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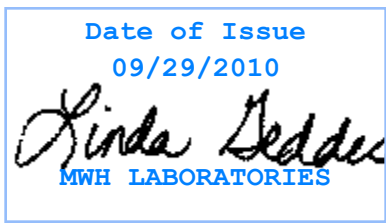
A Division of MWH Americas, Inc.

750 Royal Oak Dr., 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
PO Box 55
Henderson, NV 89009
Attention: Susan Crowley
Fax: 702-651-2310



LXG: Linda Geddes
Project Manager



Report#: 343471
Project: CWA-RCRA
Group: Weekly
Influent-effluent-quick
TAT-#KERRUS

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 Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

Acknowledgement of Samples Received
Tronox LLC

 PO Box 55
 Henderson, NV 89009
 Attn: Susan Crowley
 Phone: 702-651-2234

Customer Code: TRONOX

Group #: 343471

Project #: CWA-RCRA

Sample Group: Weekly Influent-effluent-quick

TAT #KERRUS

Project Manager: Linda Geddes

Phone: (626) 386-1163

The following samples were received from you on **September 14, 2010**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample Id	Sample Date
201009140291	Effluent	13-Sep-2010 0830
	Ammonia Nitrogen	Chlorate by IC
	Nitrite Nitrogen by IC	Perchlorate
		Nitrate as Nitrogen by IC
		Total Inorganic Nitrogen-Calc
201009140292	Influent	13-Sep-2010 0900
	Ammonia Nitrogen	Chlorate by IC
	Nitrite Nitrogen by IC	Perchlorate
		Nitrate as Nitrogen by IC
		Total Inorganic Nitrogen-Calc
	Total Nitrate Nitrite-N CALC	

Test Description



750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629
(626) 386-1100 (800) 566-5227

343471

MVLABS USE ONLY:

LOGIN COMMENTS: on wet ice

SAMPLES CHECKED/LOGGED IN BY: WJW

SAMPLE TEMP, RECEIPT AT LAB: 2

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME		PROJECT JOB # / P.O.#		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		(check for yes)			
TRONOX		CWA-RCRA		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)					
Sampler Signature: <u>Michele Brown</u> Michele Brown Susan Crowley (702) 651-2234				Tronox LLC - Henderson Plant PO Box 55 Henderson, NV 89009				SAMPLER COMMENTS	
TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX *	GRAB	COMP			
8:30 AM	9/13/2010	EFFLUENT		RSW	X				
9:00	9/13/2010	INFLUENT		RSW	X				

* 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: <u>Michele Brown</u>	SIGNATURE	DATE	TIME
RECEIVED BY: <u>Michele Brown</u>	PRINT NAME	9/13/2010	12:00 PM
RELINQUISHED BY:	COMPANY/TITLE	Veolia Water NA for Tronox LLC - Henderson Plant	
RECEIVED BY:			

Group#
Date Sampled
Date Received

Linda Geddes Your MWHL Project Manager

Client Code TRONOX
 Project Code BOTTLES Bottle Orders
 Group Name Weekly Influent-effluent-quick TAT-#KERRUS
 PO# / Job#

BO #: 22377

**Sampler: please return
 this paper with your samples**

Created By: LXG

Order Date: 08/23/2010

Bottle Orders

Ship Sample Kits to

Veolia Water-Tronox LLC
 Gate 1
 560 West Lake Mead Pkwy
 Henderson, NV 89015
 Attn: Wendy Prescott
 Phone:
 Fax:

Send Report to

Tronox LLC
 PO Box 55
 Henderson, NV 89009
 Attn: Susan Crowley
 Phone: 702-651-2234
 Fax: 702-651-2310

Billing Address

Tronox LLC
 PO Box 55
 Henderson, NV 89009
 Attn: Susan Crowley
 Phone: 702-651-2234
 Fax: 702-651-2310

Ship By: 08/13/2010

# of Samples	Tests	Qteline#	Bottles - Qty for each sample, type & preservative if any	UN DOT #
2	Ammonia Nitrogen	1	250ml poly 0.5ml H2SO4 (50%)	
2	Chlorate by IC	1	60mL poly 0.60mL 5% EDA sol'n	
2	Nitrate as Nitrogen by IC, Nitrite Nitrogen by IC, Total Inorganic Nitrogen-Calc	1	125ml poly no preservative	
2	Perchlorate Sterile Filtered	1	125 ml poly + syringe, filter 125ml STERILE bottle	

Comments

Weekly short quick TAT for Inf and eff.
 Influent and effluent gets clo4, clo3, No2, NO3, N-Inor, NH3

Ship Date: 13SEP10
ActWgt: 20.0 LB
CAD: 100845654/NET3060



From: Origin ID: LASA (702) 651-2200
Tmonox
560 W. Lake Mead Parkway
Henderson, NV 89015

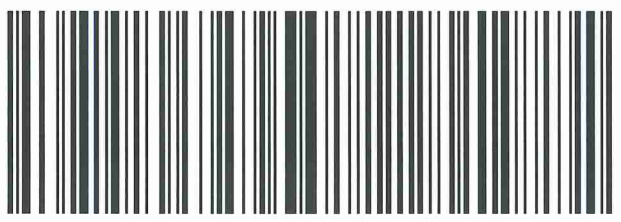
Delivery Address Bar Code
Ret # MSO #144459
Invoice #
PO #
Dept #

SHIP TO: (626) 568-6400
BILL SENDER

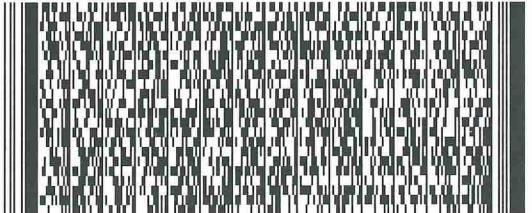
Attn: Sample Receiving
Montgomery Watson Labs
750 ROYAL OAKS DR STE 100
MONROVIA, CA 91016

TRK# 0201
7962 3957 7370
TUE - 14 SEP A1
PRIORITY OVRNIGHT

91016
CA-US
BUR
QZ WHPA



508C392929A21



After printing this label:

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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.

THIS MEMORANDUM is an acknowledgment 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: 144459

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

From: TRONOX LLC
 the property described below, in apparent good order, except as noted (contents and condition of contents and condition of containers/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 all 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		FROM NO. STATION: STATE Henderson, NV 89015	
MWH LABORATORIES 750 Royal Oaks Avenue, Suite #100 Monrovia, CA 91016-3629 Phone: 626-568-6400		FULL NAME OF SHIPPER TRONOX LLC CODE NO. WCN IS 10181	
FREIGHT CHARGES <input checked="" type="checkbox"/> Prepaid <input type="checkbox"/> Collect		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.	
N/M/R CUSTOMER PO OR REQ'N NO.		SHIPPED FROM Henderson, NV	
DESCRIPTION AND CLASSIFICATION		STOCK NO.	
2 COOLERS (Influent - Effluent Weekly Grabs) Not Regulated One - ice chest @ 20 lbs One - ice chest @ 35 lbs		TOTAL QUANTITY	
TRUCK SHIPMENTS PLACARDS OFFERED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		PLACARDS ACCEPTED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
NUMBER OF PACKAGES GROSS WEIGHT TARE WEIGHT NET WEIGHT		GROSS WEIGHT TARE WEIGHT NET WEIGHT	
2 TOTAL GROSS WEIGHT TOTAL TARE WEIGHT 55 0 55		0 0 55	
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.			
TRONOX LLC Shipper permanent post office address of shipper, P O Box 26859, Oklahoma City, OK 73126-8859		Carron Williams AGENT PER	

September 29, 2010

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

Subject: Case Narrative report 343471

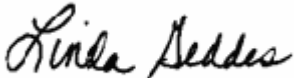
Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on September 14, 2010 with proper chain of custody. All containers were received without any visible signs of tampering or breakage at proper temperature. Samples are identified on the acknowledgement, which is part of the report package, along with the chain of custody.

Case Narrative:
For the MWH Laboratories data the following issues were observed:

Other Observations:

There were no unusual observations on this sample set.

Sincerely,



Linda Geddes
Project Manager



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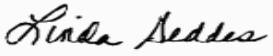
750 Royal Oak Dr., Suite 100
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1 800 566 LABS (1 800 566 5227)

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Laboratory Comments
Report: #343471

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: 



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Laboratory
Hits Report: 343471

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Samples Received on:
09/14/2010

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201009140291	<u>Effluent</u>			
09/17/2010	14:45	Ammonia Nitrogen	1.2		mg/L	0.05
09/17/2010	16:48	Total Inorganic Nitrogen-Calc	1.2		mg/L	0.2
		201009140292	<u>Influent</u>			
09/17/2010	17:06	Ammonia Nitrogen	8.4		mg/L	0.5
09/21/2010	19:38	Chlorate by IC	290000		ug/L	50000
09/14/2010	16:14	Nitrate as Nitrogen by IC	13	10	mg/L	5
09/14/2010	16:14	Nitrate as NO3 (calc)	57	45	mg/L	22
09/28/2010	00:52	Perchlorate	200000	6	ug/L	20000
09/17/2010	17:15	Total Inorganic Nitrogen-Calc	21		mg/L	0.2
09/14/2010	16:14	Total Nitrate, Nitrite-N, CALC	13		mg/L	5



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Laboratory Data
Report: 343471

Tronox LLC
Susan Crowley
PO Box 55
Henderson, NV 89009

Samples Received on:
09/14/2010

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
Effluent (201009140291)						Sampled on 09/13/2010 0830				
EPA 300.0 - Total Inorganic Nitrogen-Calc										
09/17/2010	16:48		(EPA 300.0)	Total Inorganic Nitrogen-Calc	1.2	mg/L	0.20	0.2	0.20	1
EPA 350.1 - Ammonia Nitrogen										
09/17/2010	14:45	569638	(EPA 350.1)	Ammonia Nitrogen	1.2	mg/L	0.0030	0.05	0.0030	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0										
09/14/2010	16:26	569103	(EPA 300.0)	Nitrate as Nitrogen by IC	ND	mg/L	0.0050	0.65	0.25	50
09/14/2010	16:26	569103	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.0040	0.65	0.20	50
EPA 300.0 - Disinfection ByProducts by 300.0										
09/21/2010	19:13	569894	(EPA 300.0)	Chlorate by IC	ND	ug/L	1.3	50	6.5	5
EPA 314.0 - Perchlorate										
09/28/2010	00:07	570690	(EPA 314.0)	Perchlorate	ND	ug/L	0.25	8	1.00	4
Influent (201009140292)						Sampled on 09/13/2010 0900				
EPA 300.0 - Total Inorganic Nitrogen-Calc										
09/17/2010	17:15		(EPA 300.0)	Total Inorganic Nitrogen-Calc	21	mg/L	0.20	0.2	0.20	1
EPA 350.1 - Ammonia Nitrogen										
09/17/2010	17:06	569638	(EPA 350.1)	Ammonia Nitrogen	8.4	mg/L	0.0030	0.5	0.030	10
EPA 300.0 - Nitrate, Nitrite by EPA 300.0										
09/14/2010	16:14	569103	(EPA 300.0)	Nitrate as Nitrogen by IC	13	mg/L	0.0050	5	0.25	50
09/14/2010	16:14	569103	(EPA 300.0)	Nitrate as NO3 (calc)	57	mg/L	0.022	22	1.1	50
09/14/2010	16:14	569103	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.0040	0.65	0.20	50
09/14/2010	16:14	569103	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	13	mg/L	0.0050	5	0.25	50
EPA 300.0 - Disinfection ByProducts by 300.0										
09/21/2010	19:38	569894	(EPA 300.0)	Chlorate by IC	290000	ug/L	1.3	50000	6500	5000
EPA 314.0 - Perchlorate										
09/28/2010	00:52	570690	(EPA 314.0)	Perchlorate	200000	ug/L	0.25	20000	1250	5000

Rounding on totals after summation.
(c) - indicates calculated results

Sample Quantitation Limit (SQL) =
MDL * Dilution Factor



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Laboratory
QC Summary: 343471

Tronox LLC

QC Ref # 569103 - Nitrate, Nitrite by EPA 300.0

201009140291 Effluent
201009140292 Influent

Analysis Date: 09/14/2010

Analyzed by: S XK
Analyzed by: S XK

QC Ref # 569638 - Ammonia Nitrogen

201009140291 Effluent
201009140292 Influent

Analysis Date: 09/17/2010

Analyzed by: NJR
Analyzed by: NJR

QC Ref # 569894 - Disinfection ByProducts by 300.0

201009140291 Effluent
201009140292 Influent

Analysis Date: 09/21/2010

Analyzed by: LUPE
Analyzed by: LUPE

QC Ref # 570690 - Perchlorate

201009140291 Effluent
201009140292 Influent

Analysis Date: 09/28/2010

Analyzed by: LUPE
Analyzed by: LUPE



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Laboratory
QC Report: 343471

Tronox LLC

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 569103 - Nitrate, Nitrite by EPA 300.0 by EPA 300.0					Analysis Date: 09/14/2010				
LCS1	Nitrate as Nitrogen by IC		2.5	2.54	mg/L	102	(90-110)		
LCS2	Nitrate as Nitrogen by IC		2.5	2.53	mg/L	101	(90-110)	20	0.39
MBLK	Nitrate as Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0501	mg/L	100	(50-150)		
MRLLW	Nitrate as Nitrogen by IC		0.013	0.0160	mg/L	128	(50-150)		
MS_201009140041	Nitrate as Nitrogen by IC	ND	1.3	1.43	mg/L	112	(80-120)		
MS_201009150269	Nitrate as Nitrogen by IC	8.9	1.3	11.6	mg/L	106	(80-120)		
MSD_201009140041	Nitrate as Nitrogen by IC	ND	1.3	1.45	mg/L	113	(80-120)	20	0.89
MSD_201009150269	Nitrate as Nitrogen by IC	8.9	1.3	11.6	mg/L	107	(80-120)	20	0.94
LCS1	Nitrite Nitrogen by IC		1.0	0.974	mg/L	97	(90-110)		
LCS2	Nitrite Nitrogen by IC		1.0	0.971	mg/L	97	(90-110)	20	0.31
MBLK	Nitrite Nitrogen by IC			<0.10	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0479	mg/L	96	(50-150)		
MRLLW	Nitrite Nitrogen by IC		0.013	0.0173	mg/L	138	(50-150)		
MS_201009140041	Nitrite Nitrogen by IC	ND	0.5	0.425	mg/L	85	(80-120)		
MS_201009150269	Nitrite Nitrogen by IC	ND	0.5	0.939	mg/L	94	(80-120)		
MSD_201009140041	Nitrite Nitrogen by IC	ND	0.5	0.435	mg/L	87	(80-120)	20	2.3
MSD_201009150269	Nitrite Nitrogen by IC	ND	0.5	0.934	mg/L	93	(80-120)	20	0.53
QC Ref# 569638 - Ammonia Nitrogen by EPA 350.1					Analysis Date: 09/17/2010				
LCS1	Ammonia Nitrogen		1.0	1.1	mg/L	110	(90-110)		
LCS2	Ammonia Nitrogen		1.0	1.09	mg/L	109	(90-110)	20	0.91
MBLK	Ammonia Nitrogen			<0.05	mg/L				
MRL_CHK	Ammonia Nitrogen		0.05	0.0392	mg/L	78	(50-150)		
MS_201009110109	Ammonia Nitrogen	ND	1.0	0.905	mg/L	91	(90-110)		
MS2_201009150702	Ammonia Nitrogen	ND	1.0	0.964	mg/L	96	(90-110)		
MSD_201009110109	Ammonia Nitrogen	ND	1.0	0.900	mg/L	90	(90-110)	20	0.55
QC Ref# 569894 - Disinfection ByProducts by 300.0 by EPA 300.0					Analysis Date: 09/21/2010				
LCS1	Chlorate by IC		200	200	ug/L	100	(90-110)		
LCS2	Chlorate by IC		200	201	ug/L	100	(90-110)	20	0.50
MBLK	Chlorate by IC			<10	ug/L				
MRL_CHK	Chlorate by IC		10	10.9	ug/L	109	(75-125)		
MS_201009170028	Chlorate by IC	270	100	369	ug/L	100	(80-120)		
MS_201009170390	Chlorate by IC	ND	100	105	ug/L	100	(80-120)		
MSD_201009170028	Chlorate by IC	270	100	367	ug/L	98	(80-120)	15	2.0
MSD_201009170390	Chlorate by IC	ND	100	109	ug/L	104	(80-120)	15	3.9

Spike recovery is already corrected for native results.

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.

(S) Indicates surrogate compound.

12/13

(I) Indicates internal standard compound.

RPD not calculated for LCS2 when different a concentration than LCS1 is used

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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Laboratory
QC Report: 343471

Tronox LLC
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 570690 - Perchlorate by EPA 314.0					Analysis Date: 09/27/2010				
LCS1	Perchlorate		25	25.4	ug/L	102	(85-115)		
LCS2	Perchlorate		25	22.7	ug/L	91	(85-115)	15	11
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.87	ug/L	97	(75-125)		
MRLLW	Perchlorate		2.0	2.01	ug/L	100	(50-150)		
MS_201009150057	Perchlorate	ND	25	24.9	ug/L	99	(80-120)		
MSD_201009150057	Perchlorate	ND	25	25.2	ug/L	101	(80-120)	15	1.6

Spike recovery is already corrected for native results.
 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.
 (S) Indicates surrogate compound.
 (I) Indicates internal standard compound.
 RPD not calculated for LCS2 when different a concentration than LCS1 is used
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)