97.200	MGL	1.2	(0-20)	
RPD_MS	Nitrate as Nitrogen by IC	100.800	100.000	MGL	0.8	(0-20)	

QC Ref #455020

Kjeldahl Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	10020421	MGL		(0-0)	
LCS1	Kjeldahl Nitrogen	4	4.28	MGL	107.0	(90-110)	
LCS2	Kjeldahl Nitrogen	4	4.27	MGL	106.7	(90-110)	
MBLK	Kjeldahl Nitrogen	ND	<0.20	MGL			
MRL_CHK	Kjeldahl Nitrogen	0.1	0.111	MGL	111.0	(50-150)	
MS	Kjeldahl Nitrogen	4	4.00	MGL	100.0	(90-110)	
MSD	Kjeldahl Nitrogen	4	4.17	MGL	104.2	(90-110)	
MS_2ND	Kjeldahl Nitrogen	4	4.11	MGL	102.8	(90-110)	
RPD_LCS	Kjeldahl Nitrogen	107.000	106.750	MGL	0.2	(0-20)	
RPD_MS	Kjeldahl Nitrogen	100.000	104.250	MGL	4.2	(0-20)	

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Tronox LLC - Henderson
(continued)

QC Ref #455100 Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	10060011	UGL		(0-0)	
LCS1	Perchlorate	25.0	24.8	UGL	99.2	(85-115)	
LCS2	Perchlorate	25.0	26.4	UGL	105.6	(85-115)	
LCS3	Perchlorate	4	3.99	UGL	99.8	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.6	UGL	94.4	(80-120)	
MSD	Perchlorate	25.0	23.7	UGL	94.8	(80-120)	
RPD_LCS	Perchlorate	99.200	105.600	UGL	6.2	(0-15)	
RPD_MS	Perchlorate	94.400	94.800	UGL	1.0	(0-15)	

QC Ref #455107 Apparent Color

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

QC Ref #455115 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(85-115)	
MBLK	Chromium, Total, ICAP	ND	<0.010	MGL			
MRL_CHK	Chromium, Total, ICAP	0.010	0.011	MGL	110.0	(50-150)	
MS	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(70-130)	
MS2	Chromium, Total, ICAP	1.00	1.05	MGL	105.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	1.03	MGL	103.0	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	1.02	MGL	102.0	(70-130)	

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Tronox LLC - Henderson
(continued)

QC Ref #455507

Ammonia Nitrogen

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	10110004	MGL		(0-0)	
LCS1	Ammonia Nitrogen	1.00	1.04	MGL	104.0	(90-110)	
LCS2	Ammonia Nitrogen	1.00	1.04	MGL	104.0	(90-110)	
MBLK	Ammonia Nitrogen	ND	<0.050	MGL			
MRL_CHK	Ammonia Nitrogen	0.05	0.045	MGL	90.0	(50-150)	
MS	Ammonia Nitrogen	1.00	1.08	MGL	108.0	(90-110)	
MSD	Ammonia Nitrogen	1.00	1.07	MGL	107.0	(90-110)	
MS_2ND	Ammonia Nitrogen	1	0.991	MGL	99.1	(90-110)	
RPD_LCS	Ammonia Nitrogen	104.000	104.000	MGL	0.0	(0-20)	
RPD_MS	Ammonia Nitrogen	108.000	107.000	MGL	0.9	(0-20)	

QC Ref #456166

Perchlorate

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	10100468	UGL		(0-0)	
LCS1	Perchlorate	25.0	23.7	UGL	94.8	(85-115)	
LCS2	Perchlorate	25.0	25.5	UGL	102.0	(85-115)	
LCS3	Perchlorate	4	3.31	UGL	82.8	(75-125)	
MBLK	Perchlorate	ND	<4.0	UGL			
MS	Perchlorate	25.0	23.5	UGL	94.0	(80-120)	
MSD	Perchlorate	25.0	22.5	UGL	90.0	(80-120)	
RPD_LCS	Perchlorate	94.800	102.000	UGL	7.3	(0-15)	
RPD_MS	Perchlorate	94.000	90.000	UGL	1.0	(0-15)	

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(continued)

QC Ref #456168 Gross Alpha and Beta Radiation

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	0060243	PCIL		(0-0)	
DUP	Alpha, Gross	5.28	3.83	PCIL		(0-20)	<u>31.8</u>
LCS1	Alpha, Gross	33.2	31.3	PCIL	94.3	(80-120)	
LCS2	Alpha, Gross	33.2	32.7	PCIL	98.5	(80-120)	
MBLK	Alpha, Gross	ND	<3.0	PCIL			
MS	Alpha, Gross	33.2	41.0	PCIL	123.5	(70-130)	
RPD_LCS	Alpha, Gross	94.277	98.494	PCIL	4.4	(0-20)	
DUP	Beta, Gross	ND	ND	PCIL		(0-20)	
LCS1	Beta, Gross	31.4	36.2	PCIL	115.3	(80-120)	
LCS2	Beta, Gross	31.4	35.4	PCIL	112.7	(80-120)	
MBLK	Beta, Gross	ND	<3.0	PCIL			
MS	Beta, Gross	31.4	33.0	PCIL	105.1	(70-130)	
RPD_LCS	Beta, Gross	115.287	112.739	PCIL	2.2	(0-20)	

QC Ref #456182 Total phosphorus as P

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	10140086	MGL		(0-0)	
LCS1	Total phosphorus as P	0.4	0.366	MGL	91.5	(90-110)	
LCS2	Total phosphorus as P	0.4	0.369	MGL	92.2	(90-110)	
MBLK	Total phosphorus as P	ND	<0.020	MGL			
MRL_CHK	Total phosphorus as P	0.02	0.019	MGL	95.0	(50-150)	
MS	Total phosphorus as P	0.4	0.386	MGL	96.5	(90-110)	
MS2	Total phosphorus as P	0.4	0.328	MGL	<u>82.0</u>	(90-110)	
MSD	Total phosphorus as P	0.4	0.390	MGL	97.5	(90-110)	
RPD_LCS	Total phosphorus as P	91.500	92.250	MGL	0.8	(0-10)	
RPD_MS	Total phosphorus as P	96.500	97.500	MGL	1.0	(0-20)	

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(continued)

QC Ref #456373 Total Suspended Solids (TSS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	10140604	MGL		(0-0)	
LCS1	Total Suspended Solids (TSS)	175	176	MGL	100.6	(71-107)	
LCS2	Total Suspended Solids (TSS)	175	172	MGL	98.3	(71-107)	
MBLK	Total Suspended Solids (TSS)	ND	<10	MGL			
MRL_CHK	Total Suspended Solids (TSS)	10.0	9	MGL	90.0	(50-150)	

QC Ref #456712 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	10180106	UGL		(0-0)	
LCS1	Chlorate by IC	200	186	UGL	93.0	(90-110)	
LCS2	Chlorate by IC	200	185	UGL	92.5	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	9.46	UGL	94.6	(50-150)	
MS	Chlorate by IC	100	94.6	UGL	94.6	(75-125)	
MSD	Chlorate by IC	100	93.7	UGL	93.7	(75-125)	
RPD_LCS	Chlorate by IC	93.000	92.500	UGL	0.5	(0-20)	
RPD_MS	Chlorate by IC	94.600	93.700	UGL	1.0	(0-20)	

QC Ref #457015 Nitrite, Nitrogen by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	10070144	MGL		(0-0)	
LCS1	Nitrite, Nitrogen by IC	1.0	0.931	MGL	93.1	(90-110)	
LCS2	Nitrite, Nitrogen by IC	1.0	0.940	MGL	94.0	(90-110)	
MBLK	Nitrite, Nitrogen by IC	ND	<0.10	MGL			
MRL_CHK	Nitrite, Nitrogen by IC	0.050	0.0479	MGL	95.8	(50-150)	
MS	Nitrite, Nitrogen by IC	0.500	0.462	MGL	92.4	(69-123)	
MSD	Nitrite, Nitrogen by IC	0.500	0.459	MGL	91.8	(69-123)	

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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(continued)

RPD_LCS	Nitrite, Nitrogen by IC	93.100	94.000	MGL	1.0	(0-20)
RPD_MS	Nitrite, Nitrogen by IC	92.400	91.800	MGL	0.7	(0-20)

QC Ref #457182 Chlorate by IC

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	10160020	UGL		(0-0)	
LCS1	Chlorate by IC	200	190	UGL	95.0	(90-110)	
LCS2	Chlorate by IC	200	190	UGL	95.0	(90-110)	
MBLK	Chlorate by IC	ND	<10	UGL			
MRL_CHK	Chlorate by IC	10.000	9.71	UGL	97.1	(50-150)	
MS	Chlorate by IC	100	95.7	UGL	95.7	(75-125)	
MSD	Chlorate by IC	100	94.6	UGL	94.6	(75-125)	
RPD_LCS	Chlorate by IC	95.000	95.000	UGL	0.0	(0-20)	
RPD_MS	Chlorate by IC	95.700	94.600	UGL	1.2	(0-20)	

QC Ref #458223 Chromium, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Chromium, Total, ICAP	1.00	0.982	MGL	98.2	(85-115)	
LCS2	Chromium, Total, ICAP	1.00	0.976	MGL	97.6	(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	0.995	MGL	99.5	(70-130)	
MS2	Chromium, Total, ICAP	1.00	0.980	MGL	98.0	(70-130)	
MSD	Chromium, Total, ICAP	1.00	0.986	MGL	98.6	(70-130)	
MSD2	Chromium, Total, ICAP	1.00	0.967	MGL	96.7	(70-130)	

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Tronox LLC - Henderson
 (continued)

QC Ref #458228

Iron, Total, ICAP

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Iron, Total, ICAP	5.0	4.98	MGL	99.6	(85-115)	
LCS2	Iron, Total, ICAP	5.0	4.93	MGL	98.6	(85-115)	
MBLK	Iron, Total, ICAP	ND	<0.020	MGL			
MRL_CHK	Iron, Total, ICAP	0.020	0.0251	MGL	125.5	(50-150)	
MS	Iron, Total, ICAP	5.0	5.05	MGL	101.0	(70-130)	
MS2	Iron, Total, ICAP	5.0	4.84	MGL	96.8	(70-130)	
MSD	Iron, Total, ICAP	5.0	4.95	MGL	99.0	(70-130)	
MSD2	Iron, Total, ICAP	5.0	4.83	MGL	96.6	(70-130)	
RPD_LCS	Iron, Total, ICAP	99.600	98.600	MGL	1.0	(0-20)	
RPD_MS	Iron, Total, ICAP	101.000	99.000	MGL	2.0	(0-20)	

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 Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates
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October 21, 2008

Ms. Christine Lewis
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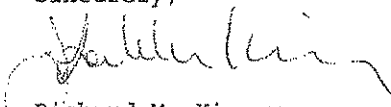
Wastewater Characterization; Purchase Order No. 99-35346
PACE-PA 255906; NV Cert PA01458, Expires 7/31/09, WW 226/228;
MWH Laboratories
Pace Project No. 08-4198

Dear Ms. Lewis:

Enclosed are analytical results for the sample submitted by MWH Americas, Inc. The sample was received and logged in for analysis on October 9, 2008.

Methods used are indicated on the attached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace Analytical Services, Inc. - Pittsburgh Quality Insurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the case narrative(s) of this report. If you have any questions, please call me at 724-850-5600.

Sincerely,



Richard M. Kinney
Radiochemistry Laboratory Supervisor

RMK:ljj

Enclosures

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REPORT OF LABORATORY ANALYSIS

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0001

PACE ANALYTICAL SERVICES, INC.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

PACE: 08-4198
CLIENT: Purchase Order Number: 99-35346

B: SAMPLE IDENTIFICATIONS:

PACE: 0810-0385
CLIENT: 2810070126

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: RADIOLOGICAL:

NONE

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Sample(s) analyzed and reported on an as-received basis.

Table 1

General Data Table
MWH Americas, Inc.

Pace Project No. 08-4198

Wastewater Characterization; PACE-PA 255906

Charge Order No. 99-35946; NV Cert PA01458, Expires 7/31/09, MW 226/228

Parameter	Analytical Method	Units	Analyzed	Sample Identification	Act. ± Unc. (MDC)
Ra-226	EPA 903.1	pCi/L	10/20/08	0810-0385	0.081 ± 0.276 (0.597)
Ra-228	EPA 904.0	pCi/L	10/17/08	2810070126 (10/6/08)	0.773 ± 0.440 (0.792)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Table 1
(Continued)

Parameter	Analytical Method	Units	Analyzed	Sample Identification	
				Act. ± Unc (MDC)	Method Blank (10/9/08)
Ra-226	EPA 903.1	pCi/L	10/20/08	0.191 ± 0.460	(0.886)
Ra-228	EPA 904.0	pCi/L	10/17/08	0.925 ± 0.428	(694)

Act=Activity, Unc=2 sigma Uncertainty and (MDC)=the associated Minimum Detectable Concentration.

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Re-226
 Analyst: CMC
 Date: 10/20/2008
 Worklist: 17267
 Matrix: DW

Method Blank Assessment

MB Sample ID: MB17267
 MB Concentration: 0.191
 MB Counting Uncertainty: 0.458
 MB MDC: 0.899
 MB Numerical Performance Indicator: 3.48
 MB Status vs Numerical Indicator: N/A
 MB Status vs MDC: Pass

Laboratory Control Sample Assessment

Count Date:	LCSD (Y or N)?	Y
10/20/2008	LCSD17267	
Spike I.D.: 08-003	10/20/2008	
Spike Concentration (pCi/mL): 59.841	08-003	
Volume Used (mL): 0.10	59.841	
Aliquot Volume (L, g, F): 0.500	0.10	
Target Conc. (pCi/L, g, F): 11.968	0.500	
Uncertainty (Calculated): 0.287	11.968	
Result (pCi/L, g, F): 12.930	0.287	
Counting Uncertainty (pCi/L, g, F): 2.047	12.930	
Numerical Performance Indicator: 0.91	2.047	
Status vs Numerical Indicator: 108.04%	0.91	
Status vs Recovery: N/A	108.04%	
	N/A	
	Pass	

Duplicate Sample Assessment

Sample I.D.: LCS17267
 Duplicate Sample I.D.: LCS017267
 Sample Result (pCi/L, g, F): 12.930
 Sample Result Counting Uncertainty (pCi/L, g, F): 2.047
 Sample Duplicate Result (pCi/L, g, F): 9.881
 Sample Duplicate Result Counting Uncertainty (pCi/L, g, F): 1.715
 Are sample and/or duplicate results below MDC? NO
 Duplicate Numerical Performance Indicator: 2.252
 Duplicate RPD: 26.93%
 Duplicate Status vs Numerical Indicator: N/A
 Duplicate Status vs RPD: Pass

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

Sample Matrix Spike Control Assessment

Sample Collection Date: 10/20/2008
 Sample I.D.: 0810-0838
 Sample MS I.D.: 0810-0838MS
 Sample MSD I.D.: 08-003
 Spike I.D.: 59.841
 Spike Volume Used in MS (mL): 0.20
 MS/MSD Decay Corrected Spike Concentration (pCi/mL): 0.500
 Spike Volume Used in MSD (mL): 23.937
 MS Aliquot (L, g, F):
 MS Target Conc. (pCi/L, g, F):
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/L, g, F):
 Spike uncertainty (calculated):
 Spike Result:
 Sample Result Counting Uncertainty (pCi/L, g, F):
 Sample Matrix Spike Result:
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 MS Numerical Performance Indicator: 0.364
 MSD Numerical Performance Indicator: 102.21%
 MS Percent Recovery:
 MSD Percent Recovery:
 MS Status vs Numerical Indicator:
 MSD Status vs Numerical Indicator:
 MS Status vs Recovery:
 MSD Status vs Recovery:
 Pass

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
 Sample MS I.D.:
 Sample MSD I.D.:
 Sample Matrix Spike Result:
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 Duplicate Numerical Performance Indicator:
 MS/MSD Duplicate RPD:
 MS/MSD Duplicate Status vs Numerical Indicator:
 MS/MSD Duplicate Status vs RPD:

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

QC 10/20/08

Comments:



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: MBT
 Date: 10/17/2008
 Worksheet: 17266
 Matrix: DW

Method Blank Assessment

MB Sample ID: MB17266
 MB Concentration: 0.925
 MB Counting Uncertainty: 0.392
 MB MDC: 0.694
 MB Numerical Performance Indicator: 4.63
 MB Status vs Numerical Indicator: N/A
 MB Status vs MDC: See Comment*

Laboratory Control Sample Assessment

Count Date:	Count	Count
10/17/2008	08-005	08-005
10/17/2008	100.779	100.779
10/17/2008	0.10	0.10
10/17/2008	0.899	0.899
10/17/2008	12.597	12.597
10/17/2008	0.391	0.391
10/17/2008	9.483	9.483
10/17/2008	0.857	0.857
10/17/2008	-4.88	-7.01
10/17/2008	81.29%	74.65%
10/17/2008	N/A	N/A
10/17/2008	Pass	Pass

Duplicate Sample Assessment

Sample I.D.:	Duplicate Sample I.D.:	Sample Result (pCi/L, g, F):	Duplicate Result (pCi/L, g, F):	Sample Duplicate Counting Uncertainty (pCi/L, g, F):	Duplicate Counting Uncertainty (pCi/L, g, F):	Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	Duplicate Result Counting Uncertainty (pCi/L, g, F):	Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	Duplicate Result Counting Uncertainty (pCi/L, g, F):	Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	Duplicate Result Counting Uncertainty (pCi/L, g, F):	Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	Duplicate Result Counting Uncertainty (pCi/L, g, F):
LCSD17266	LCSD17266	10.251	10.251	0.857	0.857	9.403	9.403	0.805	0.805	NO	NO	1.416	1.416
LCSD17266	LCSD17266	8.63%	8.63%	N/A	N/A	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Sample Matrix Spike Control Assessment

Sample Collection Date: 9/26/2008
 Sample I.D.: 0810-0035
 Sample MS I.D.: 0810-0355MS
 Sample MSD I.D.: 08-005
 Spike I.D.: 101-497
 0.20
 0.800
 25.374
 MSMSD Decay Corrected Spike Concentration (pCi/mL):
 Spike Volume Used in MS (mL):
 MS Aliquot (L, g, F):
 MS Target Conc. (pCi/L, g, F):
 MSD Aliquot (L, g, F):
 MSD Target Conc. (pCi/L, g, F):
 Spike Uncertainty (calculated):
 Sample Result:
 Sample Matrix Spike Result:
 Sample Result Counting Uncertainty (pCi/L, g, F):
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
 Sample Matrix Spike Duplicate Result:
 Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 MS Numerical Performance Indicator:
 MS Numerical Performance Indicator:
 MS Percent Recovery:
 MS Percent Recovery:
 MS Status vs Numerical Indicator:
 MS Status vs Numerical Indicator:
 MS Status vs Recovery:
 MS Status vs Recovery:

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:
 Sample MS I.D.:
 Sample MSD I.D.:
 Sample Matrix Spike Result:
 Sample Matrix Spike Duplicate Result:
 Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
 MS Numerical Performance Indicator:
 MS Numerical Performance Indicator:
 MS Status vs Numerical Indicator:
 MS Status vs Numerical Indicator:
 MS Status vs Recovery:
 MS Status vs Recovery:

* Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments: *The method blank result is below the reporting limit for this analysis and is acceptable.

Quio/8/10





MWH Laboratories
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Ph (626) 386-1100 Fax (626) 386-1095

Ship To Jackie Collins
Pace Analytical

Radiological Lab
1638 Roseytown Road
Suites 2, 3 & 4
Greensburg, PA 15601

724-850-5600 Fax 724-850-5601

MWH Project # Report Due: Sub PO#
255906 10/30/08 99-35346



MWH

Client Sample ID for reference only

0810-0385

2810070125 EFFLUENT

1 @R228ED

2 @R228ED

MB-0386

Submittal Form & Purchase Order 99-35346

Date 10/08/08

***REPORTING REQUIREMENTS: Do Not Combine Report with any other samples submitted under different MWH project numbers!**
Report & Invoice must have the MWH Project Number 255906 Sub PO# 99-35346 and Job # 1000032

Report all quality control data according to Method. Include dates analyzed, date extracted (if extracted) and Method reference on the report. Results must have Complete data & QC with Approval Signature. See reverse side for List of Terms and Conditions

OS-1198Q

Reports: Elena Montanez / Christine Lewis Sub-contracting Administrator
EMAIL TO: mwhlabs-subcontractreports@mwhglobal.com
MWH Laboratories 750 Royal Oaks Dr. Ste. 100, Monrovia, CA 91016
Phone (626) 386-1118 / 1137 Fax (626) 386-1122
Invoices to: MWH LABORATORIES
Accounts Payable PO BOX 6619, Broomfield, CO 80021

Provide in each Report the Specified State Certification # & Exp Date for requested tests + matrix

Nevada WW

Rush samples final report needed by 10/15/08. Absolutely.
Please let me know of any additional cost and proceed with analysis ASAP. 10/03/08 lecia

Container

Analysis Requested

Sample Date & Time Matrix

Radioactivity, Radium 226 Sub-contracted 10/06/08 6:30 dw 1 x 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION P.C.

Radioactivity, Radium 228 Sub-contracted 2 x 1L poly + 4ml HNO3 (18%) MUST BE 1 FULL LITER FOR COMBINATION P.C.

Relinquished by:

Christine Lewis

Received by:

Sample Control Date 10/08/08 Time 10:00

Date 10/9/08 Time 10:00

MUST HAVE NOTIFICATION IF TEMP IS GREATER THAN 6 OR LESS THAN 2 CELSIUS
Page 1

An Acknowledgement of Receipt is requested to attn: Christine Lewis