



MWH

LABORATORIES

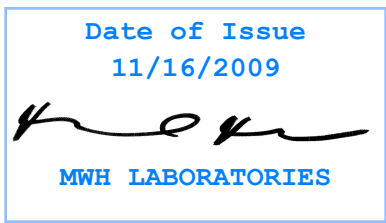
A Division of MWH Americas, Inc.

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

Laboratory Report

for

City of Phoenix
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810
Attention: Hillary Hartline
Fax: (602) 534-9872



Report#: 317745
Project: SR85
Group: SR85-2009

TDF: Thomas.D.French
Project Manager

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

Acknowledgement of Samples Received
City of Phoenix

 Public Works Department
 3060 South 27th Avenue
 Phoenix, AZ 85009-6810
 Attn: Hillary Hartline
 Phone: (602) 534 6655

 Customer Code: PHOENIX-LF
 Group #: 317745
 Project #: SR85
 Sample Group: SR85-2009
 Project Manager: Thomas.D.French
 Phone: (480) 778-1558

The following samples were received from you on **October 26, 2009**. 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																		
200910260038	85A-409	26-Oct-2009 08:24																		
Sample Type: FO Well Id: MW-3 Variable ID: 64809																				
<table border="1"> <thead> <tr> <th>@504</th> <th>@VOA</th> <th>Mercury</th> </tr> </thead> <tbody> <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>Selenium Total ICAP/MS</td> <td>Silver Total ICAP/MS</td> </tr> <tr> <td>Total Dissolved Solid (TDS)</td> <td>Zinc Total ICAP/MS</td> <td></td> </tr> </tbody> </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	Selenium Total ICAP/MS	Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS	
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200910260039	85A-409 MS	26-Oct-2009 08:24																		
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200910260040	85A-409 MSD	26-Oct-2009 08:24																		
Sample Type: QC Well Id: MW-3 Variable ID: 64809																				
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200910260041	85A-409 DUP	26-Oct-2009 08:24																		
Sample Type: QC Well Id: MW-3																				
<table border="1"> <tbody> <tr> <td>Total Dissolved Solid (TDS)</td> <td>2/48</td> <td></td> </tr> </tbody> </table>			Total Dissolved Solid (TDS)	2/48																
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200910260042	85ATB-409	26-Oct-2009 08:24																		

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 3060 South 27th Avenue
 Phoenix, AZ 85009-6810
 Attn: Hillary Hartline
 Phone: (602) 534 6655

 Customer Code: PHOENIX-LF
 Group #: 317745
 Project #: SR85
 Sample Group: SR85-2009
 Project Manager: Thomas.D.French
 Phone: (480) 778-1558

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Sample #	Sample Id	Sample Date															
	Sample Type: TB Well Id: MW-3 Variable ID: 64809 @504 @VOA																
200910260043	85B-409	26-Oct-2009 08:25															
	Sample Type: FB Well Id: MW-3 Variable ID: 64809 @504 @VOA <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Mercury</td> </tr> <tr> <td>Alkalinity in CaCO3 units</td> </tr> <tr> <td>Arsenic Total ICAP/MS</td> </tr> <tr> <td>Barium Total ICAP/MS</td> </tr> <tr> <td>Cadmium Total ICAP/MS</td> </tr> <tr> <td>Chloride</td> </tr> <tr> <td>Chromium Total ICAP/MS</td> </tr> <tr> <td>Copper Total ICAP/MS</td> </tr> <tr> <td>Fluoride</td> </tr> <tr> <td>Lead Total ICAP/MS</td> </tr> <tr> <td>Nickel Total ICAP/MS</td> </tr> <tr> <td>Selenium Total ICAP/MS</td> </tr> <tr> <td>Silver Total ICAP/MS</td> </tr> <tr> <td>Total Dissolved Solid (TDS)</td> </tr> <tr> <td>Zinc Total ICAP/MS</td> </tr> </table>	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	Selenium Total ICAP/MS	Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS	
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Silver Total ICAP/MS																	
Total Dissolved Solid (TDS)																	
Zinc Total ICAP/MS																	
200910260044	85C-409	26-Oct-2009 09:21															
	Sample Type: FO Well Id: MW-4 Variable ID: 64810 @504 @VOA <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Mercury</td> </tr> <tr> <td>Alkalinity in CaCO3 units</td> </tr> <tr> <td>Arsenic Total ICAP/MS</td> </tr> <tr> <td>Barium Total ICAP/MS</td> </tr> <tr> <td>Cadmium Total ICAP/MS</td> </tr> <tr> <td>Chloride</td> </tr> <tr> <td>Chromium Total ICAP/MS</td> </tr> <tr> <td>Copper Total ICAP/MS</td> </tr> <tr> <td>Fluoride</td> </tr> <tr> <td>Lead Total ICAP/MS</td> </tr> <tr> <td>Nickel Total ICAP/MS</td> </tr> <tr> <td>Selenium Total ICAP/MS</td> </tr> <tr> <td>Silver Total ICAP/MS</td> </tr> <tr> <td>Total Dissolved Solid (TDS)</td> </tr> <tr> <td>Zinc Total ICAP/MS</td> </tr> </table>	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	Selenium Total ICAP/MS	Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS	
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200910260045	85D-409	26-Oct-2009 09:22															
	Sample Type: FD Well Id: MW-4 Variable ID: 64810 @504 @VOA <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Mercury</td> </tr> <tr> <td>Alkalinity in CaCO3 units</td> </tr> <tr> <td>Arsenic Total ICAP/MS</td> </tr> <tr> <td>Barium Total ICAP/MS</td> </tr> <tr> <td>Cadmium Total ICAP/MS</td> </tr> <tr> <td>Chloride</td> </tr> <tr> <td>Chromium Total ICAP/MS</td> </tr> <tr> <td>Copper Total ICAP/MS</td> </tr> <tr> <td>Fluoride</td> </tr> <tr> <td>Lead Total ICAP/MS</td> </tr> <tr> <td>Nickel Total ICAP/MS</td> </tr> <tr> <td>Selenium Total ICAP/MS</td> </tr> <tr> <td>Silver Total ICAP/MS</td> </tr> <tr> <td>Total Dissolved Solid (TDS)</td> </tr> <tr> <td>Zinc Total ICAP/MS</td> </tr> </table>	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	Selenium Total ICAP/MS	Silver Total ICAP/MS	Total Dissolved Solid (TDS)	Zinc Total ICAP/MS	
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200910260046	85DTB-409	26-Oct-2009 09:22															
	3/48																

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 3060 South 27th Avenue
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Sample #	Sample Id	Sample Date
	Sample Type: TB Well Id: MW-4 Variable ID: 64810 @504 @VOA	
200910260047	85E-409	26-Oct-2009 10:48
	Sample Type: FO Well Id: MW-2 Variable ID: 64808 @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 Selenium Total ICAP/MS Silver Total ICAP/MS Total Dissolved Solid (TDS) Zinc Total ICAP/MS	
200910260048	85F-409	26-Oct-2009 11:30
	Sample Type: FO Well Id: MW-1 Variable ID: 64807 @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 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



CHAIN OF CUSTODY RECORD

MWH LABS USE ONLY:

LABORATORIES

750 Royal Oaks, Suite 100
Monrovia, California 91016
Phone: (626) 386-1100
(800) 566-5227
Fax: (626) 386-1101

LOGIN COMMENTS: Rec some samples SAMPLES CHECKED AGAINST COC BY: 317745

out of HT (log FA by low-level) SAMPLES LOGGED IN BY: w

SAMPLE TEMP RECEIVED AT: 3.9°C (Compliance: 4 +/- 2°C)

RECEIVED FROM CLIENT: REFRIGERATED ON ICE

Monrovia 2°C (Compliance: 4 +/- 2°C)

CONDITION OF ICE: FROZEN PARTIALLY FROZEN THAWED

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

TO BE COMPLETED BY SAMPLER:

COMPANY, UTILITY OR PROJECT: City of Phoenix

MWH LABS CLIENT CODE: Phoenix-LF

SAMPLER PRINTED NAME AND SIGNATURE: HARTUNE HARTUNE

(check for yes)

SYSTEM #: SR-85 LF

P.O.# / JOB # / PROJECT :

TAT requested: rush by adv notice only
STD 1 week 3 day 2 day 1 day

(check for yes)

COMPLIANCE SAMPLES

NON-COMPLIANCE SAMPLES

REGULATION INVOLVED:

SEE ATTACHED BOTTLE ORDER FOR ANALYSES

LIST ANALYSES REQUIRED BELOW (enter number of bottles sent for each test for each sample)

(eg. SDWA, Phase V, NPDES, FDA...)

ROUTINE SPECIAL CONFIRMATION

Check for yes, OR

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

Check for yes

* MATRIX TYPES: RSW = Raw Surface Water CFW = Chlorinated Waste Water BW = Bottled Water SO = Soil
RGW = Raw Ground Water FW = Other Finished Water WW = Other Waste Water SW = Storm Water SL = Sludge

RELINQUISHED BY: [Signature] SIGNATURE

RECEIVED BY: [Signature] PRINT NAME

RELINQUISHED BY: [Signature] COMPANY/TITLE

RECEIVED BY: [Signature] DATE

RELINQUISHED BY: [Signature] TIME

RECEIVED BY: [Signature] DATE

RELINQUISHED BY: [Signature] TIME

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City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Laboratory Comments
Report: #317745

Acetone detection in Travel Blanks is suspected to have originated from MWH's deionized water system. This compound was not detected in associated Field Original samples.



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Laboratory
Hits Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
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Samples Received on:
10/26/2009

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		200910260038	<u>85A-409</u>			
10/28/2009	14:23	Alkalinity in CaCO3 units	95		mg/L	2
10/30/2009	19:45	Arsenic Total ICAP/MS	7.6	10	ug/L	1
10/30/2009	19:45	Barium Total ICAP/MS	51	2000	ug/L	2
10/29/2009	14:32	Chloride	770	250	mg/L	25
10/30/2009	19:45	Chromium Total ICAP/MS	3.7	100	ug/L	1
10/30/2009	19:45	Copper Total ICAP/MS	3.4	1300	ug/L	2
10/28/2009	14:12	Fluoride	4.5	4	mg/L	0.25
10/29/2009	12:34	Total Dissolved Solids (TDS)	1600	500	mg/L	10
		200910260041	<u>85A-409 DUP</u>			
10/29/2009	12:35	Total Dissolved Solids (TDS)	1700	500	mg/L	10
		200910260042	<u>85ATB-409</u>			
10/28/2009	13:43	Acetone	17		ug/L	10
		200910260043	<u>85B-409</u>			
10/29/2009	13:50	Alkalinity in CaCO3 units	2.1		mg/L	2
		200910260044	<u>85C-409</u>			
10/28/2009	16:49	Alkalinity in CaCO3 units	100		mg/L	2
10/30/2009	20:47	Arsenic Total ICAP/MS	4.9	10	ug/L	1
10/30/2009	20:47	Barium Total ICAP/MS	71	2000	ug/L	2
10/29/2009	15:13	Chloride	900	250	mg/L	25
10/30/2009	20:47	Chromium Total ICAP/MS	3.5	100	ug/L	1
10/30/2009	20:47	Copper Total ICAP/MS	4.4	1300	ug/L	2
10/28/2009	14:16	Fluoride	2.7	4	mg/L	0.05
10/30/2009	20:47	Nickel Total ICAP/MS	15		ug/L	5
10/30/2009	20:47	Selenium Total ICAP/MS	5.2	50	ug/L	5
10/29/2009	12:37	Total Dissolved Solids (TDS)	2200	500	mg/L	10
		200910260045	<u>85D-409</u>			
10/28/2009	16:58	Alkalinity in CaCO3 units	100		mg/L	2
10/30/2009	20:50	Arsenic Total ICAP/MS	5.0	10	ug/L	1
10/30/2009	20:50	Barium Total ICAP/MS	70	2000	ug/L	2
10/29/2009	15:26	Chloride	910	250	mg/L	25
10/30/2009	20:50	Chromium Total ICAP/MS	3.7	100	ug/L	1
10/30/2009	20:50	Copper Total ICAP/MS	4.4	1300	ug/L	2
10/28/2009	14:17	Fluoride	2.7	4	mg/L	0.05
10/30/2009	20:50	Nickel Total ICAP/MS	14		ug/L	5



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City of Phoenix
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Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
10/30/2009	20:50	Selenium Total ICAP/MS	5.4	50	ug/L	5
10/29/2009	12:38	Total Dissolved Solids (TDS)	2300	500	mg/L	10
		200910260046 <u>85DTB-409</u>				
10/28/2009	15:16	Acetone	17		ug/L	10
		200910260047 <u>85E-409</u>				
10/28/2009	17:06	Alkalinity in CaCO3 units	93		mg/L	2
10/30/2009	20:53	Arsenic Total ICAP/MS	4.8	10	ug/L	1
10/30/2009	20:53	Barium Total ICAP/MS	56	2000	ug/L	2
10/29/2009	15:40	Chloride	1400	250	mg/L	50
10/30/2009	20:53	Chromium Total ICAP/MS	4.0	100	ug/L	1
10/30/2009	20:53	Copper Total ICAP/MS	7.6	1300	ug/L	2
10/28/2009	14:18	Fluoride	2.5	4	mg/L	0.05
10/30/2009	20:53	Nickel Total ICAP/MS	7.7		ug/L	5
10/30/2009	20:53	Selenium Total ICAP/MS	9.6	50	ug/L	5
10/29/2009	12:39	Total Dissolved Solids (TDS)	3400	500	mg/L	10
		200910260048 <u>85F-409</u>				
10/28/2009	17:14	Alkalinity in CaCO3 units	150		mg/L	2
11/07/2009	13:41	Arsenic Total ICAP/MS	5.8	10	ug/L	1
11/07/2009	13:41	Barium Total ICAP/MS	82	2000	ug/L	2
10/30/2009	14:20	Chloride	1900	250	mg/L	50
11/07/2009	13:41	Chromium Total ICAP/MS	3.1	100	ug/L	1
11/07/2009	13:41	Copper Total ICAP/MS	6.8	1300	ug/L	2
10/28/2009	14:19	Fluoride	0.47	4	mg/L	0.05
11/07/2009	13:41	Nickel Total ICAP/MS	14		ug/L	5
11/07/2009	13:41	Selenium Total ICAP/MS	15	50	ug/L	5
10/29/2009	12:40	Total Dissolved Solids (TDS)	4900	500	mg/L	10



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Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
85A-409 (200910260038)						Sampled on 10/26/2009 08:24		
Sample Type: FO								
Well Id: MW-3								
Variable ID: 64809								
EPA 200.8 - ICPMS Metals								
10/30/2009	19:45	529658	(EPA 200.8)	Arsenic Total ICAP/MS	7.6	ug/L	1	1
10/30/2009	19:45	529658	(EPA 200.8)	Barium Total ICAP/MS	51	ug/L	2	1
11/02/2009	17:42	529910	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
10/30/2009	19:45	529658	(EPA 200.8)	Chromium Total ICAP/MS	3.7	ug/L	1	1
10/30/2009	19:45	529658	(EPA 200.8)	Copper Total ICAP/MS	3.4	ug/L	2	1
10/30/2009	19:45	529658	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
10/30/2009	19:45	529658	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5	1
10/30/2009	19:45	529658	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5	1
11/02/2009	17:42	529910	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
10/30/2009	19:45	529658	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 245.1 - Mercury								
10/30/2009	10/30/2009	22:45	529837 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
EPA 8011 - EPA Method 504.1								
10/29/2009	10/29/2009	20:16	529524 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/29/2009	10/29/2009	20:16	529524 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
10/29/2009	14:32	529555	(EPA 300.0)	Chloride	770	mg/L	25	25
EPA 8260 - Volatile Organics by GCMS								
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	2-Hexanone	ND	ug/L	10	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
10/28/2009	10/28/2009	12:10	529401 (EPA 8260)	Acetone	ND	ug/L	10	1

Rounding on totals after summation.
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750 Royal Oak Dr., Suite 100
Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Acrylonitrile (Screen)	ND	50	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Benzene	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Bromochloromethane	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Bromodichloromethane	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Bromoform	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Carbon disulfide	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Carbon Tetrachloride	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Chlorobenzene	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Chlorodibromomethane	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Chloroethane	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Chloroform (Trichloromethane)	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	cis-1,2-Dichloroethylene	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	cis-1,3-Dichloropropene	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Dibromomethane	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Dichloromethane	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Ethyl benzene	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Iodomethane	ND	0.1	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	m,p-Xylenes	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	o-Xylene	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Styrene	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Tetrachloroethylene (PCE)	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Toluene	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Total xylenes	ND	1	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	trans-1,2-Dichloroethylene	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	trans-1,3-Dichloropropene	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	10	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Trichloroethylene (TCE)	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Trichlorofluoromethane	ND	0.5	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Vinyl Acetate	ND	10	1
10/28/2009	10/28/2009	12:10	529401	(EPA 8260)	Vinyl chloride (VC)	ND	0.3	1

Rounding on totals after summation.
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Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
SM 4500F-C - Fluoride								
	10/28/2009	14:12	529352 (SM 4500F-C)	Fluoride	4.5	mg/L	0.25	5
SM 2320B - Alkalinity in CaCO3 units								
	10/28/2009	14:23	529359 (SM 2320B)	Alkalinity in CaCO3 units	95	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
10/29/2009	10/29/2009	12:34	529702 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	1600	mg/L	10	1
85A-409 MS (200910260039)						Sampled on 10/26/2009 08:24		
Sample Type: QC								
Well Id: MW-3								
Variable ID: 64809								
EPA 200.8 - ICPMS Metals								
	10/30/2009	19:48	529658 (EPA 200.8)	Arsenic Total ICAP/MS	102	%	1	1
	10/30/2009	19:48	529658 (EPA 200.8)	Barium Total ICAP/MS	86	%	2	1
	11/02/2009	17:45	529910 (EPA 200.8)	Cadmium Total ICAP/MS	100	%	0.5	1
	10/30/2009	19:48	529658 (EPA 200.8)	Chromium Total ICAP/MS	94	%	1	1
	10/30/2009	19:48	529658 (EPA 200.8)	Copper Total ICAP/MS	81	%	2	1
	10/30/2009	19:48	529658 (EPA 200.8)	Lead Total ICAP/MS	101	%	0.5	1
	10/30/2009	19:48	529658 (EPA 200.8)	Nickel Total ICAP/MS	86	%	5	1
	10/30/2009	19:48	529658 (EPA 200.8)	Selenium Total ICAP/MS	105	%	5	1
	11/02/2009	17:45	529910 (EPA 200.8)	Silver Total ICAP/MS	93	%	0.5	1
	10/30/2009	19:48	529658 (EPA 200.8)	Zinc Total ICAP/MS	97	%	20	1
EPA 245.1 - Mercury								
10/30/2009	10/30/2009	22:48	529837 (EPA 245.1)	Mercury	100	%	0.2	1
EPA 8011 - EPA Method 504.1								
10/29/2009	10/29/2009	20:48	529524 (EPA 8011)	Dibromochloropropane (DBCP)	117	%	0.01	1
10/29/2009	10/29/2009	20:48	529524 (EPA 8011)	Ethylene Dibromide (EDB)	115	%	0.01	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	10/29/2009	14:45	529555 (EPA 300.0)	Chloride	101	%	25	25
EPA 8260 - Volatile Organics by GCMS								
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	1,1,1,2-Tetrachloroethane	94	%	0.5	1
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	1,1,1-Trichloroethane	99	%	0.5	1
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	1,1,2,2-Tetrachloroethane	101	%	0.5	1
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	1,1,2-Trichloroethane	91	%	0.5	1
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	1,1-Dichloroethane	96	%	0.5	1
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	1,1-Dichloroethylene	97	%	0.5	1
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	1,2,3-Trichloropropane	111	%	0.5	1

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Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	1,2-Dichloroethane	106	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	1,2-Dichloropropane	95	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	2-Butanone (MEK)	92	%	5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	2-Hexanone	94	%	10	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	97	%	5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Acetone	93	%	10	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Acrylonitrile (Screen)	108	%	50	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Benzene	97	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Bromochloromethane	96	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Bromodichloromethane	97	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Bromoform	102	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Bromomethane (Methyl Bromide)	102	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Carbon disulfide	98	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Carbon Tetrachloride	103	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Chlorobenzene	98	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Chlorodibromomethane	100	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Chloroethane	111	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Chloroform (Trichloromethane)	99	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Chloromethane(Methyl Chloride)	95	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	cis-1,2-Dichloroethylene	94	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	cis-1,3-Dichloropropene	91	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Dibromomethane	95	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Dichloromethane	90	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Ethyl benzene	93	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Iodomethane	111	%	0.1	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	m,p-Xylenes	99	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	84	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	101	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	o-Xylene	94	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	104	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Styrene	93	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Tetrachloroethylene (PCE)	94	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Toluene	97	%	0.5	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	Total xylenes	97	%	1	1
10/28/2009	10/28/2009	12:33	529401	(EPA 8260)	trans-1,2-Dichloroethylene	95	%	0.5	1

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

Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	trans-1,3-Dichloropropene	87	%	0.5	1
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	trans-1,4-dichloro-2-butene	89	%	10	1
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	Trichloroethylene (TCE)	98	%	0.5	1
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	Trichlorofluoromethane	107	%	0.5	1
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	Vinyl Acetate	93	%	10	1
10/28/2009	10/28/2009	12:33	529401 (EPA 8260)	Vinyl chloride (VC)	102	%	0.3	1
SM 4500F-C - Fluoride								
	10/28/2009	14:13	529352 (SM 4500F-C)	Fluoride	81	%	0.25	5
SM 2320B - Alkalinity in CaCO3 units								
	10/28/2009	14:31	529359 (SM 2320B)	Alkalinity in CaCO3 units	91	%	2	1
85A-409 MSD (200910260040)						Sampled on 10/26/2009 08:24		
Sample Type: QC								
Well Id: MW-3								
Variable ID: 64809								
EPA 200.8 - ICPMS Metals								
	10/30/2009	19:52	529658 (EPA 200.8)	Arsenic Total ICAP/MS	104	%	1	1
	10/30/2009	19:52	529658 (EPA 200.8)	Barium Total ICAP/MS	88	%	2	1
	11/02/2009	17:47	529910 (EPA 200.8)	Cadmium Total ICAP/MS	100	%	0.5	1
	10/30/2009	19:52	529658 (EPA 200.8)	Chromium Total ICAP/MS	95	%	1	1
	10/30/2009	19:52	529658 (EPA 200.8)	Copper Total ICAP/MS	82	%	2	1
	10/30/2009	19:52	529658 (EPA 200.8)	Lead Total ICAP/MS	102	%	0.5	1
	10/30/2009	19:52	529658 (EPA 200.8)	Nickel Total ICAP/MS	86	%	5	1
	10/30/2009	19:52	529658 (EPA 200.8)	Selenium Total ICAP/MS	107	%	5	1
	11/02/2009	17:47	529910 (EPA 200.8)	Silver Total ICAP/MS	93	%	0.5	1
	10/30/2009	19:52	529658 (EPA 200.8)	Zinc Total ICAP/MS	87	%	20	1
EPA 245.1 - Mercury								
	10/30/2009	10/30/2009	22:55 529837 (EPA 245.1)	Mercury	100	%	0.2	1
EPA 8011 - EPA Method 504.1								
	10/29/2009	10/29/2009	21:19 529524 (EPA 8011)	Dibromochloropropane (DBCP)	122	%	0.01	1
	10/29/2009	10/29/2009	21:19 529524 (EPA 8011)	Ethylene Dibromide (EDB)	117	%	0.01	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	10/29/2009	14:59	529555 (EPA 300.0)	Chloride	109	%	25	25
EPA 8260 - Volatile Organics by GCMS								
	10/28/2009	10/28/2009	12:56 529401 (EPA 8260)	1,1,1,2-Tetrachloroethane	94	%	0.5	1
	10/28/2009	10/28/2009	12:56 529401 (EPA 8260)	1,1,1-Trichloroethane	99	%	0.5	1
	10/28/2009	10/28/2009	12:56 529401 (EPA 8260)	1,1,2,2-Tetrachloroethane	105	%	0.5	1

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Report: 317745

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Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	1,1,2-Trichloroethane	91	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	1,1-Dichloroethane	96	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	1,1-Dichloroethylene	98	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	1,2,3-Trichloropropane	111	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	1,2-Dichloroethane	103	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	1,2-Dichloropropane	92	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	2-Butanone (MEK)	92	%	5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	2-Hexanone	94	%	10	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	97	%	5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Acetone	93	%	10	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Acrylonitrile (Screen)	108	%	50	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Benzene	96	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Bromochloromethane	93	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Bromodichloromethane	96	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Bromoform	104	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Bromomethane (Methyl Bromide)	98	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Carbon disulfide	94	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Carbon Tetrachloride	104	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Chlorobenzene	97	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Chlorodibromomethane	100	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Chloroethane	108	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Chloroform (Trichloromethane)	97	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Chloromethane(Methyl Chloride)	90	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	cis-1,2-Dichloroethylene	93	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	cis-1,3-Dichloropropene	91	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Dibromomethane	92	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Dichloromethane	90	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Ethyl benzene	92	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Iodomethane	109	%	0.1	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	m,p-Xylenes	98	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	85	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	102	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	o-Xylene	95	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	103	%	0.5	1
10/28/2009	10/28/2009	12:56	529401	(EPA 8260)	Styrene	90	%	0.5	1

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



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

Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
10/28/2009	10/28/2009	12:56	529401 (EPA 8260)	Tetrachloroethylene (PCE)	94	%	0.5	1
10/28/2009	10/28/2009	12:56	529401 (EPA 8260)	Toluene	97	%	0.5	1
10/28/2009	10/28/2009	12:56	529401 (EPA 8260)	Total xylenes	97	%	1	1
10/28/2009	10/28/2009	12:56	529401 (EPA 8260)	trans-1,2-Dichloroethylene	94	%	0.5	1
10/28/2009	10/28/2009	12:56	529401 (EPA 8260)	trans-1,3-Dichloropropene	86	%	0.5	1
10/28/2009	10/28/2009	12:56	529401 (EPA 8260)	trans-1,4-dichloro-2-butene	91	%	10	1
10/28/2009	10/28/2009	12:56	529401 (EPA 8260)	Trichloroethylene (TCE)	97	%	0.5	1
10/28/2009	10/28/2009	12:56	529401 (EPA 8260)	Trichlorofluoromethane	106	%	0.5	1
10/28/2009	10/28/2009	12:56	529401 (EPA 8260)	Vinyl Acetate	91	%	10	1
10/28/2009	10/28/2009	12:56	529401 (EPA 8260)	Vinyl chloride (VC)	100	%	0.3	1
SM 4500F-C - Fluoride								
	10/28/2009	14:14	529352 (SM 4500F-C)	Fluoride	81	%	0.25	5
SM 2320B - Alkalinity in CaCO3 units								
	10/28/2009	14:40	529359 (SM 2320B)	Alkalinity in CaCO3 units	86	%	2	1
85A-409 DUP (200910260041)								
Sample Type: QC Well Id: MW-3								
E160.1/SM2540C - Total Dissolved Solids (TDS)								
10/29/2009	10/29/2009	12:35	529702 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	1700	mg/L	10	1
85ATB-409 (200910260042)								
Sample Type: TB Well Id: MW-3 Variable ID: 64809								
EPA 8011 - EPA Method 504.1								
10/29/2009	10/29/2009	21:51	529524 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/29/2009	10/29/2009	21:51	529524 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 8260 - Volatile Organics by GCMS								
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1

Sampled on 10/26/2009 08:24

Sampled on 10/26/2009 08:24



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Tel: 626 386 1100
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Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	2-Butanone (MEK)	ND	5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	2-Hexanone	ND	10	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Acetone	17	10	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Acrylonitrile (Screen)	ND	50	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Benzene	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Bromochloromethane	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Bromodichloromethane	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Bromoform	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Carbon disulfide	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Carbon Tetrachloride	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Chlorobenzene	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Chlorodibromomethane	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Chloroethane	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Chloroform (Trichloromethane)	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	cis-1,2-Dichloroethylene	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	cis-1,3-Dichloropropene	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Dibromomethane	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Dichloromethane	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Ethyl benzene	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Iodomethane	ND	0.1	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	m,p-Xylenes	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	o-Xylene	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Styrene	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Tetrachloroethylene (PCE)	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Toluene	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	Total xylenes	ND	1	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	trans-1,2-Dichloroethylene	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	trans-1,3-Dichloropropene	ND	0.5	1
10/28/2009	10/28/2009	13:43	529401	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	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: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
10/28/2009	10/28/2009	13:43	529401 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1

85B-409 (200910260043)

Sampled on 10/26/2009 08:25

Sample Type: FB
Well Id: MW-3
Variable ID: 64809

EPA 200.8 - ICPMS Metals

11/07/2009	13:51	530598	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	4	4
10/30/2009	20:43	529658	(EPA 200.8)	Barium Total ICAP/MS	ND	ug/L	2	1
11/02/2009	18:24	529910	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
11/07/2009	13:51	530598	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	4	4
11/07/2009	13:51	530598	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	8	4
10/30/2009	20:43	529658	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
11/07/2009	13:51	530598	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	20	4
11/07/2009	13:51	530598	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	20	4
11/02/2009	18:24	529910	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
11/07/2009	13:51	530598	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	80	4

EPA 245.1 - Mercury

10/30/2009	10/30/2009	23:02	529837 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
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EPA 8011 - EPA Method 504.1

10/29/2009	10/29/2009	22:22	529524 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/29/2009	10/29/2009	22:22	529524 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1

EPA 300.0 - Chloride, Sulfate by EPA 300.0

10/28/2009	17:47	529220	(EPA 300.0)	Chloride	ND	mg/L	1	1
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EPA 8260 - Volatile Organics by GCMS

10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1

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



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Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	2-Butanone (MEK)	ND	5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	2-Hexanone	ND	10	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Acetone	ND	10	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Acrylonitrile (Screen)	ND	50	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Benzene	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Bromochloromethane	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Bromodichloromethane	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Bromoform	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Carbon disulfide	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Carbon Tetrachloride	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Chlorobenzene	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Chlorodibromomethane	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Chloroethane	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Chloroform (Trichloromethane)	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	cis-1,2-Dichloroethylene	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	cis-1,3-Dichloropropene	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Dibromomethane	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Dichloromethane	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Ethyl benzene	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Iodomethane	ND	0.1	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	m,p-Xylenes	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	o-Xylene	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Styrene	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Tetrachloroethylene (PCE)	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Toluene	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	Total xylenes	ND	1	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	trans-1,2-Dichloroethylene	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	trans-1,3-Dichloropropene	ND	0.5	1
10/28/2009	10/28/2009	14:06	529401	(EPA 8260)	trans-1,4-dichloro-2-butene	ND	10	1

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

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Report: 317745

City of Phoenix
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Public Works Department
3060 South 27th Avenue
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Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
10/28/2009	10/28/2009	14:06	529401 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
	10/28/2009	14:11	529352 (SM 4500F-C)	Fluoride	ND	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
	10/29/2009	13:50	529514 (SM 2320B)	Alkalinity in CaCO3 units	2.1	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
10/29/2009	11/02/2009	16:53	529998 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	10	1
85C-409 (200910260044)						Sampled on 10/26/2009 09:21		
Sample Type: FO								
Well Id: MW-4								
Variable ID: 64810								
EPA 200.8 - ICPMS Metals								
	10/30/2009	20:47	529658 (EPA 200.8)	Arsenic Total ICAP/MS	4.9	ug/L	1	1
	10/30/2009	20:47	529658 (EPA 200.8)	Barium Total ICAP/MS	71	ug/L	2	1
	11/02/2009	18:27	529910 (EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
	10/30/2009	20:47	529658 (EPA 200.8)	Chromium Total ICAP/MS	3.5	ug/L	1	1
	10/30/2009	20:47	529658 (EPA 200.8)	Copper Total ICAP/MS	4.4	ug/L	2	1
	10/30/2009	20:47	529658 (EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
	10/30/2009	20:47	529658 (EPA 200.8)	Nickel Total ICAP/MS	15	ug/L	5	1
	10/30/2009	20:47	529658 (EPA 200.8)	Selenium Total ICAP/MS	5.2	ug/L	5	1
	11/02/2009	18:27	529910 (EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
	10/30/2009	20:47	529658 (EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 245.1 - Mercury								
10/30/2009	10/30/2009	23:03	529837 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
EPA 8011 - EPA Method 504.1								
10/29/2009	10/29/2009	22:53	529524 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/29/2009	10/29/2009	22:53	529524 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	10/29/2009	15:13	529555 (EPA 300.0)	Chloride	900	mg/L	25	25
EPA 8260 - Volatile Organics by GCMS								
10/28/2009	10/28/2009	14:29	529401 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1



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

Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Acetone	ND	ug/L	10	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Benzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:29	529401	(EPA 8260)	Styrene	ND	ug/L	0.5	1

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



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Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Table with columns: Prepared, Analyzed, QC Ref #, Method, Analyte, Result, Units, MRL, Dilution. Rows include various chemical tests like Tetrachloroethylene (PCE), Fluoride, Alkalinity in CaCO3 units, Total Dissolved Solids (TDS), and EPA 200.8 - ICPMS Metals.

Rounding on totals after summation.
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City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
	10/29/2009	15:26	529555	(EPA 300.0)	Chloride	910	mg/L	25 25
EPA 8260 - Volatile Organics by GCMS								
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	2-Hexanone	ND	ug/L	10 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Acetone	ND	ug/L	10 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Benzene	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Bromoform	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Chloroethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Dibromomethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Dichloromethane	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5 1
10/28/2009	10/28/2009	14:53	529401	(EPA 8260)	Iodomethane	ND	ug/L	0.1 1

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



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

Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	o-Xylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	Styrene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	Toluene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	Total xylenes	ND	ug/L	1	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
10/28/2009	10/28/2009	14:53	529401 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
10/28/2009	14:17	529352	(SM 4500F-C)	Fluoride	2.7	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
10/28/2009	16:58	529359	(SM 2320B)	Alkalinity in CaCO3 units	100	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
10/29/2009	10/29/2009	12:38	529702 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	2300	mg/L	10	1
85DTB-409 (200910260046)						Sampled on 10/26/2009 09:22		
Sample Type: TB								
Well Id: MW-4								
Variable ID: 64810								
EPA 8011 - EPA Method 504.1								
10/29/2009	10/29/2009	23:56	529524 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/29/2009	10/29/2009	23:56	529524 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 8260 - Volatile Organics by GCMS								
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1

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Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
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Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Acetone	17	ug/L	10	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Benzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Styrene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Toluene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401	(EPA 8260)	Total xylenes	ND	ug/L	1	1

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



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750 Royal Oak Dr., Suite 100
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Tel: 626 386 1100
Fax: 626 386 1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
10/28/2009	10/28/2009	15:16	529401 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1

85E-409 (200910260047)

Sampled on 10/26/2009 10:48

Sample Type: FO
Well Id: MW-2
Variable ID: 64808

EPA 200.8 - ICPMS Metals

10/30/2009	20:53	529658	(EPA 200.8)	Arsenic Total ICAP/MS	4.8	ug/L	1	1
10/30/2009	20:53	529658	(EPA 200.8)	Barium Total ICAP/MS	56	ug/L	2	1
11/02/2009	18:32	529910	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
10/30/2009	20:53	529658	(EPA 200.8)	Chromium Total ICAP/MS	4.0	ug/L	1	1
10/30/2009	20:53	529658	(EPA 200.8)	Copper Total ICAP/MS	7.6	ug/L	2	1
10/30/2009	20:53	529658	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
10/30/2009	20:53	529658	(EPA 200.8)	Nickel Total ICAP/MS	7.7	ug/L	5	1
10/30/2009	20:53	529658	(EPA 200.8)	Selenium Total ICAP/MS	9.6	ug/L	5	1
11/02/2009	18:32	529910	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
10/30/2009	20:53	529658	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1

EPA 245.1 - Mercury

10/30/2009	10/30/2009	23:06	529837 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
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EPA 8011 - EPA Method 504.1

10/29/2009	10/30/2009	00:28	529524 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/29/2009	10/30/2009	00:28	529524 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1

EPA 300.0 - Chloride, Sulfate by EPA 300.0

10/29/2009	15:40	529555	(EPA 300.0)	Chloride	1400	mg/L	50	50
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EPA 8260 - Volatile Organics by GCMS

10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Acetone	ND	ug/L	10	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Benzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	o-Xylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Styrene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Toluene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401	(EPA 8260)	Total xylenes	ND	ug/L	1	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: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
10/28/2009	10/28/2009	15:39	529401 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
	10/28/2009	14:18	529352 (SM 4500F-C)	Fluoride	2.5	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
	10/28/2009	17:06	529359 (SM 2320B)	Alkalinity in CaCO3 units	93	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
10/29/2009	10/29/2009	12:39	529702 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	3400	mg/L	10	1
85F-409 (200910260048)						Sampled on 10/26/2009 11:30		
Sample Type: FO								
Well Id: MW-1								
Variable ID: 64807								
EPA 200.8 - ICPMS Metals								
11/07/2009	13:41	530598	(EPA 200.8)	Arsenic Total ICAP/MS	5.8	ug/L	1	1
11/07/2009	13:41	530598	(EPA 200.8)	Barium Total ICAP/MS	82	ug/L	2	1
11/02/2009	18:39	529910	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.5	1
11/07/2009	13:41	530598	(EPA 200.8)	Chromium Total ICAP/MS	3.1	ug/L	1	1
11/07/2009	13:41	530598	(EPA 200.8)	Copper Total ICAP/MS	6.8	ug/L	2	1
10/30/2009	21:04	529658	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.5	1
11/07/2009	13:41	530598	(EPA 200.8)	Nickel Total ICAP/MS	14	ug/L	5	1
11/07/2009	13:41	530598	(EPA 200.8)	Selenium Total ICAP/MS	15	ug/L	5	1
11/02/2009	18:39	529910	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.5	1
11/07/2009	13:41	530598	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 245.1 - Mercury								
10/30/2009	10/30/2009	23:07	529837 (EPA 245.1)	Mercury	ND	ug/L	0.2	1
EPA 8011 - EPA Method 504.1								
10/29/2009	10/30/2009	00:59	529524 (EPA 8011)	Dibromochloropropane (DBCP)	ND	ug/L	0.01	1
10/29/2009	10/30/2009	00:59	529524 (EPA 8011)	Ethylene Dibromide (EDB)	ND	ug/L	0.01	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0								
10/30/2009	14:20	529726	(EPA 300.0)	Chloride	1900	mg/L	50	50
EPA 8260 - Volatile Organics by GCMS								

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Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	1,1-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	1,1-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	1,2-Dichloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	1,2-Dichloropropane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	2-Butanone (MEK)	ND	ug/L	5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	2-Hexanone	ND	ug/L	10	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Acetone	ND	ug/L	10	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Acrylonitrile (Screen)	ND	ug/L	50	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Benzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Bromochloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Bromodichloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Bromoform	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Carbon disulfide	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Carbon Tetrachloride	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Chlorobenzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Chlorodibromomethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Chloroethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Dibromomethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Dichloromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Ethyl benzene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Iodomethane	ND	ug/L	0.1	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	m,p-Xylenes	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401	(EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1

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Monrovia, California, 91016-3629
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Laboratory Data
Report: 317745

City of Phoenix
Hillary Hartline
Public Works Department
3060 South 27th Avenue
Phoenix, AZ 85009-6810

Samples Received on:
10/26/2009

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	o-Xylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	Styrene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	Toluene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	Total xylenes	ND	ug/L	1	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/L	10	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	Trichlorofluoromethane	ND	ug/L	0.5	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	Vinyl Acetate	ND	ug/L	10	1
10/28/2009	10/28/2009	16:02	529401 (EPA 8260)	Vinyl chloride (VC)	ND	ug/L	0.3	1
SM 4500F-C - Fluoride								
	10/28/2009	14:19	529352 (SM 4500F-C)	Fluoride	0.47	mg/L	0.05	1
SM 2320B - Alkalinity in CaCO3 units								
	10/28/2009	17:14	529359 (SM 2320B)	Alkalinity in CaCO3 units	150	mg/L	2	1
E160.1/SM2540C - Total Dissolved Solids (TDS)								
10/29/2009	10/29/2009	12:40	529702 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	4900	mg/L	10	1



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Laboratory
QC Summary: 317745

City of Phoenix

QC Ref # 529220 - Chloride, Sulfate by EPA 300.0

200910260043 85B-409

Analysis Date: 10/28/2009

Analyzed by: SXX

QC Ref # 529352 - Fluoride

200910260038 85A-409
200910260039 85A-409 MS
200910260040 85A-409 MSD
200910260043 85B-409
200910260044 85C-409
200910260045 85D-409
200910260047 85E-409
200910260048 85F-409

Analysis Date: 10/28/2009

Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP
Analyzed by: YXP

QC Ref # 529359 - Alkalinity in CaCO3 units

200910260038 85A-409
200910260039 85A-409 MS
200910260040 85A-409 MSD
200910260044 85C-409
200910260045 85D-409
200910260047 85E-409
200910260048 85F-409

Analysis Date: 10/28/2009

Analyzed by: KCL
Analyzed by: KCL
Analyzed by: KCL
Analyzed by: KCL
Analyzed by: KCL
Analyzed by: KCL
Analyzed by: KCL

QC Ref # 529401 - Volatile Organics by GCMS

200910260038 85A-409
200910260039 85A-409 MS
200910260040 85A-409 MSD
200910260042 85ATB-409
200910260043 85B-409
200910260044 85C-409
200910260045 85D-409
200910260046 85DTB-409
200910260047 85E-409
200910260048 85F-409

Analysis Date: 10/28/2009

Analyzed by: MAD
Analyzed by: MAD
Analyzed by: MAD
Analyzed by: MAD
Analyzed by: MAD
Analyzed by: MAD
Analyzed by: MAD
Analyzed by: MAD
Analyzed by: MAD
Analyzed by: MAD

QC Ref # 529514 - Alkalinity in CaCO3 units

200910260043 85B-409

Analysis Date: 10/29/2009

Analyzed by: KCL

QC Ref # 529524 - EPA Method 504.1

200910260038 85A-409
200910260039 85A-409 MS
200910260040 85A-409 MSD
200910260042 85ATB-409
200910260043 85B-409
200910260044 85C-409
200910260045 85D-409
200910260045 85D-409
200910260046 85DTB-409
200910260047 85E-409
200910260048 85F-409

Analysis Date: 10/29/2009

Analyzed by: MCP
Analyzed by: MCP
Analyzed by: MCP
Analyzed by: MCP
Analyzed by: MCP
Analyzed by: MCP
Analyzed by: MCP
Analyzed by: MCP
Analyzed by: MCP
Analyzed by: MCP
Analyzed by: MCP



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Monrovia, California, 91016-3629
Tel: 626 386 1100
Fax: 626 386 1101
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City of Phoenix
(continued)

QC Ref # 529555 - Chloride, Sulfate by EPA 300.0

Table with 2 columns: Sample ID and Method. Rows include 200910260038 (85A-409), 200910260039 (85A-409 MS), 200910260040 (85A-409 MSD), 200910260044 (85C-409), 200910260045 (85D-409), 200910260047 (85E-409).

Analysis Date: 10/29/2009

Analyzed by: S XK
Analyzed by: S XK
Analyzed by: S XK
Analyzed by: S XK
Analyzed by: S XK
Analyzed by: S XK

QC Ref # 529658 - ICPMS Metals

Table with 2 columns: Sample ID and Method. Rows include 200910260038 (85A-409), 200910260039 (85A-409 MS), 200910260040 (85A-409 MSD), 200910260043 (85B-409), 200910260044 (85C-409), 200910260045 (85D-409), 200910260047 (85E-409), 200910260048 (85F-409).

Analysis Date: 10/30/2009

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

QC Ref # 529702 - Total Dissolved Solids (TDS)

Table with 2 columns: Sample ID and Method. Rows include 200910260038 (85A-409), 200910260041 (85A-409 DUP), 200910260044 (85C-409), 200910260045 (85D-409), 200910260047 (85E-409), 200910260048 (85F-409).

Analysis Date: 10/29/2009

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

QC Ref # 529726 - Chloride, Sulfate by EPA 300.0

Table with 2 columns: Sample ID and Method. Row: 200910260048 (85F-409).

Analysis Date: 10/30/2009

Analyzed by: S XK

QC Ref # 529837 - Mercury

Table with 2 columns: Sample ID and Method. Rows include 200910260038 (85A-409), 200910260039 (85A-409 MS), 200910260040 (85A-409 MSD), 200910260043 (85B-409), 200910260044 (85C-409), 200910260045 (85D-409), 200910260047 (85E-409), 200910260048 (85F-409).

Analysis Date: 10/30/2009

Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK
Analyzed by: CSK

QC Ref # 529910 - ICPMS Metals

Table with 2 columns: Sample ID and Method. Rows include 200910260038 (85A-409), 200910260039 (85A-409 MS), 200910260040 (85A-409 MSD), 200910260043 (85B-409), 200910260044 (85C-409), 200910260045 (85D-409), 200910260047 (85E-409), 200910260048 (85F-409).

Analysis Date: 11/02/2009

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



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City of Phoenix

(continued)

QC Ref # 529998 - Total Dissolved Solids (TDS)

200910260043 85B-409

Analysis Date: 11/02/2009

Analyzed by: JRF

QC Ref # 530598 - ICPMS Metals

200910260043 85B-409
200910260048 85F-409

Analysis Date: 11/07/2009

Analyzed by: LUPE

Analyzed by: LUPE



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QC Report: 317745

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 529220 - Chloride, Sulfate by EPA 300.0 by EPA 300.0					Analysis Date: 10/28/2009				
LCS1	Chloride		25	25.3	mg/L	101	(90-110)		
LCS2	Chloride		25	25.2	mg/L	101	(90-110)	20	0.40
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.436	mg/L	87	(50-150)		
MS_200910280016	Chloride	60	13	85.1	mg/L	99	(90-110)		
MS_200910290014	Chloride	38	13	64.7	mg/L	106	(90-110)		
MSD_200910280016	Chloride	60	13	85.4	mg/L	100	(90-110)	10	1.4
MSD_200910290014	Chloride	38	13	64.8	mg/L	106	(90-110)	10	0.0
LCS1	Sulfate		50	50.1	mg/L	100	(90-110)		
LCS2	Sulfate		50	50.0	mg/L	100	(90-110)	20	0.20
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	0.963	mg/L	96	(50-150)		
MRLW	Sulfate		0.25	0.265	mg/L	106	(50-150)		
MS_200910280016	Sulfate	130	25	177	mg/L	100	(90-110)		
MS_200910290014	Sulfate	25	25	76.6	mg/L	104	(90-110)		
MSD_200910280016	Sulfate	130	25	178	mg/L	102	(90-110)	10	2.3
MSD_200910290014	Sulfate	25	25	77.0	mg/L	105	(90-110)	10	0.96
QC Ref# 529352 - Fluoride by SM 4500F-C					Analysis Date: 10/28/2009				
LCS1	Fluoride		1.0	1.01	mg/L	101	(81-116)		
LCS2	Fluoride		1.0	0.998	mg/L	100	(81-116)	20	1.2
MBLK	Fluoride			<0.05	mg/L				
MRL_CHK	Fluoride		0.05	0.0470	mg/L	94	(50-150)		
MS_200910260038	Fluoride	4.5	1.0	8.52	mg/L	81	(73-124)		
MS_200910260048	Fluoride	0.47	1.0	1.24	mg/L	77	(73-124)		
MSD_200910260038	Fluoride	4.5	1.0	8.54	mg/L	81	(73-124)	20	0.50
QC Ref# 529359 - Alkalinity in CaCO3 units by SM 2320B					Analysis Date: 10/28/2009				
LCS1	Alkalinity in CaCO3 units		100	94.5	mg/L	95	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	96.9	mg/L	97	(90-110)	20	2.5
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.18	mg/L	59	(50-150)		
MS_200910260038	Alkalinity in CaCO3 units	95	100	187	mg/L	91	(80-120)		
MS2_200910220296	Alkalinity in CaCO3 units	100	100	182	mg/L	80	(80-120)		
MSD_200910260038	Alkalinity in CaCO3 units	95	100	182	mg/L	87	(80-120)	20	5.4
MSD2_200910220296	Alkalinity in CaCO3 units	100	100	187	mg/L	85	(80-120)	20	5.5
QC Ref# 529401 - Volatile Organics by GCMS by EPA 8260					Analysis Date: 10/28/2009				

Spike recovery is already corrected for native results.
 Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
 Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
 (S) Indicates surrogate compound.
 (I) Indicates internal standard compound.
 RPD not calculated for LCS2 when different a concentration than LCS1 is used
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



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City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,1,1,2-Tetrachloroethane		5.0	4.77	ug/L	95	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	4.71	ug/L	94	(70-130)	20	1.3
MBLK	1,1,1,2-Tetrachloroethane			<0.25	ug/L				
MS_200910260038	1,1,1,2-Tetrachloroethane	ND	10	9.44	ug/L	94	(70-130)		
MSD_200910260038	1,1,1,2-Tetrachloroethane	ND	10	9.42	ug/L	94	(70-130)	20	0.21
LCS1	1,1,1-Trichloroethane		5.0	4.73	ug/L	95	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.54	ug/L	91	(70-130)	20	4.1
MBLK	1,1,1-Trichloroethane			<0.25	ug/L				
MS_200910260038	1,1,1-Trichloroethane	ND	10	9.91	ug/L	99	(70-130)		
MSD_200910260038	1,1,1-Trichloroethane	ND	10	9.88	ug/L	99	(70-130)	20	0.30
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.37	ug/L	107	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	5.33	ug/L	107	(70-130)	20	0.75
MBLK	1,1,2,2-Tetrachloroethane			<0.25	ug/L				
MS_200910260038	1,1,2,2-Tetrachloroethane	ND	10	10.1	ug/L	101	(70-130)		
MSD_200910260038	1,1,2,2-Tetrachloroethane	ND	10	10.5	ug/L	105	(70-130)	20	3.9
LCS1	1,1,2-Trichloroethane		5.0	4.68	ug/L	94	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.57	ug/L	91	(70-130)	20	2.4
MBLK	1,1,2-Trichloroethane			<0.25	ug/L				
MS_200910260038	1,1,2-Trichloroethane	ND	10	9.1	ug/L	91	(70-130)		
MSD_200910260038	1,1,2-Trichloroethane	ND	10	9.05	ug/L	91	(70-130)	20	0.55
LCS1	1,1-Dichloroethane		5.0	4.75	ug/L	95	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.65	ug/L	93	(70-130)	20	2.1
MBLK	1,1-Dichloroethane			<0.25	ug/L				
MS_200910260038	1,1-Dichloroethane	ND	10	9.59	ug/L	96	(70-130)		
MSD_200910260038	1,1-Dichloroethane	ND	10	9.55	ug/L	96	(70-130)	20	0.42
LCS1	1,1-Dichloroethylene		5.0	4.42	ug/L	88	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.3	ug/L	86	(70-130)	20	2.8
MBLK	1,1-Dichloroethylene			<0.25	ug/L				
MS_200910260038	1,1-Dichloroethylene	ND	10	9.67	ug/L	97	(70-130)		
MSD_200910260038	1,1-Dichloroethylene	ND	10	9.82	ug/L	98	(70-130)	20	1.5
LCS1	1,2,3-Trichloropropane		5.0	5.65	ug/L	113	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.73	ug/L	115	(70-130)	20	1.4
MBLK	1,2,3-Trichloropropane			<0.25	ug/L				
MS_200910260038	1,2,3-Trichloropropane	ND	10	11.1	ug/L	111	(70-130)		
MSD_200910260038	1,2,3-Trichloropropane	ND	10	11.1	ug/L	111	(70-130)	20	0.0
LCS1	1,2-Dichloroethane		5.0	5.36	ug/L	107	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.44	ug/L	109	(70-130)	20	1.5
MBLK	1,2-Dichloroethane			<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.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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



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City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_200910260038	1,2-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)		
MSD_200910260038	1,2-Dichloroethane	ND	10	10.3	ug/L	103	(70-130)	20	2.9
LCS1	1,2-Dichloroethane-d4 (S)			111	%	111	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			111	%	111	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			110	%	110	(70-130)		
MS_200910260038	1,2-Dichloroethane-d4 (S)			113	%	113	(70-130)		
MSD_200910260038	1,2-Dichloroethane-d4 (S)			109	%	109	(70-130)		
LCS1	1,2-Dichloropropane		5.0	4.79	ug/L	96	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.75	ug/L	95	(70-130)	20	0.84
MBLK	1,2-Dichloropropane			<0.25	ug/L				
MS_200910260038	1,2-Dichloropropane	ND	10	9.47	ug/L	95	(70-130)		
MSD_200910260038	1,2-Dichloropropane	ND	10	9.22	ug/L	92	(70-130)	20	2.7
LCS1	2-Butanone (MEK)		50	49.4	ug/L	99	(70-130)		
LCS2	2-Butanone (MEK)		50	47.1	ug/L	94	(70-130)	20	4.0
MBLK	2-Butanone (MEK)			<2.5	ug/L				
MS_200910260038	2-Butanone (MEK)	ND	100	92.2	ug/L	92	(70-130)		
MSD_200910260038	2-Butanone (MEK)	ND	100	91.9	ug/L	92	(70-130)	20	0.22
LCS1	2-Hexanone		50	47.7	ug/L	95	(70-130)		
LCS2	2-Hexanone		50	46.9	ug/L	94	(70-130)	20	1.7
MBLK	2-Hexanone			<5.0	ug/L				
MS_200910260038	2-Hexanone	ND	100	94.1	ug/L	94	(70-130)		
MSD_200910260038	2-Hexanone	ND	100	94.3	ug/L	94	(70-130)	20	0.32
LCS1	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
LCS2	4-Bromofluorobenzene (S)			106	%	106	(70-130)		
MBLK	4-Bromofluorobenzene (S)			110	%	110	(70-130)		
MS_200910260038	4-Bromofluorobenzene (S)			102	%	102	(80-120)		
MSD_200910260038	4-Bromofluorobenzene (S)			105	%	105	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	49.5	ug/L	99	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	48.8	ug/L	98	(70-130)	20	1.4
MBLK	4-Methyl-2-Pentanone (MIBK)			<2.5	ug/L				
MS_200910260038	4-Methyl-2-Pentanone (MIBK)	ND	100	97.3	ug/L	97	(70-130)		
MSD_200910260038	4-Methyl-2-Pentanone (MIBK)	ND	100	97.3	ug/L	97	(70-130)	20	0.0
LCS1	Acetone		50	50.4	ug/L	101	(70-130)		
LCS2	Acetone		50	49.7	ug/L	99	(70-130)	20	1.4
MBLK	Acetone			<5	ug/L				
MS_200910260038	Acetone	ND	100	93.6	ug/L	94	(70-130)		
MSD_200910260038	Acetone	ND	100	93.2	ug/L	93	(70-130)	20	0.54
LCS1	Acrylonitrile (Screen)		5.0	5.33	ug/L	107	(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.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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



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City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Acrylonitrile (Screen)		5.0	5.39	ug/L	108	(70-130)	20	1.1
MBLK	Acrylonitrile (Screen)			<50	ug/L				
MS_200910260038	Acrylonitrile (Screen)	ND	10	10.8	ug/L	108	(70-130)		
MSD_200910260038	Acrylonitrile (Screen)	ND	10	10.8	ug/L	108	(70-130)	20	0.0
LCS1	Benzene		5.0	4.9	ug/L	98	(70-130)		
LCS2	Benzene		5.0	4.84	ug/L	97	(70-130)	20	1.2
MBLK	Benzene			<0.25	ug/L				
MS_200910260038	Benzene	ND	10	9.69	ug/L	97	(70-130)		
MSD_200910260038	Benzene	ND	10	9.59	ug/L	96	(70-130)	20	1.0
LCS1	Bromochloromethane		5.0	4.85	ug/L	97	(70-130)		
LCS2	Bromochloromethane		5.0	4.93	ug/L	99	(70-130)	20	1.6
MBLK	Bromochloromethane			<0.25	ug/L				
MS_200910260038	Bromochloromethane	ND	10	9.58	ug/L	96	(70-130)		
MSD_200910260038	Bromochloromethane	ND	10	9.26	ug/L	93	(70-130)	20	3.4
LCS1	Bromodichloromethane		5.0	4.99	ug/L	100	(70-130)		
LCS2	Bromodichloromethane		5.0	4.95	ug/L	99	(70-130)	20	0.81
MBLK	Bromodichloromethane			<0.25	ug/L				
MS_200910260038	Bromodichloromethane	ND	10	9.74	ug/L	97	(70-130)		
MSD_200910260038	Bromodichloromethane	ND	10	9.62	ug/L	96	(70-130)	20	1.2
LCS1	Bromoform		5.0	5.21	ug/L	104	(70-130)		
LCS2	Bromoform		5.0	5.33	ug/L	107	(70-130)	20	2.3
MBLK	Bromoform			<0.25	ug/L				
MS_200910260038	Bromoform	ND	10	10.2	ug/L	102	(70-130)		
MSD_200910260038	Bromoform	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	Bromomethane (Methyl Bromide)		5.0	5.19	ug/L	104	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.35	ug/L	107	(70-130)	20	3.0
MBLK	Bromomethane (Methyl Bromide)			<0.25	ug/L				
MS_200910260038	Bromomethane (Methyl Bromide)	ND	10	10.3	ug/L	102	(70-130)		
MSD_200910260038	Bromomethane (Methyl Bromide)	ND	10	9.94	ug/L	98	(70-130)	20	3.6
LCS1	Carbon disulfide		5.0	4.48	ug/L	90	(70-130)		
LCS2	Carbon disulfide		5.0	4.48	ug/L	90	(70-130)	20	11
MBLK	Carbon disulfide			<0.25	ug/L				
MS_200910260038	Carbon disulfide	ND	10	9.83	ug/L	98	(80-138)		
MSD_200910260038	Carbon disulfide	ND	10	9.51	ug/L	94	(70-130)	20	3.3
LCS1	Carbon Tetrachloride		5.0	4.65	ug/L	93	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.63	ug/L	93	(70-130)	20	0.43
MBLK	Carbon Tetrachloride			<0.25	ug/L				
MS_200910260038	Carbon Tetrachloride	ND	10	10.3	ug/L	103	(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.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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



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A Division of MWH Americas, Inc.

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

Laboratory
QC Report: 317745

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_200910260038	Carbon Tetrachloride	ND	10	10.4	ug/L	104	(70-130)	20	0.97
LCS1	Chlorobenzene		5.0	4.98	ug/L	100	(70-130)		
LCS2	Chlorobenzene		5.0	4.9	ug/L	98	(70-130)	20	1.6
MBLK	Chlorobenzene			<0.25	ug/L				
MS_200910260038	Chlorobenzene	ND	10	9.79	ug/L	98	(70-130)		
MSD_200910260038	Chlorobenzene	ND	10	9.71	ug/L	97	(70-130)	20	0.82
LCS1	Chlorodibromomethane		5.0	5.1	ug/L	102	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.03	ug/L	101	(70-130)	20	1.4
MBLK	Chlorodibromomethane			<0.25	ug/L				
MS_200910260038	Chlorodibromomethane	ND	10	9.98	ug/L	100	(70-130)		
MSD_200910260038	Chlorodibromomethane	ND	10	9.97	ug/L	100	(70-130)	20	0.10
LCS1	Chloroethane		5.0	5.3	ug/L	106	(70-130)		
LCS2	Chloroethane		5.0	5.31	ug/L	106	(70-130)	20	0.19
MBLK	Chloroethane			<0.25	ug/L				
MS_200910260038	Chloroethane	ND	10	11.1	ug/L	111	(70-130)		
MSD_200910260038	Chloroethane	ND	10	10.8	ug/L	108	(70-130)	20	2.7
LCS1	Chloroform (Trichloromethane)		5.0	5.00	ug/L	100	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.03	ug/L	101	(70-130)	20	0.60
MBLK	Chloroform (Trichloromethane)			<0.25	ug/L				
MS_200910260038	Chloroform (Trichloromethane)	ND	10	9.91	ug/L	99	(70-130)		
MSD_200910260038	Chloroform (Trichloromethane)	ND	10	9.7	ug/L	97	(70-130)	20	2.1
LCS1	Chloromethane(Methyl Chloride)		5.0	4.56	ug/L	91	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	4.55	ug/L	91	(70-130)	20	0.22
MBLK	Chloromethane(Methyl Chloride)			<0.25	ug/L				
MS_200910260038	Chloromethane(Methyl Chloride)	ND	10	9.68	ug/L	95	(70-130)		
MSD_200910260038	Chloromethane(Methyl Chloride)	ND	10	9.14	ug/L	90	(70-130)	20	5.9
LCS1	cis-1,2-Dichloroethylene		5.0	4.67	ug/L	93	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	4.68	ug/L	94	(70-130)	20	0.21
MBLK	cis-1,2-Dichloroethylene			<0.25	ug/L				
MS_200910260038	cis-1,2-Dichloroethylene	ND	10	9.36	ug/L	94	(70-130)		
MSD_200910260038	cis-1,2-Dichloroethylene	ND	10	9.27	ug/L	93	(70-130)	20	0.97
LCS1	cis-1,3-Dichloropropene		5.0	4.61	ug/L	92	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	4.55	ug/L	91	(70-130)	20	1.3
MBLK	cis-1,3-Dichloropropene			<0.25	ug/L				
MS_200910260038	cis-1,3-Dichloropropene	ND	10	9.06	ug/L	91	(70-130)		
MSD_200910260038	cis-1,3-Dichloropropene	ND	10	9.07	ug/L	91	(70-130)	20	0.11
LCS1	Dibromomethane		5.0	4.84	ug/L	97	(70-130)		
LCS2	Dibromomethane		5.0	4.77	ug/L	95	(70-130)	20	1.5

Spike recovery is already corrected for native results.

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

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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



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LABORATORIES

A Division of MWH Americas, Inc.

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

Laboratory
QC Report: 317745

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Dibromomethane			<0.25	ug/L				
MS_200910260038	Dibromomethane	ND	10	9.45	ug/L	95	(70-130)		
MSD_200910260038	Dibromomethane	ND	10	9.24	ug/L	92	(70-130)	20	2.3
LCS1	Dichloromethane		5.0	4.61	ug/L	92	(70-130)		
LCS2	Dichloromethane		5.0	4.65	ug/L	93	(70-130)	20	0.86
MBLK	Dichloromethane			<0.25	ug/L				
MS_200910260038	Dichloromethane	ND	10	9.03	ug/L	90	(70-130)		
MSD_200910260038	Dichloromethane	ND	10	9.03	ug/L	90	(70-130)	20	0.0
LCS1	Ethyl benzene		5.0	4.61	ug/L	92	(70-130)		
LCS2	Ethyl benzene		5.0	4.5	ug/L	90	(70-130)	20	2.4
MBLK	Ethyl benzene			<0.25	ug/L				
MS_200910260038	Ethyl benzene	ND	10	9.26	ug/L	93	(70-130)		
MSD_200910260038	Ethyl benzene	ND	10	9.17	ug/L	92	(70-130)	20	0.98
LCS1	Iodomethane		5.0	5.19	ug/L	104	(70-130)		
LCS2	Iodomethane		5.0	5.13	ug/L	103	(70-130)	20	1.2
MBLK	Iodomethane			<0.1	ug/L				
MS_200910260038	Iodomethane	ND	10	11.1	ug/L	111	(70-130)		
MSD_200910260038	Iodomethane	ND	10	10.9	ug/L	109	(70-130)	20	1.8
LCS1	m,p-Xylenes		10	9.75	ug/L	98	(70-130)		
LCS2	m,p-Xylenes		10	9.59	ug/L	96	(70-130)	20	1.6
MBLK	m,p-Xylenes			<0.25	ug/L				
MS_200910260038	m,p-Xylenes	ND	20	19.7	ug/L	99	(70-130)		
MSD_200910260038	m,p-Xylenes	ND	20	19.5	ug/L	98	(70-130)	20	0.92
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.39	ug/L	88	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.38	ug/L	88	(70-130)	20	0.23
MBLK	Methyl Tert-butyl ether (MTBE)			<0.25	ug/L				
MS_200910260038	Methyl Tert-butyl ether (MTBE)	ND	10	8.43	ug/L	84	(70-130)		
MSD_200910260038	Methyl Tert-butyl ether (MTBE)	ND	10	8.47	ug/L	85	(70-130)	20	0.47
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.33	ug/L	107	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.22	ug/L	104	(70-130)	20	2.1
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.25	ug/L				
MS_200910260038	o-Dichlorobenzene (1,2-DCB)	ND	10	10.1	ug/L	101	(70-130)		
MSD_200910260038	o-Dichlorobenzene (1,2-DCB)	ND	10	10.2	ug/L	102	(70-130)	20	0.99
LCS1	o-Xylene		5.0	4.68	ug/L	94	(70-130)		
LCS2	o-Xylene		5.0	4.67	ug/L	93	(70-130)	20	0.21
MBLK	o-Xylene			<0.25	ug/L				
MS_200910260038	o-Xylene	ND	10	9.42	ug/L	94	(70-130)		
MSD_200910260038	o-Xylene	ND	10	9.5	ug/L	95	(70-130)	20	0.85

Spike recovery is already corrected for native results.

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

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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



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LABORATORIES

A Division of MWH Americas, Inc.

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

Laboratory
QC Report: 317745

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.25	ug/L	105	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.41	ug/L	108	(70-130)	20	3.0
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.25	ug/L				
MS_200910260038	p-Dichlorobenzene (1,4-DCB)	ND	10	10.4	ug/L	104	(70-130)		
MSD_200910260038	p-Dichlorobenzene (1,4-DCB)	ND	10	10.3	ug/L	103	(70-130)	20	0.97
LCS1	Styrene		5.0	4.99	ug/L	100	(70-130)		
LCS2	Styrene		5.0	5.01	ug/L	100	(70-130)	20	0.40
MBLK	Styrene			<0.25	ug/L				
MS_200910260038	Styrene	ND	10	9.32	ug/L	93	(70-130)		
MSD_200910260038	Styrene	ND	10	9.02	ug/L	90	(70-130)	20	3.3
LCS1	Tetrachloroethylene (PCE)		5.0	4.42	ug/L	88	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.43	ug/L	89	(70-130)	20	0.23
MBLK	Tetrachloroethylene (PCE)			<0.25	ug/L				
MS_200910260038	Tetrachloroethylene (PCE)	ND	10	9.35	ug/L	94	(70-130)		
MSD_200910260038	Tetrachloroethylene (PCE)	ND	10	9.44	ug/L	94	(70-130)	20	0.96
LCS1	Toluene		5.0	4.82	ug/L	96	(70-130)		
LCS2	Toluene		5.0	4.74	ug/L	95	(70-130)	20	1.7
MBLK	Toluene			<0.25	ug/L				
MS_200910260038	Toluene	ND	10	9.7	ug/L	97	(70-130)		
MSD_200910260038	Toluene	ND	10	9.67	ug/L	97	(70-130)	20	0.31
LCS1	Toluene-d8 (S)			99.0	%	99	(70-130)		
LCS2	Toluene-d8 (S)			98.6	%	99	(70-130)		
MBLK	Toluene-d8 (S)			97.6	%	98	(70-130)		
MS_200910260038	Toluene-d8 (S)			99.8	%	100	(70-130)		
MSD_200910260038	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	4.55	ug/L	91	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.65	ug/L	93	(70-130)	20	2.2
MBLK	trans-1,2-Dichloroethylene			<0.25	ug/L				
MS_200910260038	trans-1,2-Dichloroethylene	ND	10	9.48	ug/L	95	(70-130)		
MSD_200910260038	trans-1,2-Dichloroethylene	ND	10	9.39	ug/L	94	(70-130)	20	0.95
LCS1	trans-1,3-Dichloropropene		5.0	4.5	ug/L	90	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	4.4	ug/L	88	(70-130)	20	2.3
MBLK	trans-1,3-Dichloropropene			<0.25	ug/L				
MS_200910260038	trans-1,3-Dichloropropene	ND	10	8.7	ug/L	87	(70-130)		
MSD_200910260038	trans-1,3-Dichloropropene	ND	10	8.65	ug/L	87	(70-130)	20	0.58
LCS1	trans-1,4-dichloro-2-butene		5.0	5.08	ug/L	102	(70-130)		
LCS2	trans-1,4-dichloro-2-butene		5.0	5.05	ug/L	101	(70-130)	20	0.59

Spike recovery is already corrected for native results.

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

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

39/48

(I) Indicates internal standard compound.

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

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



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LABORATORIES

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1 800 566 LABS (1 800 566 5227)

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QC Report: 317745

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	trans-1,4-dichloro-2-butene			<10	ug/L				
MS_200910260038	trans-1,4-dichloro-2-butene	ND	10	8.88	ug/L	89	(70-130)		
MSD_200910260038	trans-1,4-dichloro-2-butene	ND	10	9.05	ug/L	91	(70-130)	20	1.9
LCS1	Trichloroethylene (TCE)		5.0	4.75	ug/L	95	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.7	ug/L	94	(70-130)	20	1.1
MBLK	Trichloroethylene (TCE)			<0.25	ug/L				
MS_200910260038	Trichloroethylene (TCE)	ND	10	9.75	ug/L	98	(70-130)		
MSD_200910260038	Trichloroethylene (TCE)	ND	10	9.71	ug/L	97	(70-130)	20	0.41
LCS1	Trichlorofluoromethane		5.0	5.03	ug/L	101	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.96	ug/L	99	(70-130)	20	1.4
MBLK	Trichlorofluoromethane			<0.25	ug/L				
MS_200910260038	Trichlorofluoromethane	ND	10	10.7	ug/L	107	(70-130)		
MSD_200910260038	Trichlorofluoromethane	ND	10	10.6	ug/L	106	(70-130)	20	0.94
LCS1	Vinyl Acetate		25	23.8	ug/L	95	(70-130)		
LCS2	Vinyl Acetate		25	23.6	ug/L	94	(70-130)	20	1.7
MBLK	Vinyl Acetate			<5.0	ug/L				
MS_200910260038	Vinyl Acetate	ND	50	46.3	ug/L	93	(40-142)		
MSD_200910260038	Vinyl Acetate	ND	50	45.7	ug/L	91	(70-130)	20	1.3
LCS1	Vinyl chloride (VC)		5.0	4.74	ug/L	95	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.72	ug/L	94	(70-130)	20	0.42
MBLK	Vinyl chloride (VC)			<0.15	ug/L				
MS_200910260038	Vinyl chloride (VC)	ND	10	10.2	ug/L	102	(70-130)		
MSD_200910260038	Vinyl chloride (VC)	ND	10	9.96	ug/L	100	(70-130)	20	2.4

QC Ref# 529436 - EPA Method 504.1 by EPA 504.1

Analysis Date: 10/29/2009

LCS2	1,2-Dibromo-3-chloropropane		0.25	0.293	ug/L	117	(70-130)		
MBLK	1,2-Dibromo-3-chloropropane			<0.01	ug/L				
MRL_CHK	1,2-Dibromo-3-chloropropane		0.01	0.0116	ug/L	116	(60-140)		
MS_200910300004	1,2-Dibromo-3-chloropropane	ND	0.25	0.293	ug/L	117	(65-135)		
MSD_200910300004	1,2-Dibromo-3-chloropropane	ND	0.25	0.305	ug/L	122	(65-135)	20	4.2
LCS2	1,2-Dibromoethane		0.25	0.270	ug/L	108	(70-130)		
MBLK	1,2-Dibromoethane			<0.01	ug/L				
MRL_CHK	1,2-Dibromoethane		0.01	0.0119	ug/L	119	(60-140)		
MS_200910300004	1,2-Dibromoethane	ND	0.25	0.288	ug/L	115	(65-135)		
MSD_200910300004	1,2-Dibromoethane	ND	0.25	0.293	ug/L	117	(65-135)	20	1.7
LCS2	1,2-Dibromopropane (S)			116	%	116	(60-140)		
MBLK	1,2-Dibromopropane (S)			117	%	118	(60-140)		
MRL_CHK	1,2-Dibromopropane (S)			125	%	125	(60-140)		

Spike recovery is already corrected for native results.

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

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

40/48

(I) Indicates internal standard compound.

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

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



MWH

LABORATORIES

A Division of MWH Americas, Inc.

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

Laboratory
QC Report: 317745

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_20091030004	1,2-Dibromopropane (S)			123	%	123	(60-140)		
MSD_20091030004	1,2-Dibromopropane (S)			123	%	123	(60-140)		

QC Ref# 529514 - Alkalinity in CaCO3 units by SM 2320B

Analysis Date: 10/29/2009

LCS1	Alkalinity in CaCO3 units		100	96.3	mg/L	96	(90-110)		
LCS2	Alkalinity in CaCO3 units		100	99.1	mg/L	99	(90-110)	20	2.9
MBLK	Alkalinity in CaCO3 units			<2	mg/L				
MRL_CHK	Alkalinity in CaCO3 units		2.0	1.28	mg/L	64	(50-150)		
MS_200910270321	Alkalinity in CaCO3 units	120	100	207	mg/L	91	(80-120)		
MS2_200910270322	Alkalinity in CaCO3 units		100	185	mg/L	<u>65</u>	(80-120)		
MSD_200910270321	Alkalinity in CaCO3 units	120	100	199	mg/L	83	(80-120)	20	9.5
MSD2_200910270322	Alkalinity in CaCO3 units		100	176	mg/L	<u>56</u>	(80-120)	20	15

QC Ref# 529524 - EPA Method 504.1 by EPA 8011

Analysis Date: 10/29/2009

LCS2	1,2-Dibromo-3-chloropropane		0.25	0.293	ug/L	117	(70-130)		
MBLK	1,2-Dibromo-3-chloropropane			<0.01	ug/L				
MRL_CHK	1,2-Dibromo-3-chloropropane		0.01	0.0116	ug/L	116	(60-140)		
MS_200910260038	1,2-Dibromo-3-chloropropane	ND	0.25	0.293	ug/L	117	(65-135)		
MSD_200910260038	1,2-Dibromo-3-chloropropane	ND	0.25	0.305	ug/L	122	(65-135)	20	4.2
LCS2	1,2-Dibromoethane		0.25	0.270	ug/L	108	(70-130)		
MBLK	1,2-Dibromoethane			<0.01	ug/L				
MRL_CHK	1,2-Dibromoethane		0.01	0.0119	ug/L	119	(60-140)		
MS_200910260038	1,2-Dibromoethane	ND	0.25	0.288	ug/L	115	(65-135)		
MSD_200910260038	1,2-Dibromoethane	ND	0.25	0.293	ug/L	117	(65-135)	20	1.7
LCS2	1,2-Dibromopropane (S)			116	%	116	(60-140)		
MBLK	1,2-Dibromopropane (S)			117	%	118	(60-140)		
MRL_CHK	1,2-Dibromopropane (S)			125	%	125	(60-140)		
MS_200910260038	1,2-Dibromopropane (S)			123	%	123	(60-140)		
MSD_200910260038	1,2-Dibromopropane (S)			123	%	123	(60-140)		

QC Ref# 529555 - Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analysis Date: 10/29/2009

LCS1	Chloride		25	25.1	mg/L	100	(90-110)		
LCS2	Chloride		25	25.1	mg/L	100	(90-110)	20	0.0
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.431	mg/L	86	(50-150)		
MS_200910300015	Chloride	4.6	13	18.1	mg/L	108	(90-110)		
MSD_200910300015	Chloride	4.6	13	18.2	mg/L	108	(90-110)	10	0.0
LCS1	Sulfate		50	49.7	mg/L	99	(90-110)		
LCS2	Sulfate		50	49.5	mg/L	99	(90-110)	20	0.40

Spike recovery is already corrected for native results.

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

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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



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LABORATORIES

A Division of MWH Americas, Inc.

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

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QC Report: 317745

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	0.945	mg/L	95	(50-150)		
MRLW	Sulfate		0.25	0.269	mg/L	108	(50-150)		
MS_200910290038	Sulfate	23	25	279	mg/L	102	(90-110)		
MS_200910300015	Sulfate	7.6	25	33.7	mg/L	104	(90-110)		
MSD_200910290038	Sulfate	23	25	282	mg/L	104	(90-110)	10	1.9
MSD_200910300015	Sulfate	7.6	25	33.7	mg/L	105	(90-110)	10	0.96

QC Ref# 529658 - ICPMS Metals by EPA 200.8

Analysis Date: 10/30/2009

LCS1	Aluminum Total ICAP/MS		200	202	ug/L	101	(85-115)		
LCS2	Aluminum Total ICAP/MS		200	201	ug/L	101	(85-115)	20	0.50
MBLK	Aluminum Total ICAP/MS			<20	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	19.8	ug/L	99	(50-150)		
MS_200910260038	Aluminum Total ICAP/MS		200	186	ug/L	92	(70-130)		
MSD_200910260038	Aluminum Total ICAP/MS		200	196	ug/L	97	(70-130)	20	5.6
LCS1	Antimony Total ICAP/MS		50	51.5	ug/L	103	(85-115)		
LCS2	Antimony Total ICAP/MS		50	50.6	ug/L	101	(85-115)	20	1.8
MBLK	Antimony Total ICAP/MS			<1	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1.0	1.02	ug/L	102	(50-150)		
MS_200910260038	Antimony Total ICAP/MS		50	49.0	ug/L	98	(70-130)		
MS2_200910220178	Antimony Total ICAP/MS	ND	50	46.8	ug/L	94	(70-130)		
MSD_200910260038	Antimony Total ICAP/MS		50	49.0	ug/L	98	(70-130)	20	0.10
MSD2_200910220178	Antimony Total ICAP/MS	ND	50	46.9	ug/L	94	(70-130)	20	0.21
LCS1	Arsenic Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.1	ug/L	101	(85-115)	20	0.50
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.08	ug/L	108	(50-150)		
MS_200910260038	Arsenic Total ICAP/MS	7.6	20	28.0	ug/L	102	(70-130)		
MS2_200910220178	Arsenic Total ICAP/MS	1.1	20	22.7	ug/L	108	(70-130)		
MSD_200910260038	Arsenic Total ICAP/MS	7.6	20	28.3	ug/L	104	(70-130)	20	1.9
MSD2_200910220178	Arsenic Total ICAP/MS	1.1	20	22.5	ug/L	107	(70-130)	20	0.93
LCS1	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Barium Total ICAP/MS		100	99.8	ug/L	100	(85-115)	20	3.2
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.07	ug/L	104	(50-150)		
MS_200910260038	Barium Total ICAP/MS	51	100	137	ug/L	86	(70-130)		
MS2_200910220178	Barium Total ICAP/MS	75	100	163	ug/L	89	(70-130)		
MSD_200910260038	Barium Total ICAP/MS	51	100	139	ug/L	88	(70-130)	20	2.2

Spike recovery is already corrected for native results.

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

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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



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LABORATORIES

A Division of MWH Americas, Inc.

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

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QC Report: 317745

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_200910220178	Barium Total ICAP/MS	75	100	163	ug/L	88	(70-130)	20	0.11
LCS1	Beryllium Total ICAP/MS		5.0	4.96	ug/L	99	(85-115)		
LCS2	Beryllium Total ICAP/MS		5.0	4.92	ug/L	99	(85-115)	20	0.81
MBLK	Beryllium Total ICAP/MS			<1	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1.0	0.996	ug/L	100	(50-150)		
MS_200910260038	Beryllium Total ICAP/MS		5.0	4.23	ug/L	84	(70-130)		
MSD_200910260038	Beryllium Total ICAP/MS		5.0	4.33	ug/L	86	(70-130)	20	2.2
LCS1	Chromium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Chromium Total ICAP/MS		100	98.9	ug/L	99	(85-115)	20	2.1
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.03	ug/L	103	(50-150)		
MS_200910260038	Chromium Total ICAP/MS	3.7	100	97.9	ug/L	94	(70-130)		
MS2_200910220178	Chromium Total ICAP/MS	4.3	100	101	ug/L	96	(70-130)		
MSD_200910260038	Chromium Total ICAP/MS	3.7	100	99.1	ug/L	95	(70-130)	20	1.2
MSD2_200910220178	Chromium Total ICAP/MS	4.3	100	101	ug/L	96	(70-130)	20	0.10
LCS1	Copper Total ICAP/MS		100	96.7	ug/L	97	(85-115)		
LCS2	Copper Total ICAP/MS		100	95.6	ug/L	96	(85-115)	20	1.1
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	1.93	ug/L	97	(50-150)		
MS_200910260038	Copper Total ICAP/MS	3.4	100	84.3	ug/L	81	(70-130)		
MS2_200910220178	Copper Total ICAP/MS	ND	100	87.8	ug/L	87	(70-130)		
MSD_200910260038	Copper Total ICAP/MS	3.4	100	85.3	ug/L	82	(70-130)	20	1.1
MSD2_200910220178	Copper Total ICAP/MS	ND	100	85.8	ug/L	85	(70-130)	20	2.3
LCS1	Lead Total ICAP/MS		20	21.2	ug/L	106	(85-115)		
LCS2	Lead Total ICAP/MS		20	20.9	ug/L	105	(85-115)	20	1.4
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.497	ug/L	99	(50-150)		
MS_200910260038	Lead Total ICAP/MS	ND	20	20.4	ug/L	101	(70-130)		
MS2_200910220178	Lead Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)		
MSD_200910260038	Lead Total ICAP/MS	ND	20	20.8	ug/L	103	(70-130)	20	2.0
MSD2_200910220178	Lead Total ICAP/MS	ND	20	19.6	ug/L	98	(70-130)	20	0.31
LCS1	Manganese Total ICAP/MS		50	51.0	ug/L	102	(85-115)		
LCS2	Manganese Total ICAP/MS		50	49.5	ug/L	99	(85-115)	20	3.0
MBLK	Manganese Total ICAP/MS			<2	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2.0	1.95	ug/L	98	(50-150)		
MS_200910260038	Manganese Total ICAP/MS		50	47.3	ug/L	94	(70-130)		
MS2_200910220178	Manganese Total ICAP/MS	69	50	119	ug/L	100	(70-130)		
MSD_200910260038	Manganese Total ICAP/MS		50	47.8	ug/L	95	(70-130)	20	1.1

Spike recovery is already corrected for native results.

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

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates

are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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



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LABORATORIES

A Division of MWH Americas, Inc.

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

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QC Report: 317745

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD2_200910220178	Manganese Total ICAP/MS	69	50	118	ug/L	98	(70-130)	20	1.9
LCS1	Nickel Total ICAP/MS		50	50.3	ug/L	101	(85-115)		
LCS2	Nickel Total ICAP/MS		50	49.1	ug/L	98	(85-115)	20	2.4
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	4.98	ug/L	100	(50-150)		
MS_200910260038	Nickel Total ICAP/MS	ND	50	46.7	ug/L	86	(70-130)		
MS2_200910220178	Nickel Total ICAP/MS	ND	50	48.9	ug/L	91	(70-130)		
MSD_200910260038	Nickel Total ICAP/MS	ND	50	46.8	ug/L	86	(70-130)	20	0.12
MSD2_200910220178	Nickel Total ICAP/MS	ND	50	47.8	ug/L	89	(70-130)	20	2.4
LCS1	Selenium Total ICAP/MS		20	20.3	ug/L	101	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.2	ug/L	101	(85-115)	20	0.49
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	4.77	ug/L	95	(50-150)		
MS_200910260038	Selenium Total ICAP/MS	ND	20	23.6	ug/L	105	(70-130)		
MS2_200910220178	Selenium Total ICAP/MS	ND	20	24.6	ug/L	116	(70-130)		
MSD_200910260038	Selenium Total ICAP/MS	ND	20	24.0	ug/L	107	(70-130)	20	1.9
MSD2_200910220178	Selenium Total ICAP/MS	ND	20	24.5	ug/L	116	(70-130)	20	0.0
LCS1	Thallium Total ICAP/MS		20	21.6	ug/L	108	(85-115)		
LCS2	Thallium Total ICAP/MS		20	21.2	ug/L	106	(85-115)	20	1.9
MBLK	Thallium Total ICAP/MS			<1	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1.0	1.09	ug/L	109	(50-150)		
MS_200910260038	Thallium Total ICAP/MS		20	20.9	ug/L	105	(70-130)		
MS2_200910220178	Thallium Total ICAP/MS	ND	20	20.4	ug/L	102	(70-130)		
MSD_200910260038	Thallium Total ICAP/MS		20	21.1	ug/L	105	(70-130)	20	0.0
MSD2_200910220178	Thallium Total ICAP/MS	ND	20	20.3	ug/L	102	(70-130)	20	0.0
LCS1	Vanadium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Vanadium Total ICAP/MS		100	99.6	ug/L	100	(85-115)	20	3.4
MBLK	Vanadium Total ICAP/MS			<3	ug/L				
MRL_CHK	Vanadium Total ICAP/MS		3.0	3.22	ug/L	107	(50-150)		
MS_200910260038	Vanadium Total ICAP/MS		100	102	ug/L	99	(70-130)		
MS2_200910220178	Vanadium Total ICAP/MS	4.7	100	105	ug/L	101	(70-130)		
MSD_200910260038	Vanadium Total ICAP/MS		100	104	ug/L	101	(70-130)	20	2.2
MSD2_200910220178	Vanadium Total ICAP/MS	4.7	100	105	ug/L	101	(70-130)	20	0.0
LCS1	Zinc Total ICAP/MS		100	97.2	ug/L	97	(85-115)		
LCS2	Zinc Total ICAP/MS		100	97.6	ug/L	98	(85-115)	20	0.41
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	18.6	ug/L	93	(50-150)		
MS_200910260038	Zinc Total ICAP/MS	ND	100	99.9	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.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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



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LABORATORIES

A Division of MWH Americas, Inc.

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

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City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS2_200910220178	Zinc Total ICAP/MS	ND	100	96.0	ug/L	95	(70-130)		
MSD_200910260038	Zinc Total ICAP/MS	ND	100	89.3	ug/L	87	(70-130)	20	12
MSD2_200910220178	Zinc Total ICAP/MS	ND	100	95.5	ug/L	94	(70-130)	20	0.64

QC Ref# 529702 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 10/29/2009

DUP_200910270662	Total Dissolved Solid (TDS)	610		594	mg/L		(0-10)	10	3.3
LCS1	Total Dissolved Solid (TDS)		175	174	mg/L	99	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	688	mg/L	98	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<10	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	9.00	mg/L	90	(50-150)		

QC Ref# 529726 - Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analysis Date: 10/30/2009

LCS1	Chloride		25	25.3	mg/L	101	(90-110)		
LCS2	Chloride		25	25.2	mg/L	101	(90-110)	20	0.40
MBLK	Chloride			<0.5	mg/L				
MRL_CHK	Chloride		0.5	0.440	mg/L	88	(50-150)		
MS_200910280369	Chloride	94	13	116	mg/L	90	(90-110)		
MS_200910300217	Chloride	24	13	51.2	mg/L	108	(90-110)		
MSD_200910280369	Chloride	94	13	116	mg/L	91	(90-110)	10	0.77
MSD_200910300217	Chloride	24	13	51.3	mg/L	108	(90-110)	10	0.0
LCS1	Sulfate		50	50.3	mg/L	101	(90-110)		
LCS2	Sulfate		50	50.1	mg/L	100	(90-110)	20	0.40
MBLK	Sulfate			<1.0	mg/L				
MRL_CHK	Sulfate		1.0	0.988	mg/L	99	(50-150)		
MRL_LW	Sulfate		0.25	0.276	mg/L	110	(50-150)		
MS_200910280369	Sulfate	180	25	224	mg/L	96	(90-110)		
MSD_200910280369	Sulfate	180	25	224	mg/L	96	(90-110)	10	0.83

QC Ref# 529837 - Mercury by EPA 245.1

Analysis Date: 10/30/2009

LCS1	Mercury		1.5	1.48	ug/L	98	(85-115)		
LCS2	Mercury		1.5	1.44	ug/L	96	(85-115)	20	2.7
MBLK	Mercury			<0.2	ug/L				
MRL_CHK	Mercury		0.2	0.180	ug/L	90	(50-150)		
MS_200910260038	Mercury	ND	1.5	1.48	ug/L	98	(70-130)		
MS2_200910270485	Mercury	ND	1.5	1.49	ug/L	99	(70-130)		
MSD_200910260038	Mercury	ND	1.5	1.48	ug/L	98	(70-130)	20	0.0
MSD2_200910270485	Mercury	ND	1.5	1.48	ug/L	99	(70-130)	20	0.71

QC Ref# 529910 - ICPMS Metals by EPA 200.8

Analysis Date: 11/02/2009

Spike recovery is already corrected for native results.
 Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
 Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
 (S) Indicates surrogate compound.
 (I) Indicates internal standard compound.
 RPD not calculated for LCS2 when different a concentration than LCS1 is used
 RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level)



MWH

LABORATORIES

A Division of MWH Americas, Inc.

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

Laboratory
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City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Cadmium Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	2.9
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.539	ug/L	108	(50-150)		
MS_200910260038	Cadmium Total ICAP/MS	ND	20	20.2	ug/L	100	(70-130)		
MS2_200910220178	Cadmium Total ICAP/MS	ND	20	21.0	ug/L	105	(70-130)		
MSD_200910260038	Cadmium Total ICAP/MS	ND	20	20.2	ug/L	100	(70-130)	20	0.0
MSD2_200910220178	Cadmium Total ICAP/MS	ND	20	20.8	ug/L	104	(70-130)	20	0.96
LCS1	Silver Total ICAP/MS		50	50.4	ug/L	101	(85-115)		
LCS2	Silver Total ICAP/MS		50	51.9	ug/L	104	(85-115)	20	2.9
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.526	ug/L	105	(50-150)		
MS_200910260038	Silver Total ICAP/MS	ND	50	46.7	ug/L	93	(70-130)		
MS2_200910220178	Silver Total ICAP/MS	ND	50	30.2	ug/L	<u>60</u>	(70-130)		
MSD_200910260038	Silver Total ICAP/MS	ND	50	46.4	ug/L	93	(70-130)	20	0.65
MSD2_200910220178	Silver Total ICAP/MS	ND	50	26.9	ug/L	<u>54</u>	(70-130)	20	11

QC Ref# 529998 - Total Dissolved Solids (TDS) by E160.1/SM2540C

Analysis Date: 11/02/2009

DUP_200910290348	Total Dissolved Solid (TDS)	590		592	mg/L		(0-10)	10	0.0
DUP_200910300006	Total Dissolved Solid (TDS)	390		400	mg/L		(0-10)	10	1.5
LCS1	Total Dissolved Solid (TDS)		175	182	mg/L	104	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	712	mg/L	102	(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# 530598 - ICPMS Metals by EPA 200.8

Analysis Date: 11/07/2009

LCS1	Arsenic Total ICAP/MS		20	20.9	ug/L	105	(85-115)		
LCS2	Arsenic Total ICAP/MS		20	20.5	ug/L	103	(85-115)	20	1.9
MBLK	Arsenic Total ICAP/MS			<1	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1.0	1.3	ug/L	130	(50-150)		
MS_200910260048	Arsenic Total ICAP/MS	5.8	20	26.7	ug/L	105	(70-130)		
MSD_200910260048	Arsenic Total ICAP/MS	5.8	20	27.3	ug/L	108	(70-130)	20	2.8
LCS1	Barium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Barium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	2.0
MBLK	Barium Total ICAP/MS			<2	ug/L				
MRL_CHK	Barium Total ICAP/MS		2.0	2.13	ug/L	107	(50-150)		
MS_200910260048	Barium Total ICAP/MS	82	100	181	ug/L	99	(70-130)		
MSD_200910260048	Barium Total ICAP/MS	82	100	184	ug/L	102	(70-130)	20	2.9

Spike recovery is already corrected for native results.

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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.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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



MWH

LABORATORIES

A Division of MWH Americas, Inc.

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

Laboratory
QC Report: 317745

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Cadmium Total ICAP/MS		20	20.8	ug/L	104	(85-115)		
LCS2	Cadmium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	0.0
MBLK	Cadmium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.520	ug/L	104	(50-150)		
MS_200910260048	Cadmium Total ICAP/MS		20	18.0	ug/L	90	(70-130)		
MSD_200910260048	Cadmium Total ICAP/MS		20	18.2	ug/L	91	(70-130)	20	1.2
LCS1	Chromium Total ICAP/MS		100	101	ug/L	101	(85-115)		
LCS2	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	2.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_200910260048	Chromium Total ICAP/MS	3.1	100	108	ug/L	105	(70-130)		
MSD_200910260048	Chromium Total ICAP/MS	3.1	100	108	ug/L	105	(70-130)	20	0.0
LCS1	Copper Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Copper Total ICAP/MS		100	102	ug/L	102	(85-115)	20	0.98
MBLK	Copper Total ICAP/MS			<2	ug/L				
MRL_CHK	Copper Total ICAP/MS		2.0	2.11	ug/L	106	(50-150)		
MS_200910260048	Copper Total ICAP/MS	6.8	100	93.4	ug/L	87	(70-130)		
MSD_200910260048	Copper Total ICAP/MS	6.8	100	93.3	ug/L	87	(70-130)	20	0.12
LCS1	Lead Total ICAP/MS		20	21.3	ug/L	107	(85-115)		
LCS2	Lead Total ICAP/MS		20	21.3	ug/L	107	(85-115)	20	0.0
MBLK	Lead Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.533	ug/L	107	(50-150)		
MS_200910260048	Lead Total ICAP/MS		20	21.9	ug/L	109	(70-130)		
MSD_200910260048	Lead Total ICAP/MS		20	22.0	ug/L	110	(70-130)	20	0.91
LCS1	Nickel Total ICAP/MS		50	52.3	ug/L	105	(85-115)		
LCS2	Nickel Total ICAP/MS		50	51.4	ug/L	103	(85-115)	20	1.7
MBLK	Nickel Total ICAP/MS			<5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5.0	5.31	ug/L	106	(50-150)		
MS_200910260048	Nickel Total ICAP/MS	14	50	59.8	ug/L	92	(70-130)		
MSD_200910260048	Nickel Total ICAP/MS	14	50	59.8	ug/L	91	(70-130)	20	0.11
LCS1	Selenium Total ICAP/MS		20	20.2	ug/L	101	(85-115)		
LCS2	Selenium Total ICAP/MS		20	20.8	ug/L	104	(85-115)	20	2.9
MBLK	Selenium Total ICAP/MS			<5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5.0	5.3	ug/L	106	(50-150)		
MS_200910260048	Selenium Total ICAP/MS	15	20	37.9	ug/L	116	(70-130)		
MSD_200910260048	Selenium Total ICAP/MS	15	20	36.9	ug/L	111	(70-130)	20	4.4
LCS1	Silver Total ICAP/MS		50	53.0	ug/L	106	(85-115)		
LCS2	Silver Total ICAP/MS		50	54.2	ug/L	108	(85-115)	20	2.2

Spike recovery is already corrected for native results.

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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.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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



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Laboratory
QC Report: 317745

City of Phoenix
(continued)

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Silver Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.505	ug/L	101	(50-150)		
MS_200910260048	Silver Total ICAP/MS		50	42.5	ug/L	85	(70-130)		
MSD_200910260048	Silver Total ICAP/MS		50	42.8	ug/L	86	(70-130)	20	0.82
LCS1	Zinc Total ICAP/MS		100	104	ug/L	104	(85-115)		
LCS2	Zinc Total ICAP/MS		100	102	ug/L	102	(85-115)	20	1.9
MBLK	Zinc Total ICAP/MS			<20	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	21.0	ug/L	105	(50-150)		
MS_200910260048	Zinc Total ICAP/MS	ND	100	95.5	ug/L	86	(70-130)		
MSD_200910260048	Zinc Total ICAP/MS	ND	100	95.8	ug/L	86	(70-130)	20	0.47

Spike recovery is already corrected for native results.

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are advisory only, unless otherwise specified in the method.

(S) Indicates surrogate compound.

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(I) Indicates internal standard compound.

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

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