

MWH Laboratories

750 Royal Oaks Drive, Monrovia, CA 91016
 PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

City of Phoenix
 Public Works Department
 Solid Waste Disposal Mgt Div
 3060 South 27th Avenue
 Phoenix, AZ 85009-6810
 Attn: Hillary Hartline
 Phone: (602) 534 6655

Customer Code: PHOENIX-LF
 Group#: 261852
 Project#: SR85
 Proj Mgr: Tom French
 Phone: 480 778 1558

The following samples were received from you on **12/22/08**. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
2812220041	85F-408	@8260COP @MOD8011	Water	22-dec-2008 10:08:00
		ADEQ_ID AG-MS		ALK AS-MS
		BA-MS CD-MS	CL-LF CR-MS	CU-MS F
		HG NI-MS	NO3RFALF P	PB-MS SAMPLETP
		SE-MS T	TDS-LF WELLID	ZN-MS
2812220044	85FTB-408	@8260COP ADEQ_ID	Water	22-dec-2008 10:08:00
		SAMPLETP WELLID		

Test Acronym Description

Test Acronym	Description
@8260COP	Volatile Organics HSL
@MOD8011	EPA Method 8011
ADEQ_ID	ADEQ ID number
AG-MS	Silver, Total, ICAP/MS
ALK	Alkalinity in CaCO3 units
AS-MS	Arsenic, Total, ICAP/MS
BA-MS	Barium, Total, ICAP/MS
CD-MS	Cadmium, Total, ICAP/MS
CL-LF	Chloride
CR-MS	Chromium, Total, ICAP/MS
CU-MS	Copper, Total, ICAP/MS
F	Fluoride
HG	Mercury
NI-MS	Nickel, Total, ICAP/MS
NO3RFALF	Nitrate + Nitrite as N by RFA
P	Metals sample pH
PB-MS	Lead, Total, ICAP/MS
SAMPLETP	Sample Type
SE-MS	Selenium, Total, ICAP/MS
T	Metals Turbidity

City of Phoenix
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Group#: 261852
Project#: SR85
Proj Mgr: Tom French
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Test Acronym Description

Test Acronym	Description
TDS-LF	Total Dissolved Solid (TDS)
WELLID	Well ID
ZN-MS	Zinc, Total, ICAP/MS



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Laboratory Report

for

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

DATE OF ISSUE
Jan 09 2009
MWH LABORATORIES


TDFA Tom French
Project Manager



Report#: 261852
Project: SR85

ADHS License# AZ0455

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 Page ,Page ,Page , Page , QC Report, QC Summary,Hits Report, totaling 23 pag



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Laboratory
Hits Report
#261852

City of Phoenix
Hillary Hartline
Public Works Department
Solid Waste Disposal Mgt Div
3060 South 27th Avenue
Phoenix , AZ 85009-6810

Samples Received
22-dec-2008 14:32:08

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2812220041	85F-408				
12/29/08			Alkalinity in CaCO3 units	97	mg/l	2.0
12/30/08			Arsenic, Total, ICAP/MS	11	ug/l	5.0
12/23/08			Barium, Total, ICAP/MS	54	2000 ug/l	2.0
12/31/08			Chloride	1470	mg/l	25
12/30/08			Chromium, Total, ICAP/MS	22	100 ug/l	5.0
12/23/08			Copper, Total, ICAP/MS	4.6	1300 ug/l	2.0
12/26/08			Fluoride	2.8	4 mg/l	0.050
12/23/08			Nickel, Total, ICAP/MS	9.5	ug/l	5.0
12/23/08			Nitrate + Nitrite as N by RFA	11	mg/l	0.15
01/09/09			Sample Type	FO	None	
12/26/08			Total Dissolved Solid (TDS)	3260	mg/l	10
01/09/09			Well ID	MW-2	None	
	2812220044	85FTB-408				
01/09/09			Sample Type	TB	None	
01/09/09			Well ID	MW-2	None	

SUMMARY OF POSITIVE DATA ONLY.



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Report
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Phoenix , AZ 85009-6810

Samples Received
22-dec-2008 14:32:08

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
85F-408 (2812220041) Sampled on 12/22/08								
	12/23/08	465698	(ML/EPA 200.8)	Silver, Total, ICAP/MS	ND	ug/l	0.50	1
	12/29/08	465948	(SM 2320B)	Alkalinity in CaCO3 units	97	mg/l	2.0	1
	12/30/08	466301	(ML/EPA 200.8)	Arsenic, Total, ICAP/MS	11	ug/l	5.0	5
	12/23/08	465708	(ML/EPA 200.8)	Barium, Total, ICAP/MS	54	ug/l	2.0	1
	12/23/08	465701	(ML/EPA 200.8)	Cadmium, Total, ICAP/MS	ND	ug/l	0.50	1
	12/31/08	466468	(ML/EPA 300)	Chloride	1470	mg/l	25	50
	12/30/08	466274	(ML/EPA 200.8)	Chromium, Total, ICAP/MS	22	ug/l	5.0	5
	12/23/08	465683	(ML/EPA 200.8)	Copper, Total, ICAP/MS	4.6	ug/l	2.0	1
	12/26/08	465840	(SM 4500F-C)	Fluoride	2.8	mg/l	0.050	1
	12/31/08	466361	(EPA 245.1)	Mercury	ND	ug/l	0.20	1
	12/23/08	465679	(ML/EPA 200.8)	Nickel, Total, ICAP/MS	9.5	ug/l	5.0	1
	12/23/08	465546	(EPA 353.2)	Nitrate + Nitrite as N by RFA	11	mg/l	0.15	5
	12/23/08	465715	(ML/EPA 200.8)	Lead, Total, ICAP/MS	ND	ug/l	0.50	1
	01/09/09		(NONE)	Sample Type	FO	None	0.0000	1
	12/30/08	466306	(ML/EPA 200.8)	Selenium, Total, ICAP/MS	ND	ug/l	25	5
12/26/08	12/26/08	467135	(SM2540C/E160.1)	Total Dissolved Solid (TDS)	3260	mg/l	10	1
	01/09/09		(NONE)	Well ID	MW-2	None	0.0000	1
	12/23/08	465686	(ML/EPA 200.8)	Zinc, Total, ICAP/MS	ND	ug/l	20	1
EPA Method 8011								
12/29/08	12/30/08	466053	(ML/EPA 504.1)	Dibromochloropropane (DBCP)	ND	ug/l	0.010	1
12/29/08	12/30/08	466053	(ML/EPA 504.1)	Ethylene Dibromide (EDB)	ND	ug/l	0.010	1
			(Surrogate)	1,2-dibromopropane(60-140)	NA	% Rec		
Volatile Organics HSL								
	12/29/08	466071	(ML/EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	1,1,2-Trichloroethane (1,1,2-T	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	1,1-Dichloroethylene (1,1DCE)	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	1,1-Dichloroethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	1,2,3-Trichloropropane	ND	ug/l	0.50	1



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**Laboratory
Report
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City of Phoenix
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	12/29/08	466071	(ML/EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	1,2-Dichloroethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	1,2-Dichloropropane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/l	10	1
	12/29/08	466071	(ML/EPA 8260)	2-Butanone (MEK)	ND	ug/l	10	1
	12/29/08	466071	(ML/EPA 8260)	2-Hexanone	ND	ug/l	10	1
	12/29/08	466071	(ML/EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	10	1
	12/29/08	466071	(ML/EPA 8260)	Acetone	ND	ug/l	10	1
	12/29/08	466071	(ML/EPA 8260)	Acrylonitrile	ND	ug/l	50	1
	12/29/08	466071	(ML/EPA 8260)	Benzene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	cis-1,2-Dichloroethene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Chlorobenzene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Bromoform	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Bromochloromethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Chloroethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Carbon disulfide	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Carbon Tetrachloride	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Dibromochloromethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Dibromomethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Dichlorobromomethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Ethyl benzene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Iodomethane	ND	ug/l	0.10	1
	12/29/08	466071	(ML/EPA 8260)	Methyl Bromide	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Methyl Chloride	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Methylene Chloride	ND	ug/l	3.0	1
	12/29/08	466071	(ML/EPA 8260B)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	1.0	1
	12/29/08	466071	(ML/EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Styrene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	trans-1,2-Dichloroethene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Trichlorofluoromethane	ND	ug/l	0.50	1



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Laboratory
Report
#261852

City of Phoenix
(continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	12/29/08	466071	(ML/EPA 8260)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Toluene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Total Xylenes	ND	ug/l	1.5	1
	12/29/08	466071	(ML/EPA 8260)	Vinyl Chloride (VC)	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Vinyl Acetate	ND	ug/l	10	1
			(Surrogate)	1,2-Dichloroethane-d4 (70-130)	113	% Rec		
			(Surrogate)	4-Bromofluorobenzene (70-130)	96	% Rec		
			(Surrogate)	Toluene-d8 (70-130)	99	% Rec		

85FTB-408 (2812220044) Sampled on 12/22/08

01/09/09	(NONE)	Sample Type	TB	None	0.0000	1
01/09/09	(NONE)	Well ID	MW-2	None	0.0000	1

Volatile Organics HSL

12/29/08	466071	(ML/EPA 8260)	1,1,1,2-Tetrachloroethane	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	1,1,2-Trichloroethane (1,1,2-T	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	1,1-Dichloroethylene (1,1DC)	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	1,1-Dichloroethane	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	1,2,3-Trichloropropane	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	1,2-Dichloroethane	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	1,2-Dichloropropane	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	trans-1,4-dichloro-2-butene	ND	ug/l	10	1
12/29/08	466071	(ML/EPA 8260)	2-Butanone (MEK)	ND	ug/l	10	1
12/29/08	466071	(ML/EPA 8260)	2-Hexanone	ND	ug/l	10	1
12/29/08	466071	(ML/EPA 8260)	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	10	1
12/29/08	466071	(ML/EPA 8260)	Acetone	ND	ug/l	10	1
12/29/08	466071	(ML/EPA 8260)	Acrylonitrile	ND	ug/l	50	1
12/29/08	466071	(ML/EPA 8260)	Benzene	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	cis-1,2-Dichloroethene	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	Chlorobenzene	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	cis-1,3-Dichloropropene	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	Bromoform	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	Chloroform (Trichloromethane)	ND	ug/l	0.50	1
12/29/08	466071	(ML/EPA 8260)	Bromochloromethane	ND	ug/l	0.50	1

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 City of Phoenix
 (continued)

Prepared	Analyzed	QC Batch#	Method	Analyte	Result	Units	MRL	Dilution
	12/29/08	466071	(ML/EPA 8260)	Chloroethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Carbon disulfide	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Carbon Tetrachloride	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Dibromochloromethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Dibromomethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Dichlorobromomethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Ethyl benzene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Iodomethane	ND	ug/l	0.10	1
	12/29/08	466071	(ML/EPA 8260)	Methyl Bromide	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Methyl Chloride	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Methylene Chloride	ND	ug/l	3.0	1
	12/29/08	466071	(ML/EPA 8260B)	Methyl Tert-butyl ether (MTBE)	ND	ug/l	1.0	1
	12/29/08	466071	(ML/EPA 8260)	1,1,2,2-Tetrachloroethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Tetrachloroethylene (PCE)	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Styrene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	trans-1,2-Dichloroethene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	1,1,1-Trichloroethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Trichloroethylene (TCE)	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Trichlorofluoromethane	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	trans-1,3-Dichloropropene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Toluene	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Total Xylenes	ND	ug/l	1.5	1
	12/29/08	466071	(ML/EPA 8260)	Vinyl Chloride (VC)	ND	ug/l	0.50	1
	12/29/08	466071	(ML/EPA 8260)	Vinyl Acetate	ND	ug/l	10	1
			(Surrogate)	1,2-Dichloroethane-d4 (70-130)	105	% Rec		
			(Surrogate)	4-Bromofluorobenzene (70-130)	97	% Rec		
			(Surrogate)	Toluene-d8 (70-130)	100	% Rec		



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Laboratory
QC Summary
#261852

City of Phoenix

QC Ref #0 - Metals Turbidity Analysis Date: 12/23/2008

2812220041 85F-408 Analyzed by: jrf
2812220041 85F-408 Analyzed by: jrf

QC Ref #465546 - Nitrate + Nitrite as N by RFA Analysis Date: 12/23/2008

2812220041 85F-408 Analyzed by: lupe

QC Ref #465679 - Nickel, Total, ICAP/MS Analysis Date: 12/23/2008

2812220041 85F-408 Analyzed by: dyh

QC Ref #465683 - Copper, Total, ICAP/MS Analysis Date: 12/23/2008

2812220041 85F-408 Analyzed by: dyh

QC Ref #465686 - Zinc, Total, ICAP/MS Analysis Date: 12/23/2008

2812220041 85F-408 Analyzed by: dyh

QC Ref #465698 - Silver, Total, ICAP/MS Analysis Date: 12/23/2008

2812220041 85F-408 Analyzed by: dyh

QC Ref #465701 - Cadmium, Total, ICAP/MS Analysis Date: 12/23/2008

2812220041 85F-408 Analyzed by: dyh

QC Ref #465708 - Barium, Total, ICAP/MS Analysis Date: 12/23/2008

2812220041 85F-408 Analyzed by: dyh



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City of Phoenix
(continued)

QC Ref #465715 - Lead, Total, ICAP/MS

2812220041 85F-408

Analysis Date: 12/23/2008

Analyzed by: dyh

QC Ref #465840 - Fluoride

2812220041 85F-408

Analysis Date: 12/26/2008

Analyzed by: yvette

QC Ref #465948 - Alkalinity in CaCO3 units

2812220041 85F-408

Analysis Date: 12/29/2008

Analyzed by: vxt

QC Ref #466053 - EPA Method 8011

2812220041 85F-408

Analysis Date: 12/30/2008

Analyzed by: mcp

QC Ref #466071 - Volatile Organics HSL

2812220041 85F-408
2812220044 85FTB-408

Analysis Date: 12/29/2008

Analyzed by: kcp
Analyzed by: kcp

QC Ref #466274 - Chromium, Total, ICAP/MS

2812220041 85F-408

Analysis Date: 12/30/2008

Analyzed by: dyh

QC Ref #466301 - Arsenic, Total, ICAP/MS

2812220041 85F-408

Analysis Date: 12/30/2008

Analyzed by: dyh

QC Ref #466306 - Selenium, Total, ICAP/MS

2812220041 85F-408

Analysis Date: 12/30/2008

Analyzed by: dyh



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Laboratory
QC Summary
#261852

City of Phoenix
(continued)

QC Ref #466361 - Mercury

2812220041

85F-408

Analysis Date: 12/31/2008

Analyzed by: azs

QC Ref #466468 - Chloride

2812220041

85F-408

Analysis Date: 12/31/2008

Analyzed by: sxk

QC Ref #467135 - Total Dissolved Solid (TDS)

2812220041

85F-408

Analysis Date: 12/26/2008

Analyzed by: wjp



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QC Ref #465546 Nitrate + Nitrite as N by RFA

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12170398	MGL		(0-0)	
LCS1	Nitrate + Nitrite as N by RFA	1.0	0.989	MGL	98.9	(90-110)	
LCS2	Nitrate + Nitrite as N by RFA	1.0	1.00	MGL	100.0	(90-110)	
MBLK	Nitrate + Nitrite as N by RFA	ND	<0.030	MGL			
MRL_CHK	Nitrate + Nitrite as N by RFA	0.030	0.0253	MGL	84.3	(50-150)	
MS	Nitrate + Nitrite as N by RFA	1	1.01	MGL	101.0	(90-110)	
MSD	Nitrate + Nitrite as N by RFA	1.0	1.09	MGL	109.0	(90-110)	

QC Ref #465679 Nickel, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12150274	UGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 28	12220233	UGL		(0-0)	
LCS1	Nickel, Total, ICAP/MS	50	52.8	UGL	105.6	(85-115)	
LCS2	Nickel, Total, ICAP/MS	50	52.5	UGL	105.0	(85-115)	
MBLK	Nickel, Total, ICAP/MS	ND	<5.0	UGL			
MRL_CHK	Nickel, Total, ICAP/MS	5.000	5.96	UGL	119.2	(50-150)	
MS	Nickel, Total, ICAP/MS	50	47.9	UGL	95.8	(70-130)	
MS2	Nickel, Total, ICAP/MS	50	47.2	UGL	94.4	(70-130)	
MSD	Nickel, Total, ICAP/MS	50	48.4	UGL	96.8	(70-130)	
MSD2	Nickel, Total, ICAP/MS	50	47.2	UGL	94.4	(70-130)	
RPD_LCS	Nickel, Total, ICAP/MS	105.600	105.000	UGL	0.6	(0-20)	
RPD_MS	Nickel, Total, ICAP/MS	95.800	96.800	UGL	1.0	(0-20)	

QC Ref #465683 Copper, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12150274	UGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 28	12220233	UGL		(0-0)	
LCS1	Copper, Total, ICAP/MS	100	104	UGL	104.0	(85-115)	
LCS2	Copper, Total, ICAP/MS	100	104	UGL	104.0	(85-115)	

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MBLK	Copper, Total, ICAP/MS	ND	<2.0	UGL			
MRL_CHK	Copper, Total, ICAP/MS	2.000	2.35	UGL	117.5	(50-150)	
MS	Copper, Total, ICAP/MS	100	96.4	UGL	96.4	(70-130)	
MS2	Copper, Total, ICAP/MS	100	85.2	UGL	85.2	(70-130)	
MSD	Copper, Total, ICAP/MS	100	96.6	UGL	96.6	(70-130)	
MSD2	Copper, Total, ICAP/MS	100	86.6	UGL	86.6	(70-130)	
RPD_LCS	Copper, Total, ICAP/MS	104.000	104.000	UGL	0.0	(0-20)	
RPD_MS	Copper, Total, ICAP/MS	96.400	96.600	UGL	0.2	(0-20)	

QC Ref #465686 Zinc, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12150274	UGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 28	12220233	UGL		(0-0)	
LCS1	Zinc, Total, ICAP/MS	100	102	UGL	102.0	(85-115)	
LCS2	Zinc, Total, ICAP/MS	100	102	UGL	102.0	(85-115)	
MBLK	Zinc, Total, ICAP/MS	ND	<20	UGL			
MRL_CHK	Zinc, Total, ICAP/MS	20.0	24.8	UGL	124.0	(50-150)	
MS	Zinc, Total, ICAP/MS	100	108	UGL	108.0	(70-130)	
MS2	Zinc, Total, ICAP/MS	100	102	UGL	102.0	(70-130)	
MSD	Zinc, Total, ICAP/MS	100	108	UGL	108.0	(70-130)	
MSD2	Zinc, Total, ICAP/MS	100	103	UGL	103.0	(70-130)	
RPD_LCS	Zinc, Total, ICAP/MS	102.000	102.000	UGL	0.0	(0-20)	
RPD_MS	Zinc, Total, ICAP/MS	108.000	108.000	UGL	0.0	(0-20)	

QC Ref #465698 Silver, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12150274	UGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 28	12220233	UGL		(0-0)	
LCS1	Silver, Total, ICAP/MS	50	53.3	UGL	106.6	(85-115)	
LCS2	Silver, Total, ICAP/MS	50	54.8	UGL	109.6	(85-115)	
MBLK	Silver, Total, ICAP/MS	ND	<0.50	UGL			
MRL_CHK	Silver, Total, ICAP/MS	0.500	0.515	UGL	103.0	(50-150)	

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MS	Silver, Total, ICAP/MS	50	49.7	UGL	99.4	(70-130)
MS2	Silver, Total, ICAP/MS	50	43.9	UGL	87.8	(70-130)
MSD	Silver, Total, ICAP/MS	50	50.1	UGL	100.2	(70-130)
MSD2	Silver, Total, ICAP/MS	50	44.4	UGL	88.8	(70-130)
RPD_LCS	Silver, Total, ICAP/MS	106.600	109.600	UGL	2.8	(0-20)
RPD_MS	Silver, Total, ICAP/MS	99.400	100.200	UGL	0.8	(0-20)

QC Ref #465701 Cadmium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12150274	UGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 28	12220233	UGL		(0-0)	
LCS1	Cadmium, Total, ICAP/MS	20	21.0	UGL	105.0	(85-115)	
LCS2	Cadmium, Total, ICAP/MS	20	21.0	UGL	105.0	(85-115)	
MBLK	Cadmium, Total, ICAP/MS	ND	<0.50	UGL			
MRL_CHK	Cadmium, Total, ICAP/MS	0.500	0.504	UGL	100.8	(50-150)	
MS	Cadmium, Total, ICAP/MS	20	21.1	UGL	105.5	(70-130)	
MS2	Cadmium, Total, ICAP/MS	20	20.0	UGL	100.0	(70-130)	
MSD	Cadmium, Total, ICAP/MS	20	21.1	UGL	105.5	(70-130)	
MSD2	Cadmium, Total, ICAP/MS	20	20.2	UGL	101.0	(70-130)	
RPD_LCS	Cadmium, Total, ICAP/MS	105.000	105.000	UGL	0.0	(0-20)	
RPD_MS	Cadmium, Total, ICAP/MS	105.500	105.500	UGL	0.0	(0-20)	

QC Ref #465708 Barium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12150274	UGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 28	12220233	UGL		(0-0)	
LCS1	Barium, Total, ICAP/MS	100	105	UGL	105.0	(85-115)	
LCS2	Barium, Total, ICAP/MS	100	105	UGL	105.0	(85-115)	
MBLK	Barium, Total, ICAP/MS	ND	<2.0	UGL			
MRL_CHK	Barium, Total, ICAP/MS	2.000	2.29	UGL	114.5	(50-150)	
MS	Barium, Total, ICAP/MS	100	102	UGL	102.0	(70-130)	
MS2	Barium, Total, ICAP/MS	100	98.7	UGL	98.7	(70-130)	

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MSD	Barium, Total, ICAP/MS	100	102	UGL	102.0	(70-130)
MSD2	Barium, Total, ICAP/MS	100	100	UGL	100.0	(70-130)
RPD_LCS	Barium, Total, ICAP/MS	105.000	105.000	UGL	0.0	(0-20)
RPD_MS	Barium, Total, ICAP/MS	102.000	102.000	UGL	0.0	(0-20)

QC Ref #465715 Lead, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12150274	UGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 28	12220233	UGL		(0-0)	
LCS1	Lead, Total, ICAP/MS	20	21.8	UGL	109.0	(85-115)	
LCS2	Lead, Total, ICAP/MS	20	22.0	UGL	110.0	(85-115)	
MBLK	Lead, Total, ICAP/MS	ND	<0.50	UGL			
MRL_CHK	Lead, Total, ICAP/MS	0.500	0.569	UGL	113.8	(50-150)	
MS	Lead, Total, ICAP/MS	20	20.7	UGL	103.5	(70-130)	
MS2	Lead, Total, ICAP/MS	20	20.2	UGL	101.0	(70-130)	
MSD	Lead, Total, ICAP/MS	20	20.7	UGL	103.5	(70-130)	
MSD2	Lead, Total, ICAP/MS	20	20.4	UGL	102.0	(70-130)	
RPD_LCS	Lead, Total, ICAP/MS	109.000	110.000	UGL	0.9	(0-20)	
RPD_MS	Lead, Total, ICAP/MS	103.500	103.500	UGL	0.0	(0-20)	

QC Ref #465840 Fluoride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	12230281	MGL		(0-0)	
CCC3	Fluoride	10.0	9.92	MGL	99.2	(81-116)	
CCCH	Fluoride	10.0	9.46	MGL	94.6	(81-116)	
CCCL	Fluoride	0.5	0.503	MGL	100.6	(81-116)	
CCCM	Fluoride	0.5	0.486	MGL	97.2	(81-116)	
CCCS	Fluoride	0.05	0.051	MGL	102.0	(50-150)	
LCS1	Fluoride	1.00	1.00	MGL	100.0	(81-116)	
LCS2	Fluoride	1.00	0.982	MGL	98.2	(81-116)	
MBLK	Fluoride	ND	<0.050	MGL			
MRL_CHK	Fluoride	0.05	0.051	MGL	102.0	(50-150)	

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MS	Fluoride	1.00	0.962	MGL	96.2	(73-124)
MS2	Fluoride	1.00	0.911	MGL	91.1	(73-124)
MSD	Fluoride	1.00	0.977	MGL	97.7	(73-124)
RPD_LCS	Fluoride	100.000	98.200	MGL	1.8	(0-20)
RPD_MS	Fluoride	96.200	97.700	MGL	1.5	(0-20)

QC Ref #465948 Alkalinity in CaCO3 units

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	200812260003MGL			(0-0)	
LCS1	Alkalinity in CaCO3 units	100	100	MGL	100.0	(90-110)	
LCS2	Alkalinity in CaCO3 units	100	101	MGL	101.0	(90-110)	
MBLK	Alkalinity in CaCO3 units	ND	<2.0	MGL			
MRL_CHK	Alkalinity in CaCO3 units	2.00	2.00	MGL	100.0	(50-150)	
MS	Alkalinity in CaCO3 units	100	111	MGL	111.0	(80-120)	
MS2	Alkalinity in CaCO3 units	100	114	MGL	114.0	(80-120)	
MSD	Alkalinity in CaCO3 units	100	109	MGL	109.0	(80-120)	
MSD2	Alkalinity in CaCO3 units	100	110	MGL	110.0	(80-120)	
RPD_LCS	Alkalinity in CaCO3 units	100.000	101.000	MGL	1.0	(0-10)	
RPD_MS	Alkalinity in CaCO3 units	111.000	109.000	MGL	1.8	(0-20)	

QC Ref #466053 EPA Method 8011

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
DUP	Spiked sample	Lab # 28	ND	NONE		(0-0)	
MS	Spiked sample	Lab # 28	12230843	NONE		(0-0)	
DUP	Dibromochloropropane (DBCP)	ND	ND	UGL		(0-20)	
LCS1	Dibromochloropropane (DBCP)	0.02	ND	UGL		(60-140)	
LCS2	Dibromochloropropane (DBCP)	0.25	0.275	UGL	110.0	(60-140)	
MBLK	Dibromochloropropane (DBCP)	ND	<0.01	UGL			
MRL_CHK	Dibromochloropropane (DBCP)	0.01	0.0120	UGL	120.0	(60-140)	
MS	Dibromochloropropane (DBCP)	0.25	0.258	UGL	103.2	(60-140)	
MSD	Dibromochloropropane (DBCP)	0.25	0.257	UGL	102.8	(60-140)	
DUP	Ethylene Dibromide (EDB)	ND	ND	UGL		(0-20)	

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LCS1	Ethylene Dibromide (EDB)	0.02	ND	UGL		(60-140)
LCS2	Ethylene Dibromide (EDB)	0.25	0.262	UGL	104.8	(60-140)
MBLK	Ethylene Dibromide (EDB)	ND	<0.01	UGL		
MRL_CHK	Ethylene Dibromide (EDB)	0.01	0.0139	UGL	139.0	(60-140)
MS	Ethylene Dibromide (EDB)	0.25	0.257	UGL	102.8	(60-140)
MSD	Ethylene Dibromide (EDB)	0.25	0.254	UGL	101.6	(60-140)
DUP	1,2-dibromopropane (surr)	100	ND	%R		(60-140)
LCS1	1,2-dibromopropane (surr)	100	ND	%R		(60-140)
LCS2	1,2-dibromopropane (surr)	100	112	%R	112.0	(60-140)
MBLK	1,2-dibromopropane (surr)	100	91	%R	91.0	
MRL_CHK	1,2-dibromopropane (surr)	100	105	%R	105.0	(60-140)
MS	1,2-dibromopropane (surr)	100	127	%R	127.0	(60-140)
MSD	1,2-dibromopropane (surr)	100	130	%R	130.0	(60-140)

QC Ref #466071 Volatile Organics HSL

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	5.0	5.10	UGL	102.0	(70-130)	
LCS2	1,1,1,2-Tetrachloroethane	5.0	4.88	UGL	97.6	(70-130)	
MBLK	1,1,1,2-Tetrachloroethane	ND	<0.5	UGL			
MS	1,1,1,2-Tetrachloroethane	10.0	9.02	UGL	90.2	(70-130)	
MSD	1,1,1,2-Tetrachloroethane	10.0	9.62	UGL	96.2	(70-130)	
LCS1	1,1,2-Trichloroethane (1,1,2-T	5.0	5.27	UGL	105.4	(70-130)	
LCS2	1,1,2-Trichloroethane (1,1,2-T	5.0	5.10	UGL	102.0	(70-130)	
MBLK	1,1,2-Trichloroethane (1,1,2-T	ND	<0.5	UGL			
MS	1,1,2-Trichloroethane (1,1,2-T	10.0	9.40	UGL	94.0	(70-130)	
MSD	1,1,2-Trichloroethane (1,1,2-T	10.0	9.63	UGL	96.3	(70-130)	
LCS1	1,1-Dichloroethylene (1,1DCE)	5.0	5.04	UGL	100.8	(70-130)	
LCS2	1,1-Dichloroethylene (1,1DCE)	5.0	5.10	UGL	102.0	(70-130)	
MBLK	1,1-Dichloroethylene (1,1DCE)	ND	<0.5	UGL			
MS	1,1-Dichloroethylene (1,1DCE)	10.0	9.55	UGL	95.5	(70-130)	
MSD	1,1-Dichloroethylene (1,1DCE)	10.0	10.1	UGL	101.0	(70-130)	
LCS1	1,1-Dichloroethane	5.0	5.02	UGL	100.4	(70-130)	
LCS2	1,1-Dichloroethane	5.0	4.88	UGL	97.6	(70-130)	
MBLK	1,1-Dichloroethane	ND	<0.5	UGL			

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MS	1,1-Dichloroethane	10.0	8.97	UGL	89.7	(70-130)
MSD	1,1-Dichloroethane	10.0	9.21	UGL	92.1	(70-130)
LCS1	1,2,3-Trichloropropane	5.0	5.37	UGL	107.4	(70-130)
LCS2	1,2,3-Trichloropropane	5.0	5.18	UGL	103.6	(70-130)
MBLK	1,2,3-Trichloropropane	ND	<0.5	UGL		
MS	1,2,3-Trichloropropane	10.0	12.5	UGL	125.0	(70-130)
MSD	1,2,3-Trichloropropane	10.0	12.6	UGL	126.0	(70-130)
LCS1	o-Dichlorobenzene (1,2-DCB)	5.0	4.91	UGL	98.2	(70-130)
LCS2	o-Dichlorobenzene (1,2-DCB)	5.0	5.03	UGL	100.6	(70-130)
MBLK	o-Dichlorobenzene (1,2-DCB)	ND	<0.5	UGL		
MS	o-Dichlorobenzene (1,2-DCB)	10.0	8.91	UGL	89.1	(70-130)
MSD	o-Dichlorobenzene (1,2-DCB)	10.0	9.50	UGL	95.0	(70-130)
LCS1	1,2-Dichloroethane	5.0	5.02	UGL	100.4	(70-130)
LCS2	1,2-Dichloroethane	5.0	4.86	UGL	97.2	(70-130)
MBLK	1,2-Dichloroethane	ND	<0.5	UGL		
MS	1,2-Dichloroethane	10.0	8.64	UGL	86.4	(70-130)
MSD	1,2-Dichloroethane	10.0	9.44	UGL	94.4	(70-130)
LCS1	1,2-Dichloropropane	5.0	5.18	UGL	103.6	(70-130)
LCS2	1,2-Dichloropropane	5.0	5.11	UGL	102.2	(70-130)
MBLK	1,2-Dichloropropane	ND	<0.5	UGL		
MS	1,2-Dichloropropane	10.0	9.08	UGL	90.8	(70-130)
MSD	1,2-Dichloropropane	10.0	9.61	UGL	96.1	(70-130)
LCS1	p-Dichlorobenzene (1,4-DCB)	5.0	5.02	UGL	100.4	(70-130)
LCS2	p-Dichlorobenzene (1,4-DCB)	5.0	4.96	UGL	99.2	(70-130)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND	<0.5	UGL		
MS	p-Dichlorobenzene (1,4-DCB)	10.0	9.02	UGL	90.2	(70-130)
MSD	p-Dichlorobenzene (1,4-DCB)	10.0	9.15	UGL	91.5	(70-130)
LCS1	trans-1,4-dichloro-2-butene	5.0	5.02	UGL	100.4	(70-130)
LCS2	trans-1,4-dichloro-2-butene	5.0	4.51	UGL	90.2	(70-130)
MBLK	trans-1,4-dichloro-2-butene	ND	<10	UGL		
MS	trans-1,4-dichloro-2-butene	10.0	9.46	UGL	94.6	(70-130)
MSD	trans-1,4-dichloro-2-butene	10.0	9.66	UGL	96.6	(70-130)
LCS1	2-Butanone (MEK)	50.0	55.5	UGL	111.0	(70-130)
LCS2	2-Butanone (MEK)	50.0	51.0	UGL	102.0	(70-130)
MBLK	2-Butanone (MEK)	ND	<10	UGL		
MS	2-Butanone (MEK)	100	77.6	UGL	77.6	(70-130)

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MSD	2-Butanone (MEK)	100	96.2	UGL	96.2	(70-130)
LCS1	2-Hexanone	50.0	60.3	UGL	120.6	(70-130)
LCS2	2-Hexanone	50.0	57.3	UGL	114.6	(70-130)
MBLK	2-Hexanone	ND	<10	UGL		
MS	2-Hexanone	100	105	UGL	105.0	(70-130)
MSD	2-Hexanone	100	109	UGL	109.0	(70-130)
LCS1	4-Methyl-2-Pentanone (MIBK)	50.0	61.4	UGL	122.8	(70-130)
LCS2	4-Methyl-2-Pentanone (MIBK)	50.0	59.9	UGL	119.8	(70-130)
MBLK	4-Methyl-2-Pentanone (MIBK)	ND	<10	UGL		
MS	4-Methyl-2-Pentanone (MIBK)	100	109	UGL	109.0	(70-130)
MSD	4-Methyl-2-Pentanone (MIBK)	100	114	UGL	114.0	(70-130)
LCS1	Acetone	50.0	58.0	UGL	116.0	(70-130)
LCS2	Acetone	50.0	52.2	UGL	104.4	(70-130)
MBLK	Acetone	ND	<10	UGL		
MS	Acetone	100	77.2	UGL	77.2	(70-130)
MSD	Acetone	100	90.8	UGL	90.8	(70-130)
LCS1	Acrylonitrile	5.0	5.09	UGL	101.8	(70-130)
LCS2	Acrylonitrile	5.0	5.50	UGL	110.0	(70-130)
MBLK	Acrylonitrile	ND	<50	UGL		
MS	Acrylonitrile	10.0	8.74	UGL	87.4	(70-130)
MSD	Acrylonitrile	10.0	10.7	UGL	107.0	(70-130)
LCS1	Benzene	5.0	4.93	UGL	98.6	(70-130)
LCS2	Benzene	5.0	4.80	UGL	96.0	(70-130)
MBLK	Benzene	ND	<0.5	UGL		
MS	Benzene	10.0	9.14	UGL	91.4	(70-130)
MSD	Benzene	10.0	9.80	UGL	98.0	(70-130)
LCS1	cis-1,2-Dichloroethene	5.0	4.93	UGL	98.6	(70-130)
LCS2	cis-1,2-Dichloroethene	5.0	4.89	UGL	97.8	(70-130)
MBLK	cis-1,2-Dichloroethene	ND	<0.5	UGL		
MS	cis-1,2-Dichloroethene	10.0	8.89	UGL	88.9	(70-130)
MSD	cis-1,2-Dichloroethene	10.0	9.18	UGL	91.8	(70-130)
LCS1	Chlorobenzene	5.0	5.10	UGL	102.0	(70-130)
LCS2	Chlorobenzene	5.0	4.94	UGL	98.8	(70-130)
MBLK	Chlorobenzene	ND	<0.5	UGL		
MS	Chlorobenzene	10.0	9.19	UGL	91.9	(70-130)
MSD	Chlorobenzene	10.0	9.69	UGL	96.9	(70-130)

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LCS1	cis-1,3-Dichloropropene	5.0	4.72	UGL	94.4	(70-130)
LCS2	cis-1,3-Dichloropropene	5.0	4.81	UGL	96.2	(70-130)
MBLK	cis-1,3-Dichloropropene	ND	<0.5	UGL		
MS	cis-1,3-Dichloropropene	10.0	9.10	UGL	91.0	(70-130)
MSD	cis-1,3-Dichloropropene	10.0	9.51	UGL	95.1	(70-130)
LCS1	Bromoform	5.0	5.26	UGL	105.2	(70-130)
LCS2	Bromoform	5.0	5.25	UGL	105.0	(70-130)
MBLK	Bromoform	ND	<0.5	UGL		
MS	Bromoform	10.0	8.32	UGL	83.2	(70-130)
MSD	Bromoform	10.0	8.17	UGL	81.7	(70-130)
LCS1	Chloroform (Trichloromethane)	5.0	4.87	UGL	97.4	(70-130)
LCS2	Chloroform (Trichloromethane)	5.0	4.87	UGL	97.4	(70-130)
MBLK	Chloroform (Trichloromethane)	ND	<0.5	UGL		
MS	Chloroform (Trichloromethane)	10.0	8.83	UGL	88.3	(70-130)
MSD	Chloroform (Trichloromethane)	10.0	9.56	UGL	95.6	(70-130)
LCS1	Bromochloromethane	5.0	5.32	UGL	106.4	(70-130)
LCS2	Bromochloromethane	5.0	5.27	UGL	105.4	(70-130)
MBLK	Bromochloromethane	ND	<0.5	UGL		
MS	Bromochloromethane	10.0	9.03	UGL	90.3	(70-130)
MSD	Bromochloromethane	10.0	9.52	UGL	95.2	(70-130)
LCS1	Chloroethane	5.0	5.33	UGL	106.6	(70-130)
LCS2	Chloroethane	5.0	4.96	UGL	99.2	(70-130)
MBLK	Chloroethane	ND	<0.5	UGL		
MS	Chloroethane	10.0	9.72	UGL	97.2	(70-130)
MSD	Chloroethane	10.0	11.0	UGL	110.0	(70-130)
LCS1	Carbon disulfide	5.0	4.51	UGL	90.2	(70-130)
LCS2	Carbon disulfide	5.0	4.42	UGL	88.4	(70-130)
MBLK	Carbon disulfide	ND	<0.5	UGL		
MS	Carbon disulfide	10.0	9.48	UGL	94.8	(70-130)
MSD	Carbon disulfide	10.0	9.87	UGL	98.7	(70-130)
LCS1	Carbon Tetrachloride	5.0	5.33	UGL	106.6	(70-130)
LCS2	Carbon Tetrachloride	5.0	5.05	UGL	101.0	(70-130)
MBLK	Carbon Tetrachloride	ND	<0.5	UGL		
MS	Carbon Tetrachloride	10.0	9.45	UGL	94.5	(70-130)
MSD	Carbon Tetrachloride	10.0	10.2	UGL	102.0	(70-130)
LCS1	Dibromochloromethane	5.0	5.08	UGL	101.6	(70-130)

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LCS2	Dibromochloromethane	5.0	4.99	UGL	99.8	(70-130)
MBLK	Dibromochloromethane	ND	<0.5	UGL		
MS	Dibromochloromethane	10.0	8.84	UGL	88.4	(70-130)
MSD	Dibromochloromethane	10.0	9.61	UGL	96.1	(70-130)
LCS1	Dibromomethane	5.0	5.12	UGL	102.4	(70-130)
LCS2	Dibromomethane	5.0	5.06	UGL	101.2	(70-130)
MBLK	Dibromomethane	ND	<0.5	UGL		
MS	Dibromomethane	10.0	8.79	UGL	87.9	(70-130)
MSD	Dibromomethane	10.0	9.86	UGL	98.6	(70-130)
LCS1	Dichlorobromomethane	5.0	5.01	UGL	100.2	(70-130)
LCS2	Dichlorobromomethane	5.0	4.96	UGL	99.2	(70-130)
MBLK	Dichlorobromomethane	ND	<0.5	UGL		
MS	Dichlorobromomethane	10.0	9.22	UGL	92.2	(70-130)
MSD	Dichlorobromomethane	10.0	9.43	UGL	94.3	(70-130)
LCS1	Ethyl benzene	5.0	4.95	UGL	99.0	(70-130)
LCS2	Ethyl benzene	5.0	4.91	UGL	98.2	(70-130)
MBLK	Ethyl benzene	ND	<0.5	UGL		
MS	Ethyl benzene	10.0	9.33	UGL	93.3	(70-130)
MSD	Ethyl benzene	10.0	9.82	UGL	98.2	(70-130)
LCS1	Iodomethane	5.0	5.19	UGL	103.8	(70-130)
LCS2	Iodomethane	5.0	4.96	UGL	99.2	(70-130)
MBLK	Iodomethane	ND	<0.1	UGL		
MS	Iodomethane	10.0	7.65	UGL	76.5	(70-130)
MSD	Iodomethane	10.0	8.15	UGL	81.5	(70-130)
LCS1	Methyl Bromide	5.0	4.88	UGL	97.6	(70-130)
LCS2	Methyl Bromide	5.0	4.77	UGL	95.4	(70-130)
MBLK	Methyl Bromide	ND	<0.5	UGL		
MS	Methyl Bromide	10.0	8.50	UGL	85.0	(70-130)
MSD	Methyl Bromide	10.0	9.59	UGL	95.9	(70-130)
LCS1	Methyl Chloride	5.0	4.74	UGL	94.8	(70-130)
LCS2	Methyl Chloride	5.0	4.80	UGL	96.0	(70-130)
MBLK	Methyl Chloride	ND	<0.5	UGL		
MS	Methyl Chloride	10.0	8.83	UGL	88.3	(70-130)
MSD	Methyl Chloride	10.0	9.53	UGL	95.3	(70-130)
LCS1	Methylene Chloride	5.0	5.05	UGL	101.0	(70-130)
LCS2	Methylene Chloride	5.0	4.78	UGL	95.6	(70-130)

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MBLK	Methylene Chloride	ND	<3.0	UGL		
MS	Methylene Chloride	10.0	8.62	UGL	86.2	(70-130)
MSD	Methylene Chloride	10.0	8.45	UGL	84.5	(70-130)
LCS1	Methyl Tert-butyl ether (MTBE)	5.0	4.81	UGL	96.2	(70-130)
LCS2	Methyl Tert-butyl ether (MTBE)	5.0	4.77	UGL	95.4	(70-130)
MBLK	Methyl Tert-butyl ether (MTBE)	ND	<1.0	UGL		
MS	Methyl Tert-butyl ether (MTBE)	10.0	8.70	UGL	87.0	(70-130)
MSD	Methyl Tert-butyl ether (MTBE)	10.0	8.87	UGL	88.7	(70-130)
LCS1	1,1,2,2-Tetrachloroethane	5.0	6.00	UGL	120.0	(70-130)
LCS2	1,1,2,2-Tetrachloroethane	5.0	6.08	UGL	121.6	(70-130)
MBLK	1,1,2,2-Tetrachloroethane	ND	<0.5	UGL		
MS	1,1,2,2-Tetrachloroethane	10.0	11.4	UGL	114.0	(70-130)
MSD	1,1,2,2-Tetrachloroethane	10.0	11.5	UGL	115.0	(70-130)
LCS1	Tetrachloroethylene (PCE)	5.0	5.27	UGL	105.4	(70-130)
LCS2	Tetrachloroethylene (PCE)	5.0	5.18	UGL	103.6	(70-130)
MBLK	Tetrachloroethylene (PCE)	ND	<0.5	UGL		
MS	Tetrachloroethylene (PCE)	10.0	9.65	UGL	96.5	(70-130)
MSD	Tetrachloroethylene (PCE)	10.0	10.3	UGL	103.0	(70-130)
LCS1	Styrene	5.0	4.93	UGL	98.6	(70-130)
LCS2	Styrene	5.0	4.99	UGL	99.8	(70-130)
MBLK	Styrene	ND	<0.5	UGL		
MS	Styrene	10.0	9.44	UGL	94.4	(70-130)
MSD	Styrene	10.0	9.69	UGL	96.9	(70-130)
LCS1	1,2-dichloroethane-d4	100	104	%R	104.0	(70-130)
LCS2	1,2-dichloroethane-d4	100	100	%R	100.0	(70-130)
MBLK	1,2-dichloroethane-d4	100	<u>107</u>	%R	<u>107.0</u>	
MS	1,2-dichloroethane-d4	100	94	%R	94.0	(70-130)
MSD	1,2-dichloroethane-d4	100	102	%R	102.0	(70-130)
LCS1	Toluene-d8	100	99	%R	99.0	(70-130)
LCS2	Toluene-d8	100	101	%R	101.0	(70-130)
MBLK	Toluene-d8	100	<u>98</u>	%R	<u>98.0</u>	
MS	Toluene-d8	100	101	%R	101.0	(70-130)
MSD	Toluene-d8	100	102	%R	102.0	(70-130)
LCS1	4-Bromofluorobenzene	100	92	%R	92.0	(70-130)
LCS2	4-Bromofluorobenzene	100	93	%R	93.0	(70-130)
MBLK	4-Bromofluorobenzene	100	<u>98</u>	%R	<u>98.0</u>	

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MS	4-Bromofluorobenzene	100	97	%R	97.0	(70-130)
MSD	4-Bromofluorobenzene	100	93	%R	93.0	(70-130)
LCS1	trans-1,2-Dichloroethene	5.0	5.18	UGL	103.6	(70-130)
LCS2	trans-1,2-Dichloroethene	5.0	5.00	UGL	100.0	(70-130)
MBLK	trans-1,2-Dichloroethene	ND	<0.5	UGL		
MS	trans-1,2-Dichloroethene	10.0	9.29	UGL	92.9	(70-130)
MSD	trans-1,2-Dichloroethene	10.0	9.85	UGL	98.5	(70-130)
LCS1	1,1,1-Trichloroethane	5.0	5.12	UGL	102.4	(70-130)
LCS2	1,1,1-Trichloroethane	5.0	4.93	UGL	98.6	(70-130)
MBLK	1,1,1-Trichloroethane	ND	<0.5	UGL		
MS	1,1,1-Trichloroethane	10.0	9.29	UGL	92.9	(70-130)
MSD	1,1,1-Trichloroethane	10.0	10.2	UGL	102.0	(70-130)
LCS1	Trichloroethylene (TCE)	5.0	4.89	UGL	97.8	(70-130)
LCS2	Trichloroethylene (TCE)	5.0	4.68	UGL	93.6	(70-130)
MBLK	Trichloroethylene (TCE)	ND	<0.5	UGL		
MS	Trichloroethylene (TCE)	10.0	8.35	UGL	83.5	(70-130)
MSD	Trichloroethylene (TCE)	10.0	9.18	UGL	91.8	(70-130)
LCS1	Trichlorofluoromethane	5.0	4.73	UGL	94.6	(70-130)
LCS2	Trichlorofluoromethane	5.0	4.75	UGL	95.0	(70-130)
MBLK	Trichlorofluoromethane	ND	<0.5	UGL		
MS	Trichlorofluoromethane	10.0	9.30	UGL	93.0	(70-130)
MSD	Trichlorofluoromethane	10.0	9.86	UGL	98.6	(70-130)
LCS1	trans-1,3-Dichloropropene	5.0	5.04	UGL	100.8	(70-130)
LCS2	trans-1,3-Dichloropropene	5.0	4.94	UGL	98.8	(70-130)
MBLK	trans-1,3-Dichloropropene	ND	<0.5	UGL		
MS	trans-1,3-Dichloropropene	10.0	9.39	UGL	93.9	(70-130)
MSD	trans-1,3-Dichloropropene	10.0	9.81	UGL	98.1	(70-130)
LCS1	Toluene	5.0	5.06	UGL	101.2	(70-130)
LCS2	Toluene	5.0	4.97	UGL	99.4	(70-130)
MBLK	Toluene	ND	<0.5	UGL		
MS	Toluene	10.0	9.35	UGL	93.5	(70-130)
MSD	Toluene	10.0	9.80	UGL	98.0	(70-130)
LCS1	Total Xylenes	15.0	15.1	UGL	100.7	(70-130)
LCS2	Total Xylenes	15.0	15.0	UGL	100.0	(70-130)
MBLK	Total Xylenes	ND	<1.5	UGL		
MS	Total Xylenes	30.0	28.3	UGL	94.3	(70-130)

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MSD	Total Xylenes	30.0	30.0	UGL	100.0	(70-130)
LCS1	Vinyl Chloride (VC)	5.0	4.67	UGL	93.4	(70-130)
LCS2	Vinyl Chloride (VC)	5.0	4.45	UGL	89.0	(70-130)
MBLK	Vinyl Chloride (VC)	ND	<0.5	UGL		
MS	Vinyl Chloride (VC)	10.0	9.08	UGL	90.8	(70-130)
MSD	Vinyl Chloride (VC)	10.0	9.58	UGL	95.8	(70-130)
LCS1	Vinyl Acetate	25.0	27.7	UGL	110.8	(70-130)
LCS2	Vinyl Acetate	25.0	27.5	UGL	110.0	(70-130)
MBLK	Vinyl Acetate	ND	<10	UGL		
MS	Vinyl Acetate	50.0	52.1	UGL	104.2	(70-130)
MSD	Vinyl Acetate	50.0	51.3	UGL	102.6	(70-130)

QC Ref #466274 Chromium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12220233	UGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 28	12230593	UGL		(0-0)	
LCS1	Chromium, Total, ICAP/MS	100	95.3	UGL	95.3	(85-115)	
LCS2	Chromium, Total, ICAP/MS	100	95.6	UGL	95.6	(85-115)	
MBLK	Chromium, Total, ICAP/MS	ND	<1.0	UGL			
MRL_CHK	Chromium, Total, ICAP/MS	1.000	0.983	UGL	98.3	(50-150)	
MS	Chromium, Total, ICAP/MS	100	83.5	UGL	83.5	(70-130)	
MS2	Chromium, Total, ICAP/MS	100	76.9	UGL	76.9	(70-130)	
MSD	Chromium, Total, ICAP/MS	100	85.5	UGL	85.5	(70-130)	
MSD2	Chromium, Total, ICAP/MS	100	85.3	UGL	85.3	(70-130)	
RPD_LCS	Chromium, Total, ICAP/MS	95.300	95.600	UGL	0.3	(0-20)	
RPD_MS	Chromium, Total, ICAP/MS	83.500	85.500	UGL	2.4	(0-20)	

QC Ref #466301 Arsenic, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12220233	UGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 28	12230593	UGL		(0-0)	
LCS1	Arsenic, Total, ICAP/MS	20	18.9	UGL	94.5	(85-115)	

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LCS2	Arsenic, Total, ICAP/MS	20	19.2	UGL	96.0	(85-115)
MBLK	Arsenic, Total, ICAP/MS	ND	<1.0	UGL		
MRL_CHK	Arsenic, Total, ICAP/MS	1.000	0.998	UGL	99.8	(50-150)
MS	Arsenic, Total, ICAP/MS	20	18.0	UGL	90.0	(70-130)
MS2	Arsenic, Total, ICAP/MS	20	16.4	UGL	82.0	(70-130)
MSD	Arsenic, Total, ICAP/MS	20	18.5	UGL	92.5	(70-130)
MSD2	Arsenic, Total, ICAP/MS	20	18.2	UGL	91.0	(70-130)
RPD_LCS	Arsenic, Total, ICAP/MS	94.500	96.000	UGL	1.6	(0-20)
RPD_MS	Arsenic, Total, ICAP/MS	90.000	92.500	UGL	2.7	(0-20)

QC Ref #466306 Selenium, Total, ICAP/MS

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12220233	UGL		(0-0)	
AASPKSMP	Spiked sample	Lab # 28	12230593	UGL		(0-0)	
LCS1	Selenium, Total, ICAP/MS	20	18.1	UGL	90.5	(85-115)	
LCS2	Selenium, Total, ICAP/MS	20	18.5	UGL	92.5	(85-115)	
MBLK	Selenium, Total, ICAP/MS	ND	<5.0	UGL			
MRL_CHK	Selenium, Total, ICAP/MS	5.000	5.44	UGL	108.8	(50-150)	
MS	Selenium, Total, ICAP/MS	20	18.3	UGL	91.5	(70-130)	
MS2	Selenium, Total, ICAP/MS	20	17.1	UGL	85.5	(70-130)	
MSD	Selenium, Total, ICAP/MS	20	18.4	UGL	92.0	(70-130)	
MSD2	Selenium, Total, ICAP/MS	20	18.3	UGL	91.5	(70-130)	
RPD_LCS	Selenium, Total, ICAP/MS	90.500	92.500	UGL	2.2	(0-20)	
RPD_MS	Selenium, Total, ICAP/MS	91.500	92.000	UGL	0.5	(0-20)	

QC Ref #466361 Mercury

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
MS	Spiked sample	Lab # 28	12200134	UGL		(0-0)	
LCS1	Mercury	1.50	1.51	UGL	100.7	(85-115)	
LCS2	Mercury	1.50	1.52	UGL	101.3	(85-115)	
MBLK	Mercury	ND	<0.20	UGL			
MRL_CHK	Mercury	0.200	0.189	UGL	94.5	(50-150)	

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.



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Laboratory
 QC Report
 #261852

City of Phoenix
 (continued)

MS	Mercury	1.50	1.54	UGL	102.7	(70-130)
MSD	Mercury	1.50	1.50	UGL	100.0	(70-130)
RPD_LCS	Mercury	100.667	101.333	UGL	0.7	(0-20)
RPD_MS	Mercury	102.667	100.000	UGL	2.6	(0-20)

QC Ref #466468 Chloride

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
AASPKSMP	Spiked sample	Lab # 28	12300633	MGL		(0-0)	
LCS1	Chloride	25	27.2	MGL	108.8	(90-110)	
LCS2	Chloride	25	27.2	MGL	108.8	(90-110)	
MBLK	Chloride	ND	<0.50	MGL			
MRL_CHK	Chloride	0.500	0.407	MGL	81.4	(50-150)	
MS	Chloride	12.5	14.2	MGL	113.6	(74-138)	
MSD	Chloride	12.5	14.0	MGL	112.0	(74-138)	
RPD_LCS	Chloride	108.800	108.800	MGL	0.0	(0-20)	
RPD_MS	Chloride	113.600	112.000	MGL	1.4	(0-20)	

QC Ref #467135 Total Dissolved Solid (TDS)

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	Total Dissolved Solid (TDS)	175	160	MGL	91.4	(80-114)	
LCS2	Total Dissolved Solid (TDS)	700	680	MGL	97.1	(80-114)	
AASPKSMP	Spiked sample	Lab # 28	12230593	MGL		(0-0)	
DUP	Total Dissolved Solid (TDS)	71	69	MGL		(0-10)	2.9
MBLK	Total Dissolved Solid (TDS)	ND	<10	MGL			

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.

