



**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: 398056  
Project: CWA-RCRA  
Group: Quarterly CR6010  
Testing

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**

<b>State</b>	<b>Certification Number</b>	<b>State</b>	<b>Certification Number</b>
<b>Alabama</b>	41060	<b>Mississippi</b>	Certified
<b>Alaska</b>	CA00006	<b>Montana</b>	Cert 0035
<b>Arizona</b>	AZ0455	<b>Nevada</b>	CA00006-2010-1
<b>Arkansas</b>	Certified	<b>New Hampshire</b>	2959-11
<b>California – NELAP</b>	01114CA	<b>New Jersey</b>	CA 008
<b>California – ELAP</b>	1422	<b>New Mexico</b>	Certified
<b>Colorado</b>	Certified	<b>New York</b>	11320
<b>Connecticut</b>	PH-0107	<b>North Carolina</b>	06701
<b>Delaware</b>	CA 006	<b>North Dakota</b>	R-009
<b>Florida</b>	E871024	<b>Oregon</b>	CA 200003-009
<b>Georgia</b>	947	<b>Pennsylvania</b>	68-565
<b>Guam</b>	11-004r	<b>Rhode Island</b>	01114CA
<b>Hawaii</b>	Certified	<b>South Carolina</b>	87016001
<b>Idaho</b>	Certified	<b>South Dakota</b>	Certified
<b>Illinois</b>	200033	<b>Tennessee</b>	TN02839
<b>Indiana</b>	C-CA-01	<b>Texas</b>	T104704230-11-2
<b>Kansas</b>	E-10268	<b>Utah</b>	Mont-1
<b>Kentucky</b>	90107	<b>Vermont</b>	VT0114
<b>Louisiana</b>	LA110022	<b>Virginia</b>	00210
<b>Maine</b>	CA0006	<b>Washington</b>	C383
<b>Maryland</b>	224	<b>West Virginia</b>	9943 C
<b>Commonwealth of Northern Marianas Is.</b>	MP0004	<b>Wisconsin</b>	998316660
<b>Massachusetts</b>	M-CA006	<b>Wyoming</b>	8TMS-L
<b>Michigan</b>	9906	<b>EPA Region 5</b>	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 #: 398056  
Project: CWA-RCRA  
Sample Group: Quarterly CR6010 Testing  
Project Manager: Rita S. Sprinkle  
Phone: 916-418-8358

The following samples were received from you on **May 29, 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>201205300223</u>	M-129	05/23/2012 1026
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300224</u>	M-130	05/23/2012 1134
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300225</u>	E-EB-3	05/23/2012 1248
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300226</u>	M-165	05/23/2012 1326
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300227</u>	ED-2	05/23/2012 1345
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300228</u>	M-181	05/23/2012 1435
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300229</u>	M-182	05/23/2012 1533
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300230</u>	TR-11	05/24/2012 0636
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300231</u>	TR-12	05/24/2012 0737
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300232</u>	M-156	05/24/2012 0835
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300233</u>	ED-3	05/24/2012 0852
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300234</u>	M-152	05/24/2012 1000
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300235</u>	M-155	05/24/2012 1127
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300236</u>	ED-4	05/24/2012 1136



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Project: CWA-RCRA  
Sample Group: Quarterly CR6010 Testing  
Project Manager: Rita S. Sprinkle  
Phone: 916-418-8358

The following samples were received from you on **May 29, 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
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300237</u>	M-151	05/24/2012 1224
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300238</u>	M-186	05/24/2012 1426
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300239</u>	E-EB-4	05/24/2012 1349
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300240</u>	M-164	05/24/2012 1320
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300241</u>	M-153	05/24/2012 1529
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)
<u>201205300242</u>	M-149	05/24/2012 1635
	Chromium Total ICAP RCRA	Perchlorate
		Total Dissolved Solid (TDS)

**Test Description**

398056  
03690

PAGE 1 of 3

# CHAIN-OF-CUSTODY

## ENVIRON

6001 Shellmound Street, Suite 700  
Emeryville, California 94608  
(510) 655-7400  
(510) 655-9517 (fax)

PROJECT NAME / FACILITY ID: NERT FIELD PERSON: E. Post  
 PROJECT NUMBER: 2129100 G09 DATE: 5/24/12 PROJECT MANAGER: C. Ritchie  
 PROJECT LOCATION: Henderson, NV LABORATORY: MWH

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: \_\_\_\_\_ WO#: \_\_\_\_\_

SAMPLER: SIGNATURE:	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) GAS (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED			COMMENTS
									PERCHLORATE * by USEPA 314.0	Total Chromium by 6010	TDS by 2540	
M-129	5/23	1026	-		W	4	F/U	N/NO	X	X	X	CALL EHSE POST
M-130	5/23	1134	-		W	4	F/U	N/NO	X	X	X	W/ QUESTIONS
E-EB-3	5/23	1248	-		W	4	F/U	N/NO	X	X	X	@ 626 808 6445
M-165	5/23	1326	-		W	4	F/U	N/NO	X	X	X	
ED-2	5/23	1345	-		W	4	F/U	N/NO	X	X	X	* ANALYZE STERILE
M-181	5/23	1435	-		W	4	F/U	N/NO	X	X	X	FILTERED PERCHLORATE
M-182	5/23	1533	-		W	4	F/U	N/NO	X	X	X	HOLD UNFILTERED
TR-11	5/24	0636	-		W	4	F/U	N/NO	X	X	X	PERCHLORATE
TR-12	5/24	0737	-		W	4	F/U	N/NO	X	X	X	BOTTLE
<b>TOTAL</b>									X	X	X	

RELINQUISHED BY: Elise Post 5/25/12 1100 TIME/DATE:  
 RECEIVED BY: Fedex 5/25/12 1100 TIME/DATE:  
 RELINQUISHED BY: \_\_\_\_\_ 5/29/12 1015 TIME/DATE:  
 RECEIVED BY: MWH TIME/DATE:  
 RELINQUISHED BY: \_\_\_\_\_ TIME/DATE:  
 RECEIVED BY: \_\_\_\_\_ TIME/DATE:

TURNAROUND TIME (CIRCLE ONE) 24 HOURS 48 HOURS 72 HOURS 5 DAYS  
 SAMPLE INTEGRITY: Y N Temp 13.7 °C IF SEALED, SEAL INTEGRITY: \_\_\_\_\_ INTACT: Y N

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER



# ENVIRON

6001 Shellmound Street, Suite 700  
 Emeryville, California 94608  
 (510) 655-7400  
 (510) 655-9517 (fax)

# CHAIN-OF-CUSTODY

03700

PAGE 3 of 3

PROJECT NAME / FACILITY ID: NERT FIELD PERSON: E. Post  
 PROJECT NUMBER: 2129100 609 DATE: 5/24/12 PROJECT MANAGER: C. Ritchie  
 PROJECT LOCATION: Henderson, NV LABORATORY: MWH

IS THIS A UST PROJECT OR IS EDF REQUIRED? Y N IF YES, GLOBAL ID #: \_\_\_\_\_ WO#: \_\_\_\_\_

SAMPLER: SIGNATURE:	YEAR	SAMPLE DATE	SAMPLE TIME	SAMPLE DEPTH	MATRIX (S) SOIL (G) (W) WATER	NUMBER OF CONTAINERS	FILTERED/UNFILTERED (F/U)	PRESERVATION (SEE KEY)	ANALYSIS REQUIRED		COMMENTS
									USEPA 314.0 Perchlorate	TDS by 2540 by Gold	
<u>E. Post</u>											
<u>Elise Post</u>											
M-164	5/24	1330	-		W	4	F/U	N/ND	X	X	CALL ELISE POST
M-153	5/24	1529	-		W	4	F/U	N/ND	X	X	w/ QUESTIONS
M-149	5/24	1635	-		W	4	F/U	N/ND	X	X	@ 626 808 6445
											* ANALYZE STERILE-
											FILTERED PERCHLORATE
											HOLD UNFILTERED
											PERCHLORATE BOTTLE
TOTAL											

RELINQUISHED BY: <u>Elise Post</u>	TIME/DATE: 5/25/12 1100	RECEIVED BY: (COMPANY): <u>Fedex</u>	TIME/DATE: 5/25/12 1100	TURNAROUND TIME (CIRCLE ONE)	SAMEDAY	72 HOURS
RELINQUISHED BY: <u>Fedex</u>	TIME/DATE: 5/26/12 1930	RECEIVED BY: (COMPANY): <u>Elise Post</u>	TIME/DATE: 5/26/12 1930	48 HOURS	24 HOURS	5 DAYS
RELINQUISHED BY: <u>Elise Post</u>	TIME/DATE: 5/29/12 0845	RECEIVED BY: (COMPANY): <u>ENVIRON</u>	TIME/DATE: 5/26/12 1930	SAMPLE INTEGRITY		NORMAL
New By: <u>Chris Cabrera</u> 5/29/12 845				INTACT: <u>Y</u> N Temp: <u>5.6</u>	IF SEALED, SEAL INTEGRITY	INTACT: Y N

H = HCL; N = HNO3; S = H2SO4; U = UNKNOWN; NO = NONE; O = OTHER

June 24, 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 29, 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:

Other Observations:

There were no unusual observations on this sample set.

Sincerely,



Rita S. Sprinkle  
Project Manager





**MWH**

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**Laboratory Comments**  
**Report: #398056**



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Laboratory Data
Report: 398056

Environ International Corp.

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

Samples Received on:
05/29/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple sections for different samples (M-129, M-130, E-EB-3, M-165, ED-2) with their respective test results.

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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Report: 398056

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Phoenix, AZ 85016

Samples Received on:  
05/29/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
<b>EPA 6010 - ICP Metals</b>										
5/31/2012	06/18/2012	21:51 658868	(EPA 6010)	Chromium Total ICAP	0.024	mg/L	0.00044	0.02	0.00088	2
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	06/11/2012	19:53 657647	(EPA 314.0)	Perchlorate	210	ug/L	0.25	40	2.5	10
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/29/2012	05/30/2012	22:26 655821	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	530	mg/L	4.2	10	4.2	1
<b><u>M-181 (201205300228)</u></b>							<b>Sampled on 05/23/2012 1435</b>			
<b>EPA 6010 - ICP Metals</b>										
5/31/2012	06/18/2012	21:54 658868	(EPA 6010)	Chromium Total ICAP	0.042	mg/L	0.00044	0.02	0.00088	2
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	06/07/2012	20:11 657227	(EPA 314.0)	Perchlorate	ND	ug/L	0.25	4	0.25	1
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/29/2012	05/30/2012	22:27 655821	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	510	mg/L	4.2	10	4.2	1
<b><u>M-182 (201205300229)</u></b>							<b>Sampled on 05/23/2012 1533</b>			
<b>EPA 6010 - ICP Metals</b>										
5/31/2012	06/18/2012	21:58 658868	(EPA 6010)	Chromium Total ICAP	1.3	mg/L	0.00044	0.02	0.00088	2
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	06/11/2012	20:16 657647	(EPA 314.0)	Perchlorate	8100	ug/L	0.25	400	25	100
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/29/2012	05/30/2012	22:28 655821	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	12000	mg/L	4.2	10	4.2	1
<b><u>TR-11 (201205300230)</u></b>							<b>Sampled on 05/24/2012 0636</b>			
<b>EPA 6010 - ICP Metals</b>										
5/31/2012	06/18/2012	21:22 658868	(EPA 6010)	Chromium Total ICAP	0.015	mg/L	0.00044	0.01	0.00044	1
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	06/07/2012	21:19 657227	(EPA 314.0)	Perchlorate	ND	ug/L	0.25	4	0.25	1
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/29/2012	05/30/2012	22:29 655821	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	720	mg/L	4.2	10	4.2	1
<b><u>TR-12 (201205300231)</u></b>							<b>Sampled on 05/24/2012 0737</b>			
<b>EPA 6010 - ICP Metals</b>										
5/31/2012	06/18/2012	22:01 658868	(EPA 6010)	Chromium Total ICAP	0.048	mg/L	0.00044	0.02	0.00088	2

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

Rounding on totals after summation.

(c) - Indicates calculated results.

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Laboratory Data
Report: 398056

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Samples Received on:
05/29/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MDL, MRL, SQL, Dilution. Contains multiple rows for different samples and methods, including EPA 314.0, E160.1/SM2540C, and EPA 6010.

M-156 (201205300232)

Sampled on 05/24/2012 0835

ED-3 (201205300233)

Sampled on 05/24/2012 0852

M-152 (201205300234)

Sampled on 05/24/2012 1000

M-155 (201205300235)

Sampled on 05/24/2012 1127

Sample Quantitation Limit (SQL) = MDL \* Dilution Factor.
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Report: 398056**

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1702 E. Highland Ave.  
Suite 412  
Phoenix, AZ 85016

Samples Received on:  
05/29/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/29/2012	05/30/2012	22:40 655821	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	540	mg/L	4.2	10	4.2	1
<b>ED-4 (201205300236)</b>							<b>Sampled on 05/24/2012 1136</b>			
<b>EPA 6010 - ICP Metals</b>										
5/31/2012	06/18/2012	22:37 658868	(EPA 6010)	Chromium Total ICAP	0.016J	mg/L	0.00044	0.02	0.00088	2
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	06/11/2012	21:23 657647	(EPA 314.0)	Perchlorate	ND	ug/L	0.25	4	0.25	1
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/30/2012	05/31/2012	23:20 656087	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	530	mg/L	4.2	10	4.2	1
<b>M-151 (201205300237)</b>							<b>Sampled on 05/24/2012 1224</b>			
<b>EPA 6010 - ICP Metals</b>										
5/31/2012	06/18/2012	22:40 658868	(EPA 6010)	Chromium Total ICAP	0.030	mg/L	0.00044	0.02	0.00088	2
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	06/07/2012	23:33 657227	(EPA 314.0)	Perchlorate	ND	ug/L	0.25	4	0.25	1
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/30/2012	05/31/2012	23:22 656087	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	490	mg/L	4.2	10	4.2	1
<b>M-186 (201205300238)</b>							<b>Sampled on 05/24/2012 1426</b>			
<b>EPA 6010 - ICP Metals</b>										
5/31/2012	06/18/2012	22:44 658868	(EPA 6010)	Chromium Total ICAP	1.8	mg/L	0.00044	0.05	0.0022	5
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	06/07/2012	23:55 657227	(EPA 314.0)	Perchlorate	92000	ug/L	0.25	40000	2500	10000
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/30/2012	05/31/2012	23:23 656087	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	4100	mg/L	4.2	10	4.2	1
<b>E-EB-4 (201205300239)</b>							<b>Sampled on 05/24/2012 1349</b>			
<b>EPA 6010 - ICP Metals</b>										
5/31/2012	06/18/2012	22:08 658868	(EPA 6010)	Chromium Total ICAP	ND	mg/L	0.00044	0.01	0.00044	1
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>										
	06/08/2012	00:18 657227	(EPA 314.0)	Perchlorate	6.3	ug/L	0.25	4	0.25	1
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>										
5/30/2012	05/31/2012	23:39 656087	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	4.2	10	4.2	1

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

Rounding on totals after summation.

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Report: 398056

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Phoenix, AZ 85016

Samples Received on:  
05/29/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	SQL	Dilution	
<b><u>M-164 (201205300240)</u></b>							<b>Sampled on 05/24/2012 1320</b>				
<b>EPA 6010 - ICP Metals</b>											
5/31/2012	06/18/2012	22:47 658868	(EPA 6010)	Chromium Total ICAP	2.6	mg/L	0.00044	0.05	0.0022	5	
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>											
	06/11/2012	21:45 657647	(EPA 314.0)	Perchlorate	420000	ug/L	0.25	40000	2500	10000	
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>											
5/30/2012	05/31/2012	23:24 656087	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	3400	mg/L	4.2	10	4.2	1	
<b><u>M-153 (201205300241)</u></b>							<b>Sampled on 05/24/2012 1529</b>				
<b>EPA 6010 - ICP Metals</b>											
5/31/2012	06/18/2012	22:51 658868	(EPA 6010)	Chromium Total ICAP	0.021	mg/L	0.00044	0.02	0.00088	2	
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>											
	06/11/2012	22:08 657647	(EPA 314.0)	Perchlorate	19	ug/L	0.25	4	0.25	1	
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>											
5/30/2012	05/31/2012	23:25 656087	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	540	mg/L	4.2	10	4.2	1	
<b><u>M-149 (201205300242)</u></b>							<b>Sampled on 05/24/2012 1635</b>				
<b>EPA 6010 - ICP Metals</b>											
5/31/2012	06/18/2012	22:53 658868	(EPA 6010)	Chromium Total ICAP	2.1	mg/L	0.00044	0.05	0.0022	5	
<b>EPA 314.0 - Perchlorate Sterile Filtered</b>											
	06/11/2012	22:30 657647	(EPA 314.0)	Perchlorate	270000	ug/L	0.25	40000	2500	10000	
<b>E160.1/SM2540C - Total Dissolved Solid (TDS)</b>											
5/30/2012	05/31/2012	23:26 656087	(E160.1/SM2540C)	Total Dissolved Solids (TDS)	2200	mg/L	4.2	10	4.2	1	

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  
QC Summary: 398056**

Environ International Corp.

**QC Ref # 655821 - Total Dissolved Solids (TDS)**

201205300223	M-129
201205300224	M-130
201205300225	E-EB-3
201205300226	M-165
201205300227	ED-2
201205300228	M-181
201205300229	M-182
201205300230	TR-11
201205300231	TR-12
201205300232	M-156
201205300233	ED-3
201205300234	M-152
201205300235	M-155

**Analysis Date: 05/30/2012**

Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF

**QC Ref # 656087 - Total Dissolved Solids (TDS)**

201205300236	ED-4
201205300237	M-151
201205300238	M-186
201205300239	E-EB-4
201205300240	M-164
201205300241	M-153
201205300242	M-149

**Analysis Date: 05/31/2012**

Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF  
Analyzed by: JRF

**QC Ref # 657227 - Perchlorate**

201205300223	M-129
201205300224	M-130
201205300225	E-EB-3
201205300228	M-181
201205300230	TR-11
201205300231	TR-12
201205300233	ED-3
201205300234	M-152
201205300237	M-151
201205300238	M-186
201205300239	E-EB-4

**Analysis Date: 06/07/2012**

Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE

**QC Ref # 657647 - Perchlorate**

201205300226	M-165
201205300227	ED-2
201205300229	M-182
201205300232	M-156
201205300235	M-155
201205300236	ED-4
201205300240	M-164
201205300241	M-153
201205300242	M-149

**Analysis Date: 06/11/2012**

Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE  
Analyzed by: LUPE



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**Laboratory**  
**QC Summary: 398056**

Environ International Corp.

(continued)

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**QC Ref # 658868 - ICP Metals**

**Analysis Date: 06/18/2012**

201205300223	M-129	Analyzed by: NINA
201205300224	M-130	Analyzed by: NINA
201205300225	E-EB-3	Analyzed by: NINA
201205300226	M-165	Analyzed by: NINA
201205300227	ED-2	Analyzed by: NINA
201205300228	M-181	Analyzed by: NINA
201205300229	M-182	Analyzed by: NINA
201205300230	TR-11	Analyzed by: NINA
201205300231	TR-12	Analyzed by: NINA
201205300232	M-156	Analyzed by: NINA
201205300233	ED-3	Analyzed by: NINA
201205300234	M-152	Analyzed by: NINA
201205300235	M-155	Analyzed by: NINA
201205300236	ED-4	Analyzed by: NINA
201205300237	M-151	Analyzed by: NINA
201205300238	M-186	Analyzed by: NINA
201205300239	E-EB-4	Analyzed by: NINA
201205300240	M-164	Analyzed by: NINA
201205300241	M-153	Analyzed by: NINA
201205300242	M-149	Analyzed by: NINA





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Environ International Corp.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
<b>QC Ref# 655821 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>					<b>Analysis Date: 05/30/2012</b>				
DUP_201205260065	Total Dissolved Solid (TDS)	2000		2020	mg/L		(0-20)	20	1.3
DUP_201205250291	Total Dissolved Solid (TDS)	550		560	mg/L		(0-20)	20	2.2
LCS1	Total Dissolved Solid (TDS)		175	174	mg/L	99	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	694	mg/L	99	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	6.00	mg/L	60	(50-150)		
<b>QC Ref# 656087 - Total Dissolved Solids (TDS) by E160.1/SM2540C</b>					<b>Analysis Date: 05/31/2012</b>				
DUP_201205300271	Total Dissolved Solid (TDS)	610		608	mg/L		(0-20)	20	0.66
DUP_201205300236	Total Dissolved Solid (TDS)	530		530	mg/L		(0-20)	20	0.38
LCS1	Total Dissolved Solid (TDS)		175	164	mg/L	94	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	690	mg/L	99	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	10.0	mg/L	100	(50-150)		
<b>QC Ref# 657227 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 06/07/2012</b>				
LCS1	Perchlorate		25	28.4	ug/L	114	(85-115)		
LCS2	Perchlorate		25	27.3	ug/L	109	(85-115)	15	4.0
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	4.72	ug/L	118	(75-125)		
MS_201205250212	Perchlorate	120000	25	269000	ug/L	118	(80-120)		
MSD_201205250212	Perchlorate	120000	25	272000	ug/L	119	(80-120)	15	1.1
<b>QC Ref# 657647 - Perchlorate by EPA 314.0</b>					<b>Analysis Date: 06/11/2012</b>				
LCS1	Perchlorate		25	24.0	ug/L	96	(85-115)		
LCS2	Perchlorate		25	25.1	ug/L	101	(85-115)	15	4.5
MBLK	Perchlorate			<4	ug/L				
MRL_CHK	Perchlorate		4.0	3.54	ug/L	89	(75-125)		
MS_201205300226	Perchlorate	240	25	493	ug/L	102	(80-120)		
MSD_201205300226	Perchlorate	240	25	486	ug/L	99	(80-120)	15	1.4
<b>QC Ref# 658868 - ICP Metals by EPA 6010</b>					<b>Analysis Date: 06/18/2012</b>				
LCS1	Chromium Total ICAP		1.0	1.03	mg/L	103	(85-115)		
LCS2	Chromium Total ICAP		1.0	1.02	mg/L	102	(85-115)	20	0.98
MBLK	Chromium Total ICAP			<0.01	mg/L				
MRL_CHK	Chromium Total ICAP		0.01	0.0119	mg/L	119	(50-150)		
MS_201205300230	Chromium Total ICAP	0.015	1.0	0.979	mg/L	97	(70-130)		
MS2_201205300239	Chromium Total ICAP	ND	1.0	1.04	mg/L	104	(70-130)		
MSD_201205300230	Chromium Total ICAP	0.015	1.0	1.04	mg/L	103	(70-130)	20	6.0

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.  
 (I) - Indicates internal standard compound.



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Laboratory QC  
Report: 398056

Environ International Corp.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201205300239	Chromium Total ICAP	ND	1.0	1.03	mg/L	103	(70-130)	20	0.97

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.

(I) - Indicates internal standard compound.