

APPENDIX B

Laboratory Analytical Reports



TO: Kevin Pasternak
FROM: Carol Lovett, Austin QA/QC Group
PROJECT: Colorado River Corridor (CRC)
DATE: June 13, 2014
SUBJECT: Data Validation Summary for the February 2014 Sampling Event

I have completed the data review and validation of the February 2014 sampling event. This was a general review of the results that were reported from one laboratory: Lower Colorado River Authority Environmental Laboratory Services, Austin, Texas. The quality control (QC) results that were submitted by the laboratory were reviewed to confirm that the analyses were performed according to the CRC Quality Assurance Project Plan, August 2011 and to assess the quality of the reported laboratory data.

The QC results indicate that the data are usable for the intended purposes. N results were qualified.



TO: Kevin Pasternak
FROM: Carol Lovett, Austin QA/QC Group
PROJECT: Colorado River Corridor (CRC)
DATE: May 30, 2014
SUBJECT: Data Validation Summary for the May 2014 Sampling Event

I have completed the data review and validation of the May 2014 sampling event. This was a general review of the results that were reported from one laboratory: DHL Analytical, Round Rock, Texas. The quality control (QC) results that were submitted by the laboratory were reviewed to confirm that the analyses were performed according to method protocols and to assess the quality of the reported laboratory data.

The QC results indicate that the data are usable for the intended purposes. Additional observations are:

- Sample results that were detected between the method detection limits (MDLs) and reporting (RLs) were qualified with “J” as estimated.
- The average MS/MSD recoveries for chloride (89.4%) and nitrate (76.3%) for parent sample CRCP-221049-110 were below the acceptance criteria of 90%-110%. Chloride and nitrate results qualified due to low MS/MSD recoveries are presented in Table 1.
- The average MS/MSD recovery for sulfate (115%) for parent sample CRCP-NTNW2-113 was above the acceptance criteria of 90%-110%. Sulfate results qualified due to high MS/MSD recoveries are presented in Table 1.
- Some matrix spike/matrix spike duplicate (MS/MSD) results and post digestion spikes for metals could not be evaluated since the concentrations in the parent samples were greater than four times the spike concentrations.

- Calcium, magnesium, potassium, and sodium were detected in equipment blank CRCP-WisianW2-115. Results in the associated samples were greater than five times the equipment blank concentrations; therefore, no results were qualified.
- Total suspended solids (TSS) were detected in equipment blank CRCP-WisianW2-115 at 3.90 milligrams per liter. TSS results qualified due to similarity to equipment blank concentration are presented in Table 1.
- The RPD (154%) for ammonia for sample CRCP-ATF1-110 and its field duplicate CRCP-ATF1-111 was greater than the acceptance criterion of 30% RPD. Ammonia results qualified due to field duplicate variability are presented in Table 1.

**Table 1
Qualified Results**

Client Identification	Method	Analyte	Result	Reason
CRCP-58522-110 CRCP-221049-110 CRCP-5852314-110 CRCP-Buccheit-110 CRCP-Holweger-110	E300.0	Chloride Nitrate	JL (Detects)	Average MS/MSD recovery < LCL and \geq 30%
CRCP-5852213-110 CRCP-ATF1-110 CRCP-ATF1-111 CRCP-NTNW2-113 CRCP-WisianW1-110 CRCP-WisianW2-110		Sulfate	JH (Detects)	Average MS/MSD recovery > UCL
CRCP-5852213-110 CRCP-WisianW2-110	SM2540D	Total Suspended Solids	B (Detects)	Concentration within 5x of equipment blank concentration
CRCP-ATF1-110 CRCP-ATF1-111	SM4500-NH ₃ -F	Ammonia	J (Detects)/UJ (Nondetects)	Field duplicate RPD > 30%

B – Similar to blank concentration
 E – Environmental Protection Agency
 J - Estimated
 JH – Estimated/biased high
 JL – Estimated/biased low
 LCL – Lower control limit
 MS/MSD – Matrix spike/matrix spike duplicate
 RPD – Relative percent difference
 SM – Standard Method for the Examination of Water and Wastewater
 UCL – Upper control limit



TO: Kevin Pasternak
FROM: Carol Lovett, Austin QA/QC Group
PROJECT: Colorado River Corridor (CRC)
DATE: June 13, 2014
SUBJECT: Data Validation Summary for the November 2013 Sampling Event

I have completed the data review and validation of the November 2013 sampling event. This was a general review of the results that were reported from one laboratory: Lower Colorado River Authority Environmental Laboratory Services, Austin, Texas. The quality control (QC) results that were submitted by the laboratory were reviewed to confirm that the analyses were performed according to the CRC Quality Assurance Project Plan, August 2011 and to assess the quality of the reported laboratory data.

The QC results indicate that the data are usable for the intended purposes. Additional observations are:

- The average recoveries for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) pair associated with all of the samples were below the laboratory acceptance criteria but $\geq 10\%$ for ten compounds. Results qualified due to low LCS/LCSD recoveries are presented in Table 1.
- The average recoveries for the matrix spike/matrix spike duplicate (MS/MSD) of parent sample CRCP-ATF1-093 were below the laboratory acceptance criteria but $\geq 10\%$ for the same ten compounds that were recovered below the acceptance criteria in the LCS/LCSD pair. These results had already been qualified due to LCS/LCSD recoveries; therefore, further qualifications were not made.

Table 1
Qualified Results

Sample Identification	Analyte	Result	Qualification	Reason
CRCP-58522-090	Benzo(a)anthracene	Nondetect	UJL	Average LCS/LCSD recovery < LCL but ≥ 10%
CRCP-58522-091	Benzo(a)pyrene			
CRCP-221049-090	Benzo(b)fluoranthene			
CRCP-5852213-090	Benzo(g,h,i)perylene			
CRCP-5852314-090	Benzo(k)fluoranthene			
CRCP-ATF1-093	Dibenz(a,h)anthracene			
CRCP-BUCCHEIT-090	Fluorene			
CRCP-HOLWEGER-090	Indeno(1,2,3-cd)pyrene			
CRCP-WISIANW1-090	Naphthalene			
CRCP-NTNW2-090	Pyrene			
CRCP-WISIANW2-090				

LCL – Lower control limit

LCS/LCSD – Laboratory control sample/laboratory control sample duplicate

UJL – Not detected/estimated/biased low



TO: Kevin Pasternak
FROM: Carol Lovett, Austin QA/QC Group
PROJECT: Colorado River Corridor (CRC)
DATE: June 13, 2014
SUBJECT: Data Validation Summary for the September 2013 Sampling Event

I have completed the data review and validation of the September 2013 sampling event. This was a general review of the results that were reported from one laboratory: Lower Colorado River Authority Environmental Laboratory Services, Austin, Texas. The quality control (QC) results that were submitted by the laboratory were reviewed to confirm that the analyses were performed according to the CRC Quality Assurance Project Plan, August 2011 and to assess the quality of the reported laboratory data.

The QC results indicate that the data are usable for the intended purposes. No results were qualified.



May 28, 2014

Kevin Pasternick
URS Corporation
9400 Amberglen Bldg E
Austin, Texas 78729
TEL: (512) 454-4797
FAX (512) 454-8807
RE: CRCP

Order No.: 1405218

Dear Kevin Pasternick:

DHL Analytical, Inc. received 5 sample(s) on 5/20/2014 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read "John DuPont", is written over a white background.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-14-12



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Sample Receipt Checklist

Client Name URS Corporation

Date Received: 5/20/2014

Work Order Number 1405218

Received by BB

Checklist completed by: [Signature] 5/20/2014
Signature Date

Reviewed by: [Initials] 5/20/2014
Initials Date

Carrier name Hand Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 0.0 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT # 7179
Adjusted? No Checked by [Signature]
- Water - pH>9 (S) or pH>12 (CN) acceptable upon receipt? Yes No NA LOT #
Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CLIENT: URS Corporation
Project: CRCP
Lab Order: 1405218

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

- Method E300 - Anions Analysis
- Method SW6020A - Metals Analysis
- Method TX1005 - Total Petroleum Hydrocarbons
- Method M2320 B - Alkalinity Analysis
- Method M4500-NH3 F - Nitrogen Ammonia Analysis
- Method M2540D - Total Suspended Solids

LOG IN

The samples were received and log-in performed on 5/20/2014. A total of 5 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

ANIONS ANALYSIS

For Anions Analysis, the recovery of Nitrate-N for the Matrix Spike and Matrix Spike Duplicate (1405218-03 MS/MSD) was below the method control limits. Additionally, the recovery of Chloride for the Matrix Spike Duplicate (1405218-03 MSD) was below the method control limits. These are flagged accordingly in the QC Summary Report. These anions were within method control limits the associated LCS. No further corrective action was taken.

METALS ANALYSIS

For Metals Analysis, the recoveries of two analytes for the Matrix Spike and Matrix Spike Duplicate (1405233-07 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits the associated LCS. No further corrective action was taken.

For Metals Analysis, the recoveries of three analytes for the Post Digestion Spike (1405233-07 PDS) were above the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits the associated Serial Dilution. No further corrective action was taken.

CLIENT: URS Corporation
Project: CRCP
Lab Order: 1405218

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1405218-01	CRCP-Buccheit-110		05/19/14 02:55 PM	5/20/2014
1405218-02	CRCP-Holweger-110		05/19/14 01:53 PM	5/20/2014
1405218-03	CRCP-221049-110		05/19/14 12:43 PM	5/20/2014
1405218-04	CRCP-58522-110		05/19/14 11:07 AM	5/20/2014
1405218-05	CRCP-5852314-110		05/19/14 10:18 AM	5/20/2014

Lab Order: 1405218
 Client: URS Corporation
 Project: CRCP

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1405218-01A	CRCP-Buccheit-110	05/19/14 02:55 PM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405218-01B	CRCP-Buccheit-110	05/19/14 02:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-Buccheit-110	05/19/14 02:55 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405218-01C	CRCP-Buccheit-110	05/19/14 02:55 PM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405218-01D	CRCP-Buccheit-110	05/19/14 02:55 PM	Aqueous	M2320 B	Alkalinity Preparation	05/27/14 10:10 AM	63788
	CRCP-Buccheit-110	05/19/14 02:55 PM	Aqueous	E300	Anion Preparation	05/20/14 10:08 AM	63693
1405218-01E	CRCP-Buccheit-110	05/19/14 02:55 PM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743
1405218-02A	CRCP-Holweger-110	05/19/14 01:53 PM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405218-02B	CRCP-Holweger-110	05/19/14 01:53 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-Holweger-110	05/19/14 01:53 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405218-02C	CRCP-Holweger-110	05/19/14 01:53 PM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405218-02D	CRCP-Holweger-110	05/19/14 01:53 PM	Aqueous	M2320 B	Alkalinity Preparation	05/27/14 10:10 AM	63788
	CRCP-Holweger-110	05/19/14 01:53 PM	Aqueous	E300	Anion Preparation	05/20/14 10:08 AM	63693
1405218-02E	CRCP-Holweger-110	05/19/14 01:53 PM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743
1405218-03A	CRCP-221049-110	05/19/14 12:43 PM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405218-03B	CRCP-221049-110	05/19/14 12:43 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-221049-110	05/19/14 12:43 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405218-03C	CRCP-221049-110	05/19/14 12:43 PM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405218-03D	CRCP-221049-110	05/19/14 12:43 PM	Aqueous	M2320 B	Alkalinity Preparation	05/27/14 10:10 AM	63788
	CRCP-221049-110	05/19/14 12:43 PM	Aqueous	E300	Anion Preparation	05/20/14 10:08 AM	63693
1405218-03E	CRCP-221049-110	05/19/14 12:43 PM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743
1405218-04A	CRCP-58522-110	05/19/14 11:07 AM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405218-04B	CRCP-58522-110	05/19/14 11:07 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-58522-110	05/19/14 11:07 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405218-04C	CRCP-58522-110	05/19/14 11:07 AM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405218-04D	CRCP-58522-110	05/19/14 11:07 AM	Aqueous	M2320 B	Alkalinity Preparation	05/27/14 10:10 AM	63788
	CRCP-58522-110	05/19/14 11:07 AM	Aqueous	E300	Anion Preparation	05/20/14 10:08 AM	63693
	CRCP-58522-110	05/19/14 11:07 AM	Aqueous	E300	Anion Preparation	05/20/14 10:08 AM	63693

Lab Order: 1405218
Client: URS Corporation
Project: CRCP

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1405218-04E	CRCP-58522-110	05/19/14 11:07 AM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743
1405218-05A	CRCP-5852314-110	05/19/14 10:18 AM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405218-05B	CRCP-5852314-110	05/19/14 10:18 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-5852314-110	05/19/14 10:18 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405218-05C	CRCP-5852314-110	05/19/14 10:18 AM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405218-05D	CRCP-5852314-110	05/19/14 10:18 AM	Aqueous	M2320 B	Alkalinity Preparation	05/27/14 10:10 AM	63788
	CRCP-5852314-110	05/19/14 10:18 AM	Aqueous	E300	Anion Preparation	05/20/14 10:08 AM	63693
1405218-05E	CRCP-5852314-110	05/19/14 10:18 AM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743

Lab Order: 1405218
 Client: URS Corporation
 Project: CRCP

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1405218-01A	CRCP-Buccheit-110	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 10:12 AM	GC12_140522B
1405218-01B	CRCP-Buccheit-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/23/14 03:12 PM	ICP-MS3_140523A
	CRCP-Buccheit-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	50	05/23/14 03:42 PM	ICP-MS3_140523A
1405218-01C	CRCP-Buccheit-110	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405218-01D	CRCP-Buccheit-110	Aqueous	M2320 B	Alkalinity	63788	1	05/27/14 04:49 PM	TITRATOR_140527B
	CRCP-Buccheit-110	Aqueous	E300	Anions by IC method - Water	63693	1	05/20/14 11:35 AM	IC_140520A
1405218-01E	CRCP-Buccheit-110	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A
1405218-02A	CRCP-Holweger-110	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 10:21 AM	GC12_140522B
1405218-02B	CRCP-Holweger-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/23/14 03:18 PM	ICP-MS3_140523A
	CRCP-Holweger-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	50	05/23/14 03:48 PM	ICP-MS3_140523A
1405218-02C	CRCP-Holweger-110	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405218-02D	CRCP-Holweger-110	Aqueous	M2320 B	Alkalinity	63788	1	05/27/14 04:55 PM	TITRATOR_140527B
	CRCP-Holweger-110	Aqueous	E300	Anions by IC method - Water	63693	1	05/20/14 11:50 AM	IC_140520A
1405218-02E	CRCP-Holweger-110	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A
1405218-03A	CRCP-221049-110	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 10:29 AM	GC12_140522B
1405218-03B	CRCP-221049-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/23/14 03:24 PM	ICP-MS3_140523A
	CRCP-221049-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	50	05/23/14 03:54 PM	ICP-MS3_140523A
1405218-03C	CRCP-221049-110	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405218-03D	CRCP-221049-110	Aqueous	M2320 B	Alkalinity	63788	1	05/27/14 05:01 PM	TITRATOR_140527B
	CRCP-221049-110	Aqueous	E300	Anions by IC method - Water	63693	1	05/20/14 12:05 PM	IC_140520A
1405218-03E	CRCP-221049-110	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A
1405218-04A	CRCP-58522-110	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 10:38 AM	GC12_140522B
1405218-04B	CRCP-58522-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/23/14 03:30 PM	ICP-MS3_140523A
	CRCP-58522-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	50	05/23/14 04:00 PM	ICP-MS3_140523A
1405218-04C	CRCP-58522-110	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405218-04D	CRCP-58522-110	Aqueous	M2320 B	Alkalinity	63788	1	05/27/14 05:09 PM	TITRATOR_140527B
	CRCP-58522-110	Aqueous	E300	Anions by IC method - Water	63693	1	05/20/14 12:19 PM	IC_140520A
	CRCP-58522-110	Aqueous	E300	Anions by IC method - Water	63693	10	05/20/14 01:08 PM	IC_140520A

Lab Order: 1405218
 Client: URS Corporation
 Project: CRCP

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1405218-04E	CRCP-58522-110	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A
1405218-05A	CRCP-5852314-110	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 12:11 PM	GC12_140522B
1405218-05B	CRCP-5852314-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/23/14 03:36 PM	ICP-MS3_140523A
	CRCP-5852314-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	50	05/23/14 04:06 PM	ICP-MS3_140523A
1405218-05C	CRCP-5852314-110	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405218-05D	CRCP-5852314-110	Aqueous	M2320 B	Alkalinity	63788	1	05/27/14 05:14 PM	TITRATOR_140527B
	CRCP-5852314-110	Aqueous	E300	Anions by IC method - Water	63693	1	05/20/14 12:34 PM	IC_140520A
1405218-05E	CRCP-5852314-110	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A

DHL Analytical, Inc.

Date: 28-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405218

Client Sample ID: CRCP-Buccheit-110
Lab ID: 1405218-01
Collection Date: 05/19/14 02:55 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.685	0.685	1.96		mg/L	1	05/22/14 10:12 AM
T/R Hydrocarbons: >C12-C28	<0.685	0.685	1.96		mg/L	1	05/22/14 10:12 AM
T/R Hydrocarbons: >C28-C35	<0.685	0.685	1.96		mg/L	1	05/22/14 10:12 AM
T/R Hydrocarbons: C6-C35	<0.685	0.685	1.96		mg/L	1	05/22/14 10:12 AM
Surr: Isopropylbenzene	98.5	0	70-130		%REC	1	05/22/14 10:12 AM
Surr: Octacosane	88.4	0	70-130		%REC	1	05/22/14 10:12 AM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	133	5.00	15.0		mg/L	50	05/23/14 03:42 PM
Magnesium	13.1	0.100	0.300		mg/L	1	05/23/14 03:12 PM
Potassium	2.48	0.100	0.300		mg/L	1	05/23/14 03:12 PM
Sodium	59.2	5.00	15.0		mg/L	50	05/23/14 03:42 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	39.4	0.300	1.00		mg/L	1	05/20/14 11:35 AM
Fluoride	0.294	0.100	0.400	J	mg/L	1	05/20/14 11:35 AM
Nitrate-N	5.16	0.100	0.500		mg/L	1	05/20/14 11:35 AM
Sulfate	105	1.00	3.00		mg/L	1	05/20/14 11:35 AM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	323	10.0	20.0		mg/L @ pH 4.5	1	05/27/14 04:49 PM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.5	1	05/27/14 04:49 PM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.5	1	05/27/14 04:49 PM
Alkalinity, Total (As CaCO3)	323	20.0	20.0		mg/L @ pH 4.5	1	05/27/14 04:49 PM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	<0.100	0.100	0.250		mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	<5.00	5.00	5.00		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 28-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405218

Client Sample ID: CRCP-Holweger-110
Lab ID: 1405218-02
Collection Date: 05/19/14 01:53 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.678	0.678	1.94		mg/L	1	05/22/14 10:21 AM
T/R Hydrocarbons: >C12-C28	<0.678	0.678	1.94		mg/L	1	05/22/14 10:21 AM
T/R Hydrocarbons: >C28-C35	<0.678	0.678	1.94		mg/L	1	05/22/14 10:21 AM
T/R Hydrocarbons: C6-C35	<0.678	0.678	1.94		mg/L	1	05/22/14 10:21 AM
Surr: Isopropylbenzene	99.7	0	70-130		%REC	1	05/22/14 10:21 AM
Surr: Octacosane	86.9	0	70-130		%REC	1	05/22/14 10:21 AM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	108	5.00	15.0		mg/L	50	05/23/14 03:48 PM
Magnesium	16.0	0.100	0.300		mg/L	1	05/23/14 03:18 PM
Potassium	1.86	0.100	0.300		mg/L	1	05/23/14 03:18 PM
Sodium	34.6	5.00	15.0		mg/L	50	05/23/14 03:48 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	16.3	0.300	1.00		mg/L	1	05/20/14 11:50 AM
Fluoride	0.192	0.100	0.400	J	mg/L	1	05/20/14 11:50 AM
Nitrate-N	15.1	0.100	0.500		mg/L	1	05/20/14 11:50 AM
Sulfate	24.8	1.00	3.00		mg/L	1	05/20/14 11:50 AM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	311	10.0	20.0		mg/L @ pH 4.5	1	05/27/14 04:55 PM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.5	1	05/27/14 04:55 PM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.5	1	05/27/14 04:55 PM
Alkalinity, Total (As CaCO3)	311	20.0	20.0		mg/L @ pH 4.5	1	05/27/14 04:55 PM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	<0.100	0.100	0.250		mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	<2.50	2.50	2.50		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 28-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405218

Client Sample ID: CRCP-221049-110
Lab ID: 1405218-03
Collection Date: 05/19/14 12:43 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.690	0.690	1.97		mg/L	1	05/22/14 10:29 AM
T/R Hydrocarbons: >C12-C28	<0.690	0.690	1.97		mg/L	1	05/22/14 10:29 AM
T/R Hydrocarbons: >C28-C35	<0.690	0.690	1.97		mg/L	1	05/22/14 10:29 AM
T/R Hydrocarbons: C6-C35	<0.690	0.690	1.97		mg/L	1	05/22/14 10:29 AM
Surr: Isopropylbenzene	99.8	0	70-130		%REC	1	05/22/14 10:29 AM
Surr: Octacosane	84.7	0	70-130		%REC	1	05/22/14 10:29 AM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	105	5.00	15.0		mg/L	50	05/23/14 03:54 PM
Magnesium	12.1	0.100	0.300		mg/L	1	05/23/14 03:24 PM
Potassium	1.93	0.100	0.300		mg/L	1	05/23/14 03:24 PM
Sodium	33.2	5.00	15.0		mg/L	50	05/23/14 03:54 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	16.3	0.300	1.00		mg/L	1	05/20/14 12:05 PM
Fluoride	0.181	0.100	0.400	J	mg/L	1	05/20/14 12:05 PM
Nitrate-N	15.0	0.100	0.500		mg/L	1	05/20/14 12:05 PM
Sulfate	23.1	1.00	3.00		mg/L	1	05/20/14 12:05 PM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	289	10.0	20.0		mg/L @ pH 4.51	1	05/27/14 05:01 PM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.51	1	05/27/14 05:01 PM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.51	1	05/27/14 05:01 PM
Alkalinity, Total (As CaCO3)	289	20.0	20.0		mg/L @ pH 4.51	1	05/27/14 05:01 PM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	<0.100	0.100	0.250		mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	<2.50	2.50	2.50		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 28-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405218

Client Sample ID: CRCP-58522-110
Lab ID: 1405218-04
Collection Date: 05/19/14 11:07 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.677	0.677	1.93		mg/L	1	05/22/14 10:38 AM
T/R Hydrocarbons: >C12-C28	<0.677	0.677	1.93		mg/L	1	05/22/14 10:38 AM
T/R Hydrocarbons: >C28-C35	<0.677	0.677	1.93		mg/L	1	05/22/14 10:38 AM
T/R Hydrocarbons: C6-C35	<0.677	0.677	1.93		mg/L	1	05/22/14 10:38 AM
Surr: Isopropylbenzene	99.1	0	70-130		%REC	1	05/22/14 10:38 AM
Surr: Octacosane	86.5	0	70-130		%REC	1	05/22/14 10:38 AM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	118	5.00	15.0		mg/L	50	05/23/14 04:00 PM
Magnesium	35.5	5.00	15.0		mg/L	50	05/23/14 04:00 PM
Potassium	2.10	0.100	0.300		mg/L	1	05/23/14 03:30 PM
Sodium	75.6	5.00	15.0		mg/L	50	05/23/14 04:00 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	90.0	3.00	10.0		mg/L	10	05/20/14 01:08 PM
Fluoride	0.203	0.100	0.400	J	mg/L	1	05/20/14 12:19 PM
Nitrate-N	2.42	0.100	0.500		mg/L	1	05/20/14 12:19 PM
Sulfate	80.8	1.00	3.00		mg/L	1	05/20/14 12:19 PM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	374	10.0	20.0		mg/L @ pH 4.52	1	05/27/14 05:09 PM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.52	1	05/27/14 05:09 PM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.52	1	05/27/14 05:09 PM
Alkalinity, Total (As CaCO3)	374	20.0	20.0		mg/L @ pH 4.52	1	05/27/14 05:09 PM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	0.160	0.100	0.250	J	mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	<2.50	2.50	2.50		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 28-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405218

Client Sample ID: CRCP-5852314-110
Lab ID: 1405218-05
Collection Date: 05/19/14 10:18 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.671	0.671	1.92		mg/L	1	05/22/14 12:11 PM
T/R Hydrocarbons: >C12-C28	<0.671	0.671	1.92		mg/L	1	05/22/14 12:11 PM
T/R Hydrocarbons: >C28-C35	<0.671	0.671	1.92		mg/L	1	05/22/14 12:11 PM
T/R Hydrocarbons: C6-C35	<0.671	0.671	1.92		mg/L	1	05/22/14 12:11 PM
Surr: Isopropylbenzene	90.4	0	70-130		%REC	1	05/22/14 12:11 PM
Surr: Octacosane	75.6	0	70-130		%REC	1	05/22/14 12:11 PM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	77.6	5.00	15.0		mg/L	50	05/23/14 04:06 PM
Magnesium	23.0	0.100	0.300		mg/L	1	05/23/14 03:36 PM
Potassium	1.72	0.100	0.300		mg/L	1	05/23/14 03:36 PM
Sodium	56.2	5.00	15.0		mg/L	50	05/23/14 04:06 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	43.4	0.300	1.00		mg/L	1	05/20/14 12:34 PM
Fluoride	0.288	0.100	0.400	J	mg/L	1	05/20/14 12:34 PM
Nitrate-N	1.03	0.100	0.500		mg/L	1	05/20/14 12:34 PM
Sulfate	111	1.00	3.00		mg/L	1	05/20/14 12:34 PM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	231	10.0	20.0		mg/L @ pH 4.5	1	05/27/14 05:14 PM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.5	1	05/27/14 05:14 PM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.5	1	05/27/14 05:14 PM
Alkalinity, Total (As CaCO3)	231	20.0	20.0		mg/L @ pH 4.5	1	05/27/14 05:14 PM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	<0.100	0.100	0.250		mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	<2.50	2.50	2.50		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_140522B

The QC data in batch 63718 applies to the following samples: 1405218-01A, 1405218-02A, 1405218-03A, 1405218-04A, 1405218-05A

Sample ID MB-63718	Batch ID: 63718	TestNo: TX1005	Units: mg/L
SampType: MBLK	Run ID: GC12_140522B	Analysis Date: 5/22/2014 9:44:58 AM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	<0.700	2.00								
T/R Hydrocarbons: >C12-C28	<0.700	2.00								
T/R Hydrocarbons: >C28-C35	<0.700	2.00								
T/R Hydrocarbons: C6-C35	<0.700	2.00								
Surr: Isopropylbenzene	2.52		2.500		101	70	130			
Surr: Octacosane	2.22		2.500		88.8	70	130			

Sample ID LCS-63718	Batch ID: 63718	TestNo: TX1005	Units: mg/L
SampType: LCS	Run ID: GC12_140522B	Analysis Date: 5/22/2014 9:53:26 AM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	27.5	2.00	25.00	0	110	75	125			
Surr: Isopropylbenzene	2.59		2.500		104	70	130			
Surr: Octacosane	2.14		2.500		85.7	70	130			

Sample ID LCS-D-63718	Batch ID: 63718	TestNo: TX1005	Units: mg/L
SampType: LCS-D	Run ID: GC12_140522B	Analysis Date: 5/22/2014 10:01:53 AM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	26.8	2.00	25.00	0	107	75	125	2.65	20	
Surr: Isopropylbenzene	2.52		2.500		101	70	130	0	0	
Surr: Octacosane	2.14		2.500		85.5	70	130	0	0	

Sample ID 1405233-07AMS	Batch ID: 63718	TestNo: TX1005	Units: mg/L
SampType: MS	Run ID: GC12_140522B	Analysis Date: 5/22/2014 12:45:08 PM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	23.9	1.97	24.62	0	96.9	75	125			
Surr: Isopropylbenzene	2.23		2.462		90.5	70	130			
Surr: Octacosane	1.76		2.462		71.4	70	130			

Sample ID 1405233-07AMSD	Batch ID: 63718	TestNo: TX1005	Units: mg/L
SampType: MSD	Run ID: GC12_140522B	Analysis Date: 5/22/2014 12:53:35 PM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	23.8	1.95	24.34	0	97.8	75	125	0.279	20	
Surr: Isopropylbenzene	2.27		2.434		93.2	70	130	0	0	
Surr: Octacosane	1.92		2.434		78.9	70	130	0	0	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - J Analyte detected between MDL and RL
 - ND Not Detected at the Method Detection Limit
 - RL Reporting Limit
 - J Analyte detected between SDL and RL
 - DF Dilution Factor
 - MDL Method Detection Limit
 - R RPD outside accepted control limits
 - S Spike Recovery outside control limits
 - N Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_140522B

Sample ID ICV-140522	Batch ID: R73290	TestNo: TX1005	Units: mg/L
SampType: ICV	Run ID: GC12_140522B	Analysis Date: 5/22/2014 9:35:04 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	1190	2.00	1000	0	119	75	125			
Surr: Isopropylbenzene	56.4		50.00		113	70	130			
Surr: Octacosane	49.6		50.00		99.2	70	130			

Sample ID CCV1-140522	Batch ID: R73290	TestNo: TX1005	Units: mg/L
SampType: CCV	Run ID: GC12_140522B	Analysis Date: 5/22/2014 2:09:34 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	465	2.00	500.0	0	93.1	75	125			
Surr: Isopropylbenzene	22.3		25.00		89.2	70	130			
Surr: Octacosane	17.7		25.00		70.9	70	130			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_140523A

The QC data in batch 63705 applies to the following samples: 1405218-01B, 1405218-02B, 1405218-03B, 1405218-04B, 1405218-05B

Sample ID MB-63705	Batch ID: 63705	TestNo: SW6020A	Units: mg/L
SampType: MBLK	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 12:41:00 PM	Prep Date: 5/22/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	<0.100	0.300								
Magnesium	<0.100	0.300								
Potassium	<0.100	0.300								
Sodium	<0.100	0.300								

Sample ID LCS-63705	Batch ID: 63705	TestNo: SW6020A	Units: mg/L
SampType: LCS	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 1:05:00 PM	Prep Date: 5/22/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.81	0.300	5.00	0	96.2	80	120			
Magnesium	4.73	0.300	5.00	0	94.7	80	120			
Potassium	4.94	0.300	5.00	0	98.8	80	120			
Sodium	4.85	0.300	5.00	0	96.9	80	120			

Sample ID LCSD-63705	Batch ID: 63705	TestNo: SW6020A	Units: mg/L
SampType: LCSD	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 1:11:00 PM	Prep Date: 5/22/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.79	0.300	5.00	0	95.8	80	120	0.417	15	
Magnesium	4.75	0.300	5.00	0	95.1	80	120	0.422	15	
Potassium	4.96	0.300	5.00	0	99.2	80	120	0.404	15	
Sodium	4.85	0.300	5.00	0	96.9	80	120	0.020	15	

Sample ID 1405233-07B SD	Batch ID: 63705	TestNo: SW6020A	Units: mg/L
SampType: SD	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 1:29:00 PM	Prep Date: 5/22/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	238	15.0	0	241				1.42	10	
Magnesium	82.8	15.0	0	80.8				2.40	10	
Potassium	<5.00	15.0	0	2.44				0	10	
Sodium	57.2	15.0	0	56.3				1.66	10	

Sample ID 1405233-07B PDS	Batch ID: 63705	TestNo: SW6020A	Units: mg/L
SampType: PDS	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 2:23:00 PM	Prep Date: 5/22/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	320	3.00	50.0	241	158	80	120			S
Magnesium	149	3.00	50.0	80.8	136	80	120			S
Potassium	62.1	3.00	50.0	2.44	119	80	120			
Sodium	122	3.00	50.0	56.3	132	80	120			S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_140523A

Sample ID: 1405233-07B MS	Batch ID: 63705	TestNo: SW6020A	Units: mg/L							
SampType: MS	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 2:29:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	243	3.00	5.00	241	34.0	80	120			S
Magnesium	85.2	3.00	5.00	80.8	89.2	80	120			
Potassium	7.39	3.00	5.00	2.44	99.1	80	120			
Sodium	60.1	3.00	5.00	56.3	76.6	80	120			S

Sample ID: 1405233-07B MSD	Batch ID: 63705	TestNo: SW6020A	Units: mg/L							
SampType: MSD	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 2:36:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	242	3.00	5.00	241	30.0	80	120	0.082	15	S
Magnesium	87.2	3.00	5.00	80.8	127	80	120	2.20	15	S
Potassium	7.45	3.00	5.00	2.44	100	80	120	0.755	15	
Sodium	61.1	3.00	5.00	56.3	96.2	80	120	1.62	15	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_140523A

Sample ID: ILCVL-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 12:29:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.108	0.300	0.100	0	108	70	130			
Magnesium	0.106	0.300	0.100	0	106	70	130			
Potassium	0.112	0.300	0.100	0	112	70	130			
Sodium	0.130	0.300	0.100	0	130	70	130			

Sample ID: LCVL1-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 3:00:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.110	0.300	0.100	0	110	70	130			
Magnesium	0.105	0.300	0.100	0	105	70	130			
Potassium	0.105	0.300	0.100	0	105	70	130			
Sodium	0.0971	0.300	0.100	0	97.1	70	130			

Sample ID: LCVL2-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 4:30:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.102	0.300	0.100	0	102	70	130			
Magnesium	0.102	0.300	0.100	0	102	70	130			
Potassium	0.103	0.300	0.100	0	103	70	130			
Sodium	0.0889	0.300	0.100	0	88.9	70	130			

Sample ID: ICV1-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 12:16:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	2.55	0.300	2.50	0	102	90	110			
Magnesium	2.59	0.300	2.50	0	104	90	110			
Potassium	2.64	0.300	2.50	0	106	90	110			
Sodium	2.60	0.300	2.50	0	104	90	110			

Sample ID: CCV1-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 2:42:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.65	0.300	5.00	0	93.1	90	110			
Magnesium	4.63	0.300	5.00	0	92.6	90	110			
Potassium	4.79	0.300	5.00	0	95.8	90	110			
Sodium	4.67	0.300	5.00	0	93.5	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_140523A

Sample ID	Batch ID:	TestNo:	Units:	
CCV2-140523	R73340	SW6020A	mg/L	
SampType: CCV	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 4:12:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.60	0.300	5.00	0	91.9	90	110			
Magnesium	4.50	0.300	5.00	0	89.9	90	110			
Potassium	4.78	0.300	5.00	0	95.6	90	110			
Sodium	4.52	0.300	5.00	0	90.3	90	110			

Qualifiers:	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: IC_140520A

The QC data in batch 63693 applies to the following samples: 1405218-01D, 1405218-02D, 1405218-03D, 1405218-04D, 1405218-05D

Sample ID: MB-63693	Batch ID: 63693	TestNo: E300	Units: mg/L
SampType: MBLK	Run ID: IC_140520A	Analysis Date: 5/20/2014 10:50:34 AM	Prep Date: 5/20/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<0.300	1.00								
Fluoride	<0.100	0.400								
Nitrate-N	<0.100	0.500								
Sulfate	<1.00	3.00								

Sample ID: LCS-63693	Batch ID: 63693	TestNo: E300	Units: mg/L
SampType: LCS	Run ID: IC_140520A	Analysis Date: 5/20/2014 11:05:10 AM	Prep Date: 5/20/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.56	1.00	10.00	0	95.6	90	110			
Fluoride	3.92	0.400	4.000	0	97.9	90	110			
Nitrate-N	4.84	0.500	5.000	0	96.8	90	110			
Sulfate	30.7	3.00	30.00	0	102	90	110			

Sample ID: LCSD-63693	Batch ID: 63693	TestNo: E300	Units: mg/L
SampType: LCSD	Run ID: IC_140520A	Analysis Date: 5/20/2014 11:19:47 AM	Prep Date: 5/20/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.60	1.00	10.00	0	96.0	90	110	0.384	20	
Fluoride	3.93	0.400	4.000	0	98.2	90	110	0.261	20	
Nitrate-N	4.85	0.500	5.000	0	97.1	90	110	0.337	20	
Sulfate	30.7	3.00	30.00	0	102	90	110	0.033	20	

Sample ID: 1405218-03DMS	Batch ID: 63693	TestNo: E300	Units: mg/L
SampType: MS	Run ID: IC_140520A	Analysis Date: 5/20/2014 1:22:50 PM	Prep Date: 5/20/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	34.3	1.00	20.00	16.25	90.3	90	110			
Fluoride	20.4	0.400	20.00	0.1812	101	90	110			
Nitrate-N	18.4	0.500	4.516	14.97	76.1	90	110			S
Sulfate	42.5	3.00	20.00	23.12	97.0	90	110			

Sample ID: 1405218-03DMSD	Batch ID: 63693	TestNo: E300	Units: mg/L
SampType: MSD	Run ID: IC_140520A	Analysis Date: 5/20/2014 1:37:26 PM	Prep Date: 5/20/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	33.9	1.00	20.00	16.25	88.4	90	110	1.12	20	S
Fluoride	20.3	0.400	20.00	0.1812	100	90	110	0.686	20	
Nitrate-N	18.3	0.500	4.516	14.97	74.3	90	110	0.445	20	S
Sulfate	42.3	3.00	20.00	23.12	95.7	90	110	0.587	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: IC_140520A

Sample ID: ICV-140520	Batch ID: R73245	TestNo: E300	Units: mg/L							
SampType: ICV	Run ID: IC_140520A	Analysis Date: 5/20/2014 10:32:54 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24.8	1.00	25.00	0	99.3	90	110			
Fluoride	10.2	0.400	10.00	0	102	90	110			
Nitrate-N	12.4	0.500	12.50	0	99.0	90	110			
Sulfate	77.8	3.00	75.00	0	104	90	110			

Sample ID: CCV1-140520	Batch ID: R73245	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC_140520A	Analysis Date: 5/20/2014 1:52:02 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.57	1.00	10.00	0	95.7	90	110			
Fluoride	4.10	0.400	4.000	0	103	90	110			
Nitrate-N	4.82	0.500	5.000	0	96.4	90	110			
Sulfate	30.5	3.00	30.00	0	102	90	110			

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_140527B

The QC data in batch 63788 applies to the following samples: 1405218-01D, 1405218-02D, 1405218-03D, 1405218-04D, 1405218-05D

Sample ID MB-63788	Batch ID: 63788	TestNo: M2320 B	Units: mg/L @ pH 4.44
SampType: MBLK	Run ID: TITRATOR_140527B	Analysis Date: 5/27/2014 12:47:00 PM	Prep Date: 5/27/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	<10.0	20.0								
Alkalinity, Carbonate (As CaCO3)	<10.0	20.0								
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0								
Alkalinity, Total (As CaCO3)	<20.0	20.0								

Sample ID LCS-63788	Batch ID: 63788	TestNo: M2320 B	Units: mg/L @ pH 4.38
SampType: LCS	Run ID: TITRATOR_140527B	Analysis Date: 5/27/2014 12:51:00 PM	Prep Date: 5/27/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	53.8	20.0	50.00	0	108	74	129			

Sample ID 1405214-10D DUP	Batch ID: 63788	TestNo: M2320 B	Units: mg/L @ pH 4.52
SampType: DUP	Run ID: TITRATOR_140527B	Analysis Date: 5/27/2014 4:42:00 PM	Prep Date: 5/27/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	583	20.0	0	585.1				0.411	20	
Alkalinity, Carbonate (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	583	20.0	0	585.1				0.411	20	

Sample ID 1405229-01D DUP	Batch ID: 63788	TestNo: M2320 B	Units: mg/L @ pH 4.51
SampType: DUP	Run ID: TITRATOR_140527B	Analysis Date: 5/27/2014 5:27:00 PM	Prep Date: 5/27/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	286	20.0	0	289.7				1.29	20	
Alkalinity, Carbonate (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	286	20.0	0	289.7				1.29	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_140527B

Sample ID ICV-140527	Batch ID: R73364	TestNo: M2320 B	Units: mg/L @ pH 4.44							
SampType: ICV	Run ID: TITRATOR_140527B	Analysis Date: 5/27/2014 12:45:00 PM	Prep Date: 5/27/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	2.64	20.0	0							
Alkalinity, Carbonate (As CaCO3)	98.7	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	98	102			

Sample ID CCV1-140527	Batch ID: R73364	TestNo: M2320 B	Units: mg/L @ pH 4.39							
SampType: CCV	Run ID: TITRATOR_140527B	Analysis Date: 5/27/2014 4:31:00 PM	Prep Date: 5/27/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	21.7	20.0	0							
Alkalinity, Carbonate (As CaCO3)	79.7	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	90	110			

Sample ID CCV2-140527	Batch ID: R73364	TestNo: M2320 B	Units: mg/L @ pH 4.51							
SampType: CCV	Run ID: TITRATOR_140527B	Analysis Date: 5/27/2014 5:32:00 PM	Prep Date: 5/27/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	6.48	20.0	0							
Alkalinity, Carbonate (As CaCO3)	93.3	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0							
Alkalinity, Total (As CaCO3)	99.8	20.0	100.0	0	99.8	90	110			

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_140521A

The QC data in batch 63724 applies to the following samples: 1405218-01C, 1405218-02C, 1405218-03C, 1405218-04C, 1405218-05C

Sample ID MB-63724	Batch ID: 63724	TestNo: M4500-NH3 F	Units: mg/L							
SampType: MBLK	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Ammonia-N (As N) <0.100 0.250

Sample ID LCS-63724	Batch ID: 63724	TestNo: M4500-NH3 F	Units: mg/L							
SampType: LCS	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Ammonia-N (As N) 4.89 0.250 5.000 0 97.8 80 120

Sample ID 1405233-07C MS	Batch ID: 63724	TestNo: M4500-NH3 F	Units: mg/L							
SampType: MS	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Ammonia-N (As N) 4.98 0.250 5.000 0 99.6 80 120

Sample ID 1405233-07C MSD	Batch ID: 63724	TestNo: M4500-NH3 F	Units: mg/L							
SampType: MSD	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Ammonia-N (As N) 5.01 0.250 5.000 0 100 80 120 0.601 25

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_140521A

Sample ID ICV-140521	Batch ID: AMM-5/21/14	TestNo: M4500-NH3 F	Units: mg/L
SampType: ICV	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Ammonia-N (As N)	2.60	0.250	2.500	0	104	80	120			
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Sample ID CCV1-140521	Batch ID: AMM-5/21/14	TestNo: M4500-NH3 F	Units: mg/L
SampType: CCV	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Ammonia-N (As N)	4.92	0.250	5.000	0	98.4	80	120			
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Sample ID CCV2-140521	Batch ID: AMM-5/21/14	TestNo: M4500-NH3 F	Units: mg/L
SampType: CCV	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Ammonia-N (As N)	5.02	0.250	5.000	0	100	80	120			
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Qualifiers:	B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: URS Corporation
Work Order: 1405218
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_140522A

The QC data in batch 63743 applies to the following samples: 1405218-01E, 1405218-02E, 1405218-03E, 1405218-04E, 1405218-05E

Sample ID MB-63743	Batch ID: 63743	TestNo: M2540D	Units: mg/L							
SampType: MBLK	Run ID: WC_140522A	Analysis Date: 5/22/2014 6:00:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	<25.0	25.0								

Sample ID LCS-63743	Batch ID: 63743	TestNo: M2540D	Units: mg/L							
SampType: LCS	Run ID: WC_140522A	Analysis Date: 5/22/2014 6:00:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	100	25.0	100.0	0	100	85	115			

Sample ID 1405218-01E-DUP	Batch ID: 63743	TestNo: M2540D	Units: mg/L							
SampType: DUP	Run ID: WC_140522A	Analysis Date: 5/22/2014 6:00:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	<5.00	5.00	0	0				0	5	

Sample ID 1405233-07E-DUP	Batch ID: 63743	TestNo: M2540D	Units: mg/L							
SampType: DUP	Run ID: WC_140522A	Analysis Date: 5/22/2014 6:00:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	<2.50	2.50	0	0				0	5	

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor	
	J Analyte detected between MDL and RL	MDL Method Detection Limit	
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits	
	RL Reporting Limit	S Spike Recovery outside control limits	
	J Analyte detected between SDL and RL	N Parameter not NELAC certified	



May 29, 2014

Kevin Pasternick
URS Corporation
9400 Amberglen Bldg E
Austin, Texas 78729
TEL: (512) 454-4797
FAX (512) 454-8807
RE: CRCP

Order No.: 1405233

Dear Kevin Pasternick:

DHL Analytical, Inc. received 7 sample(s) on 5/20/2014 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in red ink, appearing to read "John DuPont", is written over a white background.

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-14-12



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Sample Receipt Checklist

Client Name URS Corporation

Date Received: 5/20/2014

Work Order Number 1405233

Received by BB

Checklist completed by: [Signature] 5/21/2014

Reviewed by: [Initials] 5/21/2014

Carrier name Hand Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No 1.3 °C
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH<2 acceptable upon receipt? Yes No NA LOT # 7179
- Adjusted? pp Checked by [Signature]
- Water - pH>9 (S) or pH>12 (CN) acceptable upon receipt? Yes No NA LOT #
- Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CLIENT: URS Corporation
Project: CRCP
Lab Order: 1405233

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method E300 - Anions Analysis
Method SW6020A - Metals Analysis
Method TX1005 - Total Petroleum Hydrocarbons
Method M2320 B - Alkalinity Analysis
Method M4500-NH3 F - Nitrogen Ammonia Analysis
Method M2540D - Total Suspended Solids

LOG IN

The samples were received and log-in performed on 5/20/2014. A total of 7 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

ANIONS ANALYSIS

For Anions Analysis, the recovery of Sulfate for the Matrix Spike and Matrix Spike Duplicate (1405233-07 MS/MSD) was slightly above the method control limits. Additionally, the recovery of Nitrate-N for the Matrix Spike (1405233-07 MS) was slightly above the method control limits. These are flagged accordingly in the QC Summary Report. These anions were within method control limits the associated LCS. No further corrective action was taken.

METALS ANALYSIS

For Metals Analysis, the recoveries of two analytes for the Matrix Spike and Matrix Spike Duplicate (1405233-07 MS/MSD) were outside of the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits the associated LCS. No further corrective action was taken.

For Metals Analysis, the recoveries of three analytes for the Post Digestion Spike (1405233-07 PDS) were above the method control limits. These are flagged accordingly in the QC Summary Report. These analytes were within method control limits the associated Serial Dilution. No further corrective action was taken.

CLIENT: URS Corporation
Project: CRCP
Lab Order: 1405233

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1405233-01	CRCP-WisianW1-110		05/20/14 03:57 PM	5/20/2014
1405233-02	CRCP-WisianW2-115		05/20/14 03:05 PM	5/20/2014
1405233-03	CRCP-WisianW2-110		05/20/14 02:45 PM	5/20/2014
1405233-04	CRCP-5852213-110		05/20/14 12:35 PM	5/20/2014
1405233-05	CRCP-ATF1-110		05/20/14 11:09 AM	5/20/2014
1405233-06	CRCP-ATF1-111		05/20/14 11:09 AM	5/20/2014
1405233-07	CRCP-NTNW2-113		05/20/14 10:15 AM	5/20/2014

Lab Order: 1405233
 Client: URS Corporation
 Project: CRCP

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1405233-01A	CRCP-WisianW1-110	05/20/14 03:57 PM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405233-01B	CRCP-WisianW1-110	05/20/14 03:57 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-WisianW1-110	05/20/14 03:57 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405233-01C	CRCP-WisianW1-110	05/20/14 03:57 PM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405233-01D	CRCP-WisianW1-110	05/20/14 03:57 PM	Aqueous	M2320 B	Alkalinity Preparation	05/28/14 09:29 AM	63821
	CRCP-WisianW1-110	05/20/14 03:57 PM	Aqueous	E300	Anion Preparation	05/21/14 09:59 AM	63712
1405233-01E	CRCP-WisianW1-110	05/20/14 03:57 PM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743
1405233-02A	CRCP-WisianW2-115	05/20/14 03:05 PM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405233-02B	CRCP-WisianW2-115	05/20/14 03:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-WisianW2-115	05/20/14 03:05 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405233-02C	CRCP-WisianW2-115	05/20/14 03:05 PM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405233-02D	CRCP-WisianW2-115	05/20/14 03:05 PM	Aqueous	M2320 B	Alkalinity Preparation	05/28/14 09:29 AM	63821
	CRCP-WisianW2-115	05/20/14 03:05 PM	Aqueous	E300	Anion Preparation	05/21/14 09:59 AM	63712
1405233-02E	CRCP-WisianW2-115	05/20/14 03:05 PM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743
1405233-03A	CRCP-WisianW2-110	05/20/14 02:45 PM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405233-03B	CRCP-WisianW2-110	05/20/14 02:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-WisianW2-110	05/20/14 02:45 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405233-03C	CRCP-WisianW2-110	05/20/14 02:45 PM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405233-03D	CRCP-WisianW2-110	05/20/14 02:45 PM	Aqueous	M2320 B	Alkalinity Preparation	05/28/14 09:29 AM	63821
	CRCP-WisianW2-110	05/20/14 02:45 PM	Aqueous	E300	Anion Preparation	05/21/14 09:59 AM	63712
1405233-03E	CRCP-WisianW2-110	05/20/14 02:45 PM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743
1405233-04A	CRCP-5852213-110	05/20/14 12:35 PM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405233-04B	CRCP-5852213-110	05/20/14 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-5852213-110	05/20/14 12:35 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405233-04C	CRCP-5852213-110	05/20/14 12:35 PM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405233-04D	CRCP-5852213-110	05/20/14 12:35 PM	Aqueous	M2320 B	Alkalinity Preparation	05/28/14 09:29 AM	63821
	CRCP-5852213-110	05/20/14 12:35 PM	Aqueous	E300	Anion Preparation	05/21/14 09:59 AM	63712
1405233-04E	CRCP-5852213-110	05/20/14 12:35 PM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743

Lab Order: 1405233
 Client: URS Corporation
 Project: CRCP

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1405233-05A	CRCP-ATF1-110	05/20/14 11:09 AM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405233-05B	CRCP-ATF1-110	05/20/14 11:09 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-ATF1-110	05/20/14 11:09 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405233-05C	CRCP-ATF1-110	05/20/14 11:09 AM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405233-05D	CRCP-ATF1-110	05/20/14 11:09 AM	Aqueous	M2320 B	Alkalinity Preparation	05/28/14 09:29 AM	63821
	CRCP-ATF1-110	05/20/14 11:09 AM	Aqueous	E300	Anion Preparation	05/21/14 09:59 AM	63712
	CRCP-ATF1-110	05/20/14 11:09 AM	Aqueous	E300	Anion Preparation	05/21/14 09:59 AM	63712
1405233-05E	CRCP-ATF1-110	05/20/14 11:09 AM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743
1405233-06A	CRCP-ATF1-111	05/20/14 11:09 AM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405233-06B	CRCP-ATF1-111	05/20/14 11:09 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-ATF1-111	05/20/14 11:09 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405233-06C	CRCP-ATF1-111	05/20/14 11:09 AM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405233-06D	CRCP-ATF1-111	05/20/14 11:09 AM	Aqueous	M2320 B	Alkalinity Preparation	05/28/14 09:29 AM	63821
	CRCP-ATF1-111	05/20/14 11:09 AM	Aqueous	E300	Anion Preparation	05/21/14 09:59 AM	63712
	CRCP-ATF1-111	05/20/14 11:09 AM	Aqueous	E300	Anion Preparation	05/21/14 09:59 AM	63712
1405233-06E	CRCP-ATF1-111	05/20/14 11:09 AM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743
1405233-07A	CRCP-NTNW2-113	05/20/14 10:15 AM	Aqueous	TX1005	TX1005 Water Prep	05/21/14 02:38 PM	63718
1405233-07B	CRCP-NTNW2-113	05/20/14 10:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
	CRCP-NTNW2-113	05/20/14 10:15 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	05/22/14 08:00 AM	63705
1405233-07C	CRCP-NTNW2-113	05/20/14 10:15 AM	Aqueous	M4500-NH3 F	Ammonia Preparation	05/21/14 01:30 PM	63724
1405233-07D	CRCP-NTNW2-113	05/20/14 10:15 AM	Aqueous	M2320 B	Alkalinity Preparation	05/28/14 09:29 AM	63821
	CRCP-NTNW2-113	05/20/14 10:15 AM	Aqueous	E300	Anion Preparation	05/21/14 09:59 AM	63712
	CRCP-NTNW2-113	05/20/14 10:15 AM	Aqueous	E300	Anion Preparation	05/21/14 09:59 AM	63712
1405233-07E	CRCP-NTNW2-113	05/20/14 10:15 AM	Aqueous	M2540D	TSS Preparation	05/22/14 11:26 AM	63743

Lab Order: 1405233
 Client: URS Corporation
 Project: CRCP

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1405233-01A	CRCP-WisianW1-110	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 10:55 AM	GC12_140522B
1405233-01B	CRCP-WisianW1-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	50	05/23/14 01:35 PM	ICP-MS3_140523A
	CRCP-WisianW1-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/23/14 04:42 PM	ICP-MS3_140523A
1405233-01C	CRCP-WisianW1-110	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405233-01D	CRCP-WisianW1-110	Aqueous	M2320 B	Alkalinity	63821	1	05/28/14 11:26 AM	TITRATOR_140528B
	CRCP-WisianW1-110	Aqueous	E300	Anions by IC method - Water	63712	1	05/21/14 11:51 AM	IC_140521A
1405233-01E	CRCP-WisianW1-110	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A
1405233-02A	CRCP-WisianW2-115	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 12:19 PM	GC12_140522B
1405233-02B	CRCP-WisianW2-115	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	50	05/23/14 01:41 PM	ICP-MS3_140523A
	CRCP-WisianW2-115	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/23/14 04:48 PM	ICP-MS3_140523A
1405233-02C	CRCP-WisianW2-115	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405233-02D	CRCP-WisianW2-115	Aqueous	M2320 B	Alkalinity	63821	1	05/28/14 11:27 AM	TITRATOR_140528B
	CRCP-WisianW2-115	Aqueous	E300	Anions by IC method - Water	63712	1	05/21/14 12:06 PM	IC_140521A
1405233-02E	CRCP-WisianW2-115	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A
1405233-03A	CRCP-WisianW2-110	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 11:12 AM	GC12_140522B
1405233-03B	CRCP-WisianW2-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	50	05/23/14 01:47 PM	ICP-MS3_140523A
	CRCP-WisianW2-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/23/14 04:54 PM	ICP-MS3_140523A
1405233-03C	CRCP-WisianW2-110	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405233-03D	CRCP-WisianW2-110	Aqueous	M2320 B	Alkalinity	63821	1	05/28/14 11:35 AM	TITRATOR_140528B
	CRCP-WisianW2-110	Aqueous	E300	Anions by IC method - Water	63712	1	05/21/14 12:20 PM	IC_140521A
1405233-03E	CRCP-WisianW2-110	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A
1405233-04A	CRCP-5852213-110	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 11:20 AM	GC12_140522B
1405233-04B	CRCP-5852213-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	50	05/23/14 01:53 PM	ICP-MS3_140523A
	CRCP-5852213-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/23/14 05:00 PM	ICP-MS3_140523A
1405233-04C	CRCP-5852213-110	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405233-04D	CRCP-5852213-110	Aqueous	M2320 B	Alkalinity	63821	1	05/28/14 11:45 AM	TITRATOR_140528B
	CRCP-5852213-110	Aqueous	E300	Anions by IC method - Water	63712	1	05/21/14 12:35 PM	IC_140521A
1405233-04E	CRCP-5852213-110	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A

Lab Order: 1405233
 Client: URS Corporation
 Project: CRCP

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1405233-05A	CRCP-ATF1-110	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 11:28 AM	GC12_140522B
1405233-05B	CRCP-ATF1-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	50	05/23/14 01:59 PM	ICP-MS3_140523A
	CRCP-ATF1-110	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/23/14 05:06 PM	ICP-MS3_140523A
1405233-05C	CRCP-ATF1-110	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405233-05D	CRCP-ATF1-110	Aqueous	M2320 B	Alkalinity	63821	1	05/28/14 11:54 AM	TITRATOR_140528B
	CRCP-ATF1-110	Aqueous	E300	Anions by IC method - Water	63712	1	05/21/14 12:50 PM	IC_140521A
	CRCP-ATF1-110	Aqueous	E300	Anions by IC method - Water	63712	10	05/21/14 02:23 PM	IC_140521A
1405233-05E	CRCP-ATF1-110	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A
1405233-06A	CRCP-ATF1-111	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 12:28 PM	GC12_140522B
1405233-06B	CRCP-ATF1-111	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/23/14 05:13 PM	ICP-MS3_140523A
	CRCP-ATF1-111	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	50	05/23/14 02:05 PM	ICP-MS3_140523A
1405233-06C	CRCP-ATF1-111	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405233-06D	CRCP-ATF1-111	Aqueous	M2320 B	Alkalinity	63821	1	05/28/14 12:03 PM	TITRATOR_140528B
	CRCP-ATF1-111	Aqueous	E300	Anions by IC method - Water	63712	1	05/21/14 01:04 PM	IC_140521A
	CRCP-ATF1-111	Aqueous	E300	Anions by IC method - Water	63712	10	05/21/14 02:38 PM	IC_140521A
1405233-06E	CRCP-ATF1-111	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A
1405233-07A	CRCP-NTNW2-113	Aqueous	TX1005	Tx1005 TPH Water	63718	1	05/22/14 12:36 PM	GC12_140522B
1405233-07B	CRCP-NTNW2-113	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	10	05/23/14 01:23 PM	ICP-MS3_140523A
	CRCP-NTNW2-113	Aqueous	SW6020A	Trace Metals: ICP-MS - Water	63705	1	05/22/14 03:36 PM	ICP-MS4_140522C
1405233-07C	CRCP-NTNW2-113	Aqueous	M4500-NH3 F	Ammonia aqueous	63724	1	05/21/14 02:00 PM	WC_140521A
1405233-07D	CRCP-NTNW2-113	Aqueous	M2320 B	Alkalinity	63821	1	05/28/14 12:10 PM	TITRATOR_140528B
	CRCP-NTNW2-113	Aqueous	E300	Anions by IC method - Water	63712	1	05/21/14 01:19 PM	IC_140521A
	CRCP-NTNW2-113	Aqueous	E300	Anions by IC method - Water	63712	10	05/21/14 02:52 PM	IC_140521A
1405233-07E	CRCP-NTNW2-113	Aqueous	M2540D	Total Suspended Solids	63743	1	05/22/14 06:00 PM	WC_140522A

DHL Analytical, Inc.

Date: 29-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405233

Client Sample ID: CRCP-WisianW1-110
Lab ID: 1405233-01
Collection Date: 05/20/14 03:57 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.665	0.665	1.90		mg/L	1	05/22/14 10:55 AM
T/R Hydrocarbons: >C12-C28	0.703	0.665	1.90	J	mg/L	1	05/22/14 10:55 AM
T/R Hydrocarbons: >C28-C35	<0.665	0.665	1.90		mg/L	1	05/22/14 10:55 AM
T/R Hydrocarbons: C6-C35	0.703	0.665	1.90	J	mg/L	1	05/22/14 10:55 AM
Surr: Isopropylbenzene	98.9	0	70-130		%REC	1	05/22/14 10:55 AM
Surr: Octacosane	90.4	0	70-130		%REC	1	05/22/14 10:55 AM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	87.5	5.00	15.0		mg/L	50	05/23/14 01:35 PM
Magnesium	11.2	0.100	0.300		mg/L	1	05/23/14 04:42 PM
Potassium	2.88	0.100	0.300		mg/L	1	05/23/14 04:42 PM
Sodium	66.2	5.00	15.0		mg/L	50	05/23/14 01:35 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	21.5	0.300	1.00		mg/L	1	05/21/14 11:51 AM
Fluoride	0.191	0.100	0.400	J	mg/L	1	05/21/14 11:51 AM
Nitrate-N	9.15	0.100	0.500		mg/L	1	05/21/14 11:51 AM
Sulfate	30.6	1.00	3.00		mg/L	1	05/21/14 11:51 AM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	348	10.0	20.0		mg/L @ pH 4.49	1	05/28/14 11:26 AM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.49	1	05/28/14 11:26 AM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.49	1	05/28/14 11:26 AM
Alkalinity, Total (As CaCO3)	348	20.0	20.0		mg/L @ pH 4.49	1	05/28/14 11:26 AM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	<0.100	0.100	0.250		mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	<2.50	2.50	2.50		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 29-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405233

Client Sample ID: CRCP-WisianW2-115
Lab ID: 1405233-02
Collection Date: 05/20/14 03:05 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.695	0.695	1.99		mg/L	1	05/22/14 12:19 PM
T/R Hydrocarbons: >C12-C28	<0.695	0.695	1.99		mg/L	1	05/22/14 12:19 PM
T/R Hydrocarbons: >C28-C35	<0.695	0.695	1.99		mg/L	1	05/22/14 12:19 PM
T/R Hydrocarbons: C6-C35	<0.695	0.695	1.99		mg/L	1	05/22/14 12:19 PM
Surr: Isopropylbenzene	89.3	0	70-130		%REC	1	05/22/14 12:19 PM
Surr: Octacosane	75.9	0	70-130		%REC	1	05/22/14 12:19 PM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	18.3	0.100	0.300		mg/L	1	05/23/14 04:48 PM
Magnesium	0.516	0.100	0.300		mg/L	1	05/23/14 04:48 PM
Potassium	0.101	0.100	0.300	J	mg/L	1	05/23/14 04:48 PM
Sodium	0.160	0.100	0.300	J	mg/L	1	05/23/14 04:48 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	<0.300	0.300	1.00		mg/L	1	05/21/14 12:06 PM
Fluoride	<0.100	0.100	0.400		mg/L	1	05/21/14 12:06 PM
Nitrate-N	<0.100	0.100	0.500		mg/L	1	05/21/14 12:06 PM
Sulfate	<1.00	1.00	3.00		mg/L	1	05/21/14 12:06 PM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.11	1	05/28/14 11:27 AM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.11	1	05/28/14 11:27 AM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.11	1	05/28/14 11:27 AM
Alkalinity, Total (As CaCO3)	<20.0	20.0	20.0		mg/L @ pH 4.11	1	05/28/14 11:27 AM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	<0.100	0.100	0.250		mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	3.90	2.50	2.50		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 29-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405233

Client Sample ID: CRCP-WisianW2-110
Lab ID: 1405233-03
Collection Date: 05/20/14 02:45 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.692	0.692	1.98		mg/L	1	05/22/14 11:12 AM
T/R Hydrocarbons: >C12-C28	<0.692	0.692	1.98		mg/L	1	05/22/14 11:12 AM
T/R Hydrocarbons: >C28-C35	<0.692	0.692	1.98		mg/L	1	05/22/14 11:12 AM
T/R Hydrocarbons: C6-C35	<0.692	0.692	1.98		mg/L	1	05/22/14 11:12 AM
Surr: Isopropylbenzene	97.2	0	70-130		%REC	1	05/22/14 11:12 AM
Surr: Octacosane	76.7	0	70-130		%REC	1	05/22/14 11:12 AM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	91.4	5.00	15.0		mg/L	50	05/23/14 01:47 PM
Magnesium	12.5	0.100	0.300		mg/L	1	05/23/14 04:54 PM
Potassium	2.80	0.100	0.300		mg/L	1	05/23/14 04:54 PM
Sodium	114	5.00	15.0		mg/L	50	05/23/14 01:47 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	22.0	0.300	1.00		mg/L	1	05/21/14 12:20 PM
Fluoride	<0.100	0.100	0.400		mg/L	1	05/21/14 12:20 PM
Nitrate-N	9.27	0.100	0.500		mg/L	1	05/21/14 12:20 PM
Sulfate	36.6	1.00	3.00		mg/L	1	05/21/14 12:20 PM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	431	10.0	20.0		mg/L @ pH 4.51	1	05/28/14 11:35 AM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.51	1	05/28/14 11:35 AM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.51	1	05/28/14 11:35 AM
Alkalinity, Total (As CaCO3)	431	20.0	20.0		mg/L @ pH 4.51	1	05/28/14 11:35 AM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	0.946	0.100	0.250		mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	9.20	2.50	2.50		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 29-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405233

Client Sample ID: CRCP-5852213-110
Lab ID: 1405233-04
Collection Date: 05/20/14 12:35 PM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.693	0.693	1.98		mg/L	1	05/22/14 11:20 AM
T/R Hydrocarbons: >C12-C28	<0.693	0.693	1.98		mg/L	1	05/22/14 11:20 AM
T/R Hydrocarbons: >C28-C35	<0.693	0.693	1.98		mg/L	1	05/22/14 11:20 AM
T/R Hydrocarbons: C6-C35	<0.693	0.693	1.98		mg/L	1	05/22/14 11:20 AM
Surr: Isopropylbenzene	96.5	0	70-130		%REC	1	05/22/14 11:20 AM
Surr: Octacosane	83.4	0	70-130		%REC	1	05/22/14 11:20 AM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	145	5.00	15.0		mg/L	50	05/23/14 01:53 PM
Magnesium	36.0	5.00	15.0		mg/L	50	05/23/14 01:53 PM
Potassium	5.29	0.100	0.300		mg/L	1	05/23/14 05:00 PM
Sodium	33.0	5.00	15.0		mg/L	50	05/23/14 01:53 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	17.6	0.300	1.00		mg/L	1	05/21/14 12:35 PM
Fluoride	0.334	0.100	0.400	J	mg/L	1	05/21/14 12:35 PM
Nitrate-N	<0.100	0.100	0.500		mg/L	1	05/21/14 12:35 PM
Sulfate	4.08	1.00	3.00		mg/L	1	05/21/14 12:35 PM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	569	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 11:45 AM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 11:45 AM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 11:45 AM
Alkalinity, Total (As CaCO3)	569	20.0	20.0		mg/L @ pH 4.52	1	05/28/14 11:45 AM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	1.04	0.100	0.250		mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	10.1	2.50	2.50		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 29-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405233

Client Sample ID: CRCP-ATF1-110
Lab ID: 1405233-05
Collection Date: 05/20/14 11:09 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.689	0.689	1.97		mg/L	1	05/22/14 11:28 AM
T/R Hydrocarbons: >C12-C28	<0.689	0.689	1.97		mg/L	1	05/22/14 11:28 AM
T/R Hydrocarbons: >C28-C35	<0.689	0.689	1.97		mg/L	1	05/22/14 11:28 AM
T/R Hydrocarbons: C6-C35	<0.689	0.689	1.97		mg/L	1	05/22/14 11:28 AM
Surr: Isopropylbenzene	97.0	0	70-130		%REC	1	05/22/14 11:28 AM
Surr: Octacosane	79.0	0	70-130		%REC	1	05/22/14 11:28 AM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	184	5.00	15.0		mg/L	50	05/23/14 01:59 PM
Magnesium	40.6	5.00	15.0		mg/L	50	05/23/14 01:59 PM
Potassium	4.02	0.100	0.300		mg/L	1	05/23/14 05:06 PM
Sodium	47.0	5.00	15.0		mg/L	50	05/23/14 01:59 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	72.0	3.00	10.0		mg/L	10	05/21/14 02:23 PM
Fluoride	0.126	0.100	0.400	J	mg/L	1	05/21/14 12:50 PM
Nitrate-N	10.3	0.100	0.500		mg/L	1	05/21/14 12:50 PM
Sulfate	163	10.0	30.0		mg/L	10	05/21/14 02:23 PM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	480	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 11:54 AM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 11:54 AM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 11:54 AM
Alkalinity, Total (As CaCO3)	480	20.0	20.0		mg/L @ pH 4.52	1	05/28/14 11:54 AM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	0.772	0.100	0.250		mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	<2.50	2.50	2.50		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 29-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405233

Client Sample ID: CRCP-ATF1-111
Lab ID: 1405233-06
Collection Date: 05/20/14 11:09 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.679	0.679	1.94		mg/L	1	05/22/14 12:28 PM
T/R Hydrocarbons: >C12-C28	<0.679	0.679	1.94		mg/L	1	05/22/14 12:28 PM
T/R Hydrocarbons: >C28-C35	<0.679	0.679	1.94		mg/L	1	05/22/14 12:28 PM
T/R Hydrocarbons: C6-C35	<0.679	0.679	1.94		mg/L	1	05/22/14 12:28 PM
Surr: Isopropylbenzene	87.8	0	70-130		%REC	1	05/22/14 12:28 PM
Surr: Octacosane	70.5	0	70-130		%REC	1	05/22/14 12:28 PM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	187	5.00	15.0		mg/L	50	05/23/14 02:05 PM
Magnesium	41.6	5.00	15.0		mg/L	50	05/23/14 02:05 PM
Potassium	3.98	0.100	0.300		mg/L	1	05/23/14 05:13 PM
Sodium	48.1	5.00	15.0		mg/L	50	05/23/14 02:05 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	71.4	3.00	10.0		mg/L	10	05/21/14 02:38 PM
Fluoride	0.110	0.100	0.400	J	mg/L	1	05/21/14 01:04 PM
Nitrate-N	11.2	0.100	0.500		mg/L	1	05/21/14 01:04 PM
Sulfate	162	10.0	30.0		mg/L	10	05/21/14 02:38 PM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	472	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 12:03 PM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 12:03 PM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 12:03 PM
Alkalinity, Total (As CaCO3)	472	20.0	20.0		mg/L @ pH 4.52	1	05/28/14 12:03 PM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	<0.100	0.100	0.250		mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	<2.50	2.50	2.50		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

DHL Analytical, Inc.

Date: 29-May-14

CLIENT: URS Corporation
Project: CRCP
Project No: 41010113.102
Lab Order: 1405233

Client Sample ID: CRCP-NTNW2-113
Lab ID: 1405233-07
Collection Date: 05/20/14 10:15 AM
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH WATER		TX1005		Analyst: AV			
T/R Hydrocarbons: C6-C12	<0.678	0.678	1.94		mg/L	1	05/22/14 12:36 PM
T/R Hydrocarbons: >C12-C28	<0.678	0.678	1.94		mg/L	1	05/22/14 12:36 PM
T/R Hydrocarbons: >C28-C35	<0.678	0.678	1.94		mg/L	1	05/22/14 12:36 PM
T/R Hydrocarbons: C6-C35	<0.678	0.678	1.94		mg/L	1	05/22/14 12:36 PM
Surr: Isopropylbenzene	88.3	0	70-130		%REC	1	05/22/14 12:36 PM
Surr: Octacosane	77.9	0	70-130		%REC	1	05/22/14 12:36 PM
TRACE METALS: ICP-MS - WATER		SW6020A		Analyst: SW			
Calcium	241	1.00	3.00		mg/L	10	05/23/14 01:23 PM
Magnesium	80.8	1.00	3.00		mg/L	10	05/23/14 01:23 PM
Potassium	2.44	1.00	3.00	J	mg/L	10	05/23/14 01:23 PM
Sodium	56.3	1.00	3.00		mg/L	10	05/23/14 01:23 PM
ANIONS BY IC METHOD - WATER		E300		Analyst: AV			
Chloride	54.3	3.00	10.0		mg/L	10	05/21/14 02:52 PM
Fluoride	0.147	0.100	0.400	J	mg/L	1	05/21/14 01:19 PM
Nitrate-N	30.7	1.00	5.00		mg/L	10	05/21/14 02:52 PM
Sulfate	526	10.0	30.0		mg/L	10	05/21/14 02:52 PM
ALKALINITY		M2320 B		Analyst: LM			
Alkalinity, Bicarbonate (As CaCO3)	371	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 12:10 PM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 12:10 PM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.52	1	05/28/14 12:10 PM
Alkalinity, Total (As CaCO3)	371	20.0	20.0		mg/L @ pH 4.52	1	05/28/14 12:10 PM
AMMONIA AQUEOUS		M4500-NH3 F		Analyst: SM			
Ammonia-N (As N)	<0.100	0.100	0.250		mg/L	1	05/21/14 02:00 PM
TOTAL SUSPENDED SOLIDS		M2540D		Analyst: MK			
Suspended Solids (Residue, Non-Filterable)	<2.50	2.50	2.50		mg/L	1	05/22/14 06:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative	DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern	J	Analyte detected between MDL and RL
MDL	Method Detection Limit	ND	Not Detected at the Method Detection Limit
RL	Reporting Limit	S	Spike Recovery outside control limits
N	Parameter not NELAC certified		

CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_140522B

The QC data in batch 63718 applies to the following samples: 1405233-01A, 1405233-02A, 1405233-03A, 1405233-04A, 1405233-05A, 1405233-06A, 1405233-07A

Sample ID MB-63718	Batch ID: 63718	TestNo: TX1005	Units: mg/L
SampType: MBLK	Run ID: GC12_140522B	Analysis Date: 5/22/2014 9:44:58 AM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	<0.700	2.00								
T/R Hydrocarbons: >C12-C28	<0.700	2.00								
T/R Hydrocarbons: >C28-C35	<0.700	2.00								
T/R Hydrocarbons: C6-C35	<0.700	2.00								
Surr: Isopropylbenzene	2.52		2.500		101	70	130			
Surr: Octacosane	2.22		2.500		88.8	70	130			

Sample ID LCS-63718	Batch ID: 63718	TestNo: TX1005	Units: mg/L
SampType: LCS	Run ID: GC12_140522B	Analysis Date: 5/22/2014 9:53:26 AM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	27.5	2.00	25.00	0	110	75	125			
Surr: Isopropylbenzene	2.59		2.500		104	70	130			
Surr: Octacosane	2.14		2.500		85.7	70	130			

Sample ID LCS-63718	Batch ID: 63718	TestNo: TX1005	Units: mg/L
SampType: LCS	Run ID: GC12_140522B	Analysis Date: 5/22/2014 10:01:53 AM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	26.8	2.00	25.00	0	107	75	125	2.65	20	
Surr: Isopropylbenzene	2.52		2.500		101	70	130	0	0	
Surr: Octacosane	2.14		2.500		85.5	70	130	0	0	

Sample ID 1405233-07AMS	Batch ID: 63718	TestNo: TX1005	Units: mg/L
SampType: MS	Run ID: GC12_140522B	Analysis Date: 5/22/2014 12:45:08 PM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	23.9	1.97	24.62	0	96.9	75	125			
Surr: Isopropylbenzene	2.23		2.462		90.5	70	130			
Surr: Octacosane	1.76		2.462		71.4	70	130			

Sample ID 1405233-07AMSD	Batch ID: 63718	TestNo: TX1005	Units: mg/L
SampType: MSD	Run ID: GC12_140522B	Analysis Date: 5/22/2014 12:53:35 PM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	23.8	1.95	24.34	0	97.8	75	125	0.279	20	
Surr: Isopropylbenzene	2.27		2.434		93.2	70	130	0	0	
Surr: Octacosane	1.92		2.434		78.9	70	130	0	0	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_140522B

Sample ID ICV-140522	Batch ID: R73290	TestNo: TX1005	Units: mg/L
SampType: ICV	Run ID: GC12_140522B	Analysis Date: 5/22/2014 9:35:04 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	1190	2.00	1000	0	119	75	125			
Surr: Isopropylbenzene	56.4		50.00		113	70	130			
Surr: Octacosane	49.6		50.00		99.2	70	130			

Sample ID CCV1-140522	Batch ID: R73290	TestNo: TX1005	Units: mg/L
SampType: CCV	Run ID: GC12_140522B	Analysis Date: 5/22/2014 2:09:34 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	465	2.00	500.0	0	93.1	75	125			
Surr: Isopropylbenzene	22.3		25.00		89.2	70	130			
Surr: Octacosane	17.7		25.00		70.9	70	130			

Qualifiers:	B Analyte detected in the associated Method Blank	DF Dilution Factor
	J Analyte detected between MDL and RL	MDL Method Detection Limit
	ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
	RL Reporting Limit	S Spike Recovery outside control limits
	J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_140523A

The QC data in batch 63705 applies to the following samples: 1405233-01B, 1405233-02B, 1405233-03B, 1405233-04B, 1405233-05B, 1405233-06B, 1405233-07B

Sample ID MB-63705	Batch ID: 63705	TestNo: SW6020A	Units: mg/L
SampType: MBLK	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 12:41:00 PM	Prep Date: 5/22/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	<0.100	0.300								
Magnesium	<0.100	0.300								
Potassium	<0.100	0.300								
Sodium	<0.100	0.300								

Sample ID LCS-63705	Batch ID: 63705	TestNo: SW6020A	Units: mg/L
SampType: LCS	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 1:05:00 PM	Prep Date: 5/22/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.81	0.300	5.00	0	96.2	80	120			
Magnesium	4.73	0.300	5.00	0	94.7	80	120			
Potassium	4.94	0.300	5.00	0	98.8	80	120			
Sodium	4.85	0.300	5.00	0	96.9	80	120			

Sample ID LCSD-63705	Batch ID: 63705	TestNo: SW6020A	Units: mg/L
SampType: LCSD	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 1:11:00 PM	Prep Date: 5/22/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.79	0.300	5.00	0	95.8	80	120	0.417	15	
Magnesium	4.75	0.300	5.00	0	95.1	80	120	0.422	15	
Potassium	4.96	0.300	5.00	0	99.2	80	120	0.404	15	
Sodium	4.85	0.300	5.00	0	96.9	80	120	0.020	15	

Sample ID 1405233-07B SD	Batch ID: 63705	TestNo: SW6020A	Units: mg/L
SampType: SD	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 1:29:00 PM	Prep Date: 5/22/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	238	15.0	0	241				1.42	10	
Magnesium	82.8	15.0	0	80.8				2.40	10	
Potassium	<5.00	15.0	0	2.44				0	10	
Sodium	57.2	15.0	0	56.3				1.66	10	

Sample ID 1405233-07B PDS	Batch ID: 63705	TestNo: SW6020A	Units: mg/L
SampType: PDS	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 2:23:00 PM	Prep Date: 5/22/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	320	3.00	50.0	241	158	80	120			S
Magnesium	149	3.00	50.0	80.8	136	80	120			S
Potassium	62.1	3.00	50.0	2.44	119	80	120			

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_140523A

Sample ID 1405233-07B PDS	Batch ID: 63705	TestNo: SW6020A	Units: mg/L							
SampType: PDS	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 2:23:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	122	3.00	50.0	56.3	132	80	120			S

Sample ID 1405233-07B MS	Batch ID: 63705	TestNo: SW6020A	Units: mg/L							
SampType: MS	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 2:29:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	243	3.00	5.00	241	34.0	80	120			S
Magnesium	85.2	3.00	5.00	80.8	89.2	80	120			
Potassium	7.39	3.00	5.00	2.44	99.1	80	120			
Sodium	60.1	3.00	5.00	56.3	76.6	80	120			S

Sample ID 1405233-07B MSD	Batch ID: 63705	TestNo: SW6020A	Units: mg/L							
SampType: MSD	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 2:36:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	242	3.00	5.00	241	30.0	80	120	0.082	15	S
Magnesium	87.2	3.00	5.00	80.8	127	80	120	2.20	15	S
Potassium	7.45	3.00	5.00	2.44	100	80	120	0.755	15	
Sodium	61.1	3.00	5.00	56.3	96.2	80	120	1.62	15	

Qualifiers: B Analyte detected in the associated Method Blank DF Dilution Factor
 J Analyte detected between MDL and RL MDL Method Detection Limit
 ND Not Detected at the Method Detection Limit R RPD outside accepted control limits
 RL Reporting Limit S Spike Recovery outside control limits
 J Analyte detected between SDL and RL N Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_140523A

Sample ID: ILCVL-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 12:29:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.108	0.300	0.100	0	108	70	130			
Magnesium	0.106	0.300	0.100	0	106	70	130			
Potassium	0.112	0.300	0.100	0	112	70	130			
Sodium	0.130	0.300	0.100	0	130	70	130			

Sample ID: LCVL1-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 3:00:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.110	0.300	0.100	0	110	70	130			
Magnesium	0.105	0.300	0.100	0	105	70	130			
Potassium	0.105	0.300	0.100	0	105	70	130			
Sodium	0.0971	0.300	0.100	0	97.1	70	130			

Sample ID: LCVL2-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 4:30:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.102	0.300	0.100	0	102	70	130			
Magnesium	0.102	0.300	0.100	0	102	70	130			
Potassium	0.103	0.300	0.100	0	103	70	130			
Sodium	0.0889	0.300	0.100	0	88.9	70	130			

Sample ID: LCVL3-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: LCVL	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 5:55:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	0.108	0.300	0.100	0	108	70	130			
Magnesium	0.104	0.300	0.100	0	104	70	130			
Potassium	0.0978	0.300	0.100	0	97.8	70	130			
Sodium	0.0852	0.300	0.100	0	85.2	70	130			

Sample ID: ICV1-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: ICV	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 12:16:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	2.55	0.300	2.50	0	102	90	110			
Magnesium	2.59	0.300	2.50	0	104	90	110			
Potassium	2.64	0.300	2.50	0	106	90	110			
Sodium	2.60	0.300	2.50	0	104	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_140523A

Sample ID CCV1-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 2:42:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.65	0.300	5.00	0	93.1	90	110			
Magnesium	4.63	0.300	5.00	0	92.6	90	110			
Potassium	4.79	0.300	5.00	0	95.8	90	110			
Sodium	4.67	0.300	5.00	0	93.5	90	110			

Sample ID CCV2-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 4:12:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.60	0.300	5.00	0	91.9	90	110			
Magnesium	4.50	0.300	5.00	0	89.9	90	110			
Potassium	4.78	0.300	5.00	0	95.6	90	110			
Sodium	4.52	0.300	5.00	0	90.3	90	110			

Sample ID CCV3-140523	Batch ID: R73340	TestNo: SW6020A	Units: mg/L
SampType: CCV	Run ID: ICP-MS3_140523A	Analysis Date: 5/23/2014 5:19:00 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	4.76	0.300	5.00	0	95.3	90	110			
Magnesium	4.50	0.300	5.00	0	90.1	90	110			
Potassium	4.74	0.300	5.00	0	94.7	90	110			
Sodium	4.56	0.300	5.00	0	91.3	90	110			

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: IC_140521A

The QC data in batch 63712 applies to the following samples: 1405233-01D, 1405233-02D, 1405233-03D, 1405233-04D, 1405233-05D, 1405233-06D, 1405233-07D

Sample ID: MB-63712	Batch ID: 63712	TestNo: E300	Units: mg/L
SampType: MBLK	Run ID: IC_140521A	Analysis Date: 5/21/2014 10:51:10 AM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<0.300	1.00								
Fluoride	<0.100	0.400								
Nitrate-N	<0.100	0.500								
Sulfate	<1.00	3.00								

Sample ID: LCS-63712	Batch ID: 63712	TestNo: E300	Units: mg/L
SampType: LCS	Run ID: IC_140521A	Analysis Date: 5/21/2014 11:05:47 AM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.57	1.00	10.00	0	95.7	90	110			
Fluoride	3.93	0.400	4.000	0	98.4	90	110			
Nitrate-N	5.33	0.500	5.000	0	107	90	110			
Sulfate	30.9	3.00	30.00	0	103	90	110			

Sample ID: LCSD-63712	Batch ID: 63712	TestNo: E300	Units: mg/L
SampType: LCSD	Run ID: IC_140521A	Analysis Date: 5/21/2014 11:20:23 AM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.48	1.00	10.00	0	94.8	90	110	0.884	20	
Fluoride	3.91	0.400	4.000	0	97.7	90	110	0.658	20	
Nitrate-N	5.30	0.500	5.000	0	106	90	110	0.628	20	
Sulfate	30.7	3.00	30.00	0	102	90	110	0.862	20	

Sample ID: 1405233-07DMS	Batch ID: 63712	TestNo: E300	Units: mg/L
SampType: MS	Run ID: IC_140521A	Analysis Date: 5/21/2014 3:07:14 PM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	260	10.0	200.0	54.27	103	90	110			
Nitrate-N	81.1	5.00	45.16	30.70	112	90	110			S
Sulfate	759	30.0	200.0	526.2	117	90	110			S

Sample ID: 1405233-07DMSD	Batch ID: 63712	TestNo: E300	Units: mg/L
SampType: MSD	Run ID: IC_140521A	Analysis Date: 5/21/2014 3:21:51 PM	Prep Date: 5/21/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	252	10.0	200.0	54.27	99.0	90	110	2.91	20	
Nitrate-N	79.6	5.00	45.16	30.70	108	90	110	1.92	20	
Sulfate	751	30.0	200.0	526.2	113	90	110	1.08	20	S

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: IC_140521A

Sample ID 1405233-07DMS	Batch ID: 63712	TestNo: E300	Units: mg/L							
SampType: MS	Run ID: IC_140521A	Analysis Date: 5/21/2014 3:36:27 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	20.2	0.400	20.00	0.1472	100	90	110			

Sample ID 1405233-07DMSD	Batch ID: 63712	TestNo: E300	Units: mg/L							
SampType: MSD	Run ID: IC_140521A	Analysis Date: 5/21/2014 3:51:04 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	19.7	0.400	20.00	0.1472	97.9	90	110	2.42	20	

Qualifiers: B Analyte detected in the associated Method Blank J Analyte detected between MDL and RL ND Not Detected at the Method Detection Limit RL Reporting Limit J Analyte detected between SDL and RL	DF Dilution Factor MDL Method Detection Limit R RPD outside accepted control limits S Spike Recovery outside control limits N Parameter not NELAC certified
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CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: IC_140521A

Sample ID ICV-140521	Batch ID: R73298	TestNo: E300	Units: mg/L							
SampType: ICV	Run ID: IC_140521A	Analysis Date: 5/21/2014 10:34:54 AM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24.9	1.00	25.00	0	99.5	90	110			
Fluoride	10.2	0.400	10.00	0	102	90	110			
Nitrate-N	13.6	0.500	12.50	0	109	90	110			
Sulfate	78.8	3.00	75.00	0	105	90	110			

Sample ID CCV1-140521	Batch ID: R73298	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC_140521A	Analysis Date: 5/21/2014 1:56:53 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.98	1.00	10.00	0	99.8	90	110			
Fluoride	3.99	0.400	4.000	0	99.7	90	110			
Nitrate-N	5.28	0.500	5.000	0	106	90	110			
Sulfate	31.1	3.00	30.00	0	104	90	110			

Sample ID CCV2-140521	Batch ID: R73298	TestNo: E300	Units: mg/L							
SampType: CCV	Run ID: IC_140521A	Analysis Date: 5/21/2014 4:27:38 PM	Prep Date:							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.40	1.00	10.00	0	94.0	90	110			
Fluoride	3.94	0.400	4.000	0	98.5	90	110			
Nitrate-N	5.17	0.500	5.000	0	103	90	110			
Sulfate	30.4	3.00	30.00	0	101	90	110			

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_140528B

The QC data in batch 63821 applies to the following samples: 1405233-01D, 1405233-02D, 1405233-03D, 1405233-04D, 1405233-05D, 1405233-06D, 1405233-07D

Sample ID LCS-63821	Batch ID: 63821	TestNo: M2320 B	Units: mg/L @ pH 4.28							
SampType: LCS	Run ID: TITRATOR_140528B	Analysis Date: 5/28/2014 11:07:00 AM	Prep Date: 5/28/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	56.9	20.0	50.00	0	114	74	129			

Sample ID MB-63821	Batch ID: 63821	TestNo: M2320 B	Units: mg/L @ pH 4.29							
SampType: MBLK	Run ID: TITRATOR_140528B	Analysis Date: 5/28/2014 11:13:00 AM	Prep Date: 5/28/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	<10.0	20.0								
Alkalinity, Carbonate (As CaCO3)	<10.0	20.0								
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0								
Alkalinity, Total (As CaCO3)	<20.0	20.0								

Sample ID 1405233-07D DUP	Batch ID: 63821	TestNo: M2320 B	Units: mg/L @ pH 4.51							
SampType: DUP	Run ID: TITRATOR_140528B	Analysis Date: 5/28/2014 12:17:00 PM	Prep Date: 5/28/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	368	20.0	0	371.2				0.730	20	
Alkalinity, Carbonate (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	368	20.0	0	371.2				0.730	20	

Sample ID 1405311-05D DUP	Batch ID: 63821	TestNo: M2320 B	Units: mg/L @ pH 4.46							
SampType: DUP	Run ID: TITRATOR_140528B	Analysis Date: 5/28/2014 12:44:00 PM	Prep Date: 5/28/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	12.1	20.0	0	12.10				0	20	
Alkalinity, Carbonate (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	12.1	20.0	0	12.10				0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_140528B

Sample ID ICV-140528	Batch ID: R73394	TestNo: M2320 B	Units: mg/L @ pH 4.49							
SampType: ICV	Run ID: TITRATOR_140528B	Analysis Date: 5/28/2014 10:59:00 AM	Prep Date: 5/28/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	1.12	20.0	0							
Alkalinity, Carbonate (As CaCO3)	100	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0							
Alkalinity, Total (As CaCO3)	101	20.0	100.0	0	101	98	102			

Sample ID CCV1-140528	Batch ID: R73394	TestNo: M2320 B	Units: mg/L @ pH 4.48							
SampType: CCV	Run ID: TITRATOR_140528B	Analysis Date: 5/28/2014 12:29:00 PM	Prep Date: 5/28/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	8.08	20.0	0							
Alkalinity, Carbonate (As CaCO3)	95.8	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0							
Alkalinity, Total (As CaCO3)	104	20.0	100.0	0	104	90	110			

Sample ID CCV2-140528	Batch ID: R73394	TestNo: M2320 B	Units: mg/L @ pH 4.43							
SampType: CCV	Run ID: TITRATOR_140528B	Analysis Date: 5/28/2014 1:05:00 PM	Prep Date: 5/28/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Alkalinity, Bicarbonate (As CaCO3)	8.40	20.0	0							
Alkalinity, Carbonate (As CaCO3)	94.4	20.0	0							
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0							
Alkalinity, Total (As CaCO3)	103	20.0	100.0	0	103	90	110			

<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_140521A

The QC data in batch 63724 applies to the following samples: 1405233-01C, 1405233-02C, 1405233-03C, 1405233-04C, 1405233-05C, 1405233-06C, 1405233-07C

Sample ID MB-63724	Batch ID: 63724	TestNo: M4500-NH3 F	Units: mg/L							
SampType: MBLK	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ammonia-N (As N)	<0.100	0.250								

Sample ID LCS-63724	Batch ID: 63724	TestNo: M4500-NH3 F	Units: mg/L							
SampType: LCS	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ammonia-N (As N)	4.89	0.250	5.000	0	97.8	80	120			

Sample ID 1405233-07C MS	Batch ID: 63724	TestNo: M4500-NH3 F	Units: mg/L							
SampType: MS	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ammonia-N (As N)	4.98	0.250	5.000	0	99.6	80	120			

Sample ID 1405233-07C MSD	Batch ID: 63724	TestNo: M4500-NH3 F	Units: mg/L							
SampType: MSD	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ammonia-N (As N)	5.01	0.250	5.000	0	100	80	120	0.601	25	

Qualifiers:

B Analyte detected in the associated Method Blank	DF Dilution Factor
J Analyte detected between MDL and RL	MDL Method Detection Limit
ND Not Detected at the Method Detection Limit	R RPD outside accepted control limits
RL Reporting Limit	S Spike Recovery outside control limits
J Analyte detected between SDL and RL	N Parameter not NELAC certified

CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_140521A

Sample ID ICV-140521	Batch ID: AMM-5/21/14	TestNo: M4500-NH3 F	Units: mg/L							
SampType: ICV	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Ammonia-N (As N)	2.60	0.250	2.500	0	104	80	120
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Sample ID CCV1-140521	Batch ID: AMM-5/21/14	TestNo: M4500-NH3 F	Units: mg/L							
SampType: CCV	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Ammonia-N (As N)	4.92	0.250	5.000	0	98.4	80	120
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Sample ID CCV2-140521	Batch ID: AMM-5/21/14	TestNo: M4500-NH3 F	Units: mg/L							
SampType: CCV	Run ID: WC_140521A	Analysis Date: 5/21/2014 2:00:00 PM	Prep Date: 5/21/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Ammonia-N (As N)	5.02	0.250	5.000	0	100	80	120
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<p>Qualifiers:</p> <p>B Analyte detected in the associated Method Blank</p> <p>J Analyte detected between MDL and RL</p> <p>ND Not Detected at the Method Detection Limit</p> <p>RL Reporting Limit</p> <p>J Analyte detected between SDL and RL</p>	<p>DF Dilution Factor</p> <p>MDL Method Detection Limit</p> <p>R RPD outside accepted control limits</p> <p>S Spike Recovery outside control limits</p> <p>N Parameter not NELAC certified</p>
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CLIENT: URS Corporation
Work Order: 1405233
Project: CRCP

ANALYTICAL QC SUMMARY REPORT

RunID: WC_140522A

The QC data in batch 63743 applies to the following samples: 1405233-01E, 1405233-02E, 1405233-03E, 1405233-04E, 1405233-05E, 1405233-06E, 1405233-07E

Sample ID MB-63743	Batch ID: 63743	TestNo: M2540D	Units: mg/L							
SampType: MBLK	Run ID: WC_140522A	Analysis Date: 5/22/2014 6:00:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter		<25.0	25.0							

Sample ID LCS-63743	Batch ID: 63743	TestNo: M2540D	Units: mg/L							
SampType: LCS	Run ID: WC_140522A	Analysis Date: 5/22/2014 6:00:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter		100	25.0	100.0	0	100	85	115		

Sample ID 1405218-01E-DUP	Batch ID: 63743	TestNo: M2540D	Units: mg/L							
SampType: DUP	Run ID: WC_140522A	Analysis Date: 5/22/2014 6:00:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter		<5.00	5.00	0	0			0	5	

Sample ID 1405233-07E-DUP	Batch ID: 63743	TestNo: M2540D	Units: mg/L							
SampType: DUP	Run ID: WC_140522A	Analysis Date: 5/22/2014 6:00:00 PM	Prep Date: 5/22/2014							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter		<2.50	2.50	0	0			0	5	

- | | | |
|--------------------|---|---|
| Qualifiers: | B Analyte detected in the associated Method Blank | DF Dilution Factor |
| | J Analyte detected between MDL and RL | MDL Method Detection Limit |
| | ND Not Detected at the Method Detection Limit | R RPD outside accepted control limits |
| | RL Reporting Limit | S Spike Recovery outside control limits |
| | J Analyte detected between SDL and RL | N Parameter not NELAC certified |



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February 10, 2014

KEVIN PASTERNAK
URS CORPORATION
9400 AMBERGLEN BOULEVARD
Austin, TX 78729

RE: Final Analytical Report
ELS Workorder Q1306971

Attn: KEVIN PASTERNAK

Enclosed are the analytical results for sample(s) received by LCRA Environmental Laboratory Services. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report.

Thank you for selecting ELS for your analytical needs. If you have any questions concerning this report, please feel free to contact us at (512) 356-6022. We look forward to assisting you again.

Authorized for release by:

Ariana Dean
Project Manager

Enclosures



T104704218-14-9

Report ID: 51771 - 699382

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SAMPLE SUMMARY

Workorder: Q1306971

Lab ID	Sample ID	Matrix	Date Collected	Date Received
Q1306971001	CRCP-NTNWZ-080	Aqueous	9/10/2013 10:00	9/11/2013 13:00
Q1306971002	CRCP-ATF1-083	Aqueous	9/10/2013 10:40	9/11/2013 13:00
Q1306971005	CRCP-5852314-080	Aqueous	9/10/2013 11:55	9/11/2013 13:00
Q1306971006	CRCP-5852213-080	Aqueous	9/10/2013 13:55	9/11/2013 13:00
Q1306971007	CRCP-WisianW1-080	Aqueous	9/10/2013 15:30	9/11/2013 13:00
Q1306971008	CRCP-WisianW1-085	Aqueous	9/10/2013 15:40	9/11/2013 13:00
Q1306971009	CRCP-WisianW2-080	Aqueous	9/10/2013 16:15	9/11/2013 13:00
Q1306971010	CRCP-221049-080	Aqueous	9/11/2013 09:40	9/11/2013 13:00
Q1306971011	CRCP-HOLWEGE-080	Aqueous	9/11/2013 10:15	9/11/2013 13:00
Q1306971012	CRCP-58522-080	Aqueous	9/11/2013 11:15	9/11/2013 13:00
Q1306971013	CRCP-58522-081	Aqueous	9/11/2013 11:15	9/11/2013 13:00
Q1306971014	CRCP-BUCCHEIT-080	Aqueous	9/11/2013 12:25	9/11/2013 13:00



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ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971001** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-NTNWZ-080** Date Collected: 9/10/2013 10:00 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.88 mg/L	1.88	4.71		1	09/13/13 12:00:00	JR	09/17/13 18:37:08	EM	N
>C12-C28	<1.88 mg/L	1.88	4.71		1	09/13/13 12:00:00	JR	09/17/13 18:37:08	EM	N
>C28-C35	<1.88 mg/L	1.88	4.71		1	09/13/13 12:00:00	JR	09/17/13 18:37:08	EM	N
C6-C35	<4.71 mg/L	4.71	4.71		1	09/13/13 12:00:00	JR	09/17/13 18:37:08	EM	
a,a,a-Trifluorotoluene (S)	72.1 %			70 - 130		09/13/13 12:00:00	JR	09/17/13 18:37:08	EM	
o-Terphenyl (S)	87.8 %			70 - 130		09/13/13 12:00:00	JR	09/17/13 18:37:08	EM	



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ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971002** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-ATF1-083** Date Collected: 9/10/2013 10:40 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.86 mg/L	1.86	4.64		1	09/13/13 12:00:00	JR	09/17/13 19:16:25	EM	N
>C12-C28	<1.86 mg/L	1.86	4.64		1	09/13/13 12:00:00	JR	09/17/13 19:16:25	EM	N
>C28-C35	<1.86 mg/L	1.86	4.64		1	09/13/13 12:00:00	JR	09/17/13 19:16:25	EM	N
C6-C35	<4.64 mg/L	4.64	4.64		1	09/13/13 12:00:00	JR	09/17/13 19:16:25	EM	
a,a,a-Trifluorotoluene (S)	80 %			70 - 130		09/13/13 12:00:00	JR	09/17/13 19:16:25	EM	
o-Terphenyl (S)	92.9 %			70 - 130		09/13/13 12:00:00	JR	09/17/13 19:16:25	EM	



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ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971005** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-5852314-080** Date Collected: 9/10/2013 11:55 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.87 mg/L	1.87	4.68		1	09/13/13 12:00:00	JR	09/17/13 21:14:41	EM	N
>C12-C28	<1.87 mg/L	1.87	4.68		1	09/13/13 12:00:00	JR	09/17/13 21:14:41	EM	N
>C28-C35	<1.87 mg/L	1.87	4.68		1	09/13/13 12:00:00	JR	09/17/13 21:14:41	EM	N
C6-C35	<4.68 mg/L	4.68	4.68		1	09/13/13 12:00:00	JR	09/17/13 21:14:41	EM	
a,a,a-Trifluorotoluene (S)	77.9 %		70 - 130			09/13/13 12:00:00	JR	09/17/13 21:14:41	EM	
o-Terphenyl (S)	82.9 %		70 - 130			09/13/13 12:00:00	JR	09/17/13 21:14:41	EM	



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ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971006** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-5852213-080** Date Collected: 9/10/2013 13:55 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.86 mg/L	1.86	4.66		1	09/13/13 12:00:00	JR	09/17/13 21:54:02	EM	N
>C12-C28	<1.86 mg/L	1.86	4.66		1	09/13/13 12:00:00	JR	09/17/13 21:54:02	EM	N
>C28-C35	<1.86 mg/L	1.86	4.66		1	09/13/13 12:00:00	JR	09/17/13 21:54:02	EM	N
C6-C35	<4.66 mg/L	4.66	4.66		1	09/13/13 12:00:00	JR	09/17/13 21:54:02	EM	
a,a,a-Trifluorotoluene (S)	64.8 %		70 - 130			09/13/13 12:00:00	JR	09/17/13 21:54:02	EM	
o-Terphenyl (S)	67.6 %		70 - 130			09/13/13 12:00:00	JR	09/17/13 21:54:02	EM	



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ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971007** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-WisianW1-080** Date Collected: 9/10/2013 15:30 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.88 mg/L	1.88	4.70		1	09/13/13 12:00:00	JR	09/17/13 22:33:26	EM	N
>C12-C28	<1.88 mg/L	1.88	4.70		1	09/13/13 12:00:00	JR	09/17/13 22:33:26	EM	N
>C28-C35	<1.88 mg/L	1.88	4.70		1	09/13/13 12:00:00	JR	09/17/13 22:33:26	EM	N
C6-C35	<4.70 mg/L	4.70	4.70		1	09/13/13 12:00:00	JR	09/17/13 22:33:26	EM	
a,a,a-Trifluorotoluene (S)	93.3 %			70 - 130		09/13/13 12:00:00	JR	09/17/13 22:33:26	EM	
o-Terphenyl (S)	147 %			70 - 130		09/13/13 12:00:00	JR	09/17/13 22:33:26	EM	



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ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971008** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-WisianW1-085** Date Collected: 9/10/2013 15:40 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.87 mg/L	1.87	4.67		1	09/13/13 12:00:00	JR	09/17/13 23:12:39	EM	N
>C12-C28	<1.87 mg/L	1.87	4.67		1	09/13/13 12:00:00	JR	09/17/13 23:12:39	EM	N
>C28-C35	<1.87 mg/L	1.87	4.67		1	09/13/13 12:00:00	JR	09/17/13 23:12:39	EM	N
C6-C35	<4.67 mg/L	4.67	4.67		1	09/13/13 12:00:00	JR	09/17/13 23:12:39	EM	
a,a,a-Trifluorotoluene (S)	83.6 %			70 - 130		09/13/13 12:00:00	JR	09/17/13 23:12:39	EM	
o-Terphenyl (S)	94.8 %			70 - 130		09/13/13 12:00:00	JR	09/17/13 23:12:39	EM	



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ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971009** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-WisianW2-080** Date Collected: 9/10/2013 16:15 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.87 mg/L	1.87	4.67		1	09/13/13 12:00:00	JR	09/17/13 23:51:53	EM	N
>C12-C28	<1.87 mg/L	1.87	4.67		1	09/13/13 12:00:00	JR	09/17/13 23:51:53	EM	N
>C28-C35	<1.87 mg/L	1.87	4.67		1	09/13/13 12:00:00	JR	09/17/13 23:51:53	EM	N
C6-C35	<4.67 mg/L	4.67	4.67		1	09/13/13 12:00:00	JR	09/17/13 23:51:53	EM	
a,a,a-Trifluorotoluene (S)	106 %			70 - 130		09/13/13 12:00:00	JR	09/17/13 23:51:53	EM	
o-Terphenyl (S)	110 %			70 - 130		09/13/13 12:00:00	JR	09/17/13 23:51:53	EM	



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ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971010** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-221049-080** Date Collected: 9/11/2013 09:40 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.86 mg/L	1.86	4.66		1	09/13/13 12:00:00	JR	09/18/13 00:31:33	EM	N
>C12-C28	<1.86 mg/L	1.86	4.66		1	09/13/13 12:00:00	JR	09/18/13 00:31:33	EM	N
>C28-C35	<1.86 mg/L	1.86	4.66		1	09/13/13 12:00:00	JR	09/18/13 00:31:33	EM	N
C6-C35	<4.66 mg/L	4.66	4.66		1	09/13/13 12:00:00	JR	09/18/13 00:31:33	EM	
a,a,a-Trifluorotoluene (S)	96.8 %		70 - 130			09/13/13 12:00:00	JR	09/18/13 00:31:33	EM	
o-Terphenyl (S)	118 %		70 - 130			09/13/13 12:00:00	JR	09/18/13 00:31:33	EM	



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 Fax: (512)356-6021

ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971011** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-HOLWEGE-080** Date Collected: 9/11/2013 10:15 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.88 mg/L	1.88	4.69		1	09/13/13 12:00:00	JR	09/18/13 01:10:51	EM	N
>C12-C28	<1.88 mg/L	1.88	4.69		1	09/13/13 12:00:00	JR	09/18/13 01:10:51	EM	N
>C28-C35	<1.88 mg/L	1.88	4.69		1	09/13/13 12:00:00	JR	09/18/13 01:10:51	EM	N
C6-C35	<4.69 mg/L	4.69	4.69		1	09/13/13 12:00:00	JR	09/18/13 01:10:51	EM	
a,a,a-Trifluorotoluene (S)	83.6 %		70 - 130			09/13/13 12:00:00	JR	09/18/13 01:10:51	EM	
o-Terphenyl (S)	86.6 %		70 - 130			09/13/13 12:00:00	JR	09/18/13 01:10:51	EM	



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ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971012** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-58522-080** Date Collected: 9/11/2013 11:15 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.89 mg/L	1.89	4.73		1	09/13/13 12:00:00	JR	09/18/13 01:50:14	EM	N
>C12-C28	<1.89 mg/L	1.89	4.73		1	09/13/13 12:00:00	JR	09/18/13 01:50:14	EM	N
>C28-C35	<1.89 mg/L	1.89	4.73		1	09/13/13 12:00:00	JR	09/18/13 01:50:14	EM	N
C6-C35	<4.73 mg/L	4.73	4.73		1	09/13/13 12:00:00	JR	09/18/13 01:50:14	EM	
a,a,a-Trifluorotoluene (S)	103 %		70 - 130			09/13/13 12:00:00	JR	09/18/13 01:50:14	EM	
o-Terphenyl (S)	112 %		70 - 130			09/13/13 12:00:00	JR	09/18/13 01:50:14	EM	



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ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971013** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-58522-081** Date Collected: 9/11/2013 11:15 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.87 mg/L	1.87	4.67		1	09/13/13 12:00:00	JR	09/18/13 02:29:35	EM	N
>C12-C28	<1.87 mg/L	1.87	4.67		1	09/13/13 12:00:00	JR	09/18/13 02:29:35	EM	N
>C28-C35	<1.87 mg/L	1.87	4.67		1	09/13/13 12:00:00	JR	09/18/13 02:29:35	EM	N
C6-C35	<4.67 mg/L	4.67	4.67		1	09/13/13 12:00:00	JR	09/18/13 02:29:35	EM	
a,a,a-Trifluorotoluene (S)	73.4 %			70 - 130		09/13/13 12:00:00	JR	09/18/13 02:29:35	EM	
o-Terphenyl (S)	88.4 %			70 - 130		09/13/13 12:00:00	JR	09/18/13 02:29:35	EM	



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ANALYTICAL RESULTS

Workorder: Q1306971

Lab ID: **Q1306971014** Date Received: 9/11/2013 13:00 Matrix: Aqueous
 Sample ID: **CRCP-BUCHEIT-080** Date Collected: 9/11/2013 12:25 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.87 mg/L	1.87	4.68		1	09/13/13 12:00:00	JR	09/18/13 03:08:59	EM	N
>C12-C28	<1.87 mg/L	1.87	4.68		1	09/13/13 12:00:00	JR	09/18/13 03:08:59	EM	N
>C28-C35	<1.87 mg/L	1.87	4.68		1	09/13/13 12:00:00	JR	09/18/13 03:08:59	EM	N
C6-C35	<4.68 mg/L	4.68	4.68		1	09/13/13 12:00:00	JR	09/18/13 03:08:59	EM	
a,a,a-Trifluorotoluene (S)	77.3 %		70 - 130			09/13/13 12:00:00	JR	09/18/13 03:08:59	EM	
o-Terphenyl (S)	85.8 %		70 - 130			09/13/13 12:00:00	JR	09/18/13 03:08:59	EM	



ANALYTICAL RESULTS QUALIFIERS

Workorder: Q1306971

PARAMETER QUALIFIERS

Lab ID: Q1306971001
N Not Accredited

Lab ID: Q1306971002
N Not Accredited

Lab ID: Q1306971005
N Not Accredited

Lab ID: Q1306971006
N Not Accredited

Lab ID: Q1306971007
N Not Accredited

Lab ID: Q1306971008
N Not Accredited

Lab ID: Q1306971009
N Not Accredited

Lab ID: Q1306971010
N Not Accredited

Lab ID: Q1306971011
N Not Accredited

Lab ID: Q1306971012
N Not Accredited

Lab ID: Q1306971013
N Not Accredited

Lab ID: Q1306971014
N Not Accredited



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: Q1306971

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
Q1306971001	CRCP-NTNWZ-080	TX1005	OEXT/1471	TX1005	ORG/1529
Q1306971002	CRCP-ATF1-083	TX1005	OEXT/1471	TX1005	ORG/1529
Q1306971005	CRCP-5852314-080	TX1005	OEXT/1471	TX1005	ORG/1529
Q1306971006	CRCP-5852213-080	TX1005	OEXT/1471	TX1005	ORG/1529
Q1306971007	CRCP-WisianW1-080	TX1005	OEXT/1471	TX1005	ORG/1529
Q1306971008	CRCP-WisianW1-085	TX1005	OEXT/1471	TX1005	ORG/1529
Q1306971009	CRCP-WisianW2-080	TX1005	OEXT/1471	TX1005	ORG/1529
Q1306971010	CRCP-221049-080	TX1005	OEXT/1471	TX1005	ORG/1529
Q1306971011	CRCP-HOLWEGE-080	TX1005	OEXT/1471	TX1005	ORG/1529
Q1306971012	CRCP-58522-080	TX1005	OEXT/1471	TX1005	ORG/1529
Q1306971013	CRCP-58522-081	TX1005	OEXT/1471	TX1005	ORG/1529
Q1306971014	CRCP-BUCHEIT-080	TX1005	OEXT/1471	TX1005	ORG/1529



LCRA ENVIRONMENTAL LABORATORY SERVICES (ELS) CHAIN OF CUSTODY RECORD

Target Due Date: _____
 Work Order No.: Q1313611
 COC No.: _____
 Page 1 of 1

NOTE: Relinquishing sample(s) to ELS obligates the submitter to all Standard Terms and Conditions stated on the back of this form.

Results To: Kevin Pasternak 9400 Amberghen Blvd. Austin TX 78729 Sampled By: Nate Henry / Liz Rinehart
 Bill To: URS Corp. PO No.: _____
 Phone No.: 512-419-5293 Fax No.: 512-454-8807 Method of Transport: hand delivered AT Requested: _____ Working days E-mail: kevin.pasternak@urs.com
 Relinquished By: ER Date: 11/18/13 Time: 1541 Received By: _____ Date: _____ Time: _____ Relinquished By: _____ Date: _____ Time: _____

Report Requirements: Hardcopy E-mail Fax
 Regulatory Requirements: None NELAP
 Received at ELS By: _____ Date: 11/18/13 Time: 1541 ELS Mgmt. Approval for RUSH: _____
 Received on Ice Temp: 1.8 °C - 1.9 °C
 Login Review: _____ Date: _____ Surcharge for RUSH: _____ %

ELS ID:	SAMPLE DESCRIPTION Custody Seals (circle): Cooler Bottles None	MATRIX	SAMPLE COLLECTION		CONTAINERS			ANALYSIS REQUESTED - Place an "x" in the box below to indicate request.										Comments PRESERVATIVES pH					
			DATE	TIME	NUMBER	SIZE	TYPE																
001	CRCP-221049-090	W	11/18/13	0940	5	40mL	VOA	X	3	2												run low level detection for TPH & PAH	
002	CRCP-Holweyer-090			1009	5			3	2														
003	CRCP-585223-090			1200	5			3	2														
004	CRCP-Wisian W1-090			1329	5			3	2														
005	CRCP-Wisian W2-090			1412	5			3	2														
006	CRCP-58522-090			1503	5			3	2														
007	CRCP-58522-091	↓	↓	1503	5	↓	↓	3	2														↓
tip 11/18/13																							

Special Instructions: run low level detection for TPH & PAH on all samples
 ELS Comments: _____





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February 10, 2014

KEVIN PASTERNAK
URS CORPORATION
9400 AMBERGLEN BOULEVARD
Austin, TX 78729

RE: Final Analytical Report
ELS Workorder Q1313611

Attn: KEVIN PASTERNAK

Enclosed are the analytical results for sample(s) received by LCRA Environmental Laboratory Services. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report.

Thank you for selecting ELS for your analytical needs. If you have any questions concerning this report, please feel free to contact us at (512) 356-6022. We look forward to assisting you again.

Authorized for release by:

Ariana Dean
Project Manager

Enclosures



T104704218-14-9

Report ID: 69818 - 597593

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SAMPLE SUMMARY

Workorder: Q1313611

Lab ID	Sample ID	Matrix	Date Collected	Date Received
Q1313611001	CRCP-221049-090	Aqueous	11/18/2013 09:40	11/18/2013
Q1313611002	CRCP-HOLWEGER-090	Aqueous	11/18/2013 10:09	11/18/2013
Q1313611003	CRCP-5852213-090	Aqueous	11/18/2013 12:00	11/18/2013
Q1313611004	CRCP-WISIANW1-090	Aqueous	11/18/2013 13:29	11/18/2013
Q1313611005	CRCP-WISIANW2-090	Aqueous	11/18/2013 14:12	11/18/2013
Q1313611006	CRCP-58522-090	Aqueous	11/18/2013 15:03	11/18/2013
Q1313611007	CRCP-58522-091	Aqueous	11/18/2013 15:03	11/18/2013

ANALYTICAL RESULTS

Workorder: Q1313611

Lab ID: **Q1313611001** Date Received: 11/18/2013 Matrix: Aqueous
Sample ID: **CRCP-221049-090** Date Collected: 11/18/2013 Sample Type: SAMPLE
Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Acenaphthylene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Acenaphthene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Fluorene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Phenanthrene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Anthracene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Fluoranthene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Pyrene	<3.80 ug/L	3.80	9.51		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Benzo(a)anthracene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Chrysene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Benzo(k)fluoranthene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Benzo(b)fluoranthene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Benzo(a)pyrene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Indeno(1,2,3-cd)pyrene	<3.80 ug/L	3.80	9.51		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Dibenz(a,h)anthracene	<3.80 ug/L	3.80	9.51		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Benzo(g,h,i)perylene	<3.80 ug/L	3.80	14.3		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Nitrobenzene-d5 (S)	58.5 %		28 - 116		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
2-Fluorobiphenyl (S)	63.6 %		42 - 143		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	
Terphenyl-d14 (S)	63.7 %		23 - 150		1	11/20/13 10:00:00	NW	11/25/13 17:07:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.89 mg/L	1.89	4.71		1	11/21/13 10:20:00	MH	11/21/13 23:18:40	EM	N
>C12-C28	<1.89 mg/L	1.89	4.71		1	11/21/13 10:20:00	MH	11/21/13 23:18:40	EM	N
>C28-C35	<1.89 mg/L	1.89	4.71		1	11/21/13 10:20:00	MH	11/21/13 23:18:40	EM	N
C6-C35	<4.71 mg/L	4.71	4.71		1	11/21/13 10:20:00	MH	11/21/13 23:18:40	EM	
a,a,a-Trifluorotoluene (S)	86.3 %		70 - 130			11/21/13 10:20:00	MH	11/21/13 23:18:40	EM	
o-Terphenyl (S)	66 %		70 - 130			11/21/13 10:20:00	MH	11/21/13 23:18:40	EM	

Report ID: 69818 - 597593

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ANALYTICAL RESULTS

Workorder: Q1313611

Lab ID: **Q1313611002** Date Received: 11/18/2013 Matrix: Aqueous
 Sample ID: **CRCP-HOLWEGER-090** Date Collected: 11/18/2013 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Acenaphthylene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Acenaphthene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Fluorene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Phenanthrene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Anthracene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Fluoranthene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Pyrene	<3.77 ug/L	3.77	9.43		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Benzo(a)anthracene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Chrysene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Benzo(k)fluoranthene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Benzo(b)fluoranthene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Benzo(a)pyrene	<1.89 ug/L	1.89	4.72		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Indeno(1,2,3-cd)pyrene	<3.77 ug/L	3.77	9.43		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Dibenz(a,h)anthracene	<3.77 ug/L	3.77	9.43		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Benzo(g,h,i)perylene	<3.77 ug/L	3.77	14.2		1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Nitrobenzene-d5 (S)	58.7 %			28 - 116	1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
2-Fluorobiphenyl (S)	60.7 %			42 - 143	1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	
Terphenyl-d14 (S)	49.5 %			23 - 150	1	11/20/13 10:00:00	NW	11/25/13 17:40:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.88 mg/L	1.88	4.69		1	11/21/13 10:20:00	MH	11/21/13 23:57:24	EM	N
>C12-C28	<1.88 mg/L	1.88	4.69		1	11/21/13 10:20:00	MH	11/21/13 23:57:24	EM	N
>C28-C35	<1.88 mg/L	1.88	4.69		1	11/21/13 10:20:00	MH	11/21/13 23:57:24	EM	N
C6-C35	<4.69 mg/L	4.69	4.69		1	11/21/13 10:20:00	MH	11/21/13 23:57:24	EM	
a,a,a-Trifluorotoluene (S)	86.9 %			70 - 130		11/21/13 10:20:00	MH	11/21/13 23:57:24	EM	
o-Terphenyl (S)	70.8 %			70 - 130		11/21/13 10:20:00	MH	11/21/13 23:57:24	EM	



ANALYTICAL RESULTS

Workorder: Q1313611

Lab ID: **Q1313611003** Date Received: 11/18/2013 Matrix: Aqueous
 Sample ID: **CRCP-5852213-090** Date Collected: 11/18/2013 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Acenaphthylene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Acenaphthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Fluorene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Phenanthrene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Anthracene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Fluoranthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Pyrene	<3.81 ug/L	3.81	9.52		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Benzo(a)anthracene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Chrysene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Benzo(k)fluoranthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Benzo(b)fluoranthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Benzo(a)pyrene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Indeno(1,2,3-cd)pyrene	<3.81 ug/L	3.81	9.52		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Dibenz(a,h)anthracene	<3.81 ug/L	3.81	9.52		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Benzo(g,h,i)perylene	<3.81 ug/L	3.81	14.3		1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Nitrobenzene-d5 (S)	56.6 %			28 - 116	1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
2-Fluorobiphenyl (S)	60.9 %			42 - 143	1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	
Terphenyl-d14 (S)	40.6 %			23 - 150	1	11/20/13 10:00:00	NW	11/25/13 18:13:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.88 mg/L	1.88	4.71		1	11/21/13 10:20:00	MH	11/22/13 00:35:51	EM	N
>C12-C28	<1.88 mg/L	1.88	4.71		1	11/21/13 10:20:00	MH	11/22/13 00:35:51	EM	N
>C28-C35	<1.88 mg/L	1.88	4.71		1	11/21/13 10:20:00	MH	11/22/13 00:35:51	EM	N
C6-C35	<4.71 mg/L	4.71	4.71		1	11/21/13 10:20:00	MH	11/22/13 00:35:51	EM	
a,a,a-Trifluorotoluene (S)	87.3 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 00:35:51	EM	
o-Terphenyl (S)	75.7 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 00:35:51	EM	



ANALYTICAL RESULTS

Workorder: Q1313611

Lab ID: **Q1313611004** Date Received: 11/18/2013 Matrix: Aqueous
 Sample ID: **CRCP-WISIANW1-090** Date Collected: 11/18/2013 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Acenaphthylene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Acenaphthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Fluorene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Phenanthrene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Anthracene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Fluoranthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Pyrene	<3.81 ug/L	3.81	9.51		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Benzo(a)anthracene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Chrysene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Benzo(k)fluoranthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Benzo(b)fluoranthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Benzo(a)pyrene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Indeno(1,2,3-cd)pyrene	<3.81 ug/L	3.81	9.51		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Dibenz(a,h)anthracene	<3.81 ug/L	3.81	9.51		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Benzo(g,h,i)perylene	<3.81 ug/L	3.81	14.3		1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Nitrobenzene-d5 (S)	60.2 %			28 - 116	1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
2-Fluorobiphenyl (S)	63.8 %			42 - 143	1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	
Terphenyl-d14 (S)	62.2 %			23 - 150	1	11/20/13 10:00:00	NW	11/25/13 18:47:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.96 mg/L	1.96	4.90		1	11/21/13 10:20:00	MH	11/22/13 01:14:34	EM	N
>C12-C28	<1.96 mg/L	1.96	4.90		1	11/21/13 10:20:00	MH	11/22/13 01:14:34	EM	N
>C28-C35	<1.96 mg/L	1.96	4.90		1	11/21/13 10:20:00	MH	11/22/13 01:14:34	EM	N
C6-C35	<4.90 mg/L	4.90	4.90		1	11/21/13 10:20:00	MH	11/22/13 01:14:34	EM	
a,a,a-Trifluorotoluene (S)	86.3 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 01:14:34	EM	
o-Terphenyl (S)	74.7 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 01:14:34	EM	



ANALYTICAL RESULTS

Workorder: Q1313611

Lab ID: **Q1313611005** Date Received: 11/18/2013 Matrix: Aqueous
 Sample ID: **CRCP-WISIANW2-090** Date Collected: 11/18/2013 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Acenaphthylene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Acenaphthene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Fluorene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Phenanthrene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Anthracene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Fluoranthene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Pyrene	<3.77 ug/L	3.77	9.42		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Benzo(a)anthracene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Chrysene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Benzo(k)fluoranthene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Benzo(b)fluoranthene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Benzo(a)pyrene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Indeno(1,2,3-cd)pyrene	<3.77 ug/L	3.77	9.42		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Dibenz(a,h)anthracene	<3.77 ug/L	3.77	9.42		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Benzo(g,h,i)perylene	<3.77 ug/L	3.77	14.1		1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Nitrobenzene-d5 (S)	62.4 %			28 - 116	1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
2-Fluorobiphenyl (S)	66.0 %			42 - 143	1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	
Terphenyl-d14 (S)	64.9 %			23 - 150	1	11/20/13 10:00:00	NW	11/25/13 19:20:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.89 mg/L	1.89	4.72		1	11/21/13 10:20:00	MH	11/22/13 01:52:57	EM	N
>C12-C28	<1.89 mg/L	1.89	4.72		1	11/21/13 10:20:00	MH	11/22/13 01:52:57	EM	N
>C28-C35	<1.89 mg/L	1.89	4.72		1	11/21/13 10:20:00	MH	11/22/13 01:52:57	EM	N
C6-C35	<4.72 mg/L	4.72	4.72		1	11/21/13 10:20:00	MH	11/22/13 01:52:57	EM	
a,a,a-Trifluorotoluene (S)	81.6 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 01:52:57	EM	
o-Terphenyl (S)	72.6 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 01:52:57	EM	



ANALYTICAL RESULTS

Workorder: Q1313611

Lab ID: **Q1313611006** Date Received: 11/18/2013 Matrix: Aqueous
 Sample ID: **CRCP-58522-090** Date Collected: 11/18/2013 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Acenaphthylene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Acenaphthene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Fluorene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Phenanthrene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Anthracene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Fluoranthene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Pyrene	<3.80 ug/L	3.80	9.50		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Benzo(a)anthracene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Chrysene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Benzo(k)fluoranthene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Benzo(b)fluoranthene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Benzo(a)pyrene	<1.90 ug/L	1.90	4.75		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Indeno(1,2,3-cd)pyrene	<3.80 ug/L	3.80	9.50		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Dibenz(a,h)anthracene	<3.80 ug/L	3.80	9.50		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Benzo(g,h,i)perylene	<3.80 ug/L	3.80	14.2		1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Nitrobenzene-d5 (S)	58.0 %			28 - 116	1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
2-Fluorobiphenyl (S)	60.4 %			42 - 143	1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	
Terphenyl-d14 (S)	49.0 %			23 - 150	1	11/20/13 10:00:00	NW	11/25/13 19:54:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.90 mg/L	1.90	4.76		1	11/21/13 10:20:00	MH	11/22/13 02:31:31	EM	N
>C12-C28	<1.90 mg/L	1.90	4.76		1	11/21/13 10:20:00	MH	11/22/13 02:31:31	EM	N
>C28-C35	<1.90 mg/L	1.90	4.76		1	11/21/13 10:20:00	MH	11/22/13 02:31:31	EM	N
C6-C35	<4.76 mg/L	4.76	4.76		1	11/21/13 10:20:00	MH	11/22/13 02:31:31	EM	
a,a,a-Trifluorotoluene (S)	83.8 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 02:31:31	EM	
o-Terphenyl (S)	74.9 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 02:31:31	EM	

ANALYTICAL RESULTS

Workorder: Q1313611

Lab ID: **Q1313611007** Date Received: 11/18/2013 Matrix: Aqueous
Sample ID: **CRCP-58522-091** Date Collected: 11/18/2013 Sample Type: SAMPLE
Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Acenaphthylene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Acenaphthene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Fluorene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Phenanthrene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Anthracene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Fluoranthene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Pyrene	<3.75 ug/L	3.75	9.36		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Benzo(a)anthracene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Chrysene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Benzo(k)fluoranthene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Benzo(b)fluoranthene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Benzo(a)pyrene	<1.87 ug/L	1.87	4.68		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Indeno(1,2,3-cd)pyrene	<3.75 ug/L	3.75	9.36		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Dibenz(a,h)anthracene	<3.75 ug/L	3.75	9.36		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Benzo(g,h,i)perylene	<3.75 ug/L	3.75	14.0		1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Nitrobenzene-d5 (S)	58.6 %			28 - 116	1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
2-Fluorobiphenyl (S)	62.9 %			42 - 143	1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	
Terphenyl-d14 (S)	63.9 %			23 - 150	1	11/20/13 10:00:00	NW	11/25/13 20:27:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.89 mg/L	1.89	4.73		1	11/21/13 10:20:00	MH	11/22/13 03:09:37	EM	N
>C12-C28	<1.89 mg/L	1.89	4.73		1	11/21/13 10:20:00	MH	11/22/13 03:09:37	EM	N
>C28-C35	<1.89 mg/L	1.89	4.73		1	11/21/13 10:20:00	MH	11/22/13 03:09:37	EM	N
C6-C35	<4.73 mg/L	4.73	4.73		1	11/21/13 10:20:00	MH	11/22/13 03:09:37	EM	
a,a,a-Trifluorotoluene (S)	88.4 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 03:09:37	EM	
o-Terphenyl (S)	76.7 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 03:09:37	EM	



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ANALYTICAL RESULTS QUALIFIERS

Workorder: Q1313611

PARAMETER QUALIFIERS

Lab ID: Q1313611001
N Not Accredited

Lab ID: Q1313611002
N Not Accredited

Lab ID: Q1313611003
N Not Accredited

Lab ID: Q1313611004
N Not Accredited

Lab ID: Q1313611005
N Not Accredited

Lab ID: Q1313611006
N Not Accredited

Lab ID: Q1313611007
N Not Accredited

QUALITY CONTROL DATA

Workorder: Q1313611

QC Batch: OEXT/1666 **Analysis Method:** SW-846 8270C

QC Batch Method: SW3520C, Liquid/Liquid Extract

Associated Lab Samples: Q1313611001, Q1313611002, Q1313611003, Q1313611004, Q1313611005, Q1313611006, Q1313611007

METHOD BLANK: 180825

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Acenaphthene	ug/L	<2.00	2.00	
Acenaphthylene	ug/L	<2.00	2.00	
Anthracene	ug/L	<2.00	2.00	
Benzo(a)anthracene	ug/L	<2.00	2.00	
Benzo(a)pyrene	ug/L	<2.00	2.00	
Benzo(b)fluoranthene	ug/L	<2.00	2.00	
Benzo(g,h,i)perylene	ug/L	<4.00	4.00	
Benzo(k)fluoranthene	ug/L	<2.00	2.00	
Chrysene	ug/L	<2.00	2.00	
Dibenz(a,h)anthracene	ug/L	<4.00	4.00	
Fluoranthene	ug/L	<2.00	2.00	
Fluorene	ug/L	<2.00	2.00	
Indeno(1,2,3-cd)pyrene	ug/L	<4.00	4.00	
Naphthalene	ug/L	<2.00	2.00	
Phenanthrene	ug/L	<2.00	2.00	
Pyrene	ug/L	<4.00	4.00	
2,4,6-Tribromophenol (S)	%	38.8	30 - 124	
2-Fluorobiphenyl (S)	%	56.2	42 - 143	
2-Fluorophenol (S)	%	19.1	17 - 121	
Nitrobenzene-d5 (S)	%	52.8	28 - 116	
Phenol-d5 (S)	%	22.5	27 - 112	
Terphenyl-d14 (S)	%	46.6	23 - 150	

LABORATORY CONTROL SAMPLE: 180826

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max Qualifi
Acenaphthene	ug/L	20	10	10.7	50	53.7	45 - 103	6.76	30
Acenaphthylene	ug/L	20	10.1	10.8	50.4	54	39.9 - 123	6.7	30
Anthracene	ug/L	20	11.3	12	56.5	60	45.7 - 132	6.01	30
Benzo(a)anthracene	ug/L	20	11.3	11.9	56.4	59.3	65 - 135	5.17	30
Benzo(a)pyrene	ug/L	20	7.93	8.49	39.6	42.4	65 - 135	6.82	30
Benzo(b)fluoranthene	ug/L	20	7.32	7.84	36.6	39.2	65 - 135	6.86	30
Benzo(g,h,i)perylene	ug/L	20	7.76	8.24	38.8	41.2	65 - 135	6	30
Benzo(k)fluoranthene	ug/L	20	8.52	8.91	42.6	44.6	65 - 135	4.48	30
Chrysene	ug/L	20	12	13	59.9	64.9	44.1 - 144	8	30
Dibenz(a,h)anthracene	ug/L	20	8	8.1	40	40.5	65 - 135	1.24	30
Fluoranthene	ug/L	20	13.3	14.5	66.7	72.5	65 - 135	8.63	30

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QUALITY CONTROL DATA

Workorder: Q1313611

LABORATORY CONTROL SAMPLE: 180826

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max Qualifi
<i>Fluorene</i>	ug/L	20	10.8	11.4	53.9	57.2	65 - 135	5.41	30
<i>Indeno(1,2,3-cd)pyrene</i>	ug/L	20	7.56	8.05	37.8	40.2	65 - 135	6.28	30
<i>Naphthalene</i>	ug/L	20	9.78	10.8	48.9	53.8	65 - 135	9.91	30
Phenanthrene	ug/L	20	11	11.6	55.1	58.2	39.9 - 122	5.31	30
<i>Pyrene</i>	ug/L	20	7.35	7.59	36.8	38	65 - 135	3.21	30
2,4,6-Tribromophenol (S)	%				44	40.1	30 - 124		
2-Fluorobiphenyl (S)	%				53	55.5	42 - 143		
2-Fluorophenol (S)	%				27.2	23.6	17 - 121		
Nitrobenzene-d5 (S)	%				52.5	55.5	28 - 116		
Phenol-d5 (S)	%				39.2	32.2	27 - 112		
Terphenyl-d14 (S)	%				43	44.4	23 - 150		

MATRIX SPIKE: Q1313747003 DUPLICATE: 180245 ORIGINAL: Q1313747002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	0	95.1	58.2	61.1	61.2	63.5	45 - 103	4.86	30	
Acenaphthylene	ug/L	0	95.1	54.8	57.1	57.6	59.4	39.9 - 123	4.11	30	
Anthracene	ug/L	0	95.1	58.7	61.3	61.7	63.8	45.7 - 132	4.33	30	
<i>Benzo(a)anthracene</i>	ug/L	0	95.1	58.2	61.8	61.2	64.2	65 - 135	6	30	
<i>Benzo(a)pyrene</i>	ug/L	0	95.1	39.9	41.5	42	43.2	65 - 135	3.93	30	
<i>Benzo(b)fluoranthene</i>	ug/L	0	95.1	37	38.8	38.9	40.4	65 - 135	4.75	30	
<i>Benzo(g,h,i)perylene</i>	ug/L	0	95.1	36	40	37.8	41.6	65 - 135	10.5	30	
<i>Benzo(k)fluoranthene</i>	ug/L	0	95.1	42	41.7	44.2	43.4	65 - 135	.717	30	
Chrysene	ug/L	0	95.1	55.9	58.7	58.8	61	44.1 - 144	4.89	30	
<i>Dibenz(a,h)anthracene</i>	ug/L	0	95.1	38	41.9	40	43.6	65 - 135	9.76	30	
Fluoranthene	ug/L	0	95.1	70.1	77.6	73.7	80.7	65 - 135	10.2	30	
<i>Fluorene</i>	ug/L	0	95.1	60	61.9	63	64.4	65 - 135	3.12	30	
<i>Indeno(1,2,3-cd)pyrene</i>	ug/L	0	95.1	36.8	41.5	38.7	43.2	65 - 135	12	30	
<i>Naphthalene</i>	ug/L	0	95.1	58.5	61.2	61.4	63.7	65 - 135	4.51	30	
Phenanthrene	ug/L	0	95.1	56	58.1	58.8	60.4	39.9 - 122	3.68	30	
<i>Pyrene</i>	ug/L	0	95.1	51	47.9	53.6	49.8	65 - 135	6.27	30	
2,4,6-Tribromophenol (S)	%					45.8	56.9	30 - 124			
2-Fluorobiphenyl (S)	%					60.9	63.8	42 - 143			
2-Fluorophenol (S)	%					31.7	43	17 - 121			
Nitrobenzene-d5 (S)	%					59.4	61.1	28 - 116			
Phenol-d5 (S)	%					42.7	51.6	27 - 112			
Terphenyl-d14 (S)	%					52.4	48.7	23 - 150			



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: Q1313611

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
Q1313611001	CRCP-221049-090	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313611002	CRCP-HOLWEGER-090	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313611003	CRCP-5852213-090	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313611004	CRCP-WISIANW1-090	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313611005	CRCP-WISIANW2-090	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313611006	CRCP-58522-090	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313611007	CRCP-58522-091	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313611001	CRCP-221049-090	TX1005	OEXT/1669	TX1005	ORG/1738
Q1313611002	CRCP-HOLWEGER-090	TX1005	OEXT/1669	TX1005	ORG/1738
Q1313611003	CRCP-5852213-090	TX1005	OEXT/1669	TX1005	ORG/1738
Q1313611004	CRCP-WISIANW1-090	TX1005	OEXT/1669	TX1005	ORG/1738
Q1313611005	CRCP-WISIANW2-090	TX1005	OEXT/1669	TX1005	ORG/1738
Q1313611006	CRCP-58522-090	TX1005	OEXT/1669	TX1005	ORG/1738
Q1313611007	CRCP-58522-091	TX1005	OEXT/1669	TX1005	ORG/1738



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February 10, 2014

KEVIN PASTERNAK
URS CORPORATION
9400 AMBERGLEN BOULEVARD
Austin, TX 78729

RE: Final Analytical Report
ELS Workorder Q1313747

Attn: KEVIN PASTERNAK

Enclosed are the analytical results for sample(s) received by LCRA Environmental Laboratory Services. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report.

Thank you for selecting ELS for your analytical needs. If you have any questions concerning this report, please feel free to contact us at (512) 356-6022. We look forward to assisting you again.

Authorized for release by:

Ariana Dean
Project Manager

Enclosures



T104704218-13-8

Report ID: 69954 - 597615

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SAMPLE SUMMARY

Workorder: Q1313747

Lab ID	Sample ID	Matrix	Date Collected	Date Received
Q1313747001	CRCP-NTNW2-90	Aqueous	11/19/2013 09:10	11/19/2013
Q1313747002	CRCP-ATF1-93	Aqueous	11/19/2013 09:50	11/19/2013
Q1313747005	CRCP-WISIANW2-095	Aqueous	11/19/2013 10:30	11/19/2013
Q1313747006	CRCP-5852314-090	Aqueous	11/19/2013 11:05	11/19/2013
Q1313747007	CRCP-BUCCHEIT-090	Aqueous	11/19/2013 11:35	11/19/2013



ANALYTICAL RESULTS

Workorder: Q1313747

Lab ID: **Q1313747001** Date Received: 11/19/2013 Matrix: Aqueous
 Sample ID: **CRCP-NTNW2-90** Date Collected: 11/19/2013 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Acenaphthylene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Acenaphthene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Fluorene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Phenanthrene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Anthracene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Fluoranthene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Pyrene	<3.81 ug/L	3.81	9.53		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Benzo(a)anthracene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Chrysene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Benzo(k)fluoranthene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Benzo(b)fluoranthene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Benzo(a)pyrene	<1.91 ug/L	1.91	4.77		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Indeno(1,2,3-cd)pyrene	<3.81 ug/L	3.81	9.53		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Dibenz(a,h)anthracene	<3.81 ug/L	3.81	9.53		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Benzo(g,h,i)perylene	<3.81 ug/L	3.81	14.3		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Nitrobenzene-d5 (S)	56.40 %		28 - 116		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
2-Fluorobiphenyl (S)	58.65 %		42 - 143		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	
Terphenyl-d14 (S)	43.4 %		23 - 150		1	11/20/13 10:00:00	NW	11/25/13 21:00:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.88 mg/L	1.88	4.71		1	11/21/13 10:20:00	MH	11/22/13 03:47:40	EM	N
>C12-C28	<1.88 mg/L	1.88	4.71		1	11/21/13 10:20:00	MH	11/22/13 03:47:40	EM	N
>C28-C35	<1.88 mg/L	1.88	4.71		1	11/21/13 10:20:00	MH	11/22/13 03:47:40	EM	N
C6-C35	<4.71 mg/L	4.71	4.71		1	11/21/13 10:20:00	MH	11/22/13 03:47:40	EM	
a,a,a-Trifluorotoluene (S)	87.5 %		70 - 130			11/21/13 10:20:00	MH	11/22/13 03:47:40	EM	
o-Terphenyl (S)	75 %		70 - 130			11/21/13 10:20:00	MH	11/22/13 03:47:40	EM	

ANALYTICAL RESULTS

Workorder: Q1313747

Lab ID: **Q1313747002** Date Received: 11/19/2013 Matrix: Aqueous
Sample ID: **CRCP-ATF1-93** Date Collected: 11/19/2013 Sample Type: SAMPLE
Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Acenaphthylene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Acenaphthene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Fluorene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Phenanthrene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Anthracene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Fluoranthene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Pyrene	<3.93 ug/L	3.93	9.83		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Benzo(a)anthracene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Chrysene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Benzo(k)fluoranthene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Benzo(b)fluoranthene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Benzo(a)pyrene	<1.97 ug/L	1.97	4.92		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Indeno(1,2,3-cd)pyrene	<3.93 ug/L	3.93	9.83		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Dibenz(a,h)anthracene	<3.93 ug/L	3.93	9.83		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Benzo(g,h,i)perylene	<3.93 ug/L	3.93	14.7		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Nitrobenzene-d5 (S)	61.4 %		28 - 116		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
2-Fluorobiphenyl (S)	64.9 %		42 - 143		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	
Terphenyl-d14 (S)	65.0 %		23 - 150		1	11/20/13 10:00:00	NW	11/25/13 21:34:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.90 mg/L	1.90	4.74		1	11/21/13 10:20:00	MH	11/22/13 04:25:41	EM	N
>C12-C28	<1.90 mg/L	1.90	4.74		1	11/21/13 10:20:00	MH	11/22/13 04:25:41	EM	N
>C28-C35	<1.90 mg/L	1.90	4.74		1	11/21/13 10:20:00	MH	11/22/13 04:25:41	EM	N
C6-C35	<4.74 mg/L	4.74	4.74		1	11/21/13 10:20:00	MH	11/22/13 04:25:41	EM	
a,a,a-Trifluorotoluene (S)	88.1 %		70 - 130			11/21/13 10:20:00	MH	11/22/13 04:25:41	EM	
o-Terphenyl (S)	68.9 %		70 - 130			11/21/13 10:20:00	MH	11/22/13 04:25:41	EM	

Report ID: 69954 - 597615

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ANALYTICAL RESULTS

Workorder: Q1313747

Lab ID: **Q1313747005** Date Received: 11/19/2013 Matrix: Aqueous
 Sample ID: **CRCP-WISIANW2-095** Date Collected: 11/19/2013 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Acenaphthylene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Acenaphthene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Fluorene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Phenanthrene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Anthracene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Fluoranthene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Pyrene	<4.16 ug/L	4.16	10.4		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Benzo(a)anthracene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Chrysene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Benzo(k)fluoranthene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Benzo(b)fluoranthene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Benzo(a)pyrene	<2.08 ug/L	2.08	5.20		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Indeno(1,2,3-cd)pyrene	<4.16 ug/L	4.16	10.4		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Dibenz(a,h)anthracene	<4.16 ug/L	4.16	10.4		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Benzo(g,h,i)perylene	<4.16 ug/L	4.16	15.6		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Nitrobenzene-d5 (S)	59.5 %		28 - 116		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
2-Fluorobiphenyl (S)	60.9 %		42 - 143		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	
Terphenyl-d14 (S)	47.7 %		23 - 150		1	11/20/13 10:00:00	NW	11/25/13 23:15:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.90 mg/L	1.90	4.75		1	11/21/13 10:20:00	MH	11/22/13 06:19:07	EM	N
>C12-C28	<1.90 mg/L	1.90	4.75		1	11/21/13 10:20:00	MH	11/22/13 06:19:07	EM	N
>C28-C35	<1.90 mg/L	1.90	4.75		1	11/21/13 10:20:00	MH	11/22/13 06:19:07	EM	N
C6-C35	<4.75 mg/L	4.75	4.75		1	11/21/13 10:20:00	MH	11/22/13 06:19:07	EM	
a,a,a-Trifluorotoluene (S)	87.7 %		70 - 130			11/21/13 10:20:00	MH	11/22/13 06:19:07	EM	
o-Terphenyl (S)	73.7 %		70 - 130			11/21/13 10:20:00	MH	11/22/13 06:19:07	EM	



ANALYTICAL RESULTS

Workorder: Q1313747

Lab ID: **Q1313747006** Date Received: 11/19/2013 Matrix: Aqueous
 Sample ID: **CRCP-5852314-090** Date Collected: 11/19/2013 11:05 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Acenaphthylene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Acenaphthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Fluorene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Phenanthrene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Anthracene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Fluoranthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Pyrene	<3.81 ug/L	3.81	9.52		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Benzo(a)anthracene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Chrysene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Benzo(k)fluoranthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Benzo(b)fluoranthene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Benzo(a)pyrene	<1.90 ug/L	1.90	4.76		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Indeno(1,2,3-cd)pyrene	<3.81 ug/L	3.81	9.52		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Dibenz(a,h)anthracene	<3.81 ug/L	3.81	9.52		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Benzo(g,h,i)perylene	<3.81 ug/L	3.81	14.3		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Nitrobenzene-d5 (S)	48.5 %		28 - 116		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
2-Fluorobiphenyl (S)	52.7 %		42 - 143		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	
Terphenyl-d14 (S)	47.7 %		23 - 150		1	11/20/13 10:00:00	NW	11/25/13 23:48:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.88 mg/L	1.88	4.71		1	11/21/13 10:20:00	MH	11/22/13 06:56:55	EM	N
>C12-C28	<1.88 mg/L	1.88	4.71		1	11/21/13 10:20:00	MH	11/22/13 06:56:55	EM	N
>C28-C35	<1.88 mg/L	1.88	4.71		1	11/21/13 10:20:00	MH	11/22/13 06:56:55	EM	N
C6-C35	<4.71 mg/L	4.71	4.71		1	11/21/13 10:20:00	MH	11/22/13 06:56:55	EM	
a,a,a-Trifluorotoluene (S)	89.8 %		70 - 130			11/21/13 10:20:00	MH	11/22/13 06:56:55	EM	
o-Terphenyl (S)	77.3 %		70 - 130			11/21/13 10:20:00	MH	11/22/13 06:56:55	EM	



ANALYTICAL RESULTS

Workorder: Q1313747

Lab ID: **Q1313747007** Date Received: 11/19/2013 Matrix: Aqueous
 Sample ID: **CRCP-BUCHEIT-090** Date Collected: 11/19/2013 11:35 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: SW-846 8270C		Preparation Method: SW3520C, Liquid/Liquid Extract								
		Analytical Method: SW-846 8270C								
Naphthalene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Acenaphthylene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Acenaphthene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Fluorene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Phenanthrene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Anthracene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Fluoranthene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Pyrene	<3.77 ug/L	3.77	9.42		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Benzo(a)anthracene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Chrysene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Benzo(k)fluoranthene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Benzo(b)fluoranthene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Benzo(a)pyrene	<1.88 ug/L	1.88	4.71		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Indeno(1,2,3-cd)pyrene	<3.77 ug/L	3.77	9.42		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Dibenz(a,h)anthracene	<3.77 ug/L	3.77	9.42		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Benzo(g,h,i)perylene	<3.77 ug/L	3.77	14.1		1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Nitrobenzene-d5 (S)	57.7 %			28 - 116	1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
2-Fluorobiphenyl (S)	60.7 %			42 - 143	1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	
Terphenyl-d14 (S)	50.9 %			23 - 150	1	11/20/13 10:00:00	NW	11/26/13 00:22:00	CO	

Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.89 mg/L	1.89	4.73		1	11/21/13 10:20:00	MH	11/22/13 07:34:36	EM	N
>C12-C28	<1.89 mg/L	1.89	4.73		1	11/21/13 10:20:00	MH	11/22/13 07:34:36	EM	N
>C28-C35	<1.89 mg/L	1.89	4.73		1	11/21/13 10:20:00	MH	11/22/13 07:34:36	EM	N
C6-C35	<4.73 mg/L	4.73	4.73		1	11/21/13 10:20:00	MH	11/22/13 07:34:36	EM	
a,a,a-Trifluorotoluene (S)	74.1 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 07:34:36	EM	
o-Terphenyl (S)	75.1 %			70 - 130		11/21/13 10:20:00	MH	11/22/13 07:34:36	EM	



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ANALYTICAL RESULTS QUALIFIERS

Workorder: Q1313747

PARAMETER QUALIFIERS

Lab ID: Q1313747001
N Not Accredited

Lab ID: Q1313747002
N Not Accredited

Lab ID: Q1313747005
N Not Accredited

Lab ID: Q1313747006
N Not Accredited

Lab ID: Q1313747007
N Not Accredited



QUALITY CONTROL DATA

Workorder: Q1313747

QC Batch: OEXT/1666 **Analysis Method:** SW-846 8270C
QC Batch Method: SW3520C, Liquid/Liquid Extract
Associated Lab Samples: Q1313747001, Q1313747002, Q1313747003, Q1313747004, Q1313747005, Q1313747006, Q1313747007

METHOD BLANK: 180825

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Acenaphthene	ug/L	<2.00	2.00	
Acenaphthylene	ug/L	<2.00	2.00	
Anthracene	ug/L	<2.00	2.00	
Benzo(a)anthracene	ug/L	<2.00	2.00	
Benzo(a)pyrene	ug/L	<2.00	2.00	
Benzo(b)fluoranthene	ug/L	<2.00	2.00	
Benzo(g,h,i)perylene	ug/L	<4.00	4.00	
Benzo(k)fluoranthene	ug/L	<2.00	2.00	
Chrysene	ug/L	<2.00	2.00	
Dibenz(a,h)anthracene	ug/L	<4.00	4.00	
Fluoranthene	ug/L	<2.00	2.00	
Fluorene	ug/L	<2.00	2.00	
Indeno(1,2,3-cd)pyrene	ug/L	<4.00	4.00	
Naphthalene	ug/L	<2.00	2.00	
Phenanthrene	ug/L	<2.00	2.00	
Pyrene	ug/L	<4.00	4.00	
2,4,6-Tribromophenol (S)	%	38.8	30 - 124	
2-Fluorobiphenyl (S)	%	56.2	42 - 143	
2-Fluorophenol (S)	%	19.1	17 - 121	
Nitrobenzene-d5 (S)	%	52.8	28 - 116	
Phenol-d5 (S)	%	22.5	27 - 112	
Terphenyl-d14 (S)	%	46.6	23 - 150	

LABORATORY CONTROL SAMPLE: 180826

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max Qualifi
Acenaphthene	ug/L	20	10	10.7	50	53.7	45 - 103	6.76	30
Acenaphthylene	ug/L	20	10.1	10.8	50.4	54	39.9 - 123	6.7	30
Anthracene	ug/L	20	11.3	12	56.5	60	45.7 - 132	6.01	30
Benzo(a)anthracene	ug/L	20	11.3	11.9	56.4	59.3	65 - 135	5.17	30
Benzo(a)pyrene	ug/L	20	7.93	8.49	39.6	42.4	65 - 135	6.82	30
Benzo(b)fluoranthene	ug/L	20	7.32	7.84	36.6	39.2	65 - 135	6.86	30
Benzo(g,h,i)perylene	ug/L	20	7.76	8.24	38.8	41.2	65 - 135	6	30
Benzo(k)fluoranthene	ug/L	20	8.52	8.91	42.6	44.6	65 - 135	4.48	30
Chrysene	ug/L	20	12	13	59.9	64.9	44.1 - 144	8	30
Dibenz(a,h)anthracene	ug/L	20	8	8.1	40	40.5	65 - 135	1.24	30
Fluoranthene	ug/L	20	13.3	14.5	66.7	72.5	65 - 135	8.63	30

QUALITY CONTROL DATA

Workorder: Q1313747

LABORATORY CONTROL SAMPLE: 180826

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max Qualifi
<i>Fluorene</i>	ug/L	20	10.8	11.4	53.9	57.2	65 - 135	5.41	30
<i>Indeno(1,2,3-cd)pyrene</i>	ug/L	20	7.56	8.05	37.8	40.2	65 - 135	6.28	30
<i>Naphthalene</i>	ug/L	20	9.78	10.8	48.9	53.8	65 - 135	9.91	30
Phenanthrene	ug/L	20	11	11.6	55.1	58.2	39.9 - 122	5.31	30
<i>Pyrene</i>	ug/L	20	7.35	7.59	36.8	38	65 - 135	3.21	30
2,4,6-Tribromophenol (S)	%				44	40.1	30 - 124		
2-Fluorobiphenyl (S)	%				53	55.5	42 - 143		
2-Fluorophenol (S)	%				27.2	23.6	17 - 121		
Nitrobenzene-d5 (S)	%				52.5	55.5	28 - 116		
Phenol-d5 (S)	%				39.2	32.2	27 - 112		
Terphenyl-d14 (S)	%				43	44.4	23 - 150		

MATRIX SPIKE: Q1313747003 DUPLICATE: 180245 ORIGINAL: Q1313747002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	0	95.1	58.2	61.1	61.2	63.5	45 - 103	4.86	30	
Acenaphthylene	ug/L	0	95.1	54.8	57.1	57.6	59.4	39.9 - 123	4.11	30	
Anthracene	ug/L	0	95.1	58.7	61.3	61.7	63.8	45.7 - 132	4.33	30	
<i>Benzo(a)anthracene</i>	ug/L	0	95.1	58.2	61.8	61.2	64.2	65 - 135	6	30	
<i>Benzo(a)pyrene</i>	ug/L	0	95.1	39.9	41.5	42	43.2	65 - 135	3.93	30	
<i>Benzo(b)fluoranthene</i>	ug/L	0	95.1	37	38.8	38.9	40.4	65 - 135	4.75	30	
<i>Benzo(g,h,i)perylene</i>	ug/L	0	95.1	36	40	37.8	41.6	65 - 135	10.5	30	
<i>Benzo(k)fluoranthene</i>	ug/L	0	95.1	42	41.7	44.2	43.4	65 - 135	.717	30	
Chrysene	ug/L	0	95.1	55.9	58.7	58.8	61	44.1 - 144	4.89	30	
<i>Dibenz(a,h)anthracene</i>	ug/L	0	95.1	38	41.9	40	43.6	65 - 135	9.76	30	
Fluoranthene	ug/L	0	95.1	70.1	77.6	73.7	80.7	65 - 135	10.2	30	
<i>Fluorene</i>	ug/L	0	95.1	60	61.9	63	64.4	65 - 135	3.12	30	
<i>Indeno(1,2,3-cd)pyrene</i>	ug/L	0	95.1	36.8	41.5	38.7	43.2	65 - 135	12	30	
<i>Naphthalene</i>	ug/L	0	95.1	58.5	61.2	61.4	63.7	65 - 135	4.51	30	
Phenanthrene	ug/L	0	95.1	56	58.1	58.8	60.4	39.9 - 122	3.68	30	
<i>Pyrene</i>	ug/L	0	95.1	51	47.9	53.6	49.8	65 - 135	6.27	30	
2,4,6-Tribromophenol (S)	%					45.8	56.9	30 - 124			
2-Fluorobiphenyl (S)	%					60.9	63.8	42 - 143			
2-Fluorophenol (S)	%					31.7	43	17 - 121			
Nitrobenzene-d5 (S)	%					59.4	61.1	28 - 116			
Phenol-d5 (S)	%					42.7	51.6	27 - 112			
Terphenyl-d14 (S)	%					52.4	48.7	23 - 150			



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: Q1313747

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
Q1313747001	CRCP-NTNW2-90	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313747002	CRCP-ATF1-93	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313747005	CRCP-WISIANW2-095	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313747006	CRCP-5852314-090	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313747007	CRCP-BUCHEIT-090	SW3520C, Liquid/Liquid Extract	OEXT/1666	SW-846 8270C	ORG/1742
Q1313747001	CRCP-NTNW2-90	TX1005	OEXT/1669	TX1005	ORG/1738
Q1313747002	CRCP-ATF1-93	TX1005	OEXT/1669	TX1005	ORG/1738
Q1313747005	CRCP-WISIANW2-095	TX1005	OEXT/1669	TX1005	ORG/1738
Q1313747006	CRCP-5852314-090	TX1005	OEXT/1669	TX1005	ORG/1738
Q1313747007	CRCP-BUCHEIT-090	TX1005	OEXT/1669	TX1005	ORG/1738



LCRA ENVIRONMENTAL LABORATORY SERVICES (ELS) CHAIN OF CUSTODY RECORD

Target Due Date: _____
 Work Order No.: Q1405184
 COC No.: _____
 Page 1 of 2

NOTE: Relinquishing sample(s) to ELS obligates the submitter to all Standard Terms and Conditions stated on the back of this form.

Results To: Kevin Pasternak 9400 Amberglen Blvd Austin TX 78729 Sampled By: Kevin Pasternak/Liz Rinehart
 Bill To: URS Corp PO No.: _____
 Phone No.: 512-419-5293 Fax No.: 512-454-8807 Method of Transport: hand deliver TAT Requested: _____ Working days E-mail: kevin.pasternak@urs.com
 Relinquished By: Thot Pit Date: 2/17/14 Time: 1251 Received By: _____ Date: _____ Time: _____ Relinquished By: _____ Date: _____ Time: _____

Report Requirements: Hardcopy E-mail Fax
 Regulatory Requirements: None NELAP _____
 Received at ELS By: [Signature] Date: 2/17/14 Time: 1251 ELS Mgmt. Approval for RUSH: _____
 Received on Ice Temp: 2.7°C on 2.72°C Sally RUSH 2/19/14
 Login Review: _____ Date: _____ Surcharge for RUSH: _____%

ELS ID:	SAMPLE DESCRIPTION Custody Seals (circle): Cooler Bottles None	MATRIX	SAMPLE COLLECTION		CONTAINERS			ANALYSIS REQUESTED - Place an "x" in the box below to indicate request.										PRESERVATIVES	pH					
			DATE	TIME	NUMBER	SIZE	TYPE	/																
001	CRCP-Wisian W2-100	W	2/18/14	1550	5	40ml	1L	VDA	4mbot	X	X												Sodium bisulfite + none	
002	CRCP-Wisian W1-105			1510																				
003	CRCP-Wisian W1-100			1455																				
004	CRCP-5852213-100			1245																				
005	CRCP-NTNW2-100			1010																				
006	CRCP-ATF1-100			1055																				
007	CRCP-Holweyer-100		2/19/14	0940																				
008	CRCP-221049-100			0900																				
009	CRCP-5852314-100			1027																				
010	CRCP-Buchheit-100			1155																				

Special Instructions: Hold SW8270C samples until TPH samples are analyzed.
 ELS Comments: Please notify PM when TPH results are f





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March 3, 2014

KEVIN PASTERNAK
URS CORPORATION
9400 AMBERGLEN BOULEVARD
Austin, TX 78729

RE: Final Analytical Report
ELS Workorder Q1405184

Attn: KEVIN PASTERNAK

Enclosed are the analytical results for sample(s) received by LCRA Environmental Laboratory Services. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report.

Thank you for selecting ELS for your analytical needs. If you have any questions concerning this report, please feel free to contact us at (512) 356-6022. We look forward to assisting you again.

Authorized for release by:

Ariana Dean
Project Manager

Enclosures



T104704218-14-9

Report ID: 81179 - 722255

Page 1 of 16

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SAMPLE SUMMARY

Workorder: Q1405184

Lab ID	Sample ID	Matrix	Date Collected	Date Received
Q1405184001	CRCP-WISAN W2-100	Aqueous	2/18/2014 15:50	2/19/2014
Q1405184002	CRCP-WISAN W1-105	Aqueous	2/18/2014 15:10	2/19/2014
Q1405184003	CRCP-WISAN W1-100	Aqueous	2/18/2014 14:55	2/19/2014
Q1405184004	CRCP-5852213-100	Aqueous	2/18/2014 12:45	2/19/2014
Q1405184005	CRCP-NTNW2-100	Aqueous	2/18/2014 10:10	2/19/2014
Q1405184006	CRCP-ATF1-100	Aqueous	2/18/2014 10:55	2/19/2014
Q1405184007	CRCP-HOLWEYER-100	Aqueous	2/19/2014 09:40	2/19/2014
Q1405184008	CRCP-221049-100	Aqueous	2/19/2014 09:00	2/19/2014
Q1405184009	CRCP-5852314-100	Aqueous	2/19/2014 10:27	2/19/2014
Q1405184010	CRCP-BUCHHEIT-100	Aqueous	2/19/2014 11:55	2/19/2014
Q1405184011	CRCP-BUCHHEIT-101	Aqueous	2/19/2014 11:55	2/19/2014



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ANALYTICAL RESULTS

Workorder: Q1405184

Lab ID: **Q1405184001** Date Received: 2/19/2014 12:51 Matrix: Aqueous
 Sample ID: **CRCP-WISAN W2-100** Date Collected: 2/18/2014 15:50 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.86 mg/L	1.86	4.65		1	02/19/14 13:30:00 MO		02/19/14 20:50:51 EM		N
>C12-C28	<1.86 mg/L	1.86	4.65		1	02/19/14 13:30:00 MO		02/19/14 20:50:51 EM		N
>C28-C35	<1.86 mg/L	1.86	4.65		1	02/19/14 13:30:00 MO		02/19/14 20:50:51 EM		N
C6-C35	<4.65 mg/L	4.65	4.65		1	02/19/14 13:30:00 MO		02/19/14 20:50:51 EM		
a,a,a-Trifluorotoluene (S)	85.2 %			70 - 130		02/19/14 13:30:00 MO		02/19/14 20:50:51 EM		
o-Terphenyl (S)	80.2 %			70 - 130		02/19/14 13:30:00 MO		02/19/14 20:50:51 EM		



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ANALYTICAL RESULTS

Workorder: Q1405184

Lab ID: **Q1405184002** Date Received: 2/19/2014 12:51 Matrix: Aqueous
 Sample ID: **CRCP-WISAN W1-105** Date Collected: 2/18/2014 15:10 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.85 mg/L	1.85	4.63		1	02/19/14 13:30:00 MO		02/19/14 22:48:35 EM		N
>C12-C28	<1.85 mg/L	1.85	4.63		1	02/19/14 13:30:00 MO		02/19/14 22:48:35 EM		N
>C28-C35	<1.85 mg/L	1.85	4.63		1	02/19/14 13:30:00 MO		02/19/14 22:48:35 EM		N
C6-C35	<4.63 mg/L	4.63	4.63		1	02/19/14 13:30:00 MO		02/19/14 22:48:35 EM		
a,a,a-Trifluorotoluene (S)	87.3 %			70 - 130		02/19/14 13:30:00 MO		02/19/14 22:48:35 EM		
o-Terphenyl (S)	80.6 %			70 - 130		02/19/14 13:30:00 MO		02/19/14 22:48:35 EM		



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ANALYTICAL RESULTS

Workorder: Q1405184

Lab ID: **Q1405184003** Date Received: 2/19/2014 12:51 Matrix: Aqueous
 Sample ID: **CRCP-WISAN W1-100** Date Collected: 2/18/2014 14:55 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.83 mg/L	1.83	4.58		1	02/19/14 13:30:00 MO		02/19/14 23:27:54 EM		N
>C12-C28	<1.83 mg/L	1.83	4.58		1	02/19/14 13:30:00 MO		02/19/14 23:27:54 EM		N
>C28-C35	<1.83 mg/L	1.83	4.58		1	02/19/14 13:30:00 MO		02/19/14 23:27:54 EM		N
C6-C35	<4.58 mg/L	4.58	4.58		1	02/19/14 13:30:00 MO		02/19/14 23:27:54 EM		
a,a,a-Trifluorotoluene (S)	83.5 %		70 - 130			02/19/14 13:30:00 MO		02/19/14 23:27:54 EM		
o-Terphenyl (S)	78.4 %		70 - 130			02/19/14 13:30:00 MO		02/19/14 23:27:54 EM		



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ANALYTICAL RESULTS

Workorder: Q1405184

Lab ID: **Q1405184004** Date Received: 2/19/2014 12:51 Matrix: Aqueous
 Sample ID: **CRCP-5852213-100** Date Collected: 2/18/2014 12:45 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.82 mg/L	1.82	4.55		1	02/19/14 13:30:00 MO		02/20/14 00:07:10 EM		N
>C12-C28	<1.82 mg/L	1.82	4.55		1	02/19/14 13:30:00 MO		02/20/14 00:07:10 EM		N
>C28-C35	<1.82 mg/L	1.82	4.55		1	02/19/14 13:30:00 MO		02/20/14 00:07:10 EM		N
C6-C35	<4.55 mg/L	4.55	4.55		1	02/19/14 13:30:00 MO		02/20/14 00:07:10 EM		
a,a,a-Trifluorotoluene (S)	87.6 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 00:07:10 EM		
o-Terphenyl (S)	86.5 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 00:07:10 EM		



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ANALYTICAL RESULTS

Workorder: Q1405184

Lab ID: **Q1405184005** Date Received: 2/19/2014 12:51 Matrix: Aqueous
 Sample ID: **CRCP-NTNW2-100** Date Collected: 2/18/2014 10:10 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.85 mg/L	1.85	4.63		1	02/19/14 13:30:00 MO		02/20/14 00:46:27 EM		N
>C12-C28	<1.85 mg/L	1.85	4.63		1	02/19/14 13:30:00 MO		02/20/14 00:46:27 EM		N
>C28-C35	<1.85 mg/L	1.85	4.63		1	02/19/14 13:30:00 MO		02/20/14 00:46:27 EM		N
C6-C35	<4.63 mg/L	4.63	4.63		1	02/19/14 13:30:00 MO		02/20/14 00:46:27 EM		
a,a,a-Trifluorotoluene (S)	88.7 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 00:46:27 EM		
o-Terphenyl (S)	80.7 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 00:46:27 EM		



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ANALYTICAL RESULTS

Workorder: Q1405184

Lab ID: **Q1405184006** Date Received: 2/19/2014 12:51 Matrix: Aqueous
 Sample ID: **CRCP-ATF1-100** Date Collected: 2/18/2014 10:55 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.82 mg/L	1.82	4.56		1	02/19/14 13:30:00 MO		02/20/14 01:25:45 EM		N
>C12-C28	<1.82 mg/L	1.82	4.56		1	02/19/14 13:30:00 MO		02/20/14 01:25:45 EM		N
>C28-C35	<1.82 mg/L	1.82	4.56		1	02/19/14 13:30:00 MO		02/20/14 01:25:45 EM		N
C6-C35	<4.56 mg/L	4.56	4.56		1	02/19/14 13:30:00 MO		02/20/14 01:25:45 EM		
a,a,a-Trifluorotoluene (S)	86.2 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 01:25:45 EM		
o-Terphenyl (S)	82.7 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 01:25:45 EM		



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ANALYTICAL RESULTS

Workorder: Q1405184

Lab ID: **Q1405184007** Date Received: 2/19/2014 12:51 Matrix: Aqueous
 Sample ID: **CRCP-HOLWEYER-100** Date Collected: 2/19/2014 09:40 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.86 mg/L	1.86	4.64		1	02/19/14 13:30:00 MO		02/20/14 02:05:01 EM		N
>C12-C28	<1.86 mg/L	1.86	4.64		1	02/19/14 13:30:00 MO		02/20/14 02:05:01 EM		N
>C28-C35	<1.86 mg/L	1.86	4.64		1	02/19/14 13:30:00 MO		02/20/14 02:05:01 EM		N
C6-C35	<4.64 mg/L	4.64	4.64		1	02/19/14 13:30:00 MO		02/20/14 02:05:01 EM		
a,a,a-Trifluorotoluene (S)	90.6 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 02:05:01 EM		
o-Terphenyl (S)	84.5 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 02:05:01 EM		



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ANALYTICAL RESULTS

Workorder: Q1405184

Lab ID: **Q1405184008** Date Received: 2/19/2014 12:51 Matrix: Aqueous
 Sample ID: **CRCP-221049-100** Date Collected: 2/19/2014 09:00 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.88 mg/L	1.88	4.71		1	02/19/14 13:30:00 MO		02/20/14 02:44:18 EM		N
>C12-C28	<1.88 mg/L	1.88	4.71		1	02/19/14 13:30:00 MO		02/20/14 02:44:18 EM		N
>C28-C35	<1.88 mg/L	1.88	4.71		1	02/19/14 13:30:00 MO		02/20/14 02:44:18 EM		N
C6-C35	<4.71 mg/L	4.71	4.71		1	02/19/14 13:30:00 MO		02/20/14 02:44:18 EM		
a,a,a-Trifluorotoluene (S)	71 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 02:44:18 EM		
o-Terphenyl (S)	77.7 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 02:44:18 EM		



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ANALYTICAL RESULTS

Workorder: Q1405184

Lab ID: **Q1405184009** Date Received: 2/19/2014 12:51 Matrix: Aqueous
 Sample ID: **CRCP-5852314-100** Date Collected: 2/19/2014 10:27 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.83 mg/L	1.83	4.58		1	02/19/14 13:30:00 MO		02/20/14 03:23:47 EM		N
>C12-C28	<1.83 mg/L	1.83	4.58		1	02/19/14 13:30:00 MO		02/20/14 03:23:47 EM		N
>C28-C35	<1.83 mg/L	1.83	4.58		1	02/19/14 13:30:00 MO		02/20/14 03:23:47 EM		N
C6-C35	<4.58 mg/L	4.58	4.58		1	02/19/14 13:30:00 MO		02/20/14 03:23:47 EM		
a,a,a-Trifluorotoluene (S)	84.7 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 03:23:47 EM		
o-Terphenyl (S)	78.8 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 03:23:47 EM		



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ANALYTICAL RESULTS

Workorder: Q1405184

Lab ID: **Q1405184010** Date Received: 2/19/2014 12:51 Matrix: Aqueous
 Sample ID: **CRCP-BUCHHEIT-100** Date Collected: 2/19/2014 11:55 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.89 mg/L	1.89	4.73		1	02/19/14 13:30:00 MO		02/20/14 04:03:10 EM		N
>C12-C28	<1.89 mg/L	1.89	4.73		1	02/19/14 13:30:00 MO		02/20/14 04:03:10 EM		N
>C28-C35	<1.89 mg/L	1.89	4.73		1	02/19/14 13:30:00 MO		02/20/14 04:03:10 EM		N
C6-C35	<4.73 mg/L	4.73	4.73		1	02/19/14 13:30:00 MO		02/20/14 04:03:10 EM		
a,a,a-Trifluorotoluene (S)	89 %		70 - 130			02/19/14 13:30:00 MO		02/20/14 04:03:10 EM		
o-Terphenyl (S)	80.2 %		70 - 130			02/19/14 13:30:00 MO		02/20/14 04:03:10 EM		



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ANALYTICAL RESULTS

Workorder: Q1405184

Lab ID: **Q1405184011** Date Received: 2/19/2014 12:51 Matrix: Aqueous
 Sample ID: **CRCP-BUCHHEIT-101** Date Collected: 2/19/2014 11:55 Sample Type: SAMPLE
 Project ID: **COLORADO RIVER CORRIDOR-GROUNDWATER**

Parameters	Results Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
Semivolatiles										
Analysis Desc: TX1005		Preparation Method: TX1005								
		Analytical Method: TX1005								
C6-C12	<1.82 mg/L	1.82	4.54		1	02/19/14 13:30:00 MO		02/20/14 04:42:33 EM		N
>C12-C28	<1.82 mg/L	1.82	4.54		1	02/19/14 13:30:00 MO		02/20/14 04:42:33 EM		N
>C28-C35	<1.82 mg/L	1.82	4.54		1	02/19/14 13:30:00 MO		02/20/14 04:42:33 EM		N
C6-C35	<4.54 mg/L	4.54	4.54		1	02/19/14 13:30:00 MO		02/20/14 04:42:33 EM		
a,a,a-Trifluorotoluene (S)	86.3 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 04:42:33 EM		
o-Terphenyl (S)	79.8 %			70 - 130		02/19/14 13:30:00 MO		02/20/14 04:42:33 EM		



ANALYTICAL RESULTS QUALIFIERS

Workorder: Q1405184

PARAMETER QUALIFIERS

Lab ID: Q1405184001
N Not Accredited

Lab ID: Q1405184002
N Not Accredited

Lab ID: Q1405184003
N Not Accredited

Lab ID: Q1405184004
N Not Accredited

Lab ID: Q1405184005
N Not Accredited

Lab ID: Q1405184006
N Not Accredited

Lab ID: Q1405184007
N Not Accredited

Lab ID: Q1405184008
N Not Accredited

Lab ID: Q1405184009
N Not Accredited

Lab ID: Q1405184010
N Not Accredited

Lab ID: Q1405184011
N Not Accredited



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: Q1405184

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
Q1405184001	CRCP-WISAN W2-100	TX1005	OEXT/1909	TX1005	ORG/2009
Q1405184002	CRCP-WISAN W1-105	TX1005	OEXT/1909	TX1005	ORG/2009
Q1405184003	CRCP-WISAN W1-100	TX1005	OEXT/1909	TX1005	ORG/2009
Q1405184004	CRCP-5852213-100	TX1005	OEXT/1909	TX1005	ORG/2009
Q1405184005	CRCP-NTNW2-100	TX1005	OEXT/1909	TX1005	ORG/2009
Q1405184006	CRCP-ATF1-100	TX1005	OEXT/1909	TX1005	ORG/2009
Q1405184007	CRCP-HOLWEYER-100	TX1005	OEXT/1909	TX1005	ORG/2009
Q1405184008	CRCP-221049-100	TX1005	OEXT/1909	TX1005	ORG/2009
Q1405184009	CRCP-5852314-100	TX1005	OEXT/1909	TX1005	ORG/2009
Q1405184010	CRCP-BUCHHEIT-100	TX1005	OEXT/1909	TX1005	ORG/2009
Q1405184011	CRCP-BUCHHEIT-101	TX1005	OEXT/1909	TX1005	ORG/2009