



MWH

LABORATORIES

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

Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016
Attention: John M. Pekala, P.G.
Fax: 602.734.7701



RSR: Rita S. Sprinkle
Project Manager



01114CA

Report: 396992
Project: CWA-RCRA
Group: Annual Quads

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.

**MWH****LABORATORIES****STATE CERTIFICATION LIST**

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0455	Nevada	CA00006-2010-1
Arkansas	Certified	New Hampshire	2959-11
California – NELAP	01114CA	New Jersey	CA 008
California – ELAP	1422	New Mexico	Certified
Colorado	Certified	New York	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida	E871024	Oregon	CA 200003-009
Georgia	947	Pennsylvania	68-565
Guam	11-004r	Rhode Island	01114CA
Hawaii	Certified	South Carolina	87016001
Idaho	Certified	South Dakota	Certified
Illinois	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas	T104704230-11-2
Kansas	E-10268	Utah	Mont-1
Kentucky	90107	Vermont	VT0114
Louisiana	LA110022	Virginia	00210
Maine	CA0006	Washington	C383
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified



Acknowledgement of Samples Received

Addr: **Environ International Corp.**
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016
Attn: John M. Pekala, P.G.
Phone: 602.734.7710

Client ID: ENVIRON-NVTRUST
Folder #: 396992
Project: CWA-RCRA
Sample Group: Annual Quads
Project Manager: Rita S. Sprinkle
Phone: 916-418-8358

The following samples were received from you on **May 16, 2012**. 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
<u>201205170186</u>	M-5A	05/15/2012 0600
	Chloride by EPA 9056	Chromium Total ICAP RCRA
	Manganese Total ICAP RCRA	Perchlorate
	Phenolic Compounds	Sodium Total ICAP RCRA
	Sulfate by EPA 9056	Total Dissolved Solid (TDS)
	Total Organic Halogen	Iron Total ICAP RCRA
		PH (H3=past HT not compliant)
		Specific Conductance
		Total Organic Carbon
<u>201205170187</u>	M-5A	05/15/2012 0600
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon
<u>201205170188</u>	M-5A	05/15/2012 0600
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon
<u>201205170189</u>	M-5A	05/15/2012 0600
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon
<u>201205170190</u>	M-7B	05/15/2012 0625
	Chloride by EPA 9056	Chromium Total ICAP RCRA
	Manganese Total ICAP RCRA	Perchlorate
	Phenolic Compounds	Sodium Total ICAP RCRA
	Sulfate by EPA 9056	Total Dissolved Solid (TDS)
	Total Organic Halogen	Iron Total ICAP RCRA
		PH (H3=past HT not compliant)
		Specific Conductance
		Total Organic Carbon
<u>201205170191</u>	M-7B	05/15/2012 0625
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon
<u>201205170192</u>	M-7B	05/15/2012 0625
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon
<u>201205170193</u>	M-7B	05/15/2012 0625
	PH (H3=past HT not compliant)	Specific Conductance
	Total Organic Halogen	Total Organic Carbon

Test Description



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Acknowledgement of Samples Received

Addr: **Environ International Corp.**
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The following samples were received from you on **May 16, 2012**. 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
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MONTGOMERY WATSON LABORATORIES

CHAIN OF CUSTODY RECORD

396992

750 Royal Oaks Ave, Suite 100, Montrovia, CA 91016
(626) 386-1100 (800) 566-5227

INVLABS USE ONLY:
SAMPLES CHECKED/LOGGED IN BY: MW/JS
SAMPLE TEMP, RECEIPT AT LAB: 2.2°C
BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER: _____ (check for yes)
COMPANY / PROJECT NAME: _____
PROJECT JOB # / P.O.#: _____
Quaterly Groundwater Sampling
Schedule B CWA-RCRA

Nevada Environmental Response Trust
Sampler: Michele Brown
Michele Brown
Nevada Environmental Response Trust
35 East Wecker Suite 1550
Chicago, IL 60606

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX*	GRAB	COMP	PH	TS	CR	CLO4	Sterile CLO4	CRM	ClO3	NO3	SAMPLER Comments
100A	5-15-12		M-5A	RGW	X		X	X	X	X	X				20 Bottles
625A	5-15-12		M-7B	RGW	X		X	X	X	X	X				20 Bottles
710A	5-15-12		M-6A	RGW	X		X	X	X	X	X				5 Bottles
730A	5-15-12		M-35	RGW	X		X	X	X	X	X				5 Bottles
805A	5-15-12		M-19	RGW	X		X	X	X	X	X				5 Bottles
820A	5-15-12		M-2A	RGW	X		X	X	X	X	X				5 Bottles
841A	5-15-12		M-15	RGW	X		X	X	X	X	X				5 Bottles
920A	5-15-12		M-76	RGW	X		X	X	X	X	X				5 Bottles
935A	5-15-12		M-15	RGW	X		X	X	X	X	X				5 Bottles
952A	5-15-12		M-14A	RGW	X		X	X	X	X	X				5 Bottles
---	5-15-12		VD-2	RGW	X		X	X	X	X	X				5 Bottles
1045A	5-15-12		M-83	RGW	X		X	X	X	X	X				5 Bottles

* MATRIX TYPES: Reported by Volume: CFW = Chlor(am)inated Finished Water, FW = Other Finished Water
Reported by Weight: SO = Soil, SL = Sludge
CWW = Chlorinated Waste Water, WW = Other Waste Water, SW = Storm Water
RGW = Raw Ground Water, RSW = Raw Surface Water

RELINQUISHED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RECEIVED BY:	<u>Michele Brown</u>	Michele Brown	Veolia Water for Nevada Environmental Response Trust	5-15-12	12:00PM
RELINQUISHED BY:	<u>MW</u>	<u>Wari</u>	<u>MWH</u>	5-15-12	1100
RECEIVED BY:					
RELINQUISHED BY:					

Kit Order for Environ International Corp.



LABORATORIES

A Division of MWH Americas, Inc
750 Royal Oaks Drive Suite 100
Monrovia, CA 91016 (626) 386-1100 FAX (626) 386-1124

Rita Reeves is Your MWH Labs Project Manager

Sampler: please return this paper with your samples

M-5A & M-7B

Kit #: 49345
Created LXG
Order Date: 04/27/2012
STG: Bottle Orders

Client ID: ENVIRON-NVTRUST
Project Code: CWA-RCRA - Bottle Orders
Group Name: Annual Quads
PO#JOB#:

Billing Address
Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Attn: John M. Pekala, P.G.
Phone: 602.734.7710
Fax: 602.734.7701

Send Report to
Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Attn: John M. Pekala, P.G.
Phone: 602.734.7710
Fax: 602.734.7701

Ship Sample Kits to
Veolia Water
510 S. Fourth Street
Henderson, NV 89015

Attn: Michele Brown
Phone: 702-467-6299
Fax:

Ship By:
04/12/2012

# of Samples	Tests	Bottles - Qty for each sample, type & preservative if any	UN DOT #
4	Chloride by EPA 9056, PH by EPA 9040, Specific Conductance RCRA, Sulfate by EPA 9056	1 125ml poly no preservative	
4	Chromium Total ICAP RCRA, Iron Total ICAP RCRA, Manganese Total ICAP RCRA, Sodium Total ICAP RCRA	1 250ml acid rinsed 1ml HNO3 (18%)	UN2031
4	Perchlorate	1 125ml poly CLO4 - no preservative	
12	PH by EPA 9040, Specific Conductance RCRA	1 125ml poly no preservative	
4	Phenolic Compounds	1 250ml amber glass 1ml H2SO4	UN1830
4	Total Dissolved Solid (TDS)	1 500ml poly TDS - no preservative	
16	Total Organic Carbon RCRA	1 125ml amber glass 0.5ml H2SO4 (50%)	UN1830
16	Total Organic Halogen	2 250ml amber glass 2ml H2SO4 (50%)	UN1830

Comments

Code Status Date Shipped Via Tracking # # of Coolers Prepared By

June 14, 2012

John M. Pekala, P.G.
Environ International Corp.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Sample receipt: The samples arrived at MWH Laboratories, Monrovia, CA on May 16, 2012 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 results for M-5A are flagged D1 for EPA 314. The sample required dilution due to the matrix. The sample results for M-7B are flagged MC for SW9020/SM5320. The MS recovery was high. The associated blank spike recovery was acceptable. MS/MSD RPD met the acceptance criteria.

Other Observations:

There were no other observations on this sample set.

Sincerely,



Rita S. Sprinkle
Project Manager



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Environ International Corp.
John M. Pekala, P.G.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Laboratory Comments
Report: #396992

Group Comments

Sample results for M-5A are flagged D1 for EPA 314. The sample required dilution due to the matrix. The sample results for M-7B are flagged MC for SW9020/SM5320. The MS recovery was high. The associated blank spike recovery was acceptable. MS/MSD RPD met the acceptance criteria.

Flags Legend:

D1 - Sample required dilution due to matrix.

MC - Matrix spike recovery was high; the associated blank spike recovery was acceptable. MS/MSD RPD met acceptance criteria.



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Laboratory Data
Report: 396992

Environ International Corp.

John M. Pekala, P.G.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Samples Received on:
05/16/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
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M-5A (201205170186)

Sampled on 05/15/2012 0600

EPA 6010 - ICP Metals

5/17/2012	06/08/2012	16:10	654859	(EPA 6010)	Chromium Total ICAP	0.0018J	mg/L	0.00044	0.02	0.00088	2
5/17/2012	06/08/2012	16:10	654859	(EPA 6010)	Iron Total ICAP	0.62	mg/L	0.0050	0.04	0.010	2
5/17/2012	06/08/2012	16:10	654859	(EPA 6010)	Manganese Total ICAP	1.7	mg/L	0.0010	0.004	0.0020	2
5/17/2012	06/08/2012	15:39	654859	(EPA 6010)	Sodium Total ICAP	2100	mg/L	0.11	10	1.1	10

SW 9060 - Total Organic Carbon RCRA

05/25/2012	20:11	653777	(SW 9060)	Total Organic Carbon	15	mg/L	0.042	1.5	0.21	5
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SW9020/SM5320 - Total Organic Halogen

5/24/2012	05/24/2012	16:09	655101	(SW9020/SM5320)	Total Organic Halides Average	13000	ug/L	1.1	2500	280	250
5/24/2012	05/24/2012	16:09	655101	(SW9020/SM5320)	Total Organic Halides Rep 1	13000	ug/L	1.1	2500	280	250
5/24/2012	05/24/2012	16:09	655101	(SW9020/SM5320)	Total Organic Halides Rep 2	12000	ug/L	1.1	2500	280	250

EPA 9056 - Chloride, Sulfate by EPA 300.0

05/31/2012	16:33	656191	(EPA 9056)	Chloride	5800	mg/L	0.025	500	12	500
05/29/2012	18:15	655846	(EPA 9056)	Sulfate	1700	mg/L	0.060	50	6.0	100

EPA 314.0 - Perchlorate

05/31/2012	08:59	656005	(EPA 314.0)	Perchlorate	ND(D1)	ug/L	0.25	4000	250	1000
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MWH 420/SW9066 - Phenolic Compounds

5/31/2012	05/31/2012	23:44	656266	(MWH 420/SW9066)	Phenolic Compounds	0.011	mg/L	0.0030	0.01	0.0030	1
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E160.1/SM2540C - Total Dissolved Solid (TDS)

5/21/2012	05/21/2012	23:10	654427	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	13000	mg/L	4.2	10	4.2	1
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EPA 9040 - PH by EPA 9040

05/20/2012	13:00	654225	(EPA 9040)	PH (H3=past HT not compliant)	7.2	Units	0.10	0.1	0.10	1
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SW 9050 - Specific Conductance RCRA

05/20/2012	13:00	654196	(SW 9050)	Specific Conductance, 25 C	18000	umho/cm	0.51	2	0.51	1
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M-5A (201205170187)

Sampled on 05/15/2012 0600

SW 9060 - Total Organic Carbon RCRA

05/25/2012	20:35	653777	(SW 9060)	Total Organic Carbon	15	mg/L	0.042	1.5	0.21	5
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SW9020/SM5320 - Total Organic Halogen

5/24/2012	05/24/2012	18:06	655101	(SW9020/SM5320)	Total Organic Halides Average	13000	ug/L	1.1	2500	280	250
5/24/2012	05/24/2012	18:06	655101	(SW9020/SM5320)	Total Organic Halides Rep 1	13000	ug/L	1.1	2500	280	250

Sample Quantitation Limit (SQL) = MDL * Dilution Factor.

Rounding on totals after summation.

(c) - Indicates calculated results.

J - The analyte was either detected at or greater than the SQL and less than the MRL, or did not meet any one of the required QC criteria.



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Laboratory Data
Report: 396992

Environ International Corp.

John M. Pekala, P.G.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Samples Received on:
05/16/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows of data for various samples including EPA 9040, SW 9050, and SW 9060.

Sample Quantitation Limit (SQL) = MDL * Dilution Factor.

Rounding on totals after summation.

(c) - Indicates calculated results.

J - The analyte was either detected at or greater than the SQL and less than the MRL, or did not meet any one of the required QC criteria.



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Suite 412
Phoenix, AZ 85016

Samples Received on:
05/16/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows of test data for various analytes like Manganese Total ICAP, Sodium Total ICAP, Total Organic Carbon, etc.

M-7B (201205170191)

Sampled on 05/15/2012 0625

Sample Quantitation Limit (SQL) = MDL * Dilution Factor.
Rounding on totals after summation.
(c) - Indicates calculated results.
J - The analyte was either detected at or greater than the SQL and less than the MRL, or did not meet any one of the required QC criteria.



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Laboratory Data
Report: 396992

Environ International Corp.

John M. Pekala, P.G.
1702 E. Highland Ave.
Suite 412
Phoenix, AZ 85016

Samples Received on:
05/16/2012

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Row 1: 05/20/2012 13:25 654196 (SW 9050) Specific Conductance, 25 C 12000 umho/cm 0.51 2 0.51 1

M-7B (201205170192)

Sampled on 05/15/2012 0625

SW 9060 - Total Organic Carbon RCRA

Table row: 05/26/2012 2:04 655308 (SW 9060) Total Organic Carbon 1.0 mg/L 0.042 0.3 0.042 1

SW9020/SM5320 - Total Organic Halogen

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Rows for Total Organic Halides Average and Rep 1/2.

EPA 9040 - PH by EPA 9040

Table row: 05/20/2012 13:30 654225 (EPA 9040) PH (H3=past HT not compliant) 7.5 Units 0.10 0.1 0.10 1

SW 9050 - Specific Conductance RCRA

Table row: 05/20/2012 13:30 654196 (SW 9050) Specific Conductance, 25 C 12000 umho/cm 0.51 2 0.51 1

M-7B (201205170193)

Sampled on 05/15/2012 0625

SW 9060 - Total Organic Carbon RCRA

Table row: 05/26/2012 2:29 655308 (SW 9060) Total Organic Carbon 1.0 mg/L 0.042 0.3 0.042 1

SW9020/SM5320 - Total Organic Halogen

Table with 11 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Rows for Total Organic Halides Average and Rep 1/2.

EPA 9040 - PH by EPA 9040

Table row: 05/20/2012 13:35 654225 (EPA 9040) PH (H3=past HT not compliant) 7.5 Units 0.10 0.1 0.10 1

SW 9050 - Specific Conductance RCRA

Table row: 05/20/2012 13:35 654196 (SW 9050) Specific Conductance, 25 C 12000 umho/cm 0.51 2 0.51 1

Sample Quantitation Limit (SQL) = MDL * Dilution Factor.
Rounding on totals after summation.
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**Laboratory
QC Summary: 396992**

Environ International Corp.

QC Ref # 653777 - Total Organic Carbon

201205170186 M-5A
201205170187 M-5A
201205170188 M-5A
201205170189 M-5A
201205170190 M-7B

Analysis Date: 05/25/2012

Analyzed by: MYH
Analyzed by: MYH
Analyzed by: MYH
Analyzed by: MYH
Analyzed by: MYH

QC Ref # 654196 - Specific Conductance

201205170186 M-5A
201205170187 M-5A
201205170188 M-5A
201205170189 M-5A
201205170190 M-7B
201205170191 M-7B
201205170192 M-7B
201205170193 M-7B

Analysis Date: 05/20/2012

Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL

QC Ref # 654225 - PH (H3=past HT not compliant)

201205170186 M-5A
201205170187 M-5A
201205170188 M-5A
201205170189 M-5A
201205170190 M-7B
201205170191 M-7B
201205170192 M-7B
201205170193 M-7B

Analysis Date: 05/20/2012

Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL
Analyzed by: SFL

QC Ref # 654427 - Total Dissolved Solids (TDS)

201205170186 M-5A

Analysis Date: 05/21/2012

Analyzed by: JRF

QC Ref # 654589 - Total Dissolved Solids (TDS)

201205170190 M-7B

Analysis Date: 05/22/2012

Analyzed by: JRF

QC Ref # 654859 - ICP Metals

201205170186 M-5A
201205170186 M-5A
201205170190 M-7B
201205170190 M-7B

Analysis Date: 06/08/2012

Analyzed by: NINA
Analyzed by: NINA
Analyzed by: NINA
Analyzed by: NINA

QC Ref # 655101 - Total Organic Halides

201205170186 M-5A
201205170187 M-5A
201205170188 M-5A
201205170189 M-5A
201205170190 M-7B
201205170191 M-7B

Analysis Date: 05/24/2012

Analyzed by: MYH
Analyzed by: MYH
Analyzed by: MYH
Analyzed by: MYH
Analyzed by: MYH
Analyzed by: MYH

QC Ref # 655308 - Total Organic Carbon

201205170191 M-7B

Analysis Date: 05/26/2012

Analyzed by: MYH



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Laboratory
QC Summary: 396992

Environ International Corp.

(continued)

201205170192	M-7B	Analyzed by: MYH
201205170193	M-7B	Analyzed by: MYH

QC Ref # 655433 - Total Organic Halides

201205170192	M-7B	Analyzed by: MYH
201205170193	M-7B	Analyzed by: MYH

Analysis Date: 05/25/2012

QC Ref # 655846 - Chloride, Sulfate by EPA 300.0

201205170186	M-5A	Analyzed by: CYP
201205170190	M-7B	Analyzed by: CYP

Analysis Date: 05/29/2012

QC Ref # 656005 - Perchlorate

201205170186	M-5A	Analyzed by: LUPE
201205170190	M-7B	Analyzed by: LUPE

Analysis Date: 05/31/2012

QC Ref # 656191 - Chloride, Sulfate by EPA 300.0

201205170186	M-5A	Analyzed by: CYP
201205170190	M-7B	Analyzed by: CYP

Analysis Date: 05/31/2012

QC Ref # 656266 - Phenolic Compounds

201205170186	M-5A	Analyzed by: MCE
201205170190	M-7B	Analyzed by: MCE

Analysis Date: 05/31/2012



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Environ International Corp.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 653777 - Total Organic Carbon by SW 9060					Analysis Date: 05/25/2012				
LCS1	Total Organic Carbon		5.0	4.91	mg/L	98	(90-110)		
LCS2	Total Organic Carbon		5.0	5.08	mg/L	102	(90-110)	20	3.4
MBLK	Total Organic Carbon			<0.3	mg/L				
MRL_CHK	Total Organic Carbon		0.2	0.227	mg/L	113	(50-150)		
MS_201205250444	Total Organic Carbon	0.58	4.0	4.64	mg/L	102	(80-120)		
MS2_201205170190	Total Organic Carbon	0.41	2.0	2.27	mg/L	93	(80-120)		
MSD_201205250444	Total Organic Carbon	0.58	4.0	4.74	mg/L	104	(80-120)	20	2.1
MSD2_201205170190	Total Organic Carbon	0.41	2.0	2.28	mg/L	93	(80-120)	20	0.0
QC Ref# 654196 - Specific Conductance by SW 9050					Analysis Date: 05/20/2012				
DUP1_201205200001	Specific Conductance	14000		13900	umho/cm		(0-20)	20	0.73
DUP1_201205200002	Specific Conductance	7000		7030	umho/cm		(0-20)	20	0.29
LCS1	Specific Conductance		1000	997	umho/cm	100	(95-105)		
LCS2	Specific Conductance		1000	1000	umho/cm	100	(95-105)	20	0.30
MBLK	Specific Conductance			<2	umho/cm				
MRL_CHK	Specific Conductance		2.0	1.9	umho/cm	95	(50-150)		
QC Ref# 654225 - PH (H3=past HT not compliant) by EPA 9040					Analysis Date: 05/20/2012				
DUP_201205160026	PH (H3=past HT not compliant)	7.3		7.34	Units		(0-20)	20	0.41
DUP_201205160036	PH (H3=past HT not compliant)	7.5		7.52	Units		(0-20)	20	0.27
LCS1	PH (H3=past HT not compliant)		6.0	6.00	Units	100	(98-102)		
LCS2	PH (H3=past HT not compliant)		6.0	6.00	Units	100	(98-102)	20	0.0
QC Ref# 654427 - Total Dissolved Solids (TDS) by E160.1/SM2540C					Analysis Date: 05/21/2012				
DUP_201205170200	Total Dissolved Solid (TDS)	2500		2490	mg/L		(0-20)	20	0.32
DUP_201205170209	Total Dissolved Solid (TDS)	2000		2000	mg/L		(0-20)	20	0.40
LCS1	Total Dissolved Solid (TDS)		175	182	mg/L	104	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	700	mg/L	100	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	12.0	mg/L	120	(50-150)		
QC Ref# 654589 - Total Dissolved Solids (TDS) by E160.1/SM2540C					Analysis Date: 05/22/2012				
DUP_201205150615	Total Dissolved Solid (TDS)	210		210	mg/L		(0-20)	20	1.9
DUP_201205170131	Total Dissolved Solid (TDS)	400		414	mg/L		(0-20)	20	3.4
LCS1	Total Dissolved Solid (TDS)		175	184	mg/L	105	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	684	mg/L	98	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	12.0	mg/L	120	(50-150)		

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.

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).

(S) - Indicates surrogate compound.

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Laboratory QC
Report: 396992

Environ International Corp.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 654859 - ICP Metals by EPA 6010						Analysis Date: 06/08/2012			
LCS1	Chromium Total ICAP		1.0	1.04	mg/L	104	(85-115)		
LCS2	Chromium Total ICAP		1.0	1.04	mg/L	104	(85-115)	20	0.0
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.0120	mg/L	120	(50-150)		
MS_201205190118	Chromium Total ICAP	ND	1.0	0.995	mg/L	99	(70-130)		
MS2_201205240130	Chromium Total ICAP	ND	1.0	1.01	mg/L	101	(70-130)		
MSD_201205190118	Chromium Total ICAP	ND	1.0	0.982	mg/L	98	(70-130)	20	1.3
MSD2_201205240130	Chromium Total ICAP	ND	1.0	0.991	mg/L	99	(70-130)	20	1.9
LCS1	Iron Total ICAP		5.0	5.14	mg/L	103	(85-115)		
LCS2	Iron Total ICAP		5.0	5.16	mg/L	103	(85-115)	20	0.39
MBLK	Iron Total ICAP			<0.02	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0232	mg/L	116	(50-150)		
MS_201205190118	Iron Total ICAP	0.053	5.0	5.11	mg/L	101	(70-130)		
MS2_201205240130	Iron Total ICAP	ND	5.0	5.16	mg/L	103	(70-130)		
MSD_201205190118	Iron Total ICAP	0.053	5.0	5.05	mg/L	100	(70-130)	20	1.2
MSD2_201205240130	Iron Total ICAP	ND	5.0	5.08	mg/L	101	(70-130)	20	1.6
LCS1	Manganese Total ICAP		0.5	0.536	mg/L	107	(85-115)		
LCS2	Manganese Total ICAP		0.5	0.534	mg/L	107	(85-115)	20	0.37
MBLK	Manganese Total ICAP			<0.002	mg/L				
MRL_CHK	Manganese Total ICAP		0.002	0.00225	mg/L	113	(50-150)		
MS_201205190118	Manganese Total ICAP	0.015	0.5	0.541	mg/L	105	(70-130)		
MS2_201205240130	Manganese Total ICAP	1.3	0.5	1.81	mg/L	111	(70-130)		
MSD_201205190118	Manganese Total ICAP	0.015	0.5	0.534	mg/L	104	(70-130)	20	1.3
MSD2_201205240130	Manganese Total ICAP	1.3	0.5	1.78	mg/L	104	(70-130)	20	1.7
LCS1	Sodium Total ICAP		50	51.9	mg/L	104	(85-115)		
LCS2	Sodium Total ICAP		50	52.2	mg/L	104	(85-115)	20	0.58
MBLK	Sodium Total ICAP			<1	mg/L				
MRL_CHK	Sodium Total ICAP		1.0	1.14	mg/L	114	(50-150)		
MS_201205190118	Sodium Total ICAP		50	318	mg/L	86	(70-130)		
MSD_201205190118	Sodium Total ICAP		50	318	mg/L	87	(70-130)	20	0.0
QC Ref# 655101 - Total Organic Halides by SW9020/SM5320						Analysis Date: 05/24/2012			
LCS1	Total Organic Halides Rep 1		50	47.0	ug/L	94	(85-115)		
LCS2	Total Organic Halides Rep 1		200	182	ug/L	91	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 1		5.0	3.73	ug/L	75	(50-150)		
MS_201205280001	Total Organic Halides Rep 1	ND	50	518	ug/L	102	(90-110)		

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.

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).

(S) - Indicates surrogate compound.

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Laboratory QC
Report: 396992

Environ International Corp.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201205280001	Total Organic Halides Rep 1	ND	50	500	ug/L	99	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	4.99	ug/L	100	(97-103)		
LCS1	Total Organic Halides Rep 2		50	51.8	ug/L	104	(85-115)		
LCS2	Total Organic Halides Rep 2		200	183	ug/L	92	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 2		5.0	2.85	ug/L	57	(50-150)		
MS_201205280001	Total Organic Halides Rep 2	ND	50	518	ug/L	102	(90-110)		
MSD_201205280001	Total Organic Halides Rep 2	ND	50	500	ug/L	99	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	5.02	ug/L	100	(97-103)		

QC Ref# 655308 - Total Organic Carbon by SW 9060

Analysis Date: 05/25/2012

LCS1	Total Organic Carbon		5.0	4.96	mg/L	99	(90-110)		
LCS2	Total Organic Carbon		5.0	5.09	mg/L	102	(90-110)	20	2.8
MBLK	Total Organic Carbon			<0.3	mg/L				
MRL_CHK	Total Organic Carbon		0.2	0.260	mg/L	130	(50-150)		
MS_201205250449	Total Organic Carbon	0.51	4.0	4.59	mg/L	102	(80-120)		
MS2_201205180165	Total Organic Carbon	0.90	2.0	2.1	mg/L	<u>60</u>	(80-120)		
MSD_201205250449	Total Organic Carbon	0.51	4.0	4.67	mg/L	104	(80-120)	20	1.5
MSD2_201205180165	Total Organic Carbon	0.90	2.0	2.1	mg/L	<u>60</u>	(80-120)	20	0.48

QC Ref# 655433 - Total Organic Halides by SW9020/SM5320

Analysis Date: 05/25/2012

LCS1	Total Organic Halides Rep 1		50	48.3	ug/L	97	(85-115)		
LCS2	Total Organic Halides Rep 1		200	194	ug/L	97	(90-110)		
MBLK	Total Organic Halides Rep 1			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 1		5.0	4.8	ug/L	96	(50-150)		
MS_201205170192	Total Organic Halides Rep 1	1800	50	4770	ug/L	<u>120</u>	(90-110)		
MSD_201205170192	Total Organic Halides Rep 1	1800	50	4750	ug/L	<u>119</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 1		5.0	4.95	ug/L	99	(97-103)		
LCS1	Total Organic Halides Rep 2		50	47.7	ug/L	96	(85-115)		
LCS2	Total Organic Halides Rep 2		200	195	ug/L	98	(90-110)		
MBLK	Total Organic Halides Rep 2			<10	ug/L				
MRL_CHK	Total Organic Halides Rep 2		5.0	4.86	ug/L	97	(50-150)		
MS_201205170192	Total Organic Halides Rep 2	1800	50	4770	ug/L	<u>119</u>	(90-110)		
MSD_201205170192	Total Organic Halides Rep 2	1800	50	4750	ug/L	<u>119</u>	(90-110)		
NACL_CHK	Total Organic Halides Rep 2		5.0	4.95	ug/L	99	(97-103)		

QC Ref# 655846 - Chloride, Sulfate by EPA 300.0 by EPA 9056

Analysis Date: 05/29/2012

LCS1	Chloride		25	25.8	mg/L	103	(90-110)		
LCS2	Chloride		25	25.3	mg/L	101	(90-110)	20	2.0
MBLK	Chloride			<0.5	mg/L				

Spike recovery is already corrected for native results.

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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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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Chloride		0.5	0.420	mg/L	84	(50-150)		
LCS1	Sulfate		50	50.3	mg/L	101	(90-110)		
LCS2	Sulfate		50	49.3	mg/L	99	(90-110)	20	2.0
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.926	mg/L	93	(50-150)		
MRLLW	Sulfate		0.25	0.205	mg/L	82	(50-150)		
MS_201205300664	Sulfate	160	25	408	mg/L	101	(80-120)		
MSD_201205300664	Sulfate	160	25	407	mg/L	100	(80-120)	20	0.25
QC Ref# 656005 - Perchlorate by EPA 314.0						Analysis Date: 05/31/2012			
LCS1	Perchlorate		25	27.9	ug/L	111	(85-115)		
LCS2	Perchlorate		25	27.4	ug/L	110	(85-115)	15	1.8
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.65	ug/L	91	(75-125)		
MS_201205190123	Perchlorate	32000	25	57300	ug/L	102	(80-120)		
MSD_201205190123	Perchlorate	32000	25	54700	ug/L	91	(80-120)	15	4.6
QC Ref# 656191 - Chloride, Sulfate by EPA 300.0 by EPA 9056						Analysis Date: 05/31/2012			
LCS1	Chloride		25	26.8	mg/L	107	(90-110)		
LCS2	Chloride		25	26.1	mg/L	105	(90-110)	20	2.6
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.437	mg/L	87	(50-150)		
MS_201206010171	Chloride	220	13	360	mg/L	109	(80-120)		
MSD_201206010171	Chloride	220	13	364	mg/L	113	(80-120)	20	1.1
LCS1	Sulfate		50	53.3	mg/L	107	(90-110)		
LCS2	Sulfate		50	51.9	mg/L	104	(90-110)	20	2.7
MBLK	Sulfate			<0.25	mg/L				
MRL_CHK	Sulfate		1.0	0.978	mg/L	98	(50-150)		
MRLLW	Sulfate		0.25	0.247	mg/L	99	(50-150)		
MS_201206010171	Sulfate	100	25	368	mg/L	106	(80-120)		
MSD_201206010171	Sulfate	100	25	371	mg/L	107	(80-120)	20	0.81
QC Ref# 656266 - Phenolic Compounds by MWH 420/SW9066						Analysis Date: 05/31/2012			
LCS1	Phenolic Compounds		0.08	0.0815	mg/L	102	(90-110)		
LCS2	Phenolic Compounds		0.08	0.0787	mg/L	98	(90-110)	20	3.5
MBLK	Phenolic Compounds			<0.01	mg/L				
MS_201205160164	Phenolic Compounds	ND	0.08	0.0846	mg/L	105	(90-110)		
MS_201205140061	Phenolic Compounds	ND	0.08	0.0831	mg/L	104	(90-110)		
MSD_201205160164	Phenolic Compounds	ND	0.08	0.0826	mg/L	103	(90-110)	20	2.4
MSD_201205140061	Phenolic Compounds	ND	0.08	0.0818	mg/L	102	(90-110)	20	1.6

Spike recovery is already corrected for native results.

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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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Environ International Corp.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
RLLOW	Phenolic Compounds		0.005	0.00471	mg/L	94	(50-150)		

Spike recovery is already corrected for native results.

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