



MWH

LABORATORIES

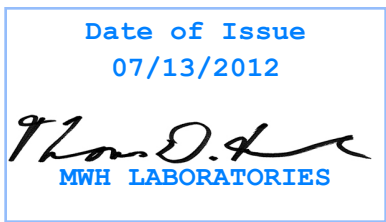
A Division of MWH Americas, Inc.

750 Royal Oaks Dr., Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

City of Phoenix
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810
Attention: Jesus Paez



TDF: Thomas.D.French
Project Manager



01114CA

Report: 398298
Project: SR85
ADHS License #: AZ0455
Group: SR85-2012-2

Laboratory certifies that the test results meet all **TNI NELAP** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

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

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

Acknowledgement of Samples Received

Addr: **City of Phoenix**
 Public Works/Disposal
 3060 South 27th Avenue
 Phoenix, AZ 85009-6810
 Attn: Jesus Paez
 Phone: (602) 534 6655

Client ID: PHOENIX-LF
 Folder #: 398298
 Project: SR85
 Sample Group: SR85-2012-2
 Project Manager: Thomas.D.French
 Phone: (480) 778-1558

The following samples were received from you on **May 31, 2012**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample ID	Sample Date
<u>201205310272</u>	85A-212	05/31/2012 0915
	Sample Type: FO Well ID: MW-1	
	@504 @VOA Mercury	
	Alkalinity in CaCO3 units Arsenic Total ICAP/MS Barium Total ICAP/MS	
	Cadmium Total ICAP/MS Chloride Chromium Total ICAP/MS	
	Copper Total ICAP/MS Fluoride Lead Total ICAP/MS	
	Nickel Total ICAP/MS Nitrate as N by RFA Low Level Selenium Total ICAP/MS	
	Silver Total ICAP/MS Total Dissolved Solid (TDS) Zinc Total ICAP/MS	
<u>201205310273</u>	85A-212 MS	05/31/2012 0915
	Sample Type: QC Well ID: MW-1	
	@504 @VOA Mercury	
	Alkalinity in CaCO3 units Arsenic Total ICAP/MS Barium Total ICAP/MS	
	Cadmium Total ICAP/MS Chloride Chromium Total ICAP/MS	
	Copper Total ICAP/MS Fluoride Lead Total ICAP/MS	
	Nickel Total ICAP/MS Nitrate as N by RFA Low Level Selenium Total ICAP/MS	
	Silver Total ICAP/MS Zinc Total ICAP/MS	
<u>201205310274</u>	85A-212 MSD	05/31/2012 0915
	Sample Type: QC Well ID: MW-1	
	@504 @VOA Mercury	
	Alkalinity in CaCO3 units Arsenic Total ICAP/MS Barium Total ICAP/MS	
	Cadmium Total ICAP/MS Chloride Chromium Total ICAP/MS	
	Copper Total ICAP/MS Fluoride Lead Total ICAP/MS	
	Nickel Total ICAP/MS Nitrate as N by RFA Low Level Selenium Total ICAP/MS	
	Silver Total ICAP/MS Zinc Total ICAP/MS	
<u>201205310275</u>	85A-212 DUP	05/31/2012 0915
	Sample Type: QC Well ID: MW-1	
	Total Dissolved Solid (TDS)	
<u>201205310276</u>	85ATB-212	05/31/2012 0915
	Sample Type: TB Well ID: MW-1	
	@504 @VOA	
<u>201205310277</u>	85F-212	05/31/2012 1040
	Sample Type: FO Well ID: MW-2	

Acknowledgement of Samples Received

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Client ID: PHOENIX-LF
 Folder #: 398298
 Project: SR85
 Sample Group: SR85-2012-2
 Project Manager: Thomas.D.French
 Phone: (480) 778-1558

The following samples were received from you on **May 31, 2012**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample ID	Sample Date	
201205310278	85B-212	05/31/2012 1041	
	Sample Type: FD Well ID: MW-2		
	@504	@VOA	Mercury
	Alkalinity in CaCO3 units	Arsenic Total ICAP/MS	Barium Total ICAP/MS
	Cadmium Total ICAP/MS	Chloride	Chromium Total ICAP/MS
	Copper Total ICAP/MS	Fluoride	Lead Total ICAP/MS
	Nickel Total ICAP/MS	Nitrate as N by RFA Low Level	Selenium Total ICAP/MS
	Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS
201205310279	85C-212	05/31/2012 1215	
	Sample Type: FB Well ID: MW-3		
	@504	@VOA	Mercury
	Alkalinity in CaCO3 units	Arsenic Total ICAP/MS	Barium Total ICAP/MS
	Cadmium Total ICAP/MS	Chloride	Chromium Total ICAP/MS
	Copper Total ICAP/MS	Fluoride	Lead Total ICAP/MS
	Nickel Total ICAP/MS	Nitrate as N by RFA Low Level	Selenium Total ICAP/MS
	Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS
201205310280	85D-212	05/31/2012 1230	
	Sample Type: FO Well ID: MW-3		
	@504	@VOA	Mercury
	Alkalinity in CaCO3 units	Arsenic Total ICAP/MS	Barium Total ICAP/MS
	Cadmium Total ICAP/MS	Chloride	Chromium Total ICAP/MS
	Copper Total ICAP/MS	Fluoride	Lead Total ICAP/MS
	Nickel Total ICAP/MS	Nitrate as N by RFA Low Level	Selenium Total ICAP/MS
	Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS
201205310281	85DTB-212	05/31/2012 1230	
	Sample Type: TB Well ID: MW-3		
	@504	@VOA	Mercury
	Alkalinity in CaCO3 units	Arsenic Total ICAP/MS	Barium Total ICAP/MS
	Cadmium Total ICAP/MS	Chloride	Chromium Total ICAP/MS
	Copper Total ICAP/MS	Fluoride	Lead Total ICAP/MS
	Nickel Total ICAP/MS	Nitrate as N by RFA Low Level	Selenium Total ICAP/MS
	Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS
201205310282	85E-212	05/31/2012 1319	
	@504	@VOA	Mercury
	Alkalinity in CaCO3 units	Arsenic Total ICAP/MS	Barium Total ICAP/MS
	Cadmium Total ICAP/MS	Chloride	Chromium Total ICAP/MS
	Copper Total ICAP/MS	Fluoride	Lead Total ICAP/MS
	Nickel Total ICAP/MS	Nitrate as N by RFA Low Level	Selenium Total ICAP/MS
		Silver Total ICAP/MS	Total Dissolved Solid (TDS)

Acknowledgement of Samples Received

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 Phoenix, AZ 85009-6810
 Attn: Jesus Paez
 Phone: (602) 534 6655

Client ID: PHOENIX-LF
 Folder #: 398298
 Project: SR85
 Sample Group: SR85-2012-2
 Project Manager: Thomas.D.French
 Phone: (480) 778-1558

The following samples were received from you on **May 31, 2012**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample #	Sample ID	Sample Date																		
	Sample Type: FO Well ID: MW-4																			
	<table border="1"> <tr> <td>@504</td> <td>@VOA</td> <td>Mercury</td> </tr> <tr> <td>Alkalinity in CaCO3 units</td> <td>Arsenic Total ICAP/MS</td> <td>Barium Total ICAP/MS</td> </tr> <tr> <td>Cadmium Total ICAP/MS</td> <td>Chloride</td> <td>Chromium Total ICAP/MS</td> </tr> <tr> <td>Copper Total ICAP/MS</td> <td>Fluoride</td> <td>Lead Total ICAP/MS</td> </tr> <tr> <td>Nickel Total ICAP/MS</td> <td>Nitrate as N by RFA Low Level</td> <td>Selenium Total ICAP/MS</td> </tr> <tr> <td>Silver Total ICAP/MS</td> <td>Total Dissolved Solid (TDS)</td> <td>Zinc Total ICAP/MS</td> </tr> </table>	@504	@VOA	Mercury	Alkalinity in CaCO3 units	Arsenic Total ICAP/MS	Barium Total ICAP/MS	Cadmium Total ICAP/MS	Chloride	Chromium Total ICAP/MS	Copper Total ICAP/MS	Fluoride	Lead Total ICAP/MS	Nickel Total ICAP/MS	Nitrate as N by RFA Low Level	Selenium Total ICAP/MS	Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS	
@504	@VOA	Mercury																		
Alkalinity in CaCO3 units	Arsenic Total ICAP/MS	Barium Total ICAP/MS																		
Cadmium Total ICAP/MS	Chloride	Chromium Total ICAP/MS																		
Copper Total ICAP/MS	Fluoride	Lead Total ICAP/MS																		
Nickel Total ICAP/MS	Nitrate as N by RFA Low Level	Selenium Total ICAP/MS																		
Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS																		

Test Description

- @504 -- EPA Method 504.1
- @VOA -- Volatile Organics by GCMS
- @504 -- EPA Method 504.1
- @VOA -- Volatile Organics by GCMS



MWH Laboratories
A Division of MWH Americas, Inc.

CHAIN OF CUSTODY RECORD

MWH LABS USE ONLY:

750 Royal Oaks Drive, Suite 100
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Tel: 626 386 1100
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1 800 566 LABS (1 800 566 5227)

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: _____

SAMPLES LOGGED IN BY: _____

SAMPLES REC'D DAY OF COLLECTION? (check for yes)

SAMPLE TEMP RECEIVED AT: Colton / Sacramento / Scottsdale 2.8 °C (Compliance: 4 ± 2 °C)
 Monrovia 2.0 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: FROZEN PARTIALLY FROZEN _____ THAWED _____ WET ICE _____ NO ICE _____

METHOD OF SHIPMENT: Pick-Up / Walk-in / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: CITY OF PHOENIX PROJECT CODE: SR-85 LF (check for yes) NON-COMPLIANCE SAMPLES
MWH LABS CLIENT CODE: PHOENIX-LF COC ID: _____ (check for yes) REGULATION INVOLVED:
Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes) OR list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

TAT requested: rush by adv notice only

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	Field Data	Field Data	SAMPLER COMMENTS
5/31/12	0915	85A-212		RAW			MW-1
"	1040	85F-212		RAW			MW-2
"	1041	85B-212		RAW			MW-2
"	1215	85C-212		RAW			MW-3
"	1230	85D-212		RAW			MW-3
"	1319	85E-212		RAW			MW-4

* MATRIX TYPES: RSW = Raw Surface Water CFW = Chlor(am)inated Finished Water SEAW = Sea Water
RGW = Raw Ground Water FW = Other Finished Water WW = Waste Water BW = Bottled Water
SO = Soil O = Other - Please Identify
SL = Sludge

SIGNED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	<i>[Signature]</i>	JESUS RAEZ	COP	5/31/12	1445
RECEIVED BY:	<i>[Signature]</i>	JESUS RAEZ	AWP	05/31/12	1745
RELINQUISHED BY:	<i>[Signature]</i>	JESUS RAEZ	AWP	5-31-12	1702
RECEIVED BY:	<i>[Signature]</i>	JESUS RAEZ	AWP	6-1-12	1300



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Laboratory Comments
Report: 398298

City of Phoenix
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Flags Legend:

M2 - Matrix spike recovery was low; the associated blank spike recovery was acceptable.



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Laboratory Hits
Report: 398298

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
201205310272 <u>85A-212</u>						
06/13/2012 12:12	Alkalinity in CaCO3 units		150		mg/L	2
06/04/2012 16:00	Arsenic Total ICAP/MS		13	10	ug/L	1
06/04/2012 16:00	Barium Total ICAP/MS		64	2000	ug/L	2
06/14/2012 13:12	Chloride		2300	250	mg/L	100
06/04/2012 16:00	Chromium Total ICAP/MS		19	100	ug/L	1
06/01/2012 20:38	Fluoride		0.49	4	mg/L	0.05
06/04/2012 16:00	Lead Total ICAP/MS		0.51	15	ug/L	0.5
06/04/2012 16:00	Nickel Total ICAP/MS		12		ug/L	5
06/01/2012 14:40	Nitrate as N by RFA Low Level		22		mg/L	1.5
06/04/2012 16:00	Selenium Total ICAP/MS		14	50	ug/L	5
06/07/2012 22:05	Total Dissolved Solids (TDS)		5400	500	mg/L	10
06/04/2012 16:00	Zinc Total ICAP/MS		28	5000	ug/L	20
201205310275 <u>85A-212 DUP</u>						
06/07/2012 22:26	Total Dissolved Solids (TDS)		5400	500	mg/L	10
201205310277 <u>85F-212</u>						
06/13/2012 13:21	Alkalinity in CaCO3 units		88		mg/L	2
06/04/2012 16:26	Arsenic Total ICAP/MS		9.1	10	ug/L	1
06/04/2012 16:26	Barium Total ICAP/MS		42	2000	ug/L	2
06/11/2012 20:29	Chloride		1400	250	mg/L	50
06/04/2012 16:26	Chromium Total ICAP/MS		14	100	ug/L	1
06/01/2012 20:46	Fluoride		2.8	4	mg/L	0.05
06/04/2012 16:26	Nickel Total ICAP/MS		9.8		ug/L	5
06/01/2012 16:34	Nitrate as N by RFA Low Level		10		mg/L	0.15
06/04/2012 16:26	Selenium Total ICAP/MS		8.1	50	ug/L	5
06/07/2012 22:07	Total Dissolved Solids (TDS)		3300	500	mg/L	10
201205310278 <u>85B-212</u>						
06/13/2012 13:28	Alkalinity in CaCO3 units		88		mg/L	2
06/04/2012 16:21	Arsenic Total ICAP/MS		8.6	10	ug/L	1
06/04/2012 16:21	Barium Total ICAP/MS		41	2000	ug/L	2
06/11/2012 20:42	Chloride		1400	250	mg/L	50
06/04/2012 16:21	Chromium Total ICAP/MS		13	100	ug/L	1
06/01/2012 20:49	Fluoride		2.8	4	mg/L	0.05
06/04/2012 16:21	Nickel Total ICAP/MS		10		ug/L	5
06/01/2012 16:35	Nitrate as N by RFA Low Level		10		mg/L	0.15

SUMMARY OF POSITIVE DATA ONLY



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Laboratory Hits
Report: 398298

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
06/04/2012 16:21	Selenium Total ICAP/MS		7.8	50	ug/L	5
06/07/2012 22:08	Total Dissolved Solids (TDS)		3200	500	mg/L	10
	201205310279	<u>85C-212</u>				
06/12/2012 22:03	Acetone		17		ug/L	10
	201205310280	<u>85D-212</u>				
06/13/2012 13:42	Alkalinity in CaCO3 units		95		mg/L	2
06/04/2012 20:54	Arsenic Total ICAP/MS		9.9	10	ug/L	1
06/04/2012 20:54	Barium Total ICAP/MS		48	2000	ug/L	2
06/11/2012 21:07	Chloride		800	250	mg/L	25
06/04/2012 20:54	Chromium Total ICAP/MS		11	100	ug/L	1
06/01/2012 20:58	Fluoride		4.4	4	mg/L	0.05
06/04/2012 20:54	Nickel Total ICAP/MS		6.2		ug/L	5
06/01/2012 16:42	Nitrate as N by RFA Low Level		2.1		mg/L	0.15
06/07/2012 22:09	Total Dissolved Solids (TDS)		1700	500	mg/L	10
06/04/2012 20:54	Zinc Total ICAP/MS		23	5000	ug/L	20
	201205310282	<u>85E-212</u>				
06/13/2012 14:54	Alkalinity in CaCO3 units		110		mg/L	2
06/04/2012 20:49	Arsenic Total ICAP/MS		7.5	10	ug/L	1
06/04/2012 20:49	Barium Total ICAP/MS		52	2000	ug/L	2
06/11/2012 21:20	Chloride		930	250	mg/L	25
06/04/2012 20:49	Chromium Total ICAP/MS		9.3	100	ug/L	1
06/01/2012 21:01	Fluoride		2.8	4	mg/L	0.05
06/04/2012 20:49	Nickel Total ICAP/MS		24		ug/L	5
06/01/2012 16:43	Nitrate as N by RFA Low Level		4.7		mg/L	0.15
06/07/2012 22:10	Total Dissolved Solids (TDS)		2200	500	mg/L	10
06/04/2012 20:49	Zinc Total ICAP/MS		44	5000	ug/L	20

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Report: 398298

City of Phoenix
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3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Includes sections for EPA 200.8 - ICPMS Metals, EPA 245.1 - Mercury Total, EPA 8011 - EPA Method 504.1, EPA 300.0 - Chloride, Sulfate by EPA 300.0, EPA 353.2 - Nitrate as N by RFA Low Level, and EPA 8260 - Volatile Organics by GCMS.

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



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City of Phoenix

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3060 South 27th Avenue
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Samples Received on:
05/31/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Acetone	ND	ug/L	10	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Benzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Styrene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Toluene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Total xylenes	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	19:04	657662	(EPA 8260)	Vinyl Acetate	ND	ug/L	10	1

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



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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 398298

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains multiple rows of analytical data for various substances like Vinyl chloride, Fluoride, Alkalinity, TDS, and various metals.

85A-212 MS (201205310273)

Sampled on 05/31/2012 0915

Sample Type: QC
Well Id: MW-1

EPA 200.8 - ICPMS Metals

Table listing results for EPA 200.8 - ICPMS Metals, including Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Silver, and Zinc.

EPA 245.1 - Mercury Total

Table listing result for EPA 245.1 - Mercury Total.

EPA 8011 - EPA Method 504.1

Table listing results for EPA 8011 - EPA Method 504.1, including Dibromochloropropane and Ethylene Dibromide.

EPA 300.0 - Chloride, Sulfate by EPA 300.0

Table listing result for EPA 300.0 - Chloride, Sulfate by EPA 300.0.

EPA 353.2 - Nitrate as N by RFA Low Level

Table listing result for EPA 353.2 - Nitrate as N by RFA Low Level.

EPA 8260 - Volatile Organics by GCMS

Table listing results for EPA 8260 - Volatile Organics by GCMS, including various chloroethane and dichloroethylene compounds.

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



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City of Phoenix

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Public Works/Disposal
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Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	1,2,3-Trichloropropane	112	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	1,2-Dichloroethane	94	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	1,2-Dichloropropane	102	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	2-Butanone (MEK)	97	%	5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	2-Hexanone	102	%	10	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	106	%	5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Acetone	100	%	10	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Acrylonitrile (Screen)	106	%	50	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Benzene	106	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Bromochloromethane	109	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Bromodichloromethane	98	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Bromoform	98	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Bromomethane (Methyl Bromide)	110	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Carbon disulfide	114	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Carbon Tetrachloride	114	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Chlorobenzene	103	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Chlorodibromomethane	103	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Chloroethane	113	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Chloroform (Trichloromethane)	101	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Chloromethane(Methyl Chloride)	114	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	cis-1,2-Dichloroethylene	103	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	cis-1,3-Dichloropropene	103	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Dibromomethane	97	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Dichloromethane	105	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Ethyl benzene	112	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Iodomethane	114	%	0.1	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	m,p-Xylenes	111	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	104	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	100	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	o-Xylene	110	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	108	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Styrene	52	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Tetrachloroethylene (PCE)	112	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Toluene	107	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	Total xylenes	110	%	0.5	1
6/12/2012	06/12/2012	19:30	657662	(EPA 8260)	trans-1,2-Dichloroethylene	108	%	0.5	1

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



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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 398298

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains multiple rows of data for various analytes like trans-1,3-Dichloropropene, Fluoride, Alkalinity in CaCO3 units, and various metals.

85A-212 MSD (201205310274)

Sampled on 05/31/2012 0915

Sample Type: QC
Well Id: MW-1

EPA 200.8 - ICPMS Metals

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains data for various metals like Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Silver, and Zinc.

EPA 245.1 - Mercury Total

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains data for Mercury.

EPA 8011 - EPA Method 504.1

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains data for Dibromochloropropane (DBCP) and Ethylene Dibromide (EDB).

EPA 300.0 - Chloride, Sulfate by EPA 300.0

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains data for Chloride.

EPA 353.2 - Nitrate as N by RFA Low Level

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains data for Nitrate as N by RFA Low Level.

EPA 8260 - Volatile Organics by GCMS

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains data for 1,1,1,2-Tetrachloroethane and 1,1,1-Trichloroethane.

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



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**Laboratory Data
Report: 398298**

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	1,1,2-Trichloroethane	101	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	1,1-Dichloroethane	109	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	1,1-Dichloroethylene	116	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	1,2,3-Trichloropropane	113	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	1,2-Dichloroethane	97	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	1,2-Dichloropropane	103	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	2-Butanone (MEK)	100	%	5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	2-Hexanone	103	%	10	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	105	%	5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Acetone	106	%	10	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Acrylonitrile (Screen)	105	%	50	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Benzene	113	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Bromochloromethane	101	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Bromodichloromethane	101	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Bromoform	108	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Bromomethane (Methyl Bromide)	113	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Carbon disulfide	113	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Carbon Tetrachloride	117	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Chlorobenzene	104	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Chlorodibromomethane	107	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Chloroethane	116	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Chloroform (Trichloromethane)	104	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Chloromethane(Methyl Chloride)	114	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	cis-1,2-Dichloroethylene	111	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	cis-1,3-Dichloropropene	104	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Dibromomethane	99	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Dichloromethane	105	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Ethyl benzene	113	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Iodomethane	116	%	0.1	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	m,p-Xylenes	115	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	103	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	103	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	o-Xylene	110	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	110	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Styrene	45	%	0.5	1
6/12/2012	06/12/2012	19:55	657662	(EPA 8260)	Tetrachloroethylene (PCE)	115	%	0.5	1

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



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Laboratory Data
Report: 398298

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains multiple rows of analytical data for various compounds like Toluene, xylene, and fluoride.

85A-212 DUP (201205310275)

Sampled on 05/31/2012 0915

Sample Type: QC
Well Id: MW-1

E160.1/SM2540C - Total Dissolved Solids (TDS)

Table row for E160.1/SM2540C - Total Dissolved Solids (TDS) with values: 6/6/2012, 06/07/2012, 22:26, 657121, (E160.1/SM2540C), Total Dissolved Solids (TDS), 5400, mg/L, 10, 1

85ATB-212 (201205310276)

Sampled on 05/31/2012 0915

Sample Type: TB
Well Id: MW-1

EPA 8011 - EPA Method 504.1

Table rows for EPA 8011 - EPA Method 504.1: Dibromochloropropane (DBCP) and Ethylene Dibromide (EDB) with values: 6/11/2012, 06/11/2012, 19:03, 657739, (EPA 8011), ND, ug/L, 0.01, 1

EPA 8260 - Volatile Organics by GCMS

Table rows for EPA 8260 - Volatile Organics by GCMS: 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2,3-Trichloropropane, 1,2-Dichloroethane, 1,2-Dichloropropane, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-Pentanone (MIBK) with values: 6/12/2012, 06/12/2012, 20:46, 657662, (EPA 8260), ND, ug/L, 0.5, 1

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



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Laboratory Data
Report: 398298

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows list various chemical analytes such as Acetone, Benzene, and Chlorobenzene with their respective results and MRL values.

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



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Laboratory Data
Report: 398298

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Includes sections for EPA 200.8 - ICPMS Metals, EPA 245.1 - Mercury Total, EPA 8011 - EPA Method 504.1, EPA 300.0 - Chloride, Sulfate by EPA 300.0, EPA 353.2 - Nitrate as N by RFA Low Level, and EPA 8260 - Volatile Organics by GCMS.

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



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Laboratory Data
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City of Phoenix

Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Benzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Styrene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Toluene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Total xylenes	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
6/12/2012	06/12/2012	21:12	657662	(EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1

SM 4500F-C - Fluoride

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



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Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 398298

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains multiple rows of data for various analytes including Fluoride, Alkalinity in CaCO3 units, Total Dissolved Solids (TDS), EPA 200.8 - ICPMS Metals, EPA 245.1 - Mercury Total, EPA 8011 - EPA Method 504.1, EPA 300.0 - Chloride, Sulfate by EPA 300.0, EPA 353.2 - Nitrate as N by RFA Low Level, and EPA 8260 - Volatile Organics by GCMS.

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



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Report: 398298**

City of Phoenix
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Samples Received on:
05/31/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Acetone	ND	ug/L	10	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Benzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Styrene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Toluene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	Total xylenes	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1

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Laboratory Data
Report: 398298

City of Phoenix

Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
6/12/2012	06/12/2012	21:37	657662 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	21:37	657662 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
6/12/2012	06/12/2012	21:37	657662 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
	06/01/2012	20:49	656440 (SM 4500F-C)	Fluoride	2.8	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
	06/13/2012	13:28	657968 (SM 2320B)	Alkalinity in CaCO3 units	88	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
6/6/2012	06/07/2012	22:08	657121 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3200	mg/L	10	1
85C-212 (201205310279)								
Sample Type: FB								
Well Id: MW-3								
EPA 200.8 - ICPMS Metals								
6/1/2012	06/04/2012	20:58	656558 (EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1	1
6/1/2012	06/04/2012	20:58	656558 (EPA 200.8)	Barium Total ICAP/MS	ND	ug/L	2	1
6/1/2012	06/04/2012	20:58	656558 (EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
6/1/2012	06/04/2012	20:58	656558 (EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
6/1/2012	06/04/2012	20:58	656558 (EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2	1
6/1/2012	06/04/2012	20:58	656558 (EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
6/1/2012	06/04/2012	20:58	656558 (EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
6/1/2012	06/04/2012	20:58	656558 (EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
6/1/2012	06/08/2012	10:26	657218 (EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
6/1/2012	06/04/2012	20:58	656558 (EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 245.1 - Mercury Total								
6/14/2012	06/14/2012	15:29	658281 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
EPA 8011 - EPA Method 504.1								
6/11/2012	06/11/2012	20:39	657739 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
6/11/2012	06/11/2012	20:39	657739 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	06/11/2012	20:54	657943 (EPA 300.0)	Chloride	ND	mg/L	1	1
EPA 353.2 - Nitrate as N by RFA Low Level								
	06/01/2012	16:40	656093 (EPA 353.2)	Nitrate as N by RFA Low Level	ND	mg/L	0.15	5
EPA 8260 - Volatile Organics by GCMS								
6/12/2012	06/12/2012	22:03	657662 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Sampled on 05/31/2012 1215



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Laboratory Data
Report: 398298

City of Phoenix

Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Acetone	17	ug/L	10	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Benzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Styrene	ND	ug/L	0.5	1
6/12/2012	06/12/2012	22:03	657662	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1

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



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Laboratory Data
Report: 398298

City of Phoenix
Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains multiple rows of analytical data for various substances like Toluene, Fluoride, Alkalinity, etc.

85D-212 (201205310280)

Sampled on 05/31/2012 1230

Sample Type: FO
Well Id: MW-3

EPA 200.8 - ICPMS Metals

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains data for Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Silver, Zinc.

EPA 245.1 - Mercury Total

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains data for Mercury.

EPA 8011 - EPA Method 504.1

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains data for Dibromochloropropane, Ethylene Dibromide.

EPA 300.0 - Chloride, Sulfate by EPA 300.0

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains data for Chloride.

EPA 353.2 - Nitrate as N by RFA Low Level

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Samples Received on:
05/31/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	06/01/2012	16:42	656093	(EPA 353.2)	Nitrate as N by RFA Low Level	2.1	mg/L	0.15 5
EPA 8260 - Volatile Organics by GCMS								
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	2-Hexanone	ND	ug/L	10 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Acetone	ND	ug/L	10 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Benzene	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Bromoform	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Chloroethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Dibromomethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Dichloromethane	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Iodomethane	ND	ug/L	0.1 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5 1
6/12/2012	06/12/2012	22:29	657662	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5 1

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



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Laboratory Data
Report: 398298

City of Phoenix

Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains multiple rows of analytical data for various compounds like Dichlorobenzene, Styrene, and Fluoride.

85DTB-212 (201205310281)

Sampled on 05/31/2012 1230

Sample Type: TB
Well Id: MW-3

EPA 8011 - EPA Method 504.1

Table with 9 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows for Dibromochloropropane and Ethylene Dibromide.

EPA 8260 - Volatile Organics by GCMS

Table with 9 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows for various volatile organics like Tetrachloroethane, Trichloroethane, etc.

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



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City of Phoenix
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Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Contains 40 rows of laboratory data for various analytes like 2-Butanone, 2-Hexanone, etc.

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



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Samples Received on:
05/31/2012

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows include Trichlorofluoromethane, Vinyl Acetate, and Vinyl chloride (VC).

85E-212 (201205310282)

Sampled on 05/31/2012 1319

Sample Type: FO
Well Id: MW-4

EPA 200.8 - ICPMS Metals

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows include Arsenic Total ICAP/MS, Barium Total ICAP/MS, Cadmium Total ICAP/MS, Chromium Total ICAP/MS, Copper Total ICAP/MS, Lead Total ICAP/MS, Nickel Total ICAP/MS, Selenium Total ICAP/MS, Silver Total ICAP/MS, Zinc Total ICAP/MS.

EPA 245.1 - Mercury Total

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Row includes Mercury.

EPA 8011 - EPA Method 504.1

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows include Dibromochloropropane (DBCP) and Ethylene Dibromide (EDB).

EPA 300.0 - Chloride, Sulfate by EPA 300.0

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Row includes Chloride.

EPA 353.2 - Nitrate as N by RFA Low Level

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Row includes Nitrate as N by RFA Low Level.

EPA 8260 - Volatile Organics by GCMS

Table with 10 columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows include 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2,3-Trichloropropane, 1,2-Dichloroethane, 1,2-Dichloropropane, 2-Butanone (MEK).

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



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**Laboratory Data
Report: 398298**

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Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	2-Hexanone	ND	10	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Acetone	ND	10	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Acrylonitrile (Screen)	ND	50	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Benzene	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Bromochloromethane	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Bromodichloromethane	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Bromoform	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Carbon disulfide	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Carbon Tetrachloride	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Chlorobenzene	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Chlorodibromomethane	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Chloroethane	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Chloroform (Trichloromethane)	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	cis-1,2-Dichloroethylene	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	cis-1,3-Dichloropropene	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Dibromomethane	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Dichloromethane	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Ethyl benzene	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Iodomethane	ND	0.1	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	m,p-Xylenes	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	o-Xylene	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Styrene	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Tetrachloroethylene (PCE)	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Toluene	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Total xylenes	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	trans-1,2-Dichloroethylene	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	trans-1,3-Dichloropropene	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	10	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Trichloroethylene (TCE)	ND	0.5	1
6/12/2012	06/12/2012	22:54	657662	(EPA 8260)	Trichlorofluoromethane	ND	0.5	1

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Report: 398298

City of Phoenix

Jesus Paez
Public Works/Disposal
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
05/31/2012

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
6/12/2012	06/12/2012	22:54	657662 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
6/12/2012	06/12/2012	22:54	657662 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
	06/01/2012	21:01	656440 (SM 4500F-C)	Fluoride	2.8	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
	06/13/2012	14:54	657968 (SM 2320B)	Alkalinity in CaCO3 units	110	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
6/6/2012	06/07/2012	22:10	657121 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	2200	mg/L	10	1

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



City of Phoenix

QC Ref # 656093 - Nitrate as N by RFA Low Level

201205310277 85F-212
201205310278 85B-212
201205310279 85C-212
201205310280 85D-212
201205310282 85E-212

Analysis Date: 06/01/2012

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

QC Ref # 656440 - Fluoride

201205310272 85A-212
201205310273 85A-212 MS
201205310274 85A-212 MSD
201205310277 85F-212
201205310278 85B-212
201205310279 85C-212
201205310280 85D-212
201205310282 85E-212

Analysis Date: 06/01/2012

Analyzed by: QMK
Analyzed by: QMK
Analyzed by: QMK
Analyzed by: QMK
Analyzed by: QMK
Analyzed by: QMK
Analyzed by: QMK
Analyzed by: QMK

QC Ref # 656557 - ICPMS Metals

201205310272 85A-212
201205310272 85A-212
201205310273 85A-212 MS
201205310274 85A-212 MSD
201205310277 85F-212
201205310278 85B-212

Analysis Date: 06/04/2012

Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX

QC Ref # 656558 - ICPMS Metals

201205310279 85C-212
201205310280 85D-212
201205310282 85E-212

Analysis Date: 06/04/2012

Analyzed by: SXX
Analyzed by: SXX
Analyzed by: SXX

QC Ref # 657121 - Total Dissolved Solids (TDS)

201205310272 85A-212
201205310275 85A-212 DUP
201205310277 85F-212
201205310278 85B-212
201205310279 85C-212
201205310280 85D-212
201205310282 85E-212

Analysis Date: 06/07/2012

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

QC Ref # 657218 - ICPMS Metals

201205310272 85A-212
201205310273 85A-212 MS
201205310274 85A-212 MSD
201205310277 85F-212
201205310278 85B-212
201205310279 85C-212
201205310280 85D-212
201205310282 85E-212

Analysis Date: 06/08/2012

Analyzed by: DTN
Analyzed by: DTN
Analyzed by: DTN
Analyzed by: DTN
Analyzed by: DTN
Analyzed by: DTN
Analyzed by: DTN
Analyzed by: DTN



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QC Summary: 398298

City of Phoenix

QC Ref # 657662 - Volatile Organics by GCMS

201205310272	85A-212
201205310273	85A-212 MS
201205310274	85A-212 MSD
201205310276	85ATB-212
201205310277	85F-212
201205310278	85B-212
201205310279	85C-212
201205310280	85D-212
201205310281	85DTB-212
201205310282	85E-212

Analysis Date: 06/12/2012

Analyzed by: CWG
Analyzed by: CWG
Analyzed by: CWG
Analyzed by: CWG
Analyzed by: CWG
Analyzed by: CWG
Analyzed by: CWG
Analyzed by: CWG
Analyzed by: CWG
Analyzed by: CWG

QC Ref # 657739 - EPA Method 504.1

201205310272	85A-212
201205310273	85A-212 MS
201205310274	85A-212 MSD
201205310276	85ATB-212
201205310277	85F-212
201205310278	85B-212
201205310279	85C-212
201205310280	85D-212
201205310281	85DTB-212
201205310282	85E-212

Analysis Date: 06/11/2012

Analyzed by: HETAL
Analyzed by: HETAL
Analyzed by: HETAL
Analyzed by: HETAL
Analyzed by: HETAL
Analyzed by: HETAL
Analyzed by: HETAL
Analyzed by: HETAL
Analyzed by: HETAL
Analyzed by: HETAL

QC Ref # 657943 - Chloride, Sulfate by EPA 300.0

201205310272	85A-212
201205310277	85F-212
201205310278	85B-212
201205310279	85C-212
201205310280	85D-212
201205310282	85E-212

Analysis Date: 06/11/2012

Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP
Analyzed by: CYP

QC Ref # 657968 - Alkalinity in CaCO3 units

201205310272	85A-212
201205310273	85A-212 MS
201205310274	85A-212 MSD
201205310277	85F-212
201205310278	85B-212
201205310279	85C-212
201205310280	85D-212
201205310282	85E-212

Analysis Date: 06/13/2012

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

QC Ref # 658281 - Mercury Total

201205310272	85A-212
201205310273	85A-212 MS
201205310274	85A-212 MSD
201205310277	85F-212
201205310278	85B-212

Analysis Date: 06/14/2012

Analyzed by: MXT
Analyzed by: MXT
Analyzed by: MXT
Analyzed by: MXT
Analyzed by: MXT



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QC Summary: 398298

City of Phoenix

201205310279	85C-212	Analyzed by: MXT
201205310280	85D-212	Analyzed by: MXT
201205310282	85E-212	Analyzed by: MXT

QC Ref # 658504 - Chloride, Sulfate by EPA 300.0

Analysis Date: 06/14/2012

201205310272	85A-212	Analyzed by: CYP
201205310273	85A-212 MS	Analyzed by: CYP
201205310274	85A-212 MSD	Analyzed by: CYP

QC Ref # 659050 - Nitrate as N by RFA Low Level

Analysis Date: 06/01/2012

201205310272	85A-212	Analyzed by: MYH
201205310273	85A-212 MS	Analyzed by: MYH
201205310274	85A-212 MSD	Analyzed by: MYH



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Report: 398298

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 656093 - Nitrate as N by RFA Low Level by EPA 353.2						Analysis Date: 06/01/2012			
LCS1	Nitrate as N by RFA Low Level		1.0	0.994	mg/L	99	(90-110)		
LCS2	Nitrate as N by RFA Low Level		1.0	1.01	mg/L	101	(90-110)	20	1.6
MBLK	Nitrate as N by RFA Low Level			<0.03	mg/L				
MRL_CHK	Nitrate as N by RFA Low Level		0.03	0.0204	mg/L	68	(50-150)		
QC Ref# 656440 - Fluoride by SM 4500F-C						Analysis Date: 06/01/2012			
LCS1	Fluoride		1.0	1.04	mg/L	104	(81-116)		
LCS2	Fluoride		1.0	1.03	mg/L	103	(81-116)	20	0.97
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0387	mg/L	77	(50-150)		
MS_201205310272	Fluoride	0.49	1.0	1.43	mg/L	95	(73-124)		
MS2_201206010066	Fluoride	ND	1.0	1.15	mg/L	112	(73-124)		
MSD_201205310272	Fluoride	0.49	1.0	1.47	mg/L	98	(73-124)	20	2.8
MSD2_201206010066	Fluoride	ND	1.0	1.13	mg/L	111	(-124)	20	1.8
QC Ref# 656557 - ICPMS Metals by EPA 200.8						Analysis Date: 06/04/2012			
LCS1	Arsenic Total ICAP/MS		20	19.5	ug/L	98	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.6	ug/L	103	(85-115)	20	5.5
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.04	ug/L	104	(50-150)		
MS_201205310272	Arsenic Total ICAP/MS	13	20	34.7	ug/L	106	(70-130)		
MS2_201205250002	Arsenic Total ICAP/MS		20	19.5	ug/L	97	(70-130)		
MSD_201205310272	Arsenic Total ICAP/MS	13	20	34.8	ug/L	107	(70-130)	20	0.29
MSD2_201205250002	Arsenic Total ICAP/MS		20	19.2	ug/L	96	(70-130)	20	1.6
LCS1	Barium Total ICAP/MS		100	95.0	ug/L	95	(85-115)		
LCS2	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	8.1
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.08	ug/L	104	(50-150)		
MS_201205310272	Barium Total ICAP/MS	64	100	156	ug/L	93	(70-130)		
MS2_201205250002	Barium Total ICAP/MS		100	111	ug/L	111	(70-130)		
MSD_201205310272	Barium Total ICAP/MS	64	100	154	ug/L	90	(70-130)	20	1.3
MSD2_201205250002	Barium Total ICAP/MS		100	110	ug/L	110	(70-130)	20	0.91
LCS1	Cadmium Total ICAP/MS		20	19.6	ug/L	98	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	21.2	ug/L	106	(85-115)	20	7.8
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.534	ug/L	107	(50-150)		
MS_201205310272	Cadmium Total ICAP/MS	ND	20	17.4	ug/L	87	(70-130)		
MS2_201205250002	Cadmium Total ICAP/MS		20	19.4	ug/L	97	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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

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

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201205310272	Cadmium Total ICAP/MS	ND	20	17.1	ug/L	86	(70-130)	20	1.7
MSD2_201205250002	Cadmium Total ICAP/MS		20	19.2	ug/L	96	(70-130)	20	1.0
LCS1	Chromium Total ICAP/MS		100	97.4	ug/L	97	(85-115)		
LCS2	Chromium Total ICAP/MS		100	103	ug/L	102	(85-115)	20	5.6
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.910	ug/L	91	(50-150)		
MS_201205310272	Chromium Total ICAP/MS	19	100	124	ug/L	105	(70-130)		
MS2_201205250002	Chromium Total ICAP/MS		100	94.2	ug/L	94	(70-130)		
MSD_201205310272	Chromium Total ICAP/MS	19	100	125	ug/L	106	(70-130)	20	0.80
MSD2_201205250002	Chromium Total ICAP/MS		100	92.1	ug/L	92	(70-130)	20	2.3
LCS1	Copper Total ICAP/MS		100	98.1	ug/L	98	(85-115)		
LCS2	Copper Total ICAP/MS		100	103	ug/L	103	(85-115)	20	4.9
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.04	ug/L	102	(50-150)		
MS_201205310272	Copper Total ICAP/MS	ND	100	88.7	ug/L	87	(70-130)		
MS2_201205250002	Copper Total ICAP/MS		100	69.0	ug/L	<u>69</u>	(70-130)		
MSD_201205310272	Copper Total ICAP/MS	ND	100	88.9	ug/L	87	(70-130)	20	0.23
MSD2_201205250002	Copper Total ICAP/MS		100	71.4	ug/L	71	(70-130)	20	3.4
LCS1	Lead Total ICAP/MS		20	18.8	ug/L	94	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.1	ug/L	100	(85-115)	20	6.7
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.525	ug/L	105	(50-150)		
MS_201205310272	Lead Total ICAP/MS	0.51	20	17.5	ug/L	85	(70-130)		
MS2_201205250002	Lead Total ICAP/MS	ND	20	17.0	ug/L	85	(70-130)		
MSD_201205310272	Lead Total ICAP/MS	0.51	20	17.4	ug/L	85	(70-130)	20	0.0
MSD2_201205250002	Lead Total ICAP/MS	ND	20	16.9	ug/L	85	(70-130)	20	0.59
LCS1	Nickel Total ICAP/MS		50	48.2	ug/L	97	(85-115)		
LCS2	Nickel Total ICAP/MS		50	50.8	ug/L	102	(85-115)	20	5.3
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.26	ug/L	105	(50-150)		
MS_201205310272	Nickel Total ICAP/MS	12	50	55.8	ug/L	88	(70-130)		
MS2_201205250002	Nickel Total ICAP/MS		50	43.8	ug/L	88	(70-130)		
MSD_201205310272	Nickel Total ICAP/MS	12	50	56.4	ug/L	89	(70-130)	20	1.1
MSD2_201205250002	Nickel Total ICAP/MS		50	42.7	ug/L	86	(70-130)	20	2.5
LCS1	Selenium Total ICAP/MS		20	19.6	ug/L	98	(85-115)		
LCS2	Selenium Total ICAP/MS		20	21.0	ug/L	105	(85-115)	20	6.4
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.44	ug/L	109	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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

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

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.



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Laboratory QC
Report: 398298

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201205310272	Selenium Total ICAP/MS	14	20	35.5	ug/L	105	(70-130)		
MS2_201205250002	Selenium Total ICAP/MS		20	11.9	ug/L	<u>59</u>	(70-130)		
MSD_201205310272	Selenium Total ICAP/MS	14	20	36.4	ug/L	109	(70-130)	20	2.5
MSD2_201205250002	Selenium Total ICAP/MS		20	11.8	ug/L	<u>59</u>	(70-130)	20	0.84
LCS1	Zinc Total ICAP/MS		100	102	ug/L	102	(85-115)		
LCS2	Zinc Total ICAP/MS		100	107	ug/L	107	(85-115)	20	4.8
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.3	ug/L	106	(50-150)		
MS_201205310272	Zinc Total ICAP/MS	28	100	114	ug/L	86	(70-130)		
MS2_201205250002	Zinc Total ICAP/MS		100	92.0	ug/L	92	(70-130)		
MSD_201205310272	Zinc Total ICAP/MS	28	100	114	ug/L	86	(70-130)	20	0.0
MSD2_201205250002	Zinc Total ICAP/MS		100	90.2	ug/L	90	(70-130)	20	2.0

QC Ref# 656558 - ICPMS Metals by EPA 200.8

Analysis Date: 06/04/2012

LCS1	Arsenic Total ICAP/MS		20	21.2	ug/L	106	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.2	ug/L	101	(85-115)	20	4.8
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_201206010005	Arsenic Total ICAP/MS	ND	20	21.5	ug/L	105	(70-130)		
MS2_201206010021	Arsenic Total ICAP/MS	1.219	20	21.1	ug/L	99	(70-130)		
MSD_201206010005	Arsenic Total ICAP/MS	ND	20	21.6	ug/L	105	(70-130)	20	0.46
MSD2_201206010021	Arsenic Total ICAP/MS	1.219	20	21.7	ug/L	103	(70-130)	20	2.8
LCS1	Barium Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Barium Total ICAP/MS		100	102	ug/L	102	(85-115)	20	4.8
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.00	ug/L	100	(50-150)		
MS_201206010005	Barium Total ICAP/MS	96.89	100	204	ug/L	107	(70-130)		
MS2_201206010021	Barium Total ICAP/MS	10.54	100	103	ug/L	92	(70-130)		
MSD_201206010005	Barium Total ICAP/MS	96.89	100	203	ug/L	106	(70-130)	20	0.49
MSD2_201206010021	Barium Total ICAP/MS	10.54	100	111	ug/L	100	(70-130)	20	7.5
LCS1	Cadmium Total ICAP/MS		20	21.7	ug/L	108	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.4	ug/L	102	(85-115)	20	6.2
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.492	ug/L	98	(50-150)		
MS_201206010005	Cadmium Total ICAP/MS	ND	20	19.7	ug/L	99	(70-130)		
MS2_201206010021	Cadmium Total ICAP/MS	ND	20	18.1	ug/L	91	(70-130)		
MSD_201206010005	Cadmium Total ICAP/MS	ND	20	19.9	ug/L	100	(70-130)	20	1.0
MSD2_201206010021	Cadmium Total ICAP/MS	ND	20	19.4	ug/L	97	(70-130)	20	6.9
LCS1	Chromium Total ICAP/MS		100	105	ug/L	105	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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

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

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Laboratory QC
Report: 398298

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chromium Total ICAP/MS		100	101	ug/L	101	(85-115)	20	3.9
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.907	ug/L	91	(50-150)		
MS_201206010005	Chromium Total ICAP/MS	1.4	100	98.8	ug/L	97	(70-130)		
MS2_201206010021	Chromium Total ICAP/MS	3.8	100	99.0	ug/L	95	(70-130)		
MSD_201206010005	Chromium Total ICAP/MS	1.4	100	99.7	ug/L	98	(70-130)	20	0.91
MSD2_201206010021	Chromium Total ICAP/MS	3.8	100	103	ug/L	99	(70-130)	20	4.0
LCS1	Copper Total ICAP/MS		100	108	ug/L	108	(85-115)		
LCS2	Copper Total ICAP/MS		100	102	ug/L	102	(85-115)	20	5.7
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.06	ug/L	103	(50-150)		
MS_201206010005	Copper Total ICAP/MS	ND	100	91.0	ug/L	91	(70-130)		
MS2_201206010021	Copper Total ICAP/MS	ND	100	88.3	ug/L	88	(70-130)		
MSD_201206010005	Copper Total ICAP/MS	ND	100	91.5	ug/L	91	(70-130)	20	0.55
MSD2_201206010021	Copper Total ICAP/MS	ND	100	91.0	ug/L	91	(70-130)	20	3.1
LCS1	Lead Total ICAP/MS		20	20.9	ug/L	105	(85-115)		
LCS2	Lead Total ICAP/MS		20	19.8	ug/L	99	(85-115)	20	5.9
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.502	ug/L	100	(50-150)		
MS_201206010005	Lead Total ICAP/MS	ND	20	18.6	ug/L	93	(70-130)		
MS2_201206010021	Lead Total ICAP/MS	ND	20	17.3	ug/L	86	(70-130)		
MSD_201206010005	Lead Total ICAP/MS	ND	20	18.8	ug/L	94	(70-130)	20	1.1
MSD2_201206010021	Lead Total ICAP/MS	ND	20	18.7	ug/L	94	(70-130)	20	7.8
LCS1	Nickel Total ICAP/MS		50	52.4	ug/L	105	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.7	ug/L	99	(85-115)	20	5.3
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.02	ug/L	100	(50-150)		
MS_201206010005	Nickel Total ICAP/MS	ND	50	46.2	ug/L	91	(70-130)		
MS2_201206010021	Nickel Total ICAP/MS	ND	50	44.7	ug/L	88	(70-130)		
MSD_201206010005	Nickel Total ICAP/MS	ND	50	46.2	ug/L	91	(70-130)	20	0.0
MSD2_201206010021	Nickel Total ICAP/MS	ND	50	46.6	ug/L	92	(70-130)	20	4.2
LCS1	Selenium Total ICAP/MS		20	21.1	ug/L	106	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.7	ug/L	103	(85-115)	20	1.9
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.17	ug/L	103	(50-150)		
MS_201206010005	Selenium Total ICAP/MS	ND	20	23.8	ug/L	111	(70-130)		
MS2_201206010021	Selenium Total ICAP/MS	6.617	20	26.9	ug/L	101	(70-130)		
MSD_201206010005	Selenium Total ICAP/MS	ND	20	23.4	ug/L	109	(70-130)	20	1.7

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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

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

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Laboratory QC
Report: 398298

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_201206010021	Selenium Total ICAP/MS	6.617	20	28.0	ug/L	107	(70-130)	20	4.0
LCS1	Silver Total ICAP/MS		50	40.7	ug/L	<u>81</u>	(85-115)		
LCS2	Silver Total ICAP/MS		50	43.7	ug/L	87	(85-115)	20	7.1
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.0133	ug/L	<u>2.7</u>	(50-150)		
MS_201206010005	Silver Total ICAP/MS	ND	50	33.2	ug/L	<u>66</u>	(70-130)		
MS2_201206010021	Silver Total ICAP/MS	ND	50	30.3	ug/L	<u>61</u>	(70-130)		
MSD_201206010005	Silver Total ICAP/MS	ND	50	32.2	ug/L	<u>65</u>	(70-130)	20	3.1
MSD2_201206010021	Silver Total ICAP/MS	ND	50	33.8	ug/L	<u>68</u>	(70-130)	20	11
LCS1	Zinc Total ICAP/MS		100	109	ug/L	109	(85-115)		
LCS2	Zinc Total ICAP/MS		100	105	ug/L	105	(85-115)	20	3.7
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.4	ug/L	102	(50-150)		
MS_201206010005	Zinc Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		
MS2_201206010021	Zinc Total ICAP/MS	ND	100	92.3	ug/L	92	(70-130)		
MSD_201206010005	Zinc Total ICAP/MS	ND	100	97.0	ug/L	97	(70-130)	20	0.21
MSD2_201206010021	Zinc Total ICAP/MS	ND	100	95.8	ug/L	96	(70-130)	20	3.7

QC Ref# 657121 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 06/07/2012

DUP_201205310275	Total Dissolved Solid (TDS)	5400		5350	mg/L		(0-20)		
DUP_201206050011	Total Dissolved Solid (TDS)	330		324	mg/L		(0-20)	20	3.0
LCS1	Total Dissolved Solid (TDS)		175	164	mg/L	94	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	698	mg/L	100	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	11.0	mg/L	110	(50-150)		

QC Ref# 657218 - ICPMS Metals by EPA 200.8

Analysis Date: 06/08/2012

LCS1	Silver Total ICAP/MS		50	49.5	ug/L	99	(85-115)		
LCS2	Silver Total ICAP/MS		50	49.9	ug/L	100	(85-115)	20	0.81
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.513	ug/L	103	(50-150)		
MS_201205290127	Silver Total ICAP/MS	ND	50	46.5	ug/L	93	(70-130)		
MS2_201205310272	Silver Total ICAP/MS	ND	50	43.1	ug/L	86	(70-130)		
MSD_201205290127	Silver Total ICAP/MS	ND	50	46.4	ug/L	93	(70-130)	20	0.22
MSD2_201205310272	Silver Total ICAP/MS	ND	50	42.9	ug/L	86	(70-130)	20	0.70

QC Ref# 657662 - Volatile Organics by GCMS by EPA 8260

Analysis Date: 06/12/2012

LCS1	1,1,1,2-Tetrachloroethane		5.0	3.85	ug/L	77	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	3.97	ug/L	79	(70-130)	20	3.1
MBLK	1,1,1,2-Tetrachloroethane			<0.25	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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

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

(S) - Indicates surrogate compound.

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Laboratory QC
Report: 398298

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.450	ug/L	90	(50-150)		
MS_201205310272	1,1,1,2-Tetrachloroethane	ND	10	9.74	ug/L	97	(70-130)		
MSD_201205310272	1,1,1,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)	20	6.5
LCS1	1,1,1-Trichloroethane		5.0	4.35	ug/L	87	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.2	ug/L	84	(70-130)	20	3.5
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.550	ug/L	110	(50-150)		
MS_201205310272	1,1,1-Trichloroethane	ND	10	11.4	ug/L	114	(70-130)		
MSD_201205310272	1,1,1-Trichloroethane	ND	10	11.6	ug/L	116	(70-130)	20	1.7
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.69	ug/L	94	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.31	ug/L	86	(70-130)	20	8.4
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.520	ug/L	104	(50-150)		
MS_201205310272	1,1,2,2-Tetrachloroethane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201205310272	1,1,2,2-Tetrachloroethane	ND	10	10.6	ug/L	106	(70-130)	20	3.9
LCS1	1,1,2-Trichloroethane		5.0	4.59	ug/L	92	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.52	ug/L	90	(70-130)	20	1.5
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.490	ug/L	98	(50-150)		
MS_201205310272	1,1,2-Trichloroethane	ND	10	9.47	ug/L	95	(70-130)		
MSD_201205310272	1,1,2-Trichloroethane	ND	10	10.1	ug/L	101	(70-130)	20	6.4
LCS1	1,1-Dichloroethane		5.0	4.46	ug/L	89	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.26	ug/L	85	(70-130)	20	4.6
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
MS_201205310272	1,1-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)		
MSD_201205310272	1,1-Dichloroethane	ND	10	10.9	ug/L	109	(70-130)	20	2.8
LCS1	1,1-Dichloroethylene		5.0	4.05	ug/L	81	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.13	ug/L	83	(70-130)	20	2.0
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.590	ug/L	118	(50-150)		
MS_201205310272	1,1-Dichloroethylene	ND	10	11.6	ug/L	116	(70-130)		
MSD_201205310272	1,1-Dichloroethylene	ND	10	11.6	ug/L	116	(70-130)	20	0.0
LCS1	1,2,3-Trichloropropane		5.0	4.56	ug/L	91	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.1	ug/L	102	(70-130)	20	11
MBLK	1,2,3-Trichloropropane			<0.25	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.550	ug/L	110	(50-150)		
MS_201205310272	1,2,3-Trichloropropane	ND	10	11.2	ug/L	112	(70-130)		

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

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

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

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Report: 398298

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201205310272	1,2,3-Trichloropropane	ND	10	11.3	ug/L	113	(70-130)	20	0.89
LCS1	1,2-Dichloroethane		5.0	4.06	ug/L	81	(70-130)		
LCS2	1,2-Dichloroethane		5.0	4.05	ug/L	81	(70-130)	20	0.25
MBLK	1,2-Dichloroethane			<0.25	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
MS_201205310272	1,2-Dichloroethane	ND	10	9.42	ug/L	94	(70-130)		
MSD_201205310272	1,2-Dichloroethane	ND	10	9.65	ug/L	97	(70-130)	20	2.4
LCS1	1,2-Dichloroethane-d4 (S)			92.8	%	93	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MRLW	1,2-Dichloroethane-d4 (S)			96.4	%	96	(70-130)		
MS_201205310272	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
MSD_201205310272	1,2-Dichloroethane-d4 (S)			99.4	%	99	(70-130)		
LCS1	1,2-Dichloropropane		5.0	4.55	ug/L	91	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.67	ug/L	93	(70-130)	20	2.6
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.380	ug/L	76	(50-150)		
MS_201205310272	1,2-Dichloropropane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201205310272	1,2-Dichloropropane	ND	10	10.3	ug/L	102	(70-130)	20	0.98
LCS1	2-Butanone (MEK)		50	43.7	ug/L	87	(70-130)		
LCS2	2-Butanone (MEK)		50	42.1	ug/L	84	(70-130)	20	3.7
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	4.74	ug/L	95	(50-150)		
MS_201205310272	2-Butanone (MEK)	ND	100	97.1	ug/L	97	(70-130)		
MSD_201205310272	2-Butanone (MEK)	ND	100	100	ug/L	100	(70-130)	20	2.9
LCS1	2-Hexanone		50	43.7	ug/L	87	(70-130)		
LCS2	2-Hexanone		50	44.1	ug/L	88	(70-130)	20	0.91
MBLK	2-Hexanone			<5.0	ug/L				
MRL_CHK	2-Hexanone		5.0	4.73	ug/L	95	(50-150)		
MS_201205310272	2-Hexanone	ND	100	102	ug/L	102	(70-130)		
MSD_201205310272	2-Hexanone	ND	100	103	ug/L	103	(70-130)	20	0.98
LCS1	4-Bromofluorobenzene (S)			111	%	111	(70-130)		
LCS2	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene (S)			95.8	%	96	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			99.8	%	100	(70-130)		
MRLW	4-Bromofluorobenzene (S)			94.0	%	94	(70-130)		
MS_201205310272	4-Bromofluorobenzene (S)			103	%	103	(70-130)		

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

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

(S) - Indicates surrogate compound.

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Laboratory QC
Report: 398298

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201205310272	4-Bromofluorobenzene (S)			106	%	106	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	45.0	ug/L	90	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	44.6	ug/L	89	(70-130)	20	0.89
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	4.7	ug/L	94	(50-150)		
MS_201205310272	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	106	(70-130)		
MSD_201205310272	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	105	(70-130)	20	0.0
LCS1	Acetone		50	47.5	ug/L	95	(70-130)		
LCS2	Acetone		50	45.0	ug/L	90	(70-130)	20	5.4
MBLK	Acetone			<5	ug/L				
MRL_CHK	Acetone		5.0	4.36	ug/L	87	(50-150)		
MS_201205310272	Acetone	ND	100	100	ug/L	100	(70-130)		
MSD_201205310272	Acetone	ND	100	106	ug/L	106	(70-130)	20	5.8
LCS1	Acrylonitrile (Screen)		5.0	4.62	ug/L	92	(70-130)		
LCS2	Acrylonitrile (Screen)		5.0	4.37	ug/L	87	(70-130)	20	5.6
MBLK	Acrylonitrile (Screen)			<50	ug/L				
MRL_CHK	Acrylonitrile (Screen)		0.5	0.300	ug/L	60	(15-150)		
MS_201205310272	Acrylonitrile (Screen)	ND	10	10.6	ug/L	106	(70-130)		
MSD_201205310272	Acrylonitrile (Screen)	ND	10	10.5	ug/L	105	(70-130)	20	0.95
LCS1	Benzene		5.0	4.27	ug/L	85	(70-130)		
LCS2	Benzene		5.0	4.13	ug/L	83	(70-130)	20	3.3
MBLK	Benzene			<0.25	ug/L				
MRL_CHK	Benzene		0.5	0.510	ug/L	102	(50-150)		
MS_201205310272	Benzene	ND	10	10.6	ug/L	106	(70-130)		
MSD_201205310272	Benzene	ND	10	11.3	ug/L	113	(70-130)	20	6.4
LCS1	Bromochloromethane		5.0	4.77	ug/L	95	(70-130)		
LCS2	Bromochloromethane		5.0	4.62	ug/L	92	(70-130)	20	3.2
MBLK	Bromochloromethane			<0.25	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.560	ug/L	112	(50-150)		
MS_201205310272	Bromochloromethane	ND	10	10.9	ug/L	109	(70-130)		
MSD_201205310272	Bromochloromethane	ND	10	10.2	ug/L	101	(70-130)	20	6.6
LCS1	Bromodichloromethane		5.0	4.19	ug/L	84	(70-130)		
LCS2	Bromodichloromethane		5.0	4.05	ug/L	81	(70-130)	20	3.4
MBLK	Bromodichloromethane			<0.25	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.520	ug/L	104	(50-150)		
MS_201205310272	Bromodichloromethane	ND	10	9.8	ug/L	98	(70-130)		
MSD_201205310272	Bromodichloromethane	ND	10	10.1	ug/L	101	(70-130)	20	3.0
LCS1	Bromoform		5.0	4.34	ug/L	87	(70-130)		

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

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Laboratory QC
Report: 398298

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Bromoform		5.0	4.03	ug/L	81	(70-130)	20	7.4
MBLK	Bromoform			<0.25	ug/L				
MRL_CHK	Bromoform		0.5	0.490	ug/L	98	(50-150)		
MS_201205310272	Bromoform	ND	10	9.83	ug/L	98	(70-130)		
MSD_201205310272	Bromoform	ND	10	10.8	ug/L	108	(70-130)	20	9.4
LCS1	Bromomethane (Methyl Bromide)		5.0	4.49	ug/L	90	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	4.32	ug/L	86	(70-130)	20	3.9
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.510	ug/L	102	(50-150)		
MS_201205310272	Bromomethane (Methyl Bromide)	ND	10	10.9	ug/L	110	(70-130)		
MSD_201205310272	Bromomethane (Methyl Bromide)	ND	10	11.3	ug/L	113	(70-130)	20	2.7
LCS1	Carbon disulfide		5.0	4.4	ug/L	88	(70-130)		
LCS2	Carbon disulfide		5.0	4.09	ug/L	82	(70-130)	20	7.3
MBLK	Carbon disulfide			<0.25	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.500	ug/L	100	(50-150)		
MS_201205310272	Carbon disulfide	ND	10	11.3	ug/L	114	(70-130)		
MSD_201205310272	Carbon disulfide	ND	10	11.3	ug/L	113	(70-130)	20	0.88
LCS1	Carbon Tetrachloride		5.0	4.42	ug/L	88	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.24	ug/L	85	(70-130)	20	4.2
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.510	ug/L	102	(50-150)		
MS_201205310272	Carbon Tetrachloride	ND	10	11.4	ug/L	114	(70-130)		
MSD_201205310272	Carbon Tetrachloride	ND	10	11.7	ug/L	117	(70-130)	20	2.6
LCS1	Chlorobenzene		5.0	4.19	ug/L	84	(70-130)		
LCS2	Chlorobenzene		5.0	3.99	ug/L	80	(70-130)	20	4.9
MBLK	Chlorobenzene			<0.25	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.450	ug/L	90	(50-150)		
MS_201205310272	Chlorobenzene	ND	10	10.3	ug/L	103	(70-130)		
MSD_201205310272	Chlorobenzene	ND	10	10.4	ug/L	104	(70-130)	20	0.97
LCS1	Chlorodibromomethane		5.0	4.28	ug/L	86	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.22	ug/L	84	(70-130)	20	1.4
MBLK	Chlorodibromomethane			<0.25	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.470	ug/L	94	(50-150)		
MS_201205310272	Chlorodibromomethane	ND	10	10.3	ug/L	103	(70-130)		
MSD_201205310272	Chlorodibromomethane	ND	10	10.7	ug/L	107	(70-130)	20	3.8
LCS1	Chloroethane		5.0	4.46	ug/L	89	(70-130)		
LCS2	Chloroethane		5.0	4.36	ug/L	87	(70-130)	20	2.3
MBLK	Chloroethane			<0.25	ug/L				

Spike recovery is already corrected for native results.

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

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

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Laboratory QC
Report: 398298

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Chloroethane		0.5	0.720	ug/L	144	(50-150)		
MS_201205310272	Chloroethane	ND	10	11.3	ug/L	113	(70-130)		
MSD_201205310272	Chloroethane	ND	10	11.7	ug/L	116	(70-130)	20	2.6
LCS1	Chloroform (Trichloromethane)		5.0	4.35	ug/L	87	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.05	ug/L	81	(70-130)	20	7.1
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.500	ug/L	100	(50-150)		
MS_201205310272	Chloroform (Trichloromethane)	ND	10	10.1	ug/L	101	(70-130)		
MSD_201205310272	Chloroform (Trichloromethane)	ND	10	10.4	ug/L	105	(70-130)	20	3.9
LCS1	Chloromethane(Methyl Chloride)		5.0	4.27	ug/L	85	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	4.08	ug/L	82	(70-130)	20	4.5
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.550	ug/L	110	(50-150)		
MS_201205310272	Chloromethane(Methyl Chloride)	ND	10	11.7	ug/L	114	(70-130)		
MSD_201205310272	Chloromethane(Methyl Chloride)	ND	10	11.7	ug/L	114	(70-130)	20	0.0
LCS1	cis-1,2-Dichloroethylene		5.0	4.48	ug/L	90	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	4.06	ug/L	81	(70-130)	20	9.8
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.460	ug/L	92	(50-150)		
MS_201205310272	cis-1,2-Dichloroethylene	ND	10	10.3	ug/L	103	(70-130)		
MSD_201205310272	cis-1,2-Dichloroethylene	ND	10	11.1	ug/L	111	(70-130)	20	7.5
LCS1	cis-1,3-Dichloropropene		5.0	3.98	ug/L	80	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	3.9	ug/L	78	(70-130)	20	2.0
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.350	ug/L	70	(50-150)		
MS_201205310272	cis-1,3-Dichloropropene	ND	10	10.3	ug/L	103	(70-130)		
MSD_201205310272	cis-1,3-Dichloropropene	ND	10	10.4	ug/L	104	(70-130)	20	0.97
LCS1	Dibromomethane		5.0	4.72	ug/L	94	(70-130)		
LCS2	Dibromomethane		5.0	4.38	ug/L	88	(70-130)	20	7.5
MBLK	Dibromomethane			<0.25	ug/L				
MRL_CHK	Dibromomethane		0.5	0.380	ug/L	76	(50-150)		
MS_201205310272	Dibromomethane	ND	10	9.71	ug/L	97	(70-130)		
MSD_201205310272	Dibromomethane	ND	10	9.89	ug/L	99	(70-130)	20	1.8
LCS1	Dichloromethane		5.0	4.32	ug/L	86	(70-130)		
LCS2	Dichloromethane		5.0	4.17	ug/L	83	(70-130)	20	3.5
MBLK	Dichloromethane			<0.25	ug/L				
MRL_CHK	Dichloromethane		0.5	0.560	ug/L	112	(50-150)		
MS_201205310272	Dichloromethane	ND	10	10.5	ug/L	105	(70-130)		

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

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

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Laboratory QC
Report: 398298

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201205310272	Dichloromethane	ND	10	10.5	ug/L	105	(70-130)	20	0.0
LCS1	Ethyl benzene		5.0	4.47	ug/L	89	(70-130)		
LCS2	Ethyl benzene		5.0	4.35	ug/L	87	(70-130)	20	2.7
MBLK	Ethyl benzene			<0.25	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.480	ug/L	96	(50-150)		
MS_201205310272	Ethyl benzene	ND	10	11.2	ug/L	112	(70-130)		
MSD_201205310272	Ethyl benzene	ND	10	11.3	ug/L	113	(70-130)	20	0.89
LCS1	Iodomethane		5.0	4.98	ug/L	100	(70-130)		
LCS2	Iodomethane		5.0	4.77	ug/L	95	(70-130)	20	4.3
MBLK	Iodomethane			<0.1	ug/L				
MRL_CHK	Iodomethane		0.5	0.570	ug/L	114	(50-150)		
MRLLW	Iodomethane			0.110	ug/L				
MS_201205310272	Iodomethane	ND	10	11.4	ug/L	114	(70-130)		
MSD_201205310272	Iodomethane	ND	10	11.6	ug/L	116	(70-130)	20	1.7
LCS1	m,p-Xylenes		10	8.78	ug/L	88	(70-130)		
LCS2	m,p-Xylenes		10	8.76	ug/L	88	(70-130)	20	0.23
MBLK	m,p-Xylenes			<0.25	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.870	ug/L	87	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.430	ug/L	86	(50-150)		
MS_201205310272	m,p-Xylenes	ND	20	22.2	ug/L	111	(70-130)		
MSD_201205310272	m,p-Xylenes	ND	20	22.9	ug/L	115	(70-130)	20	3.1
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.43	ug/L	89	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.37	ug/L	87	(70-130)	20	1.4
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.610	ug/L	122	(50-150)		
MS_201205310272	Methyl Tert-butyl ether (MTBE)	ND	10	10.4	ug/L	104	(70-130)		
MSD_201205310272	Methyl Tert-butyl ether (MTBE)	ND	10	10.3	ug/L	103	(70-130)	20	0.97
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	4.23	ug/L	85	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	4.45	ug/L	89	(70-130)	20	5.1
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.460	ug/L	92	(50-150)		
MS_201205310272	o-Dichlorobenzene (1,2-DCB)	ND	10	9.97	ug/L	100	(70-130)		
MSD_201205310272	o-Dichlorobenzene (1,2-DCB)	ND	10	10.3	ug/L	103	(70-130)	20	3.3
LCS1	o-Xylene		5.0	4.47	ug/L	89	(70-130)		
LCS2	o-Xylene		5.0	4.36	ug/L	87	(70-130)	20	2.5
MBLK	o-Xylene			<0.25	ug/L				
MRL_CHK	o-Xylene		0.5	0.470	ug/L	94	(50-150)		
MS_201205310272	o-Xylene	ND	10	10.9	ug/L	110	(70-130)		

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City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201205310272	o-Xylene	ND	10	11.0	ug/L	110	(70-130)	20	0.0
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	4.84	ug/L	97	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	4.51	ug/L	90	(70-130)	20	7.1
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.610	ug/L	122	(50-150)		
MS_201205310272	p-Dichlorobenzene (1,4-DCB)	ND	10	10.8	ug/L	108	(70-130)		
MSD_201205310272	p-Dichlorobenzene (1,4-DCB)	ND	10	11.0	ug/L	110	(70-130)	20	1.8
LCS1	Styrene		5.0	4.3	ug/L	86	(70-130)		
LCS2	Styrene		5.0	3.98	ug/L	80	(70-130)	20	7.7
MBLK	Styrene			<0.25	ug/L				
MRL_CHK	Styrene		0.5	0.390	ug/L	78	(50-150)		
MS_201205310272	Styrene	ND	10	5.16	ug/L	<u>52</u>	(70-130)		
MSD_201205310272	Styrene	ND	10	4.51	ug/L	<u>45</u>	(70-130)	20	13
LCS1	Tetrachloroethylene (PCE)		5.0	4.28	ug/L	86	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.12	ug/L	82	(70-130)	20	3.8
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.490	ug/L	98	(50-150)		
MS_201205310272	Tetrachloroethylene (PCE)	ND	10	11.2	ug/L	112	(70-130)		
MSD_201205310272	Tetrachloroethylene (PCE)	ND	10	11.5	ug/L	115	(70-130)	20	2.6
LCS1	Toluene		5.0	4.37	ug/L	87	(70-130)		
LCS2	Toluene		5.0	4.09	ug/L	82	(70-130)	20	6.6
MBLK	Toluene			<0.25	ug/L				
MRL_CHK	Toluene		0.5	0.510	ug/L	102	(50-150)		
MS_201205310272	Toluene	ND	10	10.7	ug/L	107	(70-130)		
MSD_201205310272	Toluene	ND	10	10.5	ug/L	105	(70-130)	20	1.9
LCS1	Toluene-d8 (S)			93.6	%	94	(70-130)		
LCS2	Toluene-d8 (S)			94.0	%	94	(70-130)		
MBLK	Toluene-d8 (S)			94.8	%	95	(70-130)		
MRL_CHK	Toluene-d8 (S)			98.6	%	99	(70-130)		
MRLLW	Toluene-d8 (S)			98.6	%	99	(70-130)		
MS_201205310272	Toluene-d8 (S)			100	%	100	(70-130)		
MSD_201205310272	Toluene-d8 (S)			99.6	%	100	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	4.39	ug/L	88	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.12	ug/L	82	(70-130)	20	6.3
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
MS_201205310272	trans-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)		
MSD_201205310272	trans-1,2-Dichloroethylene	ND	10	10.9	ug/L	110	(70-130)	20	1.8

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Laboratory QC
Report: 398298

City of Phoenix

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	trans-1,3-Dichloropropene		5.0	3.86	ug/L	77	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	3.89	ug/L	78	(70-130)	20	0.77
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.420	ug/L	84	(50-150)		
MS_201205310272	trans-1,3-Dichloropropene	ND	10	9.85	ug/L	99	(70-130)		
MSD_201205310272	trans-1,3-Dichloropropene	ND	10	10.1	ug/L	101	(70-130)	20	2.5
LCS1	trans-1,4-dichloro-2-butene		5.0	4.61	ug/L	92	(70-130)		
LCS2	trans-1,4-dichloro-2-butene		5.0	4.91	ug/L	98	(70-130)	20	6.3
MBLK	trans-1,4-dichloro-2-butene			<10	ug/L				
MRL_CHK	trans-1,4-dichloro-2-butene		0.5	0.890	ug/L	178	(50-150)		
MS_201205310272	trans-1,4-dichloro-2-butene	ND	10	10.5	ug/L	105	(70-130)		
MSD_201205310272	trans-1,4-dichloro-2-butene	ND	10	11.2	ug/L	112	(70-130)	20	6.5
LCS1	Trichloroethylene (TCE)		5.0	4.76	ug/L	95	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.47	ug/L	89	(70-130)	20	6.3
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.420	ug/L	84	(50-150)		
MS_201205310272	Trichloroethylene (TCE)	ND	10	11.2	ug/L	112	(70-130)		
MSD_201205310272	Trichloroethylene (TCE)	ND	10	11.7	ug/L	117	(70-130)	20	4.4
LCS1	Trichlorofluoromethane		5.0	5.02	ug/L	100	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.48	ug/L	90	(70-130)	20	11
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.480	ug/L	96	(50-150)		
MS_201205310272	Trichlorofluoromethane	ND	10	12.6	ug/L	126	(70-130)		
MSD_201205310272	Trichlorofluoromethane	ND	10	12.5	ug/L	125	(70-130)	20	0.80
LCS1	Vinyl Acetate		25	22.3	ug/L	89	(70-130)		
LCS2	Vinyl Acetate		25	21.7	ug/L	87	(70-130)	20	2.7
MBLK	Vinyl Acetate			<5.0	ug/L				
MRL_CHK	Vinyl Acetate		2.5	2.38	ug/L	95	(50-150)		
MS_201205310272	Vinyl Acetate	ND	50	29.8	ug/L	59	(70-130)		
MSD_201205310272	Vinyl Acetate	ND	50	27.7	ug/L	55	(70-130)	20	7.3
LCS1	Vinyl chloride (VC)		5.0	4.44	ug/L	89	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.12	ug/L	82	(70-130)	20	7.5
MBLK	Vinyl chloride (VC)			<0.15	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.570	ug/L	114	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.240	ug/L	96	(50-150)		
MS_201205310272	Vinyl chloride (VC)	ND	10	12.0	ug/L	120	(70-130)		
MSD_201205310272	Vinyl chloride (VC)	ND	10	12.5	ug/L	125	(70-130)	20	4.1

Spike recovery is already corrected for native results.

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

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

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 657739 - EPA Method 504.1 by EPA 8011						Analysis Date: 06/11/2012			
CCCM	1,2-Dibromo-3-chloropropane		0.25	0.214	ug/L	85	(70-130)		
MBLK	1,2-Dibromo-3-chloropropane			<0.01	ug/L				
MRL_CHK	1,2-Dibromo-3-chloropropane		0.01	0.0100	ug/L	100	(60-140)		
MS_201206040077	1,2-Dibromo-3-chloropropane	ND	0.25	0.199	ug/L	80	(65-135)		
MS_201205310272	1,2-Dibromo-3-chloropropane	ND	0.25	0.198	ug/L	79	(65-135)		
MSD_201205310272	1,2-Dibromo-3-chloropropane	ND	0.25	0.228	ug/L	91	(65-135)	20	14
MSD_201206040077	1,2-Dibromo-3-chloropropane	ND	0.25	0.213	ug/L	85	(65-135)	20	6.8
CCCM	1,2-Dibromoethane		0.25	0.257	ug/L	103	(70-130)		
MBLK	1,2-Dibromoethane			<0.01	ug/L				
MRL_CHK	1,2-Dibromoethane		0.01	0.0121	ug/L	121	(60-140)		
MS_201205310272	1,2-Dibromoethane	ND	0.25	0.258	ug/L	103	(65-135)		
MS_201206040077	1,2-Dibromoethane	ND	0.25	0.247	ug/L	99	(65-135)		
MSD_201206040077	1,2-Dibromoethane	ND	0.25	0.259	ug/L	103	(65-135)	20	4.7
MSD_201205310272	1,2-Dibromoethane	ND	0.25	0.300	ug/L	120	(65-135)	20	15
CCCM	1,2-Dibromopropane (S)			102	%	102	(60-140)		
MBLK	1,2-Dibromopropane (S)			99.4	%	99	(60-140)		
MRL_CHK	1,2-Dibromopropane (S)			104	%	104	(60-140)		
MS_201205310272	1,2-Dibromopropane (S)			113	%	113	(60-140)		
MS_201206040077	1,2-Dibromopropane (S)			106	%	106	(60-140)		
MSD_201206040077	1,2-Dibromopropane (S)			102	%	102	(60-140)		
MSD_201205310272	1,2-Dibromopropane (S)			114	%	114	(60-140)		
QC Ref# 657943 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						Analysis Date: 06/11/2012			
LCS1	Chloride		25	25.7	mg/L	103	(90-110)		
LCS2	Chloride		25	25.6	mg/L	102	(90-110)	20	0.39
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.424	mg/L	85	(50-150)		
MS_201206050034	Chloride	45.1652	13	69.9	mg/L	99	(80-120)		
MSD_201206050034	Chloride	45.1652	13	70.7	mg/L	102	(80-120)	20	1.1
QC Ref# 657968 - Alkalinity in CaCO3 units by SM 2320B						Analysis Date: 06/13/2012			
LCS1	Alkalinity in CaCO3 units		100	94.9	mg/L	95	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	95.6	mg/L	96	(90-110)	20	0.74
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.92	mg/L	96	(50-150)		
MS_201205310272	Alkalinity in CaCO3 units	150	100	209	mg/L	<u>60</u>	(80-120)		
MS_201206060028	Alkalinity in CaCO3 units		100	169	mg/L	<u>54</u>	(80-120)		
MSD_201206060028	Alkalinity in CaCO3 units		100	170	mg/L	<u>54</u>	(80-120)	20	0.59

Spike recovery is already corrected for native results.

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

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

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201205310272	Alkalinity in CaCO3 units	150	100	207	mg/L	<u>58</u>	(80-120)	20	0.96
QC Ref# 658281 - Mercury Total by EPA 245.1						Analysis Date: 06/14/2012			
LCS1	Mercury		1.5	1.52	ug/L	101	(85-115)		
LCS2	Mercury		1.5	1.48	ug/L	99	(85-115)	20	2.7
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.205	ug/L	103	(50-150)		
MS_201205310272	Mercury	ND	1.5	1.45	ug/L	96	(70-130)		
MS_201205310089	Mercury	ND	1.5	1.63	ug/L	108	(70-130)		
MSD_201205310089	Mercury	ND	1.5	1.6	ug/L	106	(70-130)	20	1.9
MSD_201205310272	Mercury	ND	1.5	1.45	ug/L	96	(70-130)	20	0.0
QC Ref# 658504 - Chloride, Sulfate by EPA 300.0 by EPA 300.0						Analysis Date: 06/14/2012			
LCS1	Chloride		25	27.1	mg/L	108	(90-110)		
LCS2	Chloride		25	27.1	mg/L	108	(90-110)	20	0.0
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.458	mg/L	92	(50-150)		
MS_201206050941	Chloride	55	13	82.0	mg/L	108	(80-120)		
MS_201205310272	Chloride	2300	13	3680	mg/L	109	(80-120)		
MSD_201205310272	Chloride	2300	13	3550	mg/L	98	(80-120)	20	3.6
MSD_201206050941	Chloride	55	13	80.7	mg/L	103	(80-120)	20	1.6
QC Ref# 659050 - Nitrate as N by RFA Low Level by EPA 353.2						Analysis Date: 06/01/2012			
LCS1	Nitrate as N by RFA Low Level		1.0	1.04	mg/L	104	(90-110)		
LCS2	Nitrate as N by RFA Low Level		1.0	0.964	mg/L	96	(90-110)	20	7.6
MBLK	Nitrate as N by RFA Low Level			<0.03	mg/L				
MRL_CHK	Nitrate as N by RFA Low Level		0.03	0.0228	mg/L	76	(50-150)		
MS_201205310272	Nitrate as N by RFA Low Level	22	1.0	74.4	mg/L	104	(90-110)		
MSD_201205310272	Nitrate as N by RFA Low Level	22	1.0	74.7	mg/L	104	(90-110)	20	0.40

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