2015 ANNUAL REPORT

SOUTH-SIDE PRIVATE WELL MONITORING PROGRAM
TUCSON INTERNATIONAL AIRPORT AREA SUPERFUND SITE

Prepared for the
Tucson Airport Authority
by
Pima County Department of Environmental Quality

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Private Well Monitoring Program

Private Well Monitoring Program
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2015 ANNUAL REPORT SOUTH-SIDE PRIVATE WELL MONITORING PROGRAM
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ACRONYMS

1,1-DCE	1,1-Dichloroethene
1,1,1-TCA	1,1,1-Trichloroethane
AANG	Arizona Air National Guard
ADEQ	Arizona Department of Environmental Quality
AFP44	Air Force Plant 44
ATSDR	United States Agency for Toxic Substances and Disease Registry
EPA	United States Environmental Protection Agency
HCl	Hydrochloric Acid
MCL	Maximum Contaminant Level
MRL	Method Reporting Limit
NPL	National Priorities List
PHD	Pima County Health Department
PDEQ	Pima County Department of Environmental Quality
ppb	Parts per billion
PRP	Potentially Responsible Party
PW	Private Well
PQL	Practical Quantitation Limit
QC	Quality Control
RSL	Regional Screening Level
SAP	Sampling & Analysis Plan
TAA	Tucson Airport Authority
TARP	Tucson International Airport Area Groundwater Remediation Project
TCE	Trichloroethene or Trichloroethylene
TIAA	Tucson International Airport Area
µg/L	Micrograms per Liter, equivalent to ppb
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

Pima County Department of Environmental Quality (PDEQ) sampled four of seven private water wells in the vicinity of Valencia Road and Old Nogales Highway in early 2015. The water samples were analyzed for trichloroethylene (TCE), total chromium, 1,4-dioxane, and other volatile organic compounds (VOCs).

The four privately-owned wells sampled by PDEQ include the following: PW-11, PW-12, PW-14, and PW-20. These wells were sampled on February 10 and 11, 2015. Two sets of samples were collected at each well site, one at the well head and a second one from a faucet or outdoor water spigot. Additional samples were collected during the sampling process to verify quality control measures were effective. The three privately-owned wells not sampled in 2015 include PW-03, PW-07 and PW-13 as the well owners did not approve access to their well.

Recent Observations

All TCE concentrations were below 2.4 µg/L which is below the Maximum Contaminant level (MCL) of 5 µg/L. All total chromium concentrations were below 15 µg/L, which is below the total chromium MCL of 100 µg/L. The concentrations of 1,4-dioxane ranged between non-detectable to 3.8 µg/L. Three of four wells had 1,4-dioxane concentrations ranging between 1.3 and 3.8 µg/L. These levels are above the EPA's ingestion Regional Screening Level (RSL) of 0.35 µg/L and indicate drinking water wells are recommended to be monitored regularly to provide screening data for EPA's lifetime health advisory of 200 µg/L (0.2 mg/L) for 1,4-dioxane in drinking water. One of the wells is used for drinking water and the well owners have been advised to drink bottled water. This well owner also has the option of connecting to a public water system. In all cases the 1,4-dioxane is below EPA's dermal RSL of 220 µg/L indicating the water is safe for bathing and showering.

Long-term Trends

A comparison of the current and historical data indicates that TCE has been on a steady decline at two of four wells. Of the two remaining wells, TCE has remained consistent at one and at the other TCE increased three years ago and is holding steady at a concentration below the MCL. Recent Total Chromium concentrations remained steady at all three wells and declined at one well. The trend for 1,4-dioxane is mixed with wells falling into one of three patterns: remaining non-detect, remaining above the RSL, or rising above the RSL. This type of variability is observed when monitoring spans both a groundwater plume and groundwater free of contaminants. The monitoring program functions well to identify when well water use is safe for drinking and when the well water should be replaced by bottled water, directed to landscape irrigation only, or replaced by water from a public water system.

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2015 ANNUAL REPORT
Southside Private Well Monitoring Program
Tucson International Airport Area Superfund Site

1 INTRODUCTION

In February 2015, Pima County Department of Environmental Quality (PDEQ) sampled four of seven private water wells (Figure 1). These private water well samples were analyzed for the presence of trichloroethene (TCE), chromium, 1,4-dioxane, and other hazardous substances.

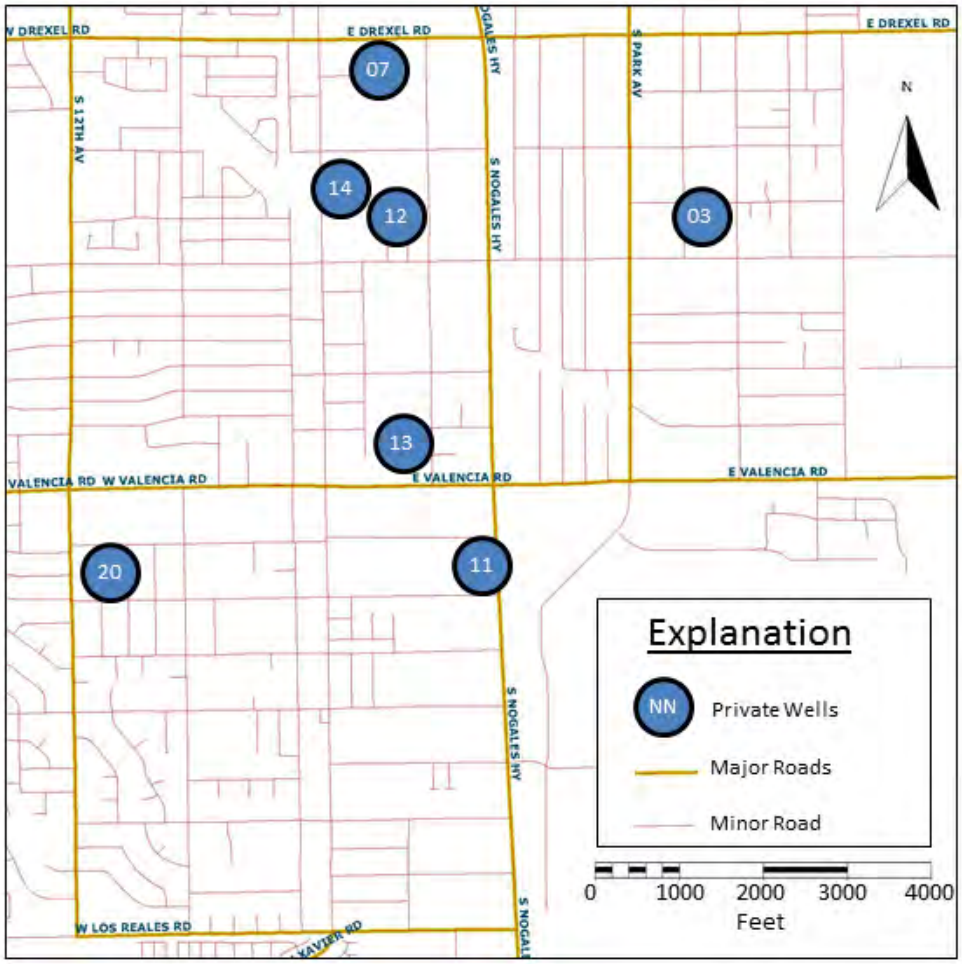

Figure 1. Southside Private Well Monitoring Map

The South-Side Private Well Monitoring Program was conducted under protocol accepted by the United States Environmental Protection Agency (EPA), as specified in the guidance document entitled *Preparation of a U.S. EPA Region 9 Field Sampling Plan for Private and State-Lead Superfund Projects* (EPA, 1993).

Sampling results were used to determine whether or not private wells were producing water containing volatile organic compounds (VOCs), solvent stabilizers, or chromium. Results will be used to support decision-making efforts by PDEQ and TAA.

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2 PURPOSE

The South-Side Private Well Monitoring Program was originally designed to gather data in support of the ongoing groundwater investigations associated with the Tucson International Airport Area (TIAA) Superfund Site. The monitoring program was also designed to address recommendations identified in the 1996 and 2000 health assessments produced by the United States Agency for Toxic Substances and Disease Registry (ATSDR). Data collected through this monitoring program and other monitoring programs has been used to estimate the areal extents of groundwater contamination for trichloroethene and 1,4-dioxane, based on July 2012 and March 2010 data, respectively (Figures 2 and 3).

In late 2001, EPA and ADEQ identified fourteen private water wells to be included in the ongoing South-Site Private Well Monitoring Program. Eleven of the wells are located in the area under remediation as part of the Tucson International Airport Area Groundwater Remediation Project (TARP). The other three wells are located in the vicinity of a contaminated ground-water plume designated as West Plume B.

Two of the original fourteen wells were taken out of service in the fall of 2003 (PW-15 and PW-16). These two wells were shut down by the owners in response to water quality results that indicated the presence of contaminants at levels above acceptable standards. Two other wells have not been in operation since at least 2002 (PW-23 and PW-38). Three other wells have experienced mechanical problems over the past several years and are currently out of operation (PW-17, PW-18, and PW-21). The seven remaining private wells were sampled as part of the current monitoring effort and include the following: PW-03, PW-07, PW-11, PW-12, PW-13, PW-14, and PW-20. In 2015, PDEQ received permission to sample PW-11, PW-12, PW-14, and PW-20.

The monitoring program assesses the quality of water from private water wells currently being used for domestic purposes, within the vicinity of the TIAA Superfund Site. Analytical results are reported to well owners and elected officials. The results are compared to the maximum contaminant levels (MCLs) for trichloroethene (TCE) and chromium. For 1,4-dioxane, the results are reported and compared to EPA's Regional Screening Level.

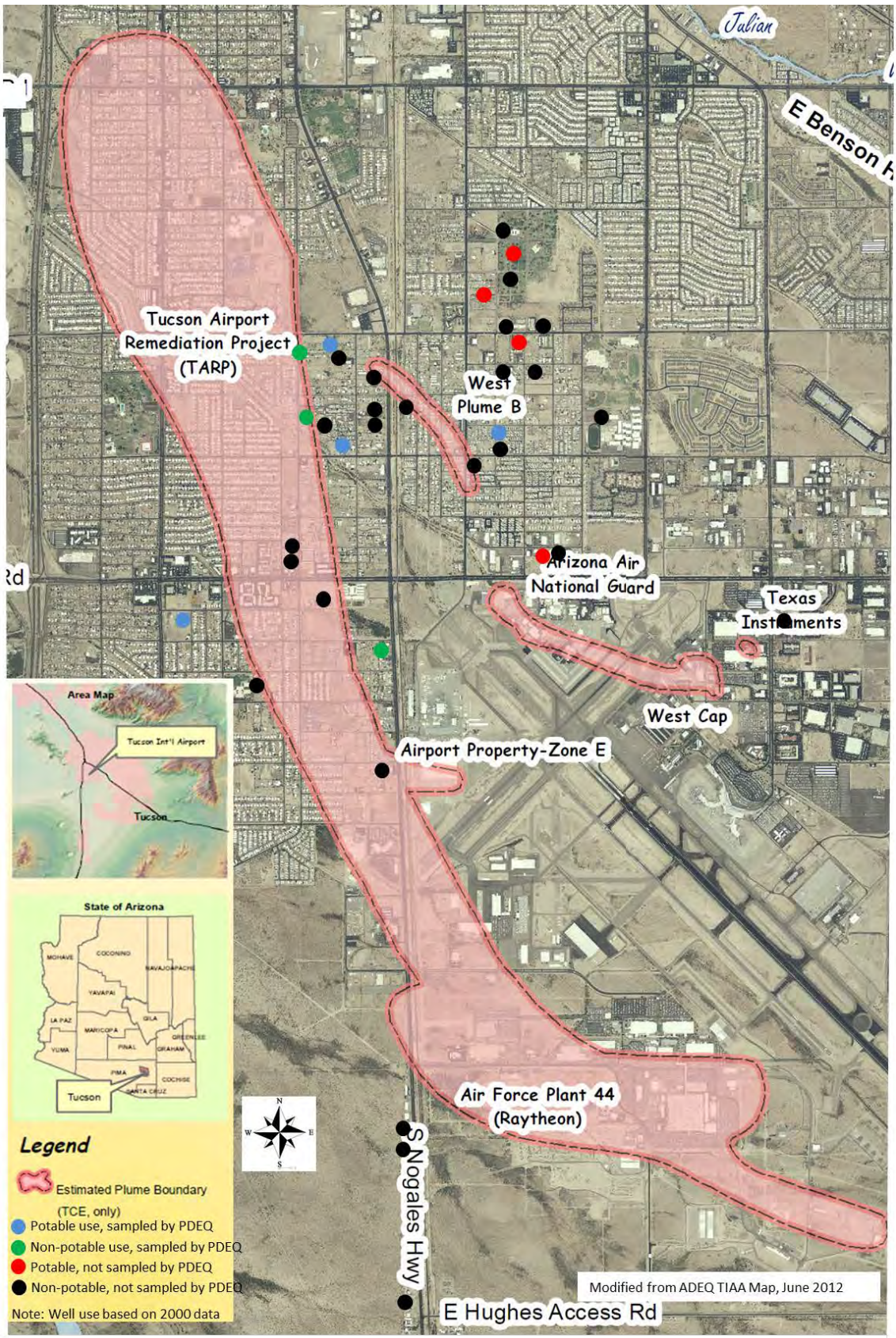

Figure 2. Trichloroethene Groundwater Contamination Map (modified from ADEQ, 2012)

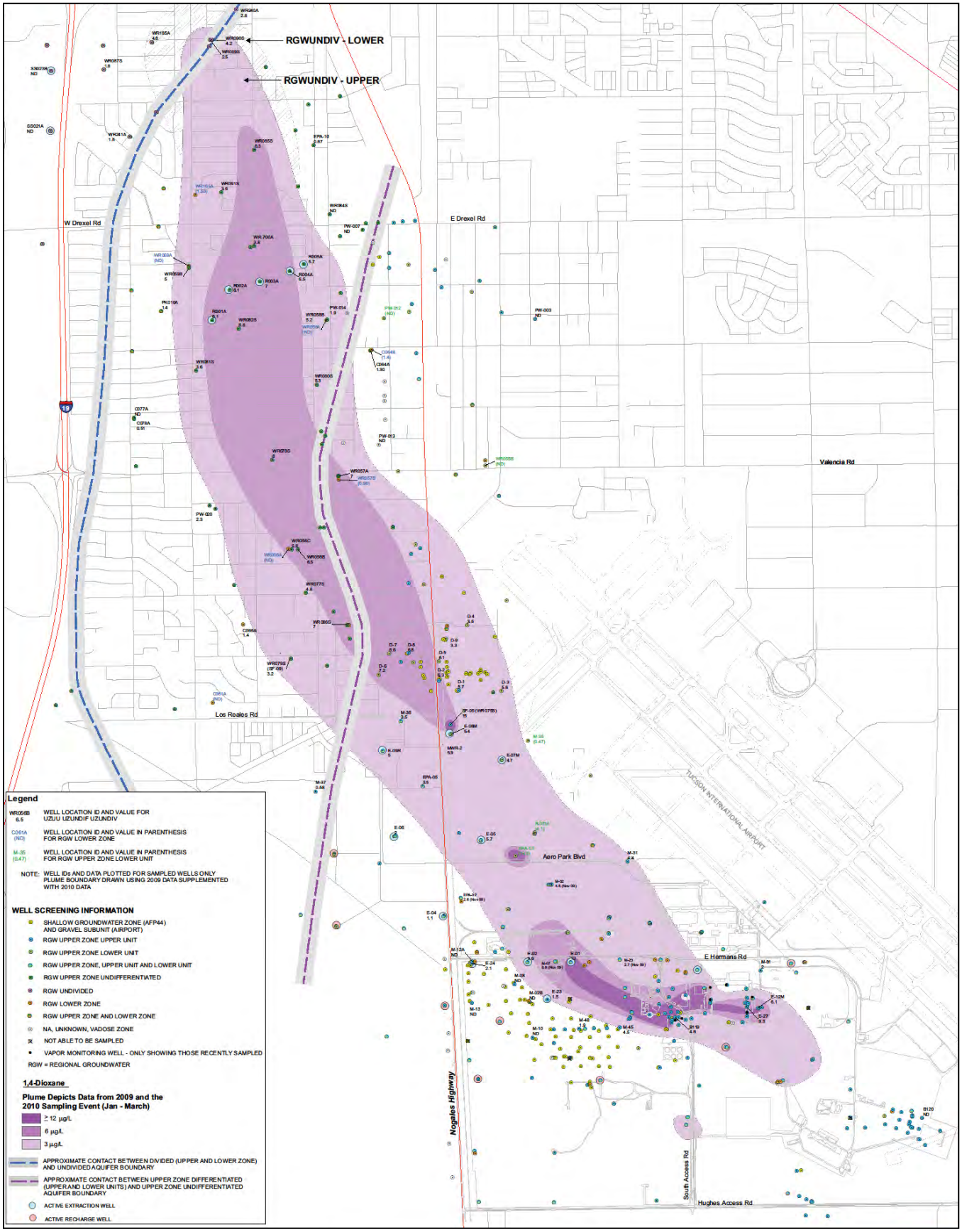

Figure 3. 1,4-Dioxane Groundwater Contamination Map, Winter 2010 Data (AECOM, 2013)

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3 BACKGROUND

3.1 Location

TIAA Superfund Site (EPA ID No. AZD980737530) is located on the southwest side of the city of Tucson, Pima County, Arizona. TIAA Superfund Site is a northwest-southeast trending oval-shape bounded by Interstate-19 on the west, Ajo Way on the north, Alvernon Way on the east, and Hughes Access Road on the south (Figure 2). TIAA Superfund Site covers approximately ten square miles and includes the Tucson International Airport, northeastern portions of the San Xavier District of the Tohono O'Odham Nation, residential areas of the cities of Tucson and South Tucson, and the Air Force Plant #44 Raytheon Missile Systems Company (AFP44).

3.2 Site Description

The TIAA Superfund Site study area is primarily an urban residential area with some commercial parcels interspersed. The site is bordered on the north, west, and east by other similar residential and commercial areas and bordered on the south by predominantly undeveloped desert land. Most of the structures in the study area are private homes, with several apartment buildings and a few small commercial buildings.

Initial indications of ground-water contamination on the south side of Tucson date back to the 1950's when chromium was detected in a City of Tucson well, and some private well water near the airport was reported to have a foul odor. In 1981, volatile organic compounds (VOCs), which are used as solvents by electronic and aerospace industries, were found in City of Tucson drinking water wells. Subsequently, it was determined that there are a number of contaminant plumes within the regional aquifer. The primary organic contaminants of concern are trichloroethene (TCE) and 1,4-dioxane. The primary inorganic contaminant is chromium.

TIAA Superfund Site was placed on the National Priorities List (NPL) in 1983 and consists of a main plume of contaminated ground water and three smaller areas of ground-water contamination east of the main plume (see Figure 2). The focus of the private well monitoring program is a group of wells located directly east, adjacent to, and within the Tucson International Airport Area Groundwater Remediation Project (TARP) area.

In 1988, ATSDR issued a public health assessment for the TIAA Superfund Site. This assessment evaluated exposures to the contaminated water supply and was the result of a petition request received in July 1987 from 11 individuals who lived in southwest Tucson. In November 1991, the Pima County Health Department (PHD), on behalf of citizens' groups from the affected communities, requested that ATSDR perform a more detailed public health evaluation of the TIAA Superfund Site.

In 1994, EPA funded PDEQ to investigate selected private wells in the south side Tucson area near Tucson International Airport. This investigation was prompted by ATSDR's request to have private well-water quality data for an amended public health assessment. The 1994 investigation focused on the identification and sampling of wells within the study area as established by ASTDR. The wells targeted included those used for human consumption or irrigation purposes.

In its September 1996 public health assessment addendum entitled *Petitioned Public Health Assessment Addendum, Tucson International Airport Area, Tucson, Pima County, Arizona* (ATSDR, 1996), ATSDR made the following recommendations to eliminate future exposure of persons to contaminants in the ground water:

- Implement a routine tap-water sampling plan for the wells with treatment systems to ensure the treatment systems are removing VOCs.

- Implement a sampling plan for all private wells that remain in use for domestic or agricultural purposes, within the potentially impacted area.

- Implement a plan to ensure selected wells, which were identified in the 1994 private well survey as having water quality that exceeded the maximum contaminant level (MCL) for trichloroethene, are not used for drinking water purposes. [NOTE: Two wells were not in use; another two wells were being used for irrigation purposes].

- Survey results suggested that few southwest Tucson residences have private wells serving as drinking water sources. In addition, because community members are well aware of the groundwater contamination present at TIAA Superfund Site, the resident are unlikely to drill new private wells; however, because approximately 25% of the well owners did not respond to the survey and a contaminated private well was in use as a drinking water source as late as 1992, PDEQ was recommended to continue to locate private wells and test all wells identified.

- One well, located as a result of the private well survey, was operational but not sampled because it required repairs. The status of this well should be determined and if in use, included in the routine sampling program.

In its July 2000 public health assessment entitled *Groundwater Contamination in West Plume B, North of Valencia Road, Tucson International Airport Area, Tucson, Pima County, Arizona* (ATSDR, 2000), ATSDR addressed potential current and future exposures to contaminated ground water from private wells in the area of West Plume B. The assessment concluded that the ground water currently posed no public health hazard, but that a future potential public health hazard might exist.

In 2002, EPA and ADEQ became concerned about the possible presence of 1,4-dioxane in ground water at the TIAA Superfund Site. This chemical is used as a solvent stabilizer in 1,1,1-trichloroethane (1,1,1-TCA) and is suspected to have been used by several facilities located at the TIAA Superfund Site.

These suspicions were confirmed by reported detections of 1,1,1-TCA within ground water under the AFP44 facility and at other TIAA Superfund Site locations. Consequently, managers suspected 1,4-dioxane might also be present in the subsurface environment. At the time, EPA listed 1,4-dioxane as a Class II-B[1] carcinogen (probable human carcinogen). Therefore, EPA and ADEQ concluded testing for this compound would be appropriate. As directed by EPA and ADEQ, PDEQ added 1,4-dioxane to the list of analytes for the private well monitoring program.

[1] Based on animal studies, the chemical is considered carcinogenic; human evidence is inconclusive.

3.3 Site Contamination History

Contamination of groundwater in the vicinity of the TIAA Superfund Site is attributed to past industrial activities at five facilities: (1) the Tucson Airport Authority (TAA) encompassing the airport and associated operations; (2) the Texas Instruments Tucson property (formerly Burr-Brown Corporation and located to the north of the airport property); (3) the Arizona Air National Guard Base (AANG) located to the north of the airport property; (4) Air Force Plant 44 (AFP44) located south of the airport property; and (5) the former West Cap facility.

3.4 Previous Groundwater Investigations

Since 1981, numerous studies included sampling private wells in the vicinity of the TIAA Superfund. Groundwater quality assessments completed by EPA showed TCE and chromium were the two primary contaminants found in the contaminated portions of the regional aquifer. Within these contaminated portions of the aquifer, concentrations of both TCE and chromium exceed the MCLs for safe drinking water. Between 1981 and 1984, local and state agencies attempted to identify all private wells (wells not operated by a municipal system or regulated public water system) in the area that could have potentially been affected by the contaminant plume(s). Data collected in the early 1980's detected TCE in 32 of 57 private wells sampled.

In 1992, a resident requested PDEQ test their private well water. Test results showed the water contained 130 micrograms per liter (µg/L) of TCE, a level 26 times higher than the current MCL of 5µg/L. This well, located within the defined contaminant plume, was providing potable water for the residence at the time the contamination was detected. To prevent further exposure, the resident was hooked-up to the Tucson Water distribution system. Further investigation into the contamination of private wells was initiated as a result of this well sampling.

In cooperation with PHD, EPA published a newsletter about the TCE contamination. The newsletter requested that anyone living within the Superfund site area, and using a private well, contact PDEQ or EPA to schedule sampling and analysis of their private well.

In 1994, when the ATSDR study area was officially established, PDEQ conducted an EPA-funded private well investigation. This investigation included a survey of 768 parcels. PDEQ was able to verify through historical records and field investigations that 24 of these parcels contained private wells used for domestic purposes. Twenty-two of the 24 well owners granted PDEQ access to perform water quality testing.

For the 1994 private well sampling project, personnel from Armstrong Lab, Brooks Air Force Base, San Antonio, Texas were designated as the primary sampling team while PDEQ carried out an EPA-approved split sampling plan and provided general supervision of the project. The Brooks Air Force Base sampling team submitted their samples to BC Laboratories of Bakersfield, California and PDEQ personnel submitted their split samples to both Turner Laboratories, Inc. of Tucson, Arizona and Analytical Technologies, Inc. of San Diego, California. All laboratories used EPA Method 524.2 for VOCs and EPA Method 218.2 for total chromium and EPA Method 7196 for hexavalent chromium[2].

[2] Hexavalent (VI) chromium was only sampled for and analyzed when the total chromium concentration of a sample was found to have exceeded the MCL of 100µg/L.

In 1998, PDEQ, with additional funding from EPA and ADEQ, started a three-year project sampling specific private wells on an annual basis. PDEQ was contracted to perform this work in order to provide private well owners with ongoing information about the water quality of their wells. Results of the three-year study and the 1994 data are tabulated (Table 1).

Table 1. **Comparison of Analytical Results: 1994. 1998, 1999 and 2000 (PDEQ, 2001)**

		trichloroethene[1] (µg/L)					**chromium, total[2] (µg/L)**			
Well #	**Well Use**	**1994**	**1998**	**1999**	**2000**		**1994**	**1998**	**1999**	**2000**
PW-01	Irrigation	1.4	6	0.9 J	0.9 J		13	48.9	20	190
PW-02	Irrigation	13	16	18	24		1.2J	ND	ND	ND
PW-03	Drinking water	ND	ND	ND	ND		1J	2.2J	ND	ND
PW-04	Not Operational	36	NS	NS	NS		71.5	NS	NS	NS
PW-05	Not Operational	120	NS	NS	NS		160	NS	NS	NS
PW-06	Drinking water	ND	ND	0.8 J	NS		12	10.7	23	NS
PW-07	Drinking water	2.9	4	4	4		ND	2.2J	ND	ND
PW-08	Not Operational	ND	NS	NS	NS		4	NS	NS	NS
PW-09	Drinking water	ND	ND	ND	ND		ND	3J	ND	ND
PW-10	Drinking water	ND	ND	ND	ND		1.2J	2.8J	ND	7J
PW-11	Irrigation	ND	NS	NS	ND		2.8J	NS	NS	ND
PW-12	Drinking water	ND	ND	0.6 J	0.8 J		5.4J	6.3J	7 J	6J
PW-13	Drinking water	3.6	3	3	2		5J	4.8J	ND	7J
PW-14	Irrigation	49	50	38	39		9J	9.9J	13	10
PW-15	Drinking water	1.7	3	2	2		4.6J	6.3J	7J	6J
PW-16	Drinking water	ND	ND	0.8 J	0.8 J		6.4J	10.2	ND	10
PW-17	Drinking water	ND	ND	0.5 J	ND		1.2J	ND	ND	ND
PW-18	Drinking water	ND	ND	NS	NS		3.5J	5.6J	NS	NS
PW-19	Drinking water	ND	ND	ND	ND		2.8J	3.4J	ND	ND
PW-20	Drinking water	ND	ND	ND	0.7J		11.5	9.4J	28	10
PW-21	Domestic	ND	ND	ND	ND		ND	5.8J	6J	ND
PW-22	Irrigation	ND	ND	ND	ND		1J	3.1J	ND	ND
PW-23	Irrigation	NS	7	NS	NS		NS	4.8	NS	NS
PW-24	Irrigation	NS	ND	ND	ND		NS	ND	ND	ND
PW-25	Drinking water	NS	ND	ND	ND		NS	ND	6J	ND
PW-26	Irrigation	NS	ND	ND	ND		NS	17.5	13	10
PW-27	Irrigation	NS	ND	ND	ND		NS	ND	ND	ND
PW-28	Drinking water	NS	ND	ND	ND		NS	ND	ND	ND
PW-29	Drinking water	NS	ND	ND	ND		NS	ND	ND	ND
PW-34	Irrigation	NS	NS	ND	ND		NS	NS	ND	12
PW-35	Irrigation	NS	NS	NS	ND		NS	NS	NS	ND
PW-37	Irrigation	NS	NS	NS	ND		NS	NS	NS	ND

µg/L = microgram per liter
[1] maximum contaminant level ("MCL") for TCE = 5µg/L
[2] maximum contaminant level ("MCL") for chromium = 100µg/L
ND = compound was analyzed for, but not detected
NS = not sampled
J = amount of the compound detected is less than the quantitation limit and is only an estimated value

3.5 Summary of Annual Well Monitoring Program

2000: EPA asked the Tucson Airport Authority (TAA) to implement annual water-quality monitoring for eleven private wells in the area of contaminated ground water under remediation as part of TARP. The principal ground-water contaminants of concern, identified by EPA, were TCE and chromium. In 2002, 1,4-dioxane was identified as another contaminant of concern.

2001: In August, PDEQ implemented the private well monitoring program portion of TARP.

2002: In September, PDEQ entered into a contract with TAA to implement the well monitoring program for the following eleven wells: PW-07; PW-11 through PW-17; PW-20; PW-21; and PW-23.

2003: In January, PDEQ amended an existing contract with the Arizona Department of Environmental Quality (ADEQ) to implement a well monitoring program for the following three wells: PW-03, PW-18 and PW-38.

2003: In February, PDEQ sampled the following eleven wells: PW-03, PW-07, PW-11, PW-12, PW-13, PW-14, PW-15, PW-16, PW-17, PW-20 and PW-21. PDEQ did not sample three wells (PW-18, PW-23 and PW-38) due to difficulties with access or well operation. In response to high levels of TCE detected in the February samples for wells PW-07 and PW-15, these two wells were re-sampled in April.

2004: The following nine wells were sampled in early February: PW-03; PW-07; PW-11; PW-12; PW-13; PW-14; PW-17; PW-20; and PW-21. As in 2003, PDEQ was not granted access to sample either well PW-18 or well PW-23. The three remaining wells (PW-15, PW-16, and PW-38)[3] were not operational and could not be sampled.

2005: The following eight wells were sampled in early February: PW-03; PW-07; PW-11; PW-12; PW-13; PW-14; PW-17; and PW-20. Although PDEQ was granted access to a ninth well, well PW-21, this well was not operational for the 2005 sampling season. As in the years 2003 through 2005, PDEQ was not granted access to either well PW-18 or well PW-23. Finally, as in previous years, the remaining three of the original fourteen wells (PW-15, PW-16, and PW-38) were not operational.

2006: The following eight wells were sampled in early February: PW-03; PW-07; PW-11; PW-12; PW-13; PW-14; PW-17; and PW-20. Due to mechanical problems with the pump, PDEQ was unable to sample well PW-21. PDEQ was not granted access to well PW-18 and PW-23. Wells PW-15 and PW-16 have been out of service since 2003.

2007: The following six wells were sampled in late February: PW-03; PW-11; PW-12; PW-13; PW-14; and PW-20. Wells PW-07 and PW-17, which in previous years had been sampled, were damaged prior to February 2007 and were not operational. Well PW-21 has not been in operation for several years and was not sampled. As in the past five years, PDEQ was not granted access to either well PW-18 or well PW-23. Wells PW-15, PW-16, and PW-38 have been out of service since at least 2003.

2008: The following six wells were sampled in early March: PW-03; PW-11; PW-12; PW-13; PW-14; and PW-20. Wells PW-17 and PW-21 remained inoperable. Although well PW-07 was operational, it was not sampled because of scheduling conflicts with the well owner. The new owner of well PW-18 initially indicated a desire to have the well tested. However, the well was found to be inoperable and repair costs were determined to be prohibitive. The other four wells (PW-15, PW-16, PW-23, and PW-38) remain out of service since at least 2003.

2009: The following seven wells were sampled in February: PW-03; PW-07; PW-11; PW-12; PW-13; PW-14; and PW-20. Wells PW-17, PW-18, and PW-21 were out of operation. The other four wells (PW-15, PW-16, PW-23, and PW-38) remain out of service since at least 2003.

2010: The following six wells were sampled in February: PW-03; PW-07; PW-12; PW-13; PW-14; and PW-20. PDEQ was not granted access to well PW-11. Wells PW-17, PW-18, and PW-21 were not operational. The other four wells (PW-15, PW-16, PW-23, and PW-38) remain out of service since at least 2003.

2011: The following six wells were sampled in February: PW-03, PW-07, PW-12, PW-13, PW-14 and PW-20. PDEQ was not granted access to well PW-11. Wells PW-17, PW-18, and PW-21 were not operational. The other four wells (PW-15, PW-16, PW-23, and PW-38) remain out of service since at least 2003.

2012: The following four wells were sampled on February 29, 2012: PW-07, PW-12, PW-13 and PW-20. PDEQ was not granted access to wells PW-03, PW-11, or PW-14. Wells PW-17, PW-18, and PW-21 were not operational. The other four wells (PW-15, PW-16, PW-23, and PW-38) remain out of service since at least 2003.

2013: The following seven wells were sampled on February 26 and 28, 2013: PW-03, PW-07, PW-11, PW-12, PW-13, PW-14, and PW-20. Wells PW-17, PW-18, and PW-21 were not operational. The other four wells (PW-15, PW-16, PW-23, and PW-38) remain out of service since at least 2003.

2014:
EPA requested to end the sampling at PW-03 as the results have always been non-detect. As PDEQ recognized this well defines the eastern boundary of the plume, they contracted with the Tucson International Airport Authority to collect and analyze samples for the seven remaining wells that are operational, namely PW-03, PW-07, PW-11, PW-12, PW-13, PW-14, and PW-20. The seven wells were sampled on February 11, 12 and 13, 2014. Equipment at the laboratory malfunctioned and three VOC samples exceeded the holding time. Replacement samples were collected from PW-07 on March 11, 2014 and samples were collected from PW-11 and PW-12 on March 18, 2014.

2015: The following four wells were sampled on February 10 and 11, 2015: PW-11, PW-12, PW-14, and PW-20. The well owners for PW-03, PW-07 and PW-13 did not grant access and the wells were not sampled. The results of this sampling event are tabulated (Table 5).

4 OVERVIEW OF MONITORING PROGRAM

4.1 Contaminants of Concern

TCE, chromium, and 1,4-dioxane have been detected in private wells within the TIAA Superfund Site study area for years. TCE concentrations in private wells have been detected as high as 130 µg/L, chromium concentrations as high as 160 µg/L, and 1,4-dioxane concentrations as high as 10 µg/L. Additionally, detectable levels of 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), and 1,2-dichloroethane (1,2-DCA) have been observed in ground-water samples collected within the boundaries of the TIAA Superfund Site.

4.2 Private Wells to be Sampled

In early 2002, fourteen wells were selected for inclusion in the monitoring program (Table 2). The location of each of the fourteen private water wells is shown in Figure 3.

Table 2. Well Construction Information

Well #	Well Use	Well Depth (feet)	Screened Interval (feet)	Land Surface Elevation (feet)	Ground-Water Elevation[a] (feet)	Depth to Ground Water[a] (feet)
PW-03	Drinking Water	unknown	unknown	2,539	2,440	99
PW-07	Irrigation[b]	150	unknown	2,510	2,427	83
PW-11	Irrigation	223	unknown	2,539	2,435	105
PW-12	Drinking Water	212	unknown	2,515	2,412	104
PW-13	Drinking Water	unknown	unknown	2,525	2,424	101
PW-14	Irrigation	unknown	unknown	unknown	unknown	Unknown
PW-15	Not Operational	240	unknown	2,510	2,409	101
PW-16	Not Operational	120	unknown	2,515	unknown	Unknown
PW-17	Not Operational[c]	99	unknown	2,517	2,431	86
PW-18	Not Operational[c]	265	unknown	2,523	2,418	105
PW-20	Domestic[b]	140	unknown	2,513	2,425	88
PW-21	Not Operational[d]	212	unknown	2,521	2,435	86
PW-23	Not Operational[d]	170	unknown	unknown	unknown	unknown
PW-38	Not Operational	unknown	unknown	2,535	unknown	92

[a] August 1993 well inventory data compiled by Pima County DEQ
[b] Before 2004 the well was used as a drinking water source; subsequently, the well has been used for irrigation.
[c] prior to the 2007 sampling season, this well was used for drinking water purposes
[d] prior to the 2005 sampling season, this well was used for irrigation purposes

Depths of the screened intervals for the wells are not known. Based on total well depth information, however, all wells appear to have been completed within the regional aquifer system. The lithological characteristics of the regional aquifer system vary both horizontally and vertically. The regional aquifer is hydraulically continuous (U.S. Geological Survey, 1997).

The primary purpose of the Southside Private Well Monitoring Program is to determine whether

or not the water from privately-owned wells contains concentrations of TCE, 1,4-dioxane, or chromium in exceedance of acceptable levels. As a result, it is not crucial that the exact depth of each screened interval be known. For a more detailed discussion of TIAA Superfund Site hydrogeology, please refer to the report entitled *Remedial Investigation Report, Phase II, Former West-Cap Property and Vicinity, Area B Tucson International Airport Area CERCLA Site* (ADEQ, 1998).

The fourteen wells were originally selected based on their proximity to either the main TARP plume (PW-7, PW-11 through PW-17, PW-20, PW-21, and PW-23) or West Plume B (PW-03, PW-18, PW-38), and because the wells were potentially being used for drinking, bathing, cooking, evaporative cooling, or for other purposes such as irrigation.

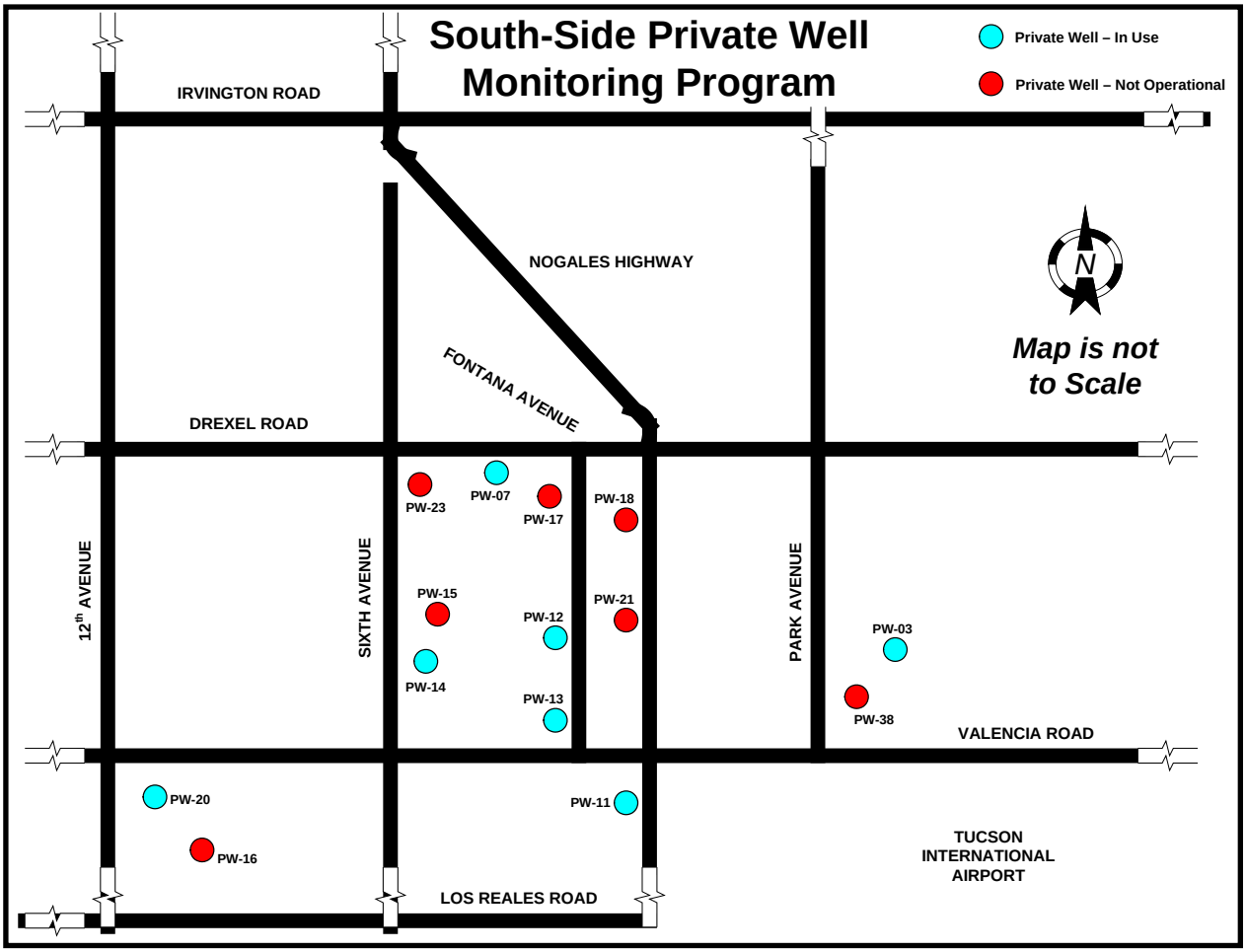

Figure 4. Private Wells Identified for Sampling in 2002

PDEQ has historically mailed a semi-annual notification to well owners with active wells. The notification states a final report has been prepared for the current year and PDEQ plans to sample their well in the following February. While this notification did not take place this year, the semi-annual notification will be re-instated next year.

In December 2014, PDEQ mailed a letter to each of the seven private well owners (Appendix A). These letters requested information about the wells and permission to collect water samples in February 2015. Enclosed with the letter was an *Authorization to Sample* form (Appendix B).

PDEQ received permission from owners of the following four wells: PW-11, PW-12, PW-14 and PW-20. Well owners were contacted by phone to schedule the sampling date and time.

PDEQ used the sampling & analysis plan entitled *"PDEQ**1** Sampling & Analysis Plan, South-Side Private Well Monitoring Program, Tucson International Airport Area Superfund Site"* (PDEQ1 SAP) (PDEQ, 2004b).

4.3 Sampling Routine

4.3.1 Sample Sets

A sample set consisted of one water sample for each of the following parameters: volatile organic compounds (VOCs), 1,4-dioxane, and chromium. Two sets of samples were collected at each property. Unless otherwise noted, these sets consisted of either indoor/outdoor tap and well head, or a set from a well head without flushing and well head with flushing.

In addition to the above-mentioned samples, the following sets were collected each day of sampling: a duplicate, and laboratory quality control (QC). Each of these sample sets was analyzed for VOCs, chromium, and 1,4-dioxane (Appendix C).

4.3.2 Owner Authorization

PDEQ obtains verbal and/or written authorizations from well owners prior to sample collection. An authorization form was requested to provide written permission (Appendix B).

4.3.3 Sample Preservation

4.3.3.1 Volatile Organic Compounds

For VOC samples collected from chlorinated water systems, the 40 milliliter vials are typically pretreated with ascorbic acid to prevent disinfection by-products (DBPs) from forming when hydrochloric acid is later added as a preservative in the field. This year's vials were pre-treated with hydrochloric acid rather than ascorbic acid, creating an opportunity for DBPs to form resulting in potential false positives. The analytical results were reviewed for all DBPs, including Total Trihalomethanes, and none were detected indicating there were no false-positives. Both preservatives do not adversely affect samples collected from non-chlorinated water systems, nor did it interfere with laboratory analyses.

4.3.3.2 1,4-Dioxane

For 1,4-dioxane analyses, sample containers (125 milliliter amber glass bottles) were pre-preserved with sulfite and bisulfite.

4.3.3.3 Inorganics

For chromium analyses, 500-ml plastic bottles were pre-rinsed with nitric acid. The nitric acid reduces the pH of the chromium samples (i.e., preserve the samples) to less than 2.

4.3.4 Field Parameters

The field parameters pH, temperature, and electrical conductivity were collected at 5-minute intervals during a 10-minute purging period. For all other wells, the second sample set was collected following the 10-minute purging period.

Pertinent sampling information for each sample set was recorded on a *Private Water Well Sampling Record* (Appendix C). Field measurements and other associated information are documented in the field log book (Appendix D).

4.4 Participating Agencies, Laboratories, and Contractors

The Tucson Airport Authority (TAA) funded PDEQ to collect the samples as well as the laboratory analysis by Eurofins Eaton Analytical. The laboratory submitted both a Level I and Level IV data package to PDEQ The Level IV data package was evaluated by Arcadis to prepare a Data Validation Report (Appendix E).

4.5 Analytes and Test Methods

Water samples were tested for TCE, 1,4-dioxane, and total chromium with specific detection limits (Table 3). Local laboratories were contacted to assess their detection limits for 1,4-dioxane and none were discovered in Arizona that would be equal to or lower than EPA's Regional Screening Level. The closest laboratory outside of Arizona providing the low detection limits was Eurofins Eaton Analytical, which is in Monrovia, California.

Table 3. Analytes and Test Methods

Method	Contaminant	Detection Limit (µg/L)	MCL (µg/L)	Regional Screening Level (µg/L)
EPA 524.2	TCE	0.5	5	----
EPA 200.8	Chromium, total	1	100	----
EPA 8270C	1,4-dioxane	0.07	----	0.35

MCL = maximum contaminant level
Regional Screening Level = drinking water concentration that would increase cancer risk by one in one million over a lifetime of water consumption [excess cancer risk of $1x10^{-6}$]
µg/L = micrograms per liter or parts per billion = ppb

EPA updated the Regional Screening Level for 1,4-dioxane as part of an Intergovernmental Agreement to merge the standards from EPA Region 3, Region 6 and Region 9 (EPA, 2014). The RSL is based on health risks and the most recent toxicity values to protect human health. These values were not developed to define remediation standards or ecological effects; the standard indicates regular monitoring is recommended to provide screening data for EPA's lifetime health advisory of 200 µg/L (0.2 mg/L) for 1,4-dioxane in drinking water.

4.6 Quality Assurance / Quality Control Samples

Trip blanks were used to assess the potential for cross contamination of VOCs, chromium and 1,4-dioxane during transport. Trip and temperature blanks were carried in the coolers.

Field blanks were collected each day using distilled deionized sterile water to assess the potential for contamination during sample collection.

In addition to the field blank samples, laboratory quality control (QC) samples were collected each day. A laboratory QC sample is a subset of a given field sample. Two sets of water sample containers were filled and all containers were labeled with the same sample number. The double volume of sampled water was of sufficient quantity for routine laboratory QC analysis and duplicate laboratory QC analysis. In order to alert the laboratory as to which samples were to be used for QC analyses, QC sample containers were labeled with an "MS" or "MSD" (i.e., 2015-PW12-02MS).

4.7 Sample Collection

For well PW-11, one sample was collected from an outdoor spigot and the second sample was collected from the well head. For well PW-12, which is used for drinking water purposes, one sample was collected at a kitchen tap and a second sample was collected at the well head. Two samples were collected from the well head at PW-14 as the well is not connected to piping that delivers the water for irrigation. For well PW-20, which is used for domestic purposes, the first sample was collected at a restroom sink and the second sample was collected at the well head.

The first sample set at each location was collected without purging the water system. The second sample set was collected after purging the system for approximately 10 minutes. PDEQ delivered the samples to FEDEX to ship the sample sets to Eurofins Eaton Analytical in Monrovia, California. The ice chests were packed with wet ice in Ziploc bags and the open space was filled with bubble wrap to be sure the bottles remained intact during shipping.

4.8 Re-Sample Collection

PDEQ compared the 2015 sampling results to historical records for each of the wells. The purpose of this comparison was to determine if any unexpected contaminant concentrations had been discovered. A comparison of new and existing data indicated that there were no significant adverse water quality changes from the previous year. Therefore, it was not necessary for any of the wells to be re-sampled.

4.9 Data Validation

All laboratory data were validated in accordance with the following EPA-guidance: *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Method Data Review* (EPA, 2008); and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (EPA, 2004). Specifically, all sample sets underwent data validation according to Level IV data validation requirements. ARCADIS provided data validation services for the analytical results from the four wells (Appendix E).

4.10 Deviations from Sampling & Analysis Plan(s)

Well PW-12 was only purged for 8 minutes prior to collecting the second sample, due to an automatic well pump shutoff. The preservative for VOCs preventing the formation of disinfection by-products was missing in the water samples from chlorinated systems; analytical results show no disinfection by-products formed indicating there were no false-positives.

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5 LABORATORY ANALYTICAL RESULTS

5.1 Sampling Results

Four wells were sampled. One well is used for drinking water purposes. The other three wells are used for either landscape irrigation or other domestic purposes (Table 4).

The analytical results, MCLs, and Regional Screening Level (RSL) for water samples collected during the 2015 sampling season are summarized (Table 5). The following contaminants of concern were detected: trichloroethene; chromium; and 1,4-dioxane. Laboratory data packages contain all the sample results and quality control information (Appendix D).

Table 4. 2015 Sample Dates & Locations

Well #	Well Use	Sample Date	Lab ID	Sample ID	Sample Location
PW-11	irrigation	02/11/15	201502120601 201502120602 201502120603 201502120604	2015-PW11-01 2015-PW11-02 2015-PW11-02MS 2015-PW11-02MSD	Outdoor Tap Well head Well head – Lab QC Well head – Lab QC
PW-12	drinking water	02/11/15	201502120598 201502120599 201502120600	2015-PW12-01 2015-PW12-02 2015-PW12-02F	Indoor Tap Well head Field Blank
PW-14	irrigation	02/10/15	201502110195 201502110196 201502110197	2014-PW14-01 2014-PW14-02 2014-PW14-02F	Well head, unpurged Well head, purged Field Blank
PW-20	domestic[1]	02/10/15	201502110616 201502110617 201502110618 201502110619	2014-PW14-01 2014-PW20-02 2014-PW20-02MS 2014-PW20-02MSD	Indoor Tap Well head Well head – Lab QC Well head – Lab QC

[1] Well owner uses bottled water; Well is used for irrigation and other non-drinking purposes.
Field blank = prepared using de-ionized water for both organic and inorganic parameters

5.1.1 Trichloroethene

Samples from wells PW-11, PW-12, PW-14, and PW-20 had detectable concentrations of TCE (Table 5). Samples from the irrigation well PW-14 contained the highest TCE concentration of 2.4 µg/L. All TCE concentrations were well below the MCL of 5 µg/L.

5.1.2 Total Chromium

Samples from wells PW-11, PW-12, PW-14, and PW-20 had detectable concentrations of total chromium (Table 5). Chromium concentrations ranged between <1 to 15 and are similar to ambient conditions in the Tucson basin (City of Tucson, 2014). Two samples from the irrigation well PW-14 averaged 12.3 µg/L, which is typical of this well. All chromium concentrations were below the MCL of 100 µg/L.

Table 5. 2015 Analytical Results Summary										
Well #	**Use[2]**	**Sample Date**	**Sample Location**	**TCE (µg/L)**		**Chromium (mg/L)**		**1,4-dioxane (µg/L)**		**Sample Number**
				Result	MCL	Result	MCL	Result	RSL	
PW-11	IRR	02/11/15	Outdoor Tap Well head	1.7 1.7	5.0	<1 5.5	100	1.5 1.4	0.35	15-PW11-01 15-PW11-02
PW-12	DW	02/11/15	Outdoor Tap Well head	0.71 0.68	5.0	5.4 5.5	100	<0.07 <0.07	0.35	15-PW12-01 15-PW12-02
PW-14	IRR	02/10/15	Well head Well head	1.8 2.4	5.0	15 9.5	100	2.8 3.8	0.35	15-PW20-01 15-PW14-02 15-PW14-02D
PW-20	DOM[1]	02/10/15	Indoor Tap Well head	0.75 0.78	5.0	<1 4.1	100	1.2 1.4	0.35	15-PW14-01 15-PW20-02

[1] Well owner is using bottled water and the well is used for irrigation or non-drinking purposes
DW – Drinking water; IRR – irrigation; DOM – Domestic
Standards: MCL = Maximum Contaminant Level; RSL = Regional Screening Level
Units: µg/L = micrograms per liter (ppb); mg/L = milligrams per liter (ppm)

5.1.3 1,4-Dioxane

Samples from wells PW-11, PW-14, and PW-20 had detectable concentrations of 1,4-dioxane ranging between 1.2 and 3.8 µg/L (Table 5). Concentrations of 1,4-dioxane in water samples collected from PW-11, PW-14 and PW-20 were higher than EPA's RSL of 0.35 µg/L, which represents the 1 in 10^{-6} cancer risk level. EPA has established a target risk range of 1 in 1,000,000 to 10,000 (10^{-6} to 10^{-4}) for hazardous waste sites (ADHS, 2014). When concentrations of 1,4-dioxane are above the EPA's ingestion Regional Screening Level (RSL) of 0.35 µg/L, drinking water wells are recommended to be monitored regularly to provide screening data for EPA's lifetime health advisory of 200 µg/L (0.2 mg/L) for 1,4-dioxane in drinking water. Of these three wells, one (PW-20) is a source of drinking water and these well owners have been advised to drink bottled water. This well owner also has the option of connecting to a public water system. They have also been advised the water is safe for bathing and showering as EPA's dermal RSL is 220 µg/L (EPA, 2014).

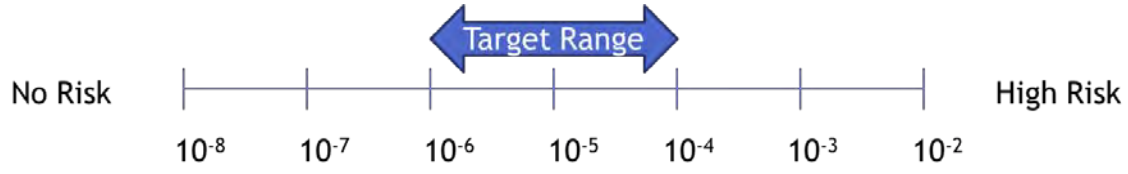

Figure 5. EPA Target Risk Range for 1,4-Dioxane in drinking water

5.1.4 Other Contaminants of Concern

No other contaminants were detected in the samples.

5.2 Re-Sampling Results

None of the wells required re-sampling due to unusual concentrations.

Table 6. 2015 Sampling & Laboratory Analyses Dates				
well #	**sampling date**	**Dates of the laboratory analyses**		
		organic compounds	**Chromium**	**1,4-dioxane**
		hold time < 14 days	**hold time < 6 months**	**hold time < 28 days**
PW-14	02/10/15	02/18-24/15	02/17/15	02/12/25
PW-20	02/10/15	02/13-18/15	02/17/15	02/16/15
PW-11	02/11/15	02/16-18/15	02/20/15	02/16/15
PW-12	02/11/15	02/16/15	02/20/15	02/16/15

5.3 Comparison of Historical Data

5.3.1 Trichloroethene

Historically, water samples from wells PW-11, PW-12 through PW-14 and PW-20 have had detectable concentrations of TCE (Table 7). Since 2010 all TCE detections have been below the 5.0 µg/L MCL for TCE. The long-term trend for wells PW-12 and PW-14 since 2003 is a steady decline. TCE concentrations in well PW-11 increased in 2013 and has since ranged between 1.3 and 1.7 µg/L, which is three times higher than prior detection of 0.6 µg/L. TCE concentrations at wells PW-20 have been relatively consistent.

5.3.2 Total Chromium

Total chromium concentrations held steady at wells PW-11, PW-12, and PW-14 (Table 7). Total Chromium concentration at PW-20 have been decreasing. All concentrations are below the MCL of 100 µg/L.

5.3.3 1,4-Dioxane

The concentrations for 1,4-dioxane have remained non-detect for well PW-12 (Table 7). Three other wells (PW-11, PW-14 and PW-20) had 1,4-dioxane concentrations above the EPA's ingestion RSL, which means the wells are within EPA's target risk range and are recommended to be monitored (ADHS, 2014). 1,4-dioxane concentrations in well PW-11 have been detected twice, once in 2013 and a second time in 2015. All samples were below the dermal RSL of 220 µg/L indicating the water is safe for bathing and showering.

5.3.4 1,1-Dichloroethene

In past years, well PW-14 was the only well in this sampling program showing detectable concentrations of 1,1-DCE. The last time PW-14 had detectable concentrations of 1,1-DCE was 2010.

5.4 Validation of Analytical Data

The samples were processed within the required holding times (Table 6). The Level IV data package was validated in accordance with procedures identified within relevant EPA guidance documents (EPA, 2004 and 2008) by ARCADIS (Appendix E, ARCADIS, 2015). Data validation shows the data is useable for the intended purpose.

5.5 Summary of Sampling Results

Wells PW-11, PW-14 and PW-20 had 1,4-dioxane concentrations that exceeded EPA's ingestion RSL of 0.35 µg/L, which means these wells are within EPA's target risk range and are recommended to be monitored regularly (ADHS, 2014). All 1,4-dioxane concentrations were below EPA's dermal RSL of 220 µg/L. TCE and total chromium results for all the sampled wells were all below their respective MCLs. Water samples from well PW-12 had detectable 1,4-dioxane concentrations which were below the EPA RSL of 0.35 µg/L (Figures 6 through 9).

Table 7. Historical Analytical Results for Trichloroethene, Chromium, 1,4 Dioxane (µg/L)

Well	Parameter	Maximum Contaminant Level	Risk-based Health Advisory Level (2002-2010)	Regional Screening Level (2011-present)	Use	1994	1998	1999	2000	2002[A]	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
PW-03	TCE	5.0 µg/L			drinking water	ND	ND	ND	---	+++	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	< 0.5	<0.5	---
PW-07	TCE	5.0 µg/L			irrigation	2.9	4.0	4.0	---	+++	7.0	4.0	4.4	3.8	---	---	4.0	4.1	3.8	2.1	2.6	2.7	---
PW-11	TCE	5.0 µg/L			irrigation	ND	---	---	---	+++	ND	0.6	0.5	ND	ND	ND	ND	---	---	---	1.6	1.3	1.7
PW-12	TCE	5.0 µg/L			drinking water	ND	ND	0.6J	---	+++	1.5	1.3	1.1	1.1	1.1	1.0	0.8	0.8	0.7	0.7	0.7	0.5	0.7
PW-13	TCE	5.0 µg/L			drinking water	3.6	3.0	3.0	---	+++	1.7	1.3	1.2	1.0	1.1	1.3	1.4	1.6	1.5	1.3	1.3	1.0	---
PW-14	TCE	5.0 µg/L			irrigation	49.0	50.0	38.0	---	+++	25.0	16.0	14.0	10.0	8.5	6.3	5.0J	4.9	4.2	---	3.0	2.4	2.1
PW-15	TCE	5.0 µg/L			drinking water	1.7	3.0	2.0	---	+++	6.2	A	A	A	A	A	A	A	A	A	A	A	A
PW-16	TCE	5.0 µg/L			drinking water	ND	ND	0.8J	---	+++	0.6	A	A	A	A	A	A	A	A	A	A	A	A
PW-17	TCE	5.0 µg/L			drinking water	ND	ND	0.5J	---	+++	ND	ND	ND	0.5	---	---	I	I	I	I	I	I	I
PW-18	TCE	5.0 µg/L			irrigation	ND	ND	---	---	+++	---	---	---	---	---	---	Unk	I	I	I	I	I	I
PW-20	TCE	5.0 µg/L			domestic	ND	ND	ND	---	+++	0.8	0.6	0.5	0.6	0.7	0.9	0.7	0.8	0.7	0.6	0.8	0.6	0.8
PW-21	TCE	5.0 µg/L			irrigation	ND	ND	ND	---	+++	ND	ND	A	A	A	A	A	A	A	A	A	A	A
PW-23	TCE	5.0 µg/L			irrigation	---	0.7	---	---	+++	---	---	---	---	---	---	---	---	---	---	---	---	---
PW-38	TCE	5.0 µg/L			irrigation	---	---	---		+++			---	---	---	---	I	I	I	I	I	I	I
PW-03	Chromium	100 µg/L			drinking water	1.0	2.2J	ND	ND	---	ND	ND	ND	1.2	1.2	ND	ND	ND	ND	---	<1	<1	---
PW-07	Chromium	100 µg/L			irrigation	ND	2.2J	ND	ND	---	ND	ND	2.3	1.1	---	---	ND	5.8	ND	0.8	<1	5.2	---
PW-11	Chromium	100 µg/L			irrigation	2.8J	---	---	ND	---	ND	ND	3.4	3.4	1.7	ND	ND	---	---	---	5.8	<1	3
PW-12	Chromium	100 µg/L			drinking water	5.4J	6.3J	7J	6J	---	ND	ND	5.8	5.5	6.8	5.0	6.1	5.0	7.8	5.2	5.5	4.8	5.5
PW-13	Chromium	100 µg/L			drinking water	5J	4.8J	ND	7J	---	ND	ND	5.9	6.3	6.2	6.5	6.5	7.3	6.1	5.9	5.1	4.9	---
PW-14	Chromium	100 µg/L			irrigation	9J	9.9J	13.0	10.0	---	ND	11.0	12.0	12.0	11.0	12.0	11.4	10.2	10.2		17	13.0	12.3
PW-15	Chromium	100 µg/L			drinking water	4.6J	6.3J	7J	6J	---	ND	A	A	A	A	A	A	A	A	A	A	A	A
PW-16	Chromium	100 µg/L			drinking water	6.4J	10.2	ND	10.0	---	14.0	A	A	A	A	A	A	A	A	A	A	A	A
PW-17	Chromium	100 µg/L			drinking water	1.2	ND	ND	ND	---	ND	ND	1.0	1.3	---	---	I	I	I	I	I	I	I
PW-18	Chromium	100 µg/L			irrigation	3.5J	5.6J	---	---	---	---	---	---	---	---	---	Unk	I	I	I	I	I	I
PW-20	Chromium	100 µg/L			domestic	11.5	9.4J	28.0	10.0	---	12.0	12.0	15.0	11.0	8.4	6.9	5.2	ND	ND	3.3	2.3	2.1	2.3
PW-21	Chromium	100 µg/L			irrigation	ND	5.8J	6J	ND	---	20.0	45.0	A	A	A	A	A	A	A	A	A	A	A
PW-23	Chromium	100 µg/L			irrigation	---	4.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PW-38	Chromium	100 µg/L			irrigation	---	---	---		---			---	---	---	---	I	I	I	I	I	I	I
PW-03	1,4 dioxane		3 µg/L	0.35 µg/L	drinking water	+++	+++	+++	+++	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	<0.07	<0.07	---
PW-07	1,4 dioxane		3 µg/L	0.35 µg/L	irrigation	+++	+++	+++	+++	ND	ND	ND	ND	ND	---	---	ND	ND	ND	ND	0.127	1.3	---
PW-11	1,4 dioxane		3 µg/L	0.35 µg/L	irrigation	+++	+++	+++	+++	---	ND	ND	ND	ND	ND	ND	ND	---	---	---	1.3	0.1	1.5
PW-12	1,4 dioxane		3 µg/L	0.35 µg/L	drinking water	+++	+++	+++	+++	ND	ND	ND	ND	ND	ND	ND	<1 UJ	ND	ND	ND	<0.07	<0.07	<0.07
PW-13	1,4 dioxane		3 µg/L	0.35 µg/L	drinking water	+++	+++	+++	+++	1.7	1.8	1.5	1.9	1.7	2.3J	2.0	<1 UJ	ND	ND	1.6	2.2	2.0	---
PW-14	1,4 dioxane		3 µg/L	0.35 µg/L	irrigation	+++	+++	+++	+++	6.8	7.1	7.1	6.6	7	6.8	6.1	1.6	1.9	1.2	---	4.9	3.7	3.3
PW-15	1,4 dioxane		3 µg/L	0.35 µg/L	drinking water	+++	+++	+++	+++	ND	ND	A	A	A	A	A	A	A	A	A	A	A	A
PW-16	1,4 dioxane		3 µg/L	0.35 µg/L	drinking water	+++	+++	+++	+++	9.2	9.4	A	A	A	A	A	A	A	A	A	A	A	A
PW-17	1,4 dioxane		3 µg/L	0.35 µg/L	drinking water	+++	+++	+++	+++	ND	ND	ND	ND	ND	---	---	I	I	I	I	I	I	I
PW-18	1,4 dioxane		3 µg/L	0.35 µg/L	irrigation	+++	+++	+++	+++	---	---	---	---	---	---	---	Unk	I	I	I	I	I	I
PW-20	1,4 dioxane		3 µg/L	0.35 µg/L	domestic	+++	+++	+++	+++	8.5	10	10	8	7.2	6.4	4.2	ND	ND	ND	1.6	1.7	1.5	1.3
PW-21	1,4 dioxane		3 µg/L	0.35 µg/L	irrigation	+++	+++	+++	+++	ND	ND	ND	A	A	A	A	A	A	A	A	A	A	A
PW-23	1,4 dioxane		3 µg/L	0.35 µg/L	irrigation	+++	+++	+++	+++	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PW-38	1,4 dioxane		3 µg/L	0.35 µg/L	irrigation	+++	+++	+++		+++			---	---	---	---	---	I	I	I	I	I	I

Footnotes to Table 8	
[Pima County DEQ, 1994, 1999, 2000, 2001, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014]	
[A] ADEQ , exclusively, collected water samples for 1,4-dioxane. PDEQ did not collect water samples in 2002.	
--- = not sampled	
+++ = not analyzed for	Notes:
A = Abandoned	Detection limit for TCE is 0.5 µg/L
I - inoperable	Detection Limit for Total Chromium is 5 µg/L
J = Result is estimated	Detection Limit for 1,4-dioxane: 1 µg/L until 2012; 0.07 µg/L from 2013forward.
MCL = Maximum Contaminant Level	Red text identifies results higher than MCL or RSL
ND = Non-detect	
µg/L = micrograms per liter = parts per billion (ppb)	
UJ = Reporting limit is an estimated value	
Unk = Unknown	

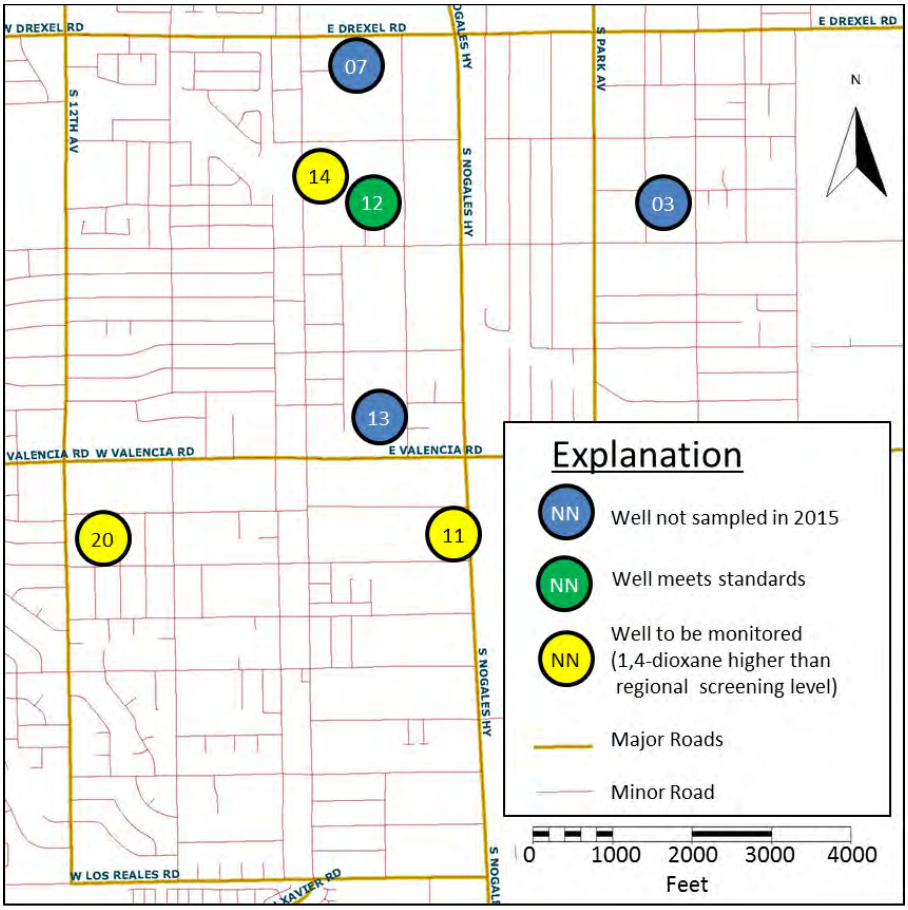

Figure 5. Southside Private Well Monitoring Exceedance Map

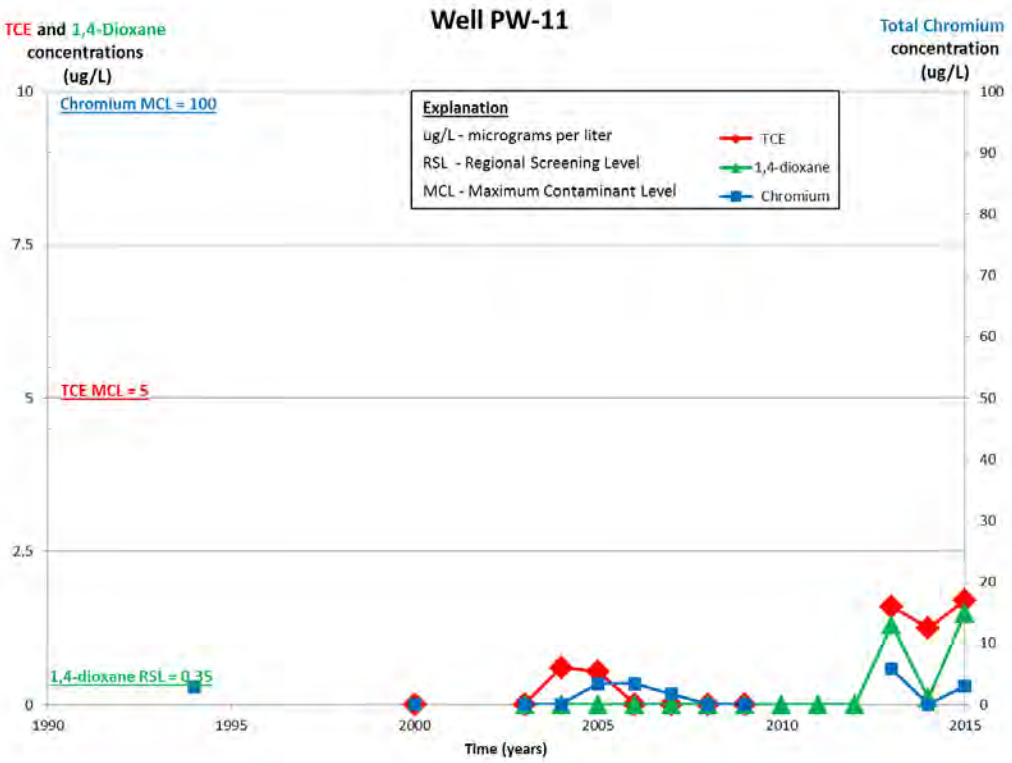

Figure 6. TCE, 1,4-Dioxane and Total Chromium Concentrations in Well PW-11

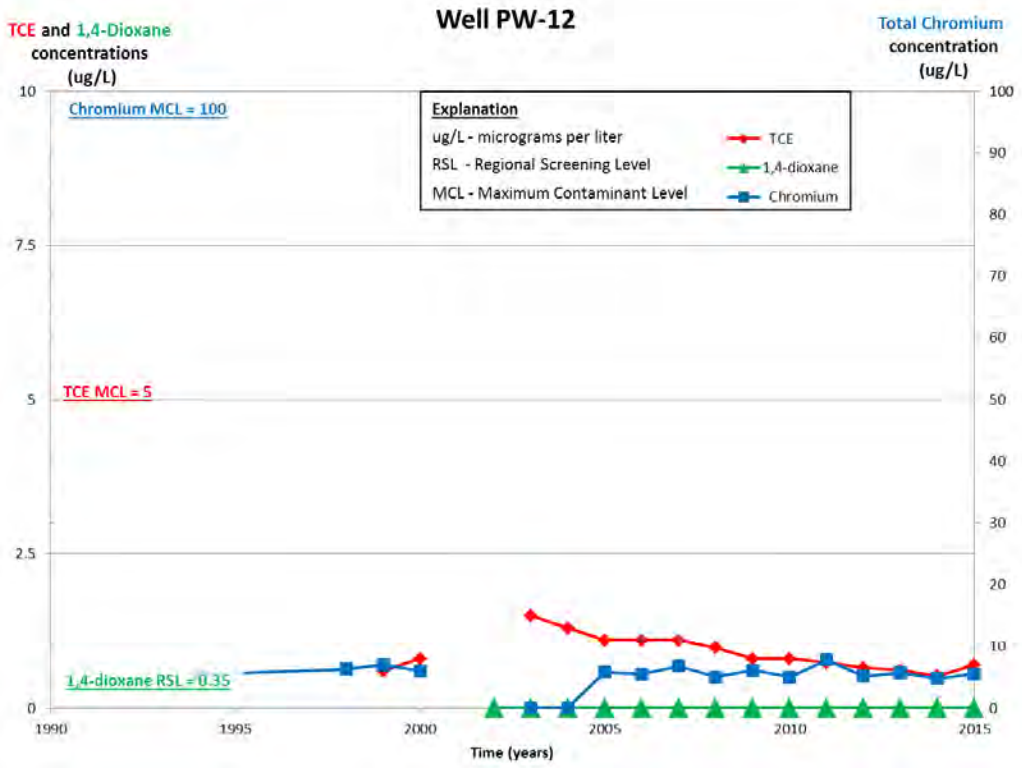

Figure 7. TCE, 1,4-Dioxane and Total Chromium Concentrations in Well PW-12

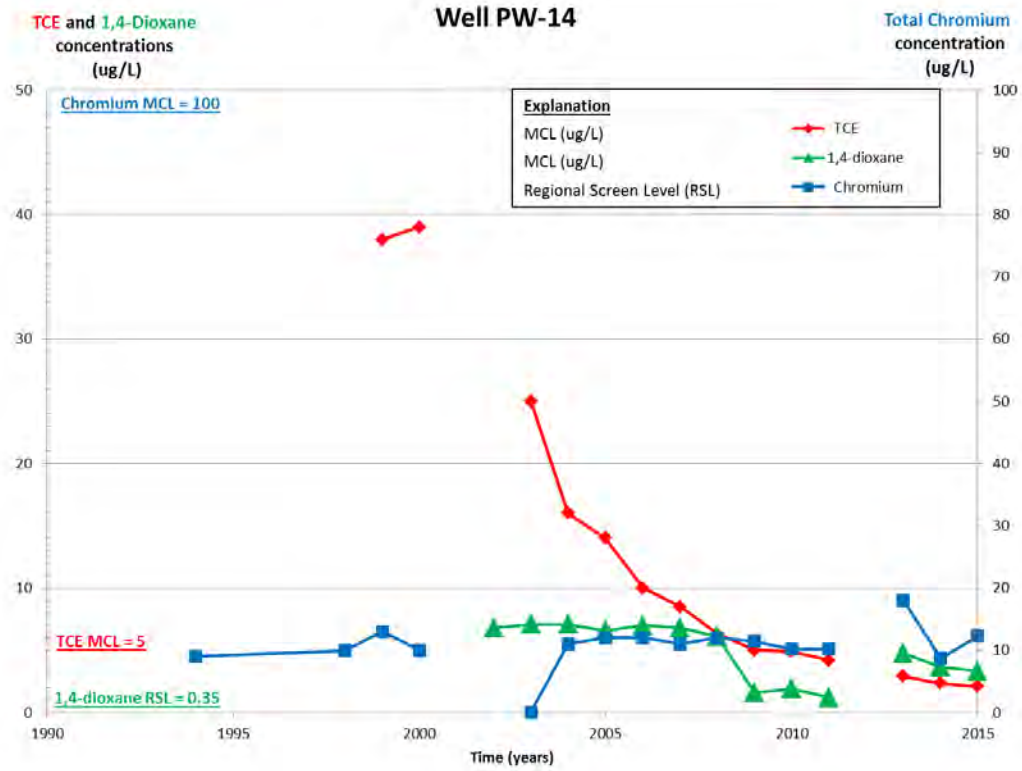

Figure 8. TCE, 1,4-Dioxane and Total Chromium Concentrations in Well PW-14

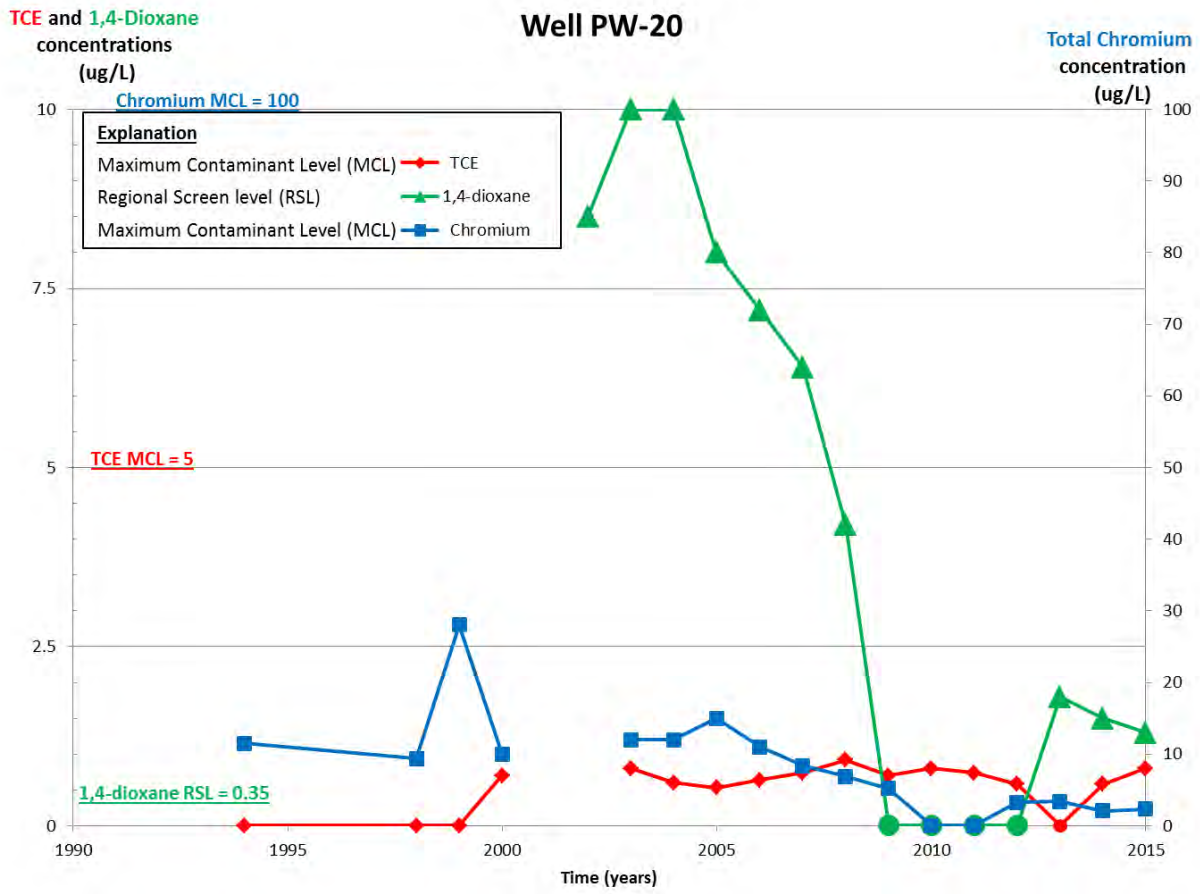

Figure 9. TCE, 1,4-Dioxane and Total Chromium Concentrations in Well PW-20

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6 REPORTING OF SAMPLING RESULTS

6.1 Communications with Well Owners

PDEQ sent a letter to each owner summarizing the findings of this year's sample results (Table 8, Appendix F). The information provided to the well owners was based on validated data.

Table 8. Owner Notification of Well Contamination

Well #	Contaminant Value Above MCL		Contaminant Above Regional Screening Level	Sample Date	Lab Results Received by PDEQ	Level IV Laboratory Data Received by PDEQ	Telephone Notice	Letter Sending Results
	TCE	Cr	1,4-dioxane					
PW-11	No	No	Yes	02.11.15	02.27.15	05.29.15	No	05.15.15
PW-12	No	No	No	02.11.15	02.27.15	05.29.15	No	05.15.15
PW-14	No	No	Yes	02.10.15	02.27.15	05.29.15	No	05.15.15
PW-20	No	No	Yes	02.10.15	02.24.15	05.29.15	No	05.15.15

MCL = maximum contaminant level
TCE MCL = 5µg/L
Chromium MCL = 100µg/L
Regional Screening Level for 1,4-dioxane = 0.35µg/L = drinking water concentration that would increase cancer risk by one in one million over a lifetime of water consumption [excess cancer risk of $1x10^{-6}$]

6.2 Communications with Elected Officials

As part of the private well monitoring program, PDEQ provided progress updates to Pima County Supervisors Ramón Valadez and Richard Elías and City Council Ward Members Richard Fimbres and Regina Romero. On June 5, 2015, PDEQ provided summaries of the validated results to Supervisors Valadez and Elías as well as Council Members Fimbres and Romero (Appendix G).

6.3 Conclusions and Recommendations

The 2015 sampling season marked the thirteenth year the current monitoring program was implemented by PDEQ. Combined with the 1,4-dioxane analytical results obtained from ADEQ's 2002 sampling efforts, there are now fourteen years of 1,4-dioxane data for the private wells. PDEQ recommends all wells be sampled for 1,4-dioxane, total chromium and TCE during the 2016 sampling season.

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7 REFERENCES

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PIMA COUNTY
ENVIRONMENTAL QUALITY

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Ursula Kramer, P.E. **www.pima.gov/deq** **(520) 243-7400**
Director **FAX (520) 243-7370**

December 30, 2014

[redacted]

Subject: **2015** Private Well Monitoring Program – Well #03

Dear [redacted]

The Pima County Department of Environmental Quality (PDEQ), in association with the United States Environmental Protection Agency (EPA), the Arizona Department of Environmental Quality (ADEQ), and the Tucson Airport Authority (TAA), is going to collect water samples from private wells in your neighborhood. This testing, which we plan to conduct during the month of **February 2015**, will provide information about the quality of water pumped from private wells in your neighborhood and is part of an ongoing effort that began in the early 1990's.

If you own or use a private well at this address and, with your permission, PDEQ staff would like to collect water samples from your well. Laboratory analyses will be performed at no cost to you. Water samples will be tested for the presence of trichloroethene (TCE), 1,4-dioxane, and chromium. Results of the testing will be mailed to you.

To assure ourselves that we have contacted everyone with this mailing, our goal is to speak with you personally or to receive from you a completed form and a self-addressed, postage-paid envelope. If you are unable to call us, please take a moment to fill-out and return the enclosed form. The form will let us know that you have received the letter and whether or not you depend on the private well as a water source. If you are living at this property and are not the owner, please fill out the enclosed form, mail it back to us, and contact the property owner about this important matter.

If you have any questions, please contact me at (520) 724-7457.

Sincerely,

Marie Light

Marie Light
Principal Hydrologist

cc: Mary Aycock / United States Environmental Protection Agency
William Ellett / Arizona Department of Environmental Quality
Fred Brinker / Tucson Airport Authority

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Director FAX (520) 243-7370

30 de Diciembro 2014

[redacted]

Sujeto: **2015** Programa de Vigiliación para Pozos Privados – Pozo #03

Estimado [redacted]

El Departamento de Calidad Ambiental del Condado Pima (PDEQ), en asociación con la Agencia de Proteccion de Medio Ambiente de los Estados Unidos (EPA), el Departamento de Calidad Ambiental de Arizona (ADEQ), y la Autoridad del Aeropuerto de Tucson (TAA) tiene la intención de recoger muestras de agua de los pozos privados en su vecindad. Estas pruebas, que tenemos previsto llevar a cabo durante el mes de **Febrero de 2015,** proporcionarán información sobre la calidad de agua bombeada de los pozos privados y es parte de un esfuerzo en curso que comenzo en la década de 1990.

Si usted es dueño o utiliza un pozo en esta dirección, y nos concede su permiso , PDEQ personal le qustaría recoger musetras del agua de su pozo. Los análisis de laboratorio se realizará sin costo alguno para usted. Las muestras de agua se analizó la presencia de tricloroetileno (TCE), 1,4-dioxano, y cromo. Los resultados de las pruebas se enviará por correo a usted.

Para asegurarnos que hemos contactado a todos con este correo, nuestro meta es hablar con usted personalmente o recibir de usted un formulario completo en y el sobre con franqueo pagado. Si usted no puede llamar, tome por favor un momento para llenar y devolver el formulario adjunto. El formulario nos hará saber que usted ha recibido la carta y si está o no dependerá de lo privado, así como una fuente de agua. Si usted está viviendo en esta propiedad y no es el propietario, por favor llene el formulario adjunto, enviarlo de vuelta a nosotros, y póngase en contacto con el dueño de la propiedad acerca de este asunto importante.

Si usted tiene alguna pregunta, por favor llame al (520) 724-7457.
Atentamente,

Marie Light

Marie Light
Hydrólogo Principal
cc: Mary Aycock / Agencia de Proteccion de Medio Ambiente de los Estados Unidos
William Ellett / Departamento de Calidad Ambiental de Arizona
Fred Brinker / Autoridad del Aeropuerto de Tucson

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Director FAX (520) 243-7370

December 30, 2014

[redacted]

Subject: **2015** Private Well Monitoring Program – Well #07

Dear [redacted]

The Pima County Department of Environmental Quality (PDEQ), in association with the United States Environmental Protection Agency (EPA), the Arizona Department of Environmental Quality (ADEQ), and the Tucson Airport Authority (TAA), is going to collect water samples from private wells in your neighborhood. This testing, which we plan to conduct during the month of **February 2015**, will provide information about the quality of water pumped from private wells in your neighborhood and is part of an ongoing effort that began in the early 1990's.

If you own or use a private well at this address and, with your permission, PDEQ staff would like to collect water samples from your well. Laboratory analyses will be performed at no cost to you. Water samples will be tested for the presence of trichloroethene (TCE), 1,4-dioxane, and chromium. Results of the testing will be mailed to you.

To assure ourselves that we have contacted everyone with this mailing, our goal is to speak with you personally or to receive from you a completed form and a self-addressed, postage-paid envelope. If you are unable to call us, please take a moment to fill-out and return the enclosed form. The form will let us know that you have received the letter and whether or not you depend on the private well as a water source. If you are living at this property and are not the owner, please fill out the enclosed form, mail it back to us, and contact the property owner about this important matter.

If you have any questions, please contact me at (520) 724-7457.

Sincerely,

Marie Light

Marie Light
Principal Hydrologist

cc: Mary Aycock / United States Environmental Protection Agency
William Ellett / Arizona Department of Environmental Quality
Fred Brinker / Tucson Airport Authority

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Director FAX (520) 243-7370

30 de Diciembre 2014

[redacted]

Sujeto: **2015** Programa de Vigiliación para Pozos Privados – Pozo #07

Estimado [redacted]

El Departamento de Calidad Ambiental del Condado Pima (PDEQ), en asociación con la Agencia de Proteccion de Medio Ambiente de los Estados Unidos (EPA), el Departamento de Calidad Ambiental de Arizona (ADEQ), y la Autoridad del Aeropuerto de Tucson (TAA) tiene la intención de recoger muestras de agua de los pozos privados en su vecindad. Estas pruebas, que tenemos previsto llevar a cabo durante el mes de **Febrero de 2015,** proporcionarán información sobre la calidad de agua bombeada de los pozos privados y es parte de un esfuerzo en curso que comenzo en la década de 1990.

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Si usted tiene alguna pregunta, por favor llame al (520) 724-7457.
Atentamente,

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Fred Brinker / Autoridad del Aeropuerto de Tucson

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December 30, 2014

[redacted]

Subject: **2015** Private Well Monitoring Program – Well #11

Dear [redacted]

The Pima County Department of Environmental Quality (PDEQ), in association with the United States Environmental Protection Agency (EPA), the Arizona Department of Environmental Quality (ADEQ), and the Tucson Airport Authority (TAA), is going to collect water samples from private wells in your neighborhood. This testing, which we plan to conduct during the month of **February 2015**, will provide information about the quality of water pumped from private wells in your neighborhood and is part of an ongoing effort that began in the early 1990's.

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Marisela Garcia

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30 de Diciembre 2014

[redacted]

Sujeto: **2015** Programa de Vigiliación para Pozos Privados – Pozo #11

Estimado [redacted]

El Departamento de Calidad Ambiental del Condado Pima (PDEQ), en asociación con la Agencia de Proteccion de Medio Ambiente de los Estados Unidos (EPA), el Departamento de Calidad Ambiental de Arizona (ADEQ), y la Autoridad del Aeropuerto de Tucson (TAA) tiene la intención de recoger muestras de agua de los pozos privados en su vecindad. Estas pruebas, que tenemos previsto llevar a cabo durante el mes de **Febrero de 2015,** proporcionarán información sobre la calidad de agua bombeada de los pozos privados y es parte de un esfuerzo en curso que comenzo en la década de 1990.

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December 30, 2014

[redacted]

Subject: **2015** Private Well Monitoring Program – Well #12

Dear [redacted]

The Pima County Department of Environmental Quality (PDEQ), in association with the United States Environmental Protection Agency (EPA), the Arizona Department of Environmental Quality (ADEQ), and the Tucson Airport Authority (TAA), is going to collect water samples from private wells in your neighborhood. This testing, which we plan to conduct during the month of **February 2015**, will provide information about the quality of water pumped from private wells in your neighborhood and is part of an ongoing effort that began in the early 1990's.

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If you have any questions, please contact me at (520) 724-7457.

Sincerely,

Marie Light

Marie Light
Principal Hydrologist

cc: Mary Aycock / United States Environmental Protection Agency
William Ellett / Arizona Department of Environmental Quality
Fred Brinker / Tucson Airport Authority

PIMA COUNTY
ENVIRONMENTAL QUALITY

33 North Stone Avenue, Suite 700
Tucson, Arizona 85701
Ursula Kramer, P.E. ww.pima.gov/deq (520) 243-7400
Director FAX (520) 243-7370

30 de Diciembre 2014

[redacted]

Sujeto: **2015** Programa de Vigiliación para Pozos Privados – Pozo #12

Estimado [redacted]

El Departamento de Calidad Ambiental del Condado Pima (PDEQ), en asociación con la Agencia de Proteccion de Medio Ambiente de los Estados Unidos (EPA), el Departamento de Calidad Ambiental de Arizona (ADEQ), y la Autoridad del Aeropuerto de Tucson (TAA) tiene la intención de recoger muestras de agua de los pozos privados en su vecindad. Estas pruebas, que tenemos previsto llevar a cabo durante el mes de **Febrero de 2015,** proporcionarán información sobre la calidad de agua bombeada de los pozos privados y es parte de un esfuerzo en curso que comenzo en la década de 1990.

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Si usted tiene alguna pregunta, por favor llame al (520) 724-7457.
Atentamente,

Marie Light

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William Ellett / Departamento de Calidad Ambiental de Arizona
Fred Brinker / Autoridad del Aeropuerto de Tucson

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33 North Stone Avenue, Suite 700
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Ursula Kramer, P.E **www.pima.gov/deq** **(520) 243-7400**
Director **FAX (520) 243-7370**

December 30, 2014

[redacted]

Subject: **2015** Private Well Monitoring Program – Well #12

Dear [redacted]

The Pima County Department of Environmental Quality (PDEQ), in association with the United States Environmental Protection Agency (EPA), the Arizona Department of Environmental Quality (ADEQ), and the Tucson Airport Authority (TAA), is going to collect water samples from private wells in your neighborhood. This testing, which we plan to conduct during the month of **February 2015**, will provide information about the quality of water pumped from private wells in your neighborhood and is part of an ongoing effort that began in the early 1990's.

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Sincerely,

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Marie Light
Principal Hydrologist

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William Ellett / Arizona Department of Environmental Quality
Fred Brinker / Tucson Airport Authority

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Director **FAX (520) 243-7370**

30 de Diciembre 2014

[redacted]

Sujeto: **2015** Programa de Vigiliación para Pozos Privados – Pozo #12

Estimado [redacted]

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Director FAX (520) 243-7370

December 30, 2014

[redacted]

Subject: **2015** Private Well Monitoring Program – Well #13

Dear [redacted]

The Pima County Department of Environmental Quality (PDEQ), in association with the United States Environmental Protection Agency (EPA), the Arizona Department of Environmental Quality (ADEQ), and the Tucson Airport Authority (TAA), is going to collect water samples from private wells in your neighborhood. This testing, which we plan to conduct during the month of **February 2015**, will provide information about the quality of water pumped from private wells in your neighborhood and is part of an ongoing effort that began in the early 1990's.

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Director FAX (520) 243-7370

30 de Diciembre 2014

[redacted]

Sujeto: **2015** Programa de Vigiliación para Pozos Privados – Pozo #13

Estimado [redacted]

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Director **FAX (520) 243-7370**

December 30, 2014

[redacted]

Subject: **2015** Private Well Monitoring Program – Well #14

Dear [redacted]

The Pima County Department of Environmental Quality (PDEQ), in association with the United States Environmental Protection Agency (EPA), the Arizona Department of Environmental Quality (ADEQ), and the Tucson Airport Authority (TAA), is going to collect water samples from private wells in your neighborhood. This testing, which we plan to conduct during the month of **February 2015**, will provide information about the quality of water pumped from private wells in your neighborhood and is part of an ongoing effort that began in the early 1990's.

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Director FAX (520) 243-7370

30 de Diciembre 2014

[redacted]

Sujeto: **2015** Programa de Vigiliación para Pozos Privados – Pozo #14

Estimado [redacted]

El Departamento de Calidad Ambiental del Condado Pima (PDEQ), en asociación con la Agencia de Proteccion de Medio Ambiente de los Estados Unidos (EPA), el Departamento de Calidad Ambiental de Arizona (ADEQ), y la Autoridad del Aeropuerto de Tucson (TAA) tiene la intención de recoger muestras de agua de los pozos privados en su vecindad. Estas pruebas, que tenemos previsto llevar a cabo durante el mes de **Febrero de 2015,** proporcionarán información sobre la calidad de agua bombeada de los pozos privados y es parte de un esfuerzo en curso que comenzo en la década de 1990.

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Director **FAX (520) 243-7370**

December 30, 2014

[redacted]

Subject: **2015** Private Well Monitoring Program – Well #20

Dear [redacted]

The Pima County Department of Environmental Quality (PDEQ), in association with the United States Environmental Protection Agency (EPA), the Arizona Department of Environmental Quality (ADEQ), and the Tucson Airport Authority (TAA), is going to collect water samples from private wells in your neighborhood. This testing, which we plan to conduct during the month of **February 2015**, will provide information about the quality of water pumped from private wells in your neighborhood and is part of an ongoing effort that began in the early 1990's.

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Director FAX (520) 243-7370

30 de Diciembre 2014

[redacted]

Sujeto: **2015** Programa de Vigiliación para Pozos Privados – Pozo #20

Estimado [redacted]

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www.pima.gov/deq

Ursula Kramer, P.E.
Director

(520) 243-7400
FAX (520) 243-7370

Private Well Monitoring Program
(Programa de Vigiliación para Pozos Privados)

Please provide the following information
(Por favor indique la información apropiada):

Name (Nombre): _____

Phone (Teléfono): _____

Street Address (Domicilio): _____

Zipcode (Codigo Postal): _____

- Yes, I would like to have my well sampled for TCE, chromium & 1,4-dioxane
  (Sí, prefiero mi pozo muestreado para TCE, cromo y 1,4-dioxano). ☐

- No, I do not want my well sampled at this time
  (No, no quiero que mi pozo muestreado en este momento). ☐

- My well water is used for:
  (Mi pozo de agua se utiliza para:)

  Drinking Water (Agua potable): ☐
  Irrigation Only (Riego solamente): ☐
  Domestic/Non-Drinking (Doméstico/Sin-beber): ☐

- My well is (Mi pozo es):
  Operational (operacional): ☐
  Non-Operational (No operativa): ☐

Signature (Su Firma): _____ Date (Fecha): _____

#16 2/9/2015 10:55

pH calibration
Accumet #1

pH buffer	expiration	reading	temp (c)
4.00	4/16	3.99	22.3
7.00	5/16	6.98	22.4
10.00	3/16	10.02	22.5

Slope = 58.42

Accumet #3

pH buffer	expiration	reading	temp (c)
4.00	4/16	4.00	22.6
7.00	5/16	7.01	22.5
10.00	3/16	10.03	22.5

Slope = 58.18

EC Meter 11:25

let both sensors soak in 1408 uS/cm buffer

Meter #1 calibrated to 1408 uS/cm at 29.3 °C
Meter #2 calibrated to 1414 uS/cm at 26.6 °C
Temp difference observed between both sensors in the same solution at the same time
* Use temp reading from pH meters

#17 2/10/15

PW-14 9:32 - 10:52

Weather: 15°C, Sunny

Well Head Sample Quality

Temp = 19.7°C

pH = 7.33

EC = 978 uS/cm

2 drops HCl for ≤ 2 pH

Well Head Sample PW-14-01

10:07 - 10:13

Running Pump

Min	Time	pH	Temp (°C)	EC (uS/cm)
0	10:15	7.31	23.1	1012
5	10:20	7.44	24.1	948
10	10:25	7.47	24.0	901

Well Head Sample PW-14-02

10:26 - 10:28

Field Blank Sample PW-14-02F

10:35 - 10:41

#18 2/10/15

PW-20 12:26 - 13:32

Weather: 20°C Sunny

Tap Quality

Temp = 20.0°C

pH = 7.11

EC = 977 uS/cm

1 drop HCl for ≤ 2.0 pH

Tap Sample PW 20-01

12:48 - 12:52

Running Pump

~~Min Temp(°C)~~ KLR 2/10/15

Min	Time	Temp°C	pH	EC(uS/cm)
0	13:00	23.7	7.16	834
5	13:05	21.6	7.46	753
10	13:10	22.4	7.21	831

Well Head Sample PW-20-02

13:11 - 13:13

Lab Spike Sample PW-20-02 LMS

13:16 - 13:19

Lab Spike Sample PW-20-02 LMSD

13:20 - 13:23

#19 2/11/15

PW-12 8:41 - 9:37

Weather: 10°C, Sonny

Tap Water Quality

Temp = ~~20.0 °C~~ KKR 3/24/15 16.4

pH = ~~7.11~~ 7.52

EC = ~~977 uS/cm~~ 491

1 drop HCl for ≤ 2.0 pH

Tap Sample PW-12-01

8:46 - 8:50

Running Well

Min	Time	Temp (°C)	pH	EC (uS/cm)
0	9:04	17.3	7.74	520
5	9:09	21.7	7.92	540
10	9:14	21.1	7.94	544

- Well stopped running at 9:12, samples are from the water tank

Well Head Sample PW-12-02

9:14 - 9:16

Field Blank Sample PW-12-02F

9:25 - 9:28

- Caps of 125ml Amber bottles (1,4-dioxane) fell on ground and were rinsed with ~~Well Water~~

KLR 2/11/15

#20 ~~27~~ 2/11/15

PW-11 9:48 - 11:02

Weather: Sunny, 13°C

Tap Water Quality

Temp: 16.5°C

pH: 7.48

EC: 738 uS/cm

2 drops of HCl for ≤ 2.0 pH

Tap Sample PW 11-01

10:05 - 10:09

Running Well

Min	Time	Temp(°C)	pH	EC(uS/cm)
0	10:15	23.4	7.54	731
5	10:20	24.6	7.62	701
10	10:25	24.5	7.65	686

Well Head Sample PW-11-02

10:36 - 10:38

Lab Spike Sample PW-11-02 LMS

10:40 - 10:41

Lab Spike Sample PW-11-02-LMSD

10:45 - 10:47

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	14	-	01	
year	-	private well	well number	-	Sample Number	Other

Date: 02/10/15 Start time: 10:07 End Time: 10:12

Collected by: Light/Jones/Raymond

Sample Location: PW # 14 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☐		Well Head ☒	
Sample Type:	Field ☒	Field Blank ☐	Duplicate ☐	Quality Control ☐
Designation:		Composite ☐	Grab ☒	

Sample Analyte:	Trichloroethene (TCE)	Chromium	1,4-dioxane
Vial/Bottle Type:	40-mL vial ☒	500-mL Polyethylene ☒	125-mL amber glass ☒
Preservative Used:	Hydrocloric Acid (HCl) ☒	Nitric Acid ☒	Sulfite, Bisulfite ☒
Preservative Added:	Hydrocloric Acid (HCl) ☒		
	Vials Filled ☒	Vials Filled ☒	Vials Filled ☒
	Vials Labeled ☒	Vials Labeled ☒	Vials Labeled ☒
	Vials Sealed ☒	Vials Sealed ☒	Vials Sealed ☒
	Vials Bagged ☒	Vials Bagged ☒	Vials Bagged ☒
	Vials Iced ☒	Vials Iced ☒	Vials Iced ☒
	Sample Record ☒	Sample Record ☒	Sample Record ☒
	Chain-of-Custody ☒	Chain-of-Custody ☒	Chain-of-Custody ☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/10/15 / 14:45

Comments: Water was clear

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	14	-	02	
year	-	private well	well number	-	Sample Number	Other

Date: 02/10/15 Start time: 10:26 End Time: 10:28

Collected by: Light/Jones/Raymond

Sample Location: PW # 14 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☐		Well Head ☒	
Sample Type:	Field ☒	Field Blank ☐	Duplicate ☐	Quality Control ☐
Designation:		Composite ☐	Grab ☒	

Sample Analyte:	Trichloroethene (TCE)		Chromium		1,4-dioxane	
Vial/Bottle Type:	40-mL vial	☒	500-mL Polyethylene	☒	125-mL amber glass	☒
Preservative Used:	Hydrocloric Acid (HCl)	☒	Nitric Acid	☒	Sulfite, Bisulfite	☒
Preservative Added:	Hydrocloric Acid (HCl)	☒				
	Vials Filled	☒	Vials Filled	☒	Vials Filled	☒
	Vials Labeled	☒	Vials Labeled	☒	Vials Labeled	☒
	Vials Sealed	☒	Vials Sealed	☒	Vials Sealed	☒
	Vials Bagged	☒	Vials Bagged	☒	Vials Bagged	☒
	Vials Iced	☒	Vials Iced	☒	Vials Iced	☒
	Sample Record	☒	Sample Record	☒	Sample Record	☒
	Chain-of-Custody	☒	Chain-of-Custody	☒	Chain-of-Custody	☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/10/15 / 14:45

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	14	-	02~~K~~F	MS MSD
year	-	private well	well number	-	Sample Number	Other

Date: 02/10/15 Start time: 10:35 End Time: 10:41

Collected by: Light/Jones/Raymond

Sample Location: PW # 14 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☐		Well Head ☐	
Sample Type:	Field ☐	Field Blank ☒	Duplicate ☐	Quality Control ☒
Designation:		Composite ☐	Grab ☒	

Sample Analyte:	Trichloroethene (TCE)	Chromium	1,4-dioxane
Vial/Bottle Type:	40-mL vial ☒	500-mL Polyethylene ☒	125-mL amber glass ☒
Preservative Used:	Hydrocloric Acid (HCl) ☒	Nitric Acid ☒	Sulfite, Bisulfite ☒
Preservative Added:	Hydrocloric Acid (HCl) ☒		
	Vials Filled ☒	Vials Filled ☒	Vials Filled ☒
	Vials Labeled ☒	Vials Labeled ☒	Vials Labeled ☒
	Vials Sealed ☒	Vials Sealed ☒	Vials Sealed ☒
	Vials Bagged ☒	Vials Bagged ☒	Vials Bagged ☒
	Vials Iced ☒	Vials Iced ☒	Vials Iced ☒
	Sample Record ☒	Sample Record ☒	Sample Record ☒
	Chain-of-Custody ☒	Chain-of-Custody ☒	Chain-of-Custody ☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/10/15 / 14:45

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	20	-	01	
year	-	private well	well number	-	Sample Number	Other

Date: 02/10/15 Start time: ~~13:11~~ 12:40 End Time: ~~13:13~~ 12:52

Collected by: Light/Jones/Raymond

Sample Location: PW # 20 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☒		Well Head ☐	
Sample Type:	Field ☒	Field Blank ☐	Duplicate ☐	Quality Control ☐
Designation:		Composite ☐	Grab ☒	

Sample Analyte:	Trichloroethene (TCE)	Chromium	1,4-dioxane
Vial/Bottle Type:	40-mL vial ☒	500-mL Polyethylene ☒	125-mL amber glass ☒
Preservative Used:	Hydrocloric Acid (HCl) ☒	Nitric Acid ☒	Sulfite, Bisulfite ☒
Preservative Added:	Hydrocloric Acid (HCl) ☒		
	Vials Filled ☒	Vials Filled ☒	Vials Filled ☒
	Vials Labeled ☒	Vials Labeled ☒	Vials Labeled ☒
	Vials Sealed ☒	Vials Sealed ☒	Vials Sealed ☒
	Vials Bagged ☒	Vials Bagged ☒	Vials Bagged ☒
	Vials Iced ☒	Vials Iced ☒	Vials Iced ☒
	Sample Record ☒	Sample Record ☒	Sample Record ☒
	Chain-of-Custody ☒	Chain-of-Custody ☒	Chain-of-Custody ☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/10/15 / 14:45

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	20	-	02	
year	-	private well	well number	-	Sample Number	Other

Date: 02/10/15 Start time: 13:11 End Time: 13:13

Collected by: Light/Jones/Raymond

Sample Location: PW # 20 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☐		Well Head ☒	
Sample Type:	Field ☒	Field Blank ☐	Duplicate ☐	Quality Control ☐
Designation:		Composite ☐	Grab ☒	
Sample Analyte:	**Trichloroethene (TCE)**	**Chromium**		**1,4-dioxane**
Vial/Bottle Type:	40-mL vial ☒	500-mL Polyethylene ☒		125-mL amber glass ☒
Preservative Used:	Hydrocloric Acid (HCl) ☒	Nitric Acid ☒		Sulfite, Bisulfite ☒
Preservative Added:	Hydrocloric Acid (HCl) ☒			
	Vials Filled ☒	Vials Filled ☒		Vials Filled ☒
	Vials Labeled ☒	Vials Labeled ☒		Vials Labeled ☒
	Vials Sealed ☒	Vials Sealed ☒		Vials Sealed ☒
	Vials Bagged ☒	Vials Bagged ☒		Vials Bagged ☒
	Vials Iced ☒	Vials Iced ☒		Vials Iced ☒
	Sample Record ☒	Sample Record ☒		Sample Record ☒
	Chain-of-Custody ☒	Chain-of-Custody ☒		Chain-of-Custody ☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/10/15 / 14:45

Comments: Well head has strong odor of rancid honey.

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	20	-	02~~D~~ XL	
year	-	private well	well number	-	Sample Number	Other

Date: 02/10/15 Start time: 13:16 LMS End Time: 13:19
Collected by: Light/Jones/Raymond 13:20 LMSD 13:23
Sample Location: PW # 20 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☐		Well Head ☒	
Sample Type:	Field ☐	Field Blank ☐	Duplicate ☐	Quality Control ☒ Lab Spike
Designation:		Composite ☐	Grab ☒	

Sample Analyte:	Trichloroethene (TCE)	Chromium	1,4-dioxane
Vial/Bottle Type:	40-mL vial ☒	500-mL Polyethylene ☒	125-mL amber glass ☒
Preservative Used:	Hydrocloric Acid (HCl) ☒	Nitric Acid ☒	Sulfite, Bisulfite ☒
Preservative Added:	Hydrocloric Acid (HCl) ☒		
	Vials Filled ☒	Vials Filled ☒	Vials Filled ☒
	Vials Labeled ☒	Vials Labeled ☒	Vials Labeled ☒
	Vials Sealed ☒	Vials Sealed ☒	Vials Sealed ☒
	Vials Bagged ☒	Vials Bagged ☒	Vials Bagged ☒
	Vials Iced ☒	Vials Iced ☒	Vials Iced ☒
	Sample Record ☒	Sample Record ☒	Sample Record ☒
	Chain-of-Custody ☒	Chain-of-Custody ☒	Chain-of-Custody ☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/10/15 / 14:45

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	12	-	01	
year	-	private well	well number	-	Sample Number	Other

Date: ~~02/10/15~~ 02/11/15 Start time: 8:46 End Time: 8:50

Collected by: Light/Jones/Raymond

Sample Location: PW # 12 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☒		Well Head ☐	
Sample Type:	Field ☒	Field Blank ☐	Duplicate ☐	Quality Control ☐
Designation:		Composite ☐	Grab ☒	

Sample Analyte:	Trichloroethene (TCE)	Chromium	1,4-dioxane
Vial/Bottle Type:	40-mL vial ☒	500-mL Polyethylene ☒	125-mL amber glass ☒
Preservative Used:	Hydrocloric Acid (HCl) ☒	Nitric Acid ☒	Sulfite, Bisulfite ☐
Preservative Added:	Hydrocloric Acid (HCl) ☒		
	Vials Filled ☒	Vials Filled ☒	Vials Filled ☒
	Vials Labeled ☒	Vials Labeled ☒	Vials Labeled ☒
	Vials Sealed ☒	Vials Sealed ☒	Vials Sealed ☒
	Vials Bagged ☒	Vials Bagged ☒	Vials Bagged ☒
	Vials Iced ☒	Vials Iced ☒	Vials Iced ☒
	Sample Record ☒	Sample Record ☒	Sample Record ☒
	Chain-of-Custody ☒	Chain-of-Custody ☒	Chain-of-Custody ☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/11/15 / 12:01

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	12	-	02	
year	-	private well	well number	-	Sample Number	Other

Date: ~~02/10/15~~ 02/11/15 Start time: 9:14 End Time: 9:16

Collected by: Light/Jones/Raymond

Sample Location: PW # 12 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☐		Well Head ☒	
Sample Type:	Field ☒	Field Blank ☐	Duplicate ☐	Quality Control ☐
Designation:		Composite ☐	Grab ☒	

Sample Analyte:	Trichloroethene (TCE)	Chromium	1,4-dioxane
Vial/Bottle Type:	40-mL vial ☒	500-mL Polyethylene ☒	125-mL amber glass ☒
Preservative Used:	Hydrocloric Acid (HCl) ☒	Nitric Acid ☒	Sulfite, Bisulfite ☒
Preservative Added:	Hydrocloric Acid (HCl) ☒		
	Vials Filled ☒	Vials Filled ☒	Vials Filled ☒
	Vials Labeled ☒	Vials Labeled ☒	Vials Labeled ☒
	Vials Sealed ☒	Vials Sealed ☒	Vials Sealed ☒
	Vials Bagged ☒	Vials Bagged ☒	Vials Bagged ☒
	Vials Iced ☒	Vials Iced ☒	Vials Iced ☒
	Sample Record ☒	Sample Record ☒	Sample Record ☒
	Chain-of-Custody ☒	Chain-of-Custody ☒	Chain-of-Custody ☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/11/15 / 12:01

Comments: Well pump stopped running at ~9:12, 8 minutes into the 10 minute purge. Sample was from tank

Caps of 125mL amber bottles (1,4-dioxane) fell on the ground. They were rinsed with well water

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	12	-	02F	
year	-	private well	well number	-	Sample Number	Other

Date: ~~02/10/15~~ 02/11/15 Start time: 9:25 End Time: 9:28

Collected by: Light/Jones/Raymond

Sample Location: PW # 12 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☐		Well Head ☐	
Sample Type:	Field ☐	Field Blank ☒	Duplicate ☐	Quality Control ☐
Designation:		Composite ☐	Grab ☐	

Sample Analyte:	Trichloroethene (TCE)	Chromium	1,4-dioxane
Vial/Bottle Type:	40-mL vial ☒	500-mL Polyethylene ☒	125-mL amber glass ☒
Preservative Used:	Hydrocloric Acid (HCl) ☒	Nitric Acid ☒	Sulfite, Bisulfite ☒
Preservative Added:	Hydrocloric Acid (HCl) ☐		
	Vials Filled ☒	Vials Filled ☒	Vials Filled ☒
	Vials Labeled ☒	Vials Labeled ☒	Vials Labeled ☒
	Vials Sealed ☒	Vials Sealed ☒	Vials Sealed ☒
	Vials Bagged ☒	Vials Bagged ☒	Vials Bagged ☒
	Vials Iced ☒	Vials Iced ☒	Vials Iced ☒
	Sample Record ☒	Sample Record ☒	Sample Record ☒
	Chain-of-Custody ☒	Chain-of-Custody ☒	Chain-of-Custody ☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/11/15 / 12:01

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	11	-	01	
year	-	private well	well number	-	Sample Number	Other

Date: 02/11/15 Start time: 10:05 End Time: 10:09

Collected by: Light/Jones/Raymond

Sample Location: PW # 11 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☒		Well Head ☐	
Sample Type:	Field ☒	Field Blank ☐	Duplicate ☐	Quality Control ☐
Designation:		Composite ☐	Grab ☒	

Sample Analyte:	Trichloroethene (TCE)	Chromium	1,4-dioxane
Vial/Bottle Type:	40-mL vial ☒	500-mL Polyethylene ☒	125-mL amber glass ☒
Preservative Used:	Hydrocloric Acid (HCl) ☒	Nitric Acid ☒	Sulfite, Bisulfite ☒
Preservative Added:	Hydrocloric Acid (HCl) ☒		
	Vials Filled ☒	Vials Filled ☒	Vials Filled ☒
	Vials Labeled ☒	Vials Labeled ☒	Vials Labeled ☒
	Vials Sealed ☒	Vials Sealed ☒	Vials Sealed ☒
	Vials Bagged ☒	Vials Bagged ☒	Vials Bagged ☒
	Vials Iced ☒	Vials Iced ☒	Vials Iced ☐
	Sample Record ☒	Sample Record ☒	Sample Record ☒
	Chain-of-Custody ☒	Chain-of-Custody ☒	Chain-of-Custody ☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/11/15 / 12:01

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	11	-	02	
year	-	private well	well number	-	Sample Number	Other

Date: 02/11/15 Start time: 10:36 End Time: 1038

Collected by: Light/Jones/Raymond

Sample Location: PW # 11 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☐		Well Head ☒	
Sample Type:	Field ☒	Field Blank ☐	Duplicate ☐	Quality Control ☐
Designation:		Composite ☐	Grab ☒	

Sample Analyte:	Trichloroethene (TCE)	Chromium	1,4-dioxane
Vial/Bottle Type:	40-mL vial ☒	500-mL Polyethylene ☒	125-mL amber glass ☒
Preservative Used:	Hydrocloric Acid (HCl) ☒	Nitric Acid ☒	Sulfite, Bisulfite ☒
Preservative Added:	Hydrocloric Acid (HCl) ☒		
	Vials Filled ☒	Vials Filled ☒	Vials Filled ☒
	Vials Labeled ☒	Vials Labeled ☒	Vials Labeled ☒
	Vials Sealed ☒	Vials Sealed ☒	Vials Sealed ☒
	Vials Bagged ☒	Vials Bagged ☒	Vials Bagged ☒
	Vials Iced ☒	Vials Iced ☒	Vials Iced ☒
	Sample Record ☒	Sample Record ☒	Sample Record ☒
	Chain-of-Custody ☒	Chain-of-Custody ☒	Chain-of-Custody ☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/11/15 / 12:01

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2015	-	PW	11	-	02~~F~~ L	
year	-	private well	well number	-	Sample Number	Other

Date: 02/11/15 Start time: 10:40 End Time: 10:41 L-MS
Collected by: Light/Jones/Raymond 10:45 10:47 L-MSD
Sample Location: PW # 11 Matrix Concentration: LOW

Sample Source:	Indoor/Outdoor Tap ☒		Well Head ☐	
Sample Type:	Field ☐	Field Blank ☐	Duplicate ☐	Quality Control ☒ - Lab Spike
Designation:		Composite ☐	Grab ☒	

Sample Analyte:	Trichloroethene (TCE)	Chromium	1,4-dioxane
Vial/Bottle Type:	40-mL vial ☒	500-mL Polyethylene ☒	125-mL amber glass ☒
Preservative Used:	Hydrocloric Acid (HCl) ☒	Nitric Acid ☒	Sulfite, Bisulfite ☒
Preservative Added:	Hydrocloric Acid (HCl) ☒		
	Vials Filled ☒	Vials Filled ☒	Vials Filled ☒
	Vials Labeled ☒	Vials Labeled ☒	Vials Labeled ☒
	Vials Sealed ☒	Vials Sealed ☒	Vials Sealed ☒
	Vials Bagged ☒	Vials Bagged ☒	Vials Bagged ☒
	Vials Iced ☒	Vials Iced ☒	Vials Iced ☒
	Sample Record ☒	Sample Record ☒	Sample Record ☒
	Chain-of-Custody ☒	Chain-of-Custody ☒	Chain-of-Custody ☒

Laboratory: Eurofins Eaton Date/Time of Delivery: 2/11/15 / 12:01

Comments:

Revised January 21, 2014

520027

eurofins | Eaton Analytical

CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: 3.5 - .3 = 3.2

SAMPLES CHECKED AGAINST COC BY: D

SAMPLES LOGGED IN BY: W

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

SAMPLE TEMP RECEIVED AT:

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 3.2 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice ✓ No Ice _____

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

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Pima County Dept of Env. Quality

PROJECT CODE: PCDEQ-GW

COMPLIANCE SAMPLES ☐ (check for yes)
- Requires state forms ☐

NON-COMPLIANCE SAMPLES ☑ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): **ROUTINE SPECIAL CONFIRMATION** (eg. SDWA, Phase V, NPDES, FDA,...)

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Kit # 104016 Day 1

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ☑ (check for yes), ***OR***

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

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	Cr EPA 200.8	524.2 VOC EPA 8	HD EPA 522											SAMPLER COMMENTS
2/10	10:07	2015-PW-14-01		RGW			1	3	3											
2/10	10:26	2015-PW-14-02		RGW			1	3	3											
2/10	10:35	2015-PW-14-02F		RGW			1	3	3											

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	Marie Light	PDEQ/Principal Hydrologist	02/10/15	14:45
RELINQUISHED BY:					
RECEIVED BY:	Michael Uribe				
RELINQUISHED BY:	12:17				
RECEIVED BY:					

FEB 11 2015

Michael Uribe

QA FO 0029 (06/26/2013)

PAGE _____ OF _____

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CHAIN OF CUSTODY RECORD

520157

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: VP

SAMPLES LOGGED IN BY: W

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

SAMPLE TEMP RECEIVED AT:

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 3.0-0.2=2.8 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice X No Ice _____

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

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Pima County Dept of Env. Quality

PROJECT CODE: PCDEQ-GW

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Kit # 104016 Day 1

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms ☐

NON-COMPLIANCE SAMPLES ☐ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): **ROUTINE SPECIAL CONFIRMATION** (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ☐ (check for yes), ***OR***

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

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	EPA 200.8	EPA 524.2	EPA 522	SAMPLER COMMENTS
2/10	12:40	2015-PW-20-1		RGW			1	3	3	
2/10	13:11	2015-PW-20-2		RGW			1	3	3	
2/10	13:16	2015-PW-20-2LMS		RGW			1	3	3	
2/10	13:20	2015-PW-20-2LMSD		RGW			1	3	3	

FEB 11 2015 1604

Victor Plascencia
Eurofins Eaton Analytical

FedEx Tracking Number 8070 7365 4432

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	Marie Light	PDEQ/Principal Hydrologist	02/10/15	14:45
RELINQUISHED BY:					
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029 (06/26/2013)

PAGE _____ OF _____

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formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Pima County DEQ

Thomas.D.French is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 104016
Created By: TDF
Deliver By: 02/05/2015
STG: Bottle Orders
Ice Type: W

Client ID: PIMA-AZ
Project Code: PCDEQ-GW Bottle Orders
Group Name: Groundwater/Day 1
PO#/JOB#:

Ship Sample Kits to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

Send Report to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

Billing Address
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if ai	UN DOT #
10	@UCMR3 522	3 125ml amber glass 6.25 Sulfite +125 mg Bisulfite	
10	@VOASDWA	3 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
1	@VOASDWA TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
10	Chromium Total ICAP/MS	1 500ml acid poly 2ml HNO3 (18%)	UN2031

Comments

PCDEQ - Groundwater Day 1. COC (2) , bags for use of wet ice for sample refrigeration upon return shipment, Wet Ice Sampling/packing insructions. Return Shipment. Do not crowd sample kits for delivery to client. Delivery is needed to client by 02/05/15.

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

eurofins | Eaton Analytical

CHAIN OF CUSTODY RECORD

526407

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: NE

SAMPLES LOGGED IN BY: W

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

SAMPLE TEMP RECEIVED AT:

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 3.2-0.3 2.9 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice ✓ No Ice _____

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

6264 5070 3880

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Pima County Dept of Env. Qual.

PROJECT CODE: PCDEQ-GW

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Groundwater / Day 2

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms ☐

NON-COMPLIANCE SAMPLES ✓ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): **ROUTINE SPECIAL CONFIRMATION** (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ✓ (check for yes), ***OR***

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

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	EPA 200.8	EPA 524.2	EPA 522	SAMPLER COMMENTS
2/11	8:46	2015-PW-12-01		RGW			1	3	3	
2/11	9:14	2015-PW-12-02		"			1	3	3	
2/11	9:25	2015-PW-12-02F		"			1	3	3	
2/11	10:05	2015-PW-11-01		"			1	3	3	
2/11	10:36	2015-PW-11-02		"			1	3	3	
2/11	10:40	2015-PW-11-02LMS		"			1	3	3	
2/11	10:45	2015-PW-11-02LMSD		"			1	3	3	

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	Marie Light	Pima County/Principal Hydrologist	02/11/2015	12:01PM
RELINQUISHED BY:					
RECEIVED BY:		Maria Escalante	EEA	2/12/15	17:24
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029 (06/26/2013)

PAGE 1 OF 1

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formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Pima County DEQ

Thomas.D.French is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 104017
Created By: TDF
Deliver By: 02/05/2015
STG: Bottle Orders
Ice Type: W

Client ID: PIMA-AZ
Project Code: PCDEQ-GW Bottle Orders
Group Name: Groundwater/Day 2
PO#/JOB#:

Ship Sample Kits to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

Send Report to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

Billing Address
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if a	UN DOT #
10	@UCMR3 522	3 125ml amber glass 6.25 Sulfite +125 mg Bisulfite	
10	@VOASDWA	3 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
1	@VOASDWA TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
10	Chromium Total ICAP/MS	1 500ml acid poly 2ml HNO3 (18%)	UN2031

Comments

PCDEQ - Groundwater Day 2. COC (2) , bags for use of wet ice for sample refrigeration upon return shipment, Wet Ice Sampling/packing insructions. Return Shipment. Do not crowd sample kits for delivery to client. Delivery is needed to client by 02/05/15.

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

eurofins | Eaton Analytical

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

NELAP ACCREDITED TNI LABORATORY ORELAP 4034

ilac-MRA

ACLASS ACCREDITED TESTING AT-1807

Laboratory Report

for

Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
Attention: Marie Light
Fax: 520-838-7432

Date of Issue
02/27/2015

Eurofins Eaton Analytical

TDF: Thomas.D.French

Project Manager

Report: 520027
Project: PCDEQ-GW
ADHS License #: AZ0778
Group: Groundwater/Day 1

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* This report shall not be reproduced except in full, without the written approval of the laboratory.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2014-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	14-003r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-7
Kansas *	E-10268	**Utah ***	CA000062014-7
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	460260
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, Inc.
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
F | 626-386-1101
www.EatonAnalytical.com

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Acknowledgement of Samples Received

Addr: **Pima County DEQ**
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Client ID: PIMA-AZ
Folder #: 520027
Project: PCDEQ-GW
Sample Group: Groundwater/Day 1

Attn: Marie Light
Phone: 520-724-7457

Project Manager: Thomas.D.French
Phone: (480) 778-1558

The following samples were received from you on **February 11, 2015** at **1217**. 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 Eurofins Eaton Analytical.

Sample #	Sample ID			Sample Date
201502110195	2015-PW-14-01			02/10/2015 1007
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110196	2015-PW-14-02			02/10/2015 1026
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110197	2015-PW-14-02F			02/10/2015 1035
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110215	2015-TB-01			02/10/2015 1007
	@VOASDWA TB			

Test Description

@UCMR3 522 -- UCMR3 1,4-Dioxane by EPA 522

@VOASDWA -- Volatile Organics by GCMS

@VOASDWA TB -- Volatile Organics by GCMS

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

520027

eurofins | Eaton Analytical

CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: 3.5 - .3 = 3.2

SAMPLES CHECKED AGAINST COC BY: D

SAMPLES LOGGED IN BY: W

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

SAMPLE TEMP RECEIVED AT:

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 3.2 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice ✓ No Ice _____

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

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Pima County Dept of Env. Quality

PROJECT CODE: PCDEQ-GW

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms ☐

NON-COMPLIANCE SAMPLES ☑ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): **ROUTINE SPECIAL CONFIRMATION** (eg. SDWA, Phase V, NPDES, FDA,...)

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Kit # 104016 Day 1

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ☑ (check for yes), ***OR***

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

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	Cx EPA 200.8	524.2 VOC EPA 8	HD EPA 522											SAMPLER COMMENTS
2/10	10:07	2015-PW-14-01		RGW			1	3	3											
2/10	10:26	2015-PW-14-02		RGW			1	3	3											
2/10	10:35	2015-PW-14-02F		RGW			1	3	3											

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	Marie Light	PDEQ/Principal Hydrologist	02/10/15	14:45
RELINQUISHED BY:					
RECEIVED BY:	Michael Uribe				
RELINQUISHED BY:	12:17				
RECEIVED BY:					

FEB 11 2015

Michael Uribe

QA FO 0029 (06/26/2013)

PAGE _____ OF _____

Appendix D. Laboratory Analytical Results

eurofins | Eaton Analytical

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

Laboratory Comments
Report: 520027

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Flags Legend:

L3 - The associated blank spike recovery was above method acceptance limits.

R2 - RPD/RSD exceeded the laboratory acceptance limit.

V1 - CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

The Comments Report may be blank if there are no comments for this report.

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

Laboratory Hits
Report: 520027

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Samples Received on:
02/11/2015 1217

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201502110195	**2015-PW-14-01**				
02/17/2015 00:24	1,4-Dioxane		2.8		ug/L	0.07
02/24/2015 16:37	Chromium Total ICAP/MS		15	100	ug/L	1
02/12/2015 12:25	Trichloroethylene (TCE)		1.8	5	ug/L	0.5
	201502110196	**2015-PW-14-02**				
02/17/2015 16:34	1,4-Dioxane		3.8		ug/L	0.07
02/18/2015 16:49	Chromium Total ICAP/MS		9.5	100	ug/L	1
02/12/2015 13:14	Trichloroethylene (TCE)		2.4	5	ug/L	0.5
	201502110197	**2015-PW-14-02F**				
02/12/2015 12:48	Chloroform (Trichloromethane)		1.6		ug/L	0.5
02/12/2015 12:48	Total THM		1.6	80	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

eurofins | Eaton Analytical

750 Royal Oaks Drive, 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: 520027

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/11/2015 1217

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2015-PW-14-01 (201502110195)						**Sampled on 02/10/2015 1007**		
		EPA 200.8 - ICPMS Metals						
2/11/2015	02/24/2015 16:37	822019	(EPA 200.8)	Chromium Total ICAP/MS	15	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
2/14/2015	02/17/2015 00:24	820713	(EPA 522)	1,4-Dioxane	2.8	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS						
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 520027

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/11/2015 1217

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

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02/11/2015 1217

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Trichloroethylene (TCE)	1.8	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-14-02 (201502110196)							**Sampled on**	**02/10/2015 1026**	
		EPA 200.8 - ICPMS Metals							
2/11/2015	02/18/2015	16:49	820982	(EPA 200.8)	Chromium Total ICAP/MS	9.5	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/15/2015	02/17/2015	16:34	821280	(EPA 522)	1,4-Dioxane	3.8	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND (L3)	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2,3-Trichlorobenzene	ND (L3)	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromoform	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1

Rounding on totals after summation.
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Dichlorodifluoromethane	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Hexachlorobutadiene	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	o-Chlorotoluene	ND (L3)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	p-Isopropyltoluene	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	sec-Butylbenzene	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	tert-Butylbenzene	ND (L3)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	trans-1,3-Dichloropropene	ND (L3)	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Trichloroethylene (TCE)	2.4	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

2015-PW-14-02F (201502110197) **Sampled on 02/10/2015 1035**

EPA 200.8 - ICPMS Metals

2/11/2015	02/18/2015	16:52	820982	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1

EPA 522 - UCMR3 1,4-Dioxane by EPA 522

2/15/2015	02/17/2015	16:50	821280	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1

EPA 524.2 - Volatile Organics by GCMS

2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 520027

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/11/2015 1217

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Chloroform (Trichloromethane)	1.6	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1

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2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Total THM	1.6	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

2015-TB-01 (201502110215) **Sampled on 02/10/2015 1007**

EPA 524.2 - Volatile Organics by GCMS

2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND (V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2,3-Trichlorobenzene	ND (L3,R2,V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2,4-Trichlorobenzene	ND (L3)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	2,2-Dichloropropane	ND (V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromoform	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Carbon disulfide	ND (V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Carbon Tetrachloride	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Chlorodibromomethane	ND (V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Chloroform (Trichloromethane)	ND (L3)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	cis-1,3-Dichloropropene	ND (L3)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Dichloromethane	ND (L3)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1

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2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	trans-1,3-Dichloropropene	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND (V1)	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

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QC Summary: 520027

Pima County DEQ

QC Ref # 819883 - Volatile Organics by GCMS — **Analysis Date: 02/11/2015**

201502110215	2015-TB-01	Analyzed by: KAM

QC Ref # 819908 - Volatile Organics by GCMS — **Analysis Date: 02/12/2015**

201502110195	2015-PW-14-01	Analyzed by: KAM
201502110197	2015-PW-14-02F	Analyzed by: KAM

QC Ref # 819926 - Volatile Organics by GCMS — **Analysis Date: 02/12/2015**

201502110196	2015-PW-14-02	Analyzed by: KCP

QC Ref # 820713 - UCMR3 1,4-Dioxane by EPA 522 — **Analysis Date: 02/17/2015**

201502110195	2015-PW-14-01	Analyzed by: CRW

QC Ref # 820982 - ICPMS Metals — **Analysis Date: 02/18/2015**

201502110196	2015-PW-14-02	Analyzed by: SXK
201502110197	2015-PW-14-02F	Analyzed by: SXK

QC Ref # 821280 - UCMR3 1,4-Dioxane by EPA 522 — **Analysis Date: 02/17/2015**

201502110196	2015-PW-14-02	Analyzed by: CRW
201502110197	2015-PW-14-02F	Analyzed by: CRW

QC Ref # 822019 - ICPMS Metals — **Analysis Date: 02/24/2015**

201502110195	2015-PW-14-01	Analyzed by: AZS

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 819883 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/11/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	6.05	ug/L	121	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	6.03	ug/L	121	(70-130)	20	0.33
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.610	ug/L	122	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	6.48	ug/L	130	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	6.28	ug/L	126	(70-130)	20	3.1
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.92	ug/L	98	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.97	ug/L	99	(70-130)	20	1.0
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	5.35	ug/L	107	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.09	ug/L	102	(70-130)	20	5.0
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,1-Dichloroethane		5.0	5.54	ug/L	111	(70-130)		
LCS2	1,1-Dichloroethane		5.0	5.98	ug/L	120	(70-130)	20	7.6
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,1-Dichloroethylene		5.0	5.59	ug/L	112	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	5.18	ug/L	104	(70-130)	20	7.6
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,1-Dichloropropene		5.0	5.46	ug/L	109	(70-130)		
LCS2	1,1-Dichloropropene		5.0	5.42	ug/L	108	(70-130)	20	0.74
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	7.77	ug/L	**155**	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	6.11	ug/L	122	(70-130)	20	**24**
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.620	ug/L	124	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	5.21	ug/L	104	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.03	ug/L	101	(70-130)	20	3.5
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.550	ug/L	110	(50-150)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,2,4-Trichlorobenzene		5.0	6.57	ug/L	**131**	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	5.63	ug/L	113	(70-130)	20	15
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.590	ug/L	118	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	5.32	ug/L	106	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	4.71	ug/L	94	(70-130)	20	12
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,2-Dichloroethane		5.0	5.48	ug/L	110	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.76	ug/L	115	(70-130)	20	5.0
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.620	ug/L	124	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			110	%	110	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			117	%	117	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			110	%	110	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			111	%	111	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.20	ug/L	104	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.36	ug/L	107	(70-130)	20	3.0
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	5.21	ug/L	104	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	4.71	ug/L	94	(70-130)	20	10
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,3-Dichloropropane		5.0	5.28	ug/L	106	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.25	ug/L	105	(70-130)	20	0.57
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.600	ug/L	120	(50-150)		
LCS1	2,2-Dichloropropane		5.0	6.20	ug/L	124	(70-130)		
LCS2	2,2-Dichloropropane		5.0	6.21	ug/L	124	(70-130)	20	0.16
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.620	ug/L	124	(50-150)		
LCS1	2-Butanone (MEK)		50	46.9	ug/L	94	(70-130)		
LCS2	2-Butanone (MEK)		50	48.9	ug/L	98	(70-130)	20	4.2
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.37	ug/L	107	(50-150)		
LCS1	4-Bromofluorobenzene (S)			104	%	104	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			98.0	%	98	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			99.4	%	99	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	50.7	ug/L	101	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	53.2	ug/L	106	(70-130)	20	4.8
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.47	ug/L	109	(50-150)		
LCS1	Benzene		5.0	5.21	ug/L	104	(70-130)		
LCS2	Benzene		5.0	5.06	ug/L	101	(70-130)	20	2.9
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.540	ug/L	108	(50-150)		
LCS1	Bromobenzene		5.0	5.61	ug/L	112	(70-130)		
LCS2	Bromobenzene		5.0	5.16	ug/L	103	(70-130)	20	8.4
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.540	ug/L	108	(50-150)		
LCS1	Bromochloromethane		5.0	5.90	ug/L	118	(70-130)		
LCS2	Bromochloromethane		5.0	5.60	ug/L	112	(70-130)	20	5.2
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.600	ug/L	120	(50-150)		
LCS1	Bromodichloromethane		5.0	5.84	ug/L	117	(70-130)		
LCS2	Bromodichloromethane		5.0	5.51	ug/L	110	(70-130)	20	5.8
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Bromoethane		5.0	5.52	ug/L	110	(70-130)		
LCS2	Bromoethane		5.0	5.31	ug/L	106	(70-130)	20	3.9
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Bromoform		5.0	6.42	ug/L	128	(70-130)		
LCS2	Bromoform		5.0	6.19	ug/L	124	(70-130)	20	3.6
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.850	ug/L	**170**	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	5.11	ug/L	102	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.29	ug/L	106	(70-130)	20	3.5
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.680	ug/L	136	(50-150)		
LCS1	Carbon disulfide		5.0	5.52	ug/L	110	(70-130)		
LCS2	Carbon disulfide		5.0	4.80	ug/L	96	(70-130)	20	14

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.520	ug/L	104	(50-150)		
LCS1	Carbon Tetrachloride		5.0	6.64	ug/L	**133**	(70-130)		
LCS2	Carbon Tetrachloride		5.0	6.28	ug/L	126	(70-130)	20	5.6
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.560	ug/L	112	(50-150)		
LCS1	Chlorobenzene		5.0	5.23	ug/L	105	(70-130)		
LCS2	Chlorobenzene		5.0	5.12	ug/L	102	(70-130)	20	2.1
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	Chlorodibromomethane		5.0	6.25	ug/L	125	(70-130)		
LCS2	Chlorodibromomethane		5.0	6.02	ug/L	120	(70-130)	20	3.8
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	Chloroethane		5.0	5.60	ug/L	112	(70-130)		
LCS2	Chloroethane		5.0	5.43	ug/L	109	(70-130)	20	3.1
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.630	ug/L	126	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	5.72	ug/L	114	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.75	ug/L	115	(70-130)	20	0.52
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.780	ug/L	**156**	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5.0	5.35	ug/L	107	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	5.46	ug/L	109	(70-130)	20	2.0
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.270	ug/L	54	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	5.23	ug/L	105	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.62	ug/L	112	(70-130)	20	7.2
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.610	ug/L	122	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	6.13	ug/L	123	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.84	ug/L	117	(70-130)	20	4.8
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.860	ug/L	**172**	(50-150)		
LCS1	Dibromomethane		5.0	5.39	ug/L	108	(70-130)		
LCS2	Dibromomethane		5.0	5.35	ug/L	107	(70-130)	20	0.75
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.590	ug/L	118	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Dichlorodifluoromethane		5.0	5.48	ug/L	110	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	5.35	ug/L	107	(70-130)	20	2.4
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Dichloromethane		5.0	6.26	ug/L	125	(70-130)		
LCS2	Dichloromethane		5.0	6.51	ug/L	130	(70-130)	20	3.9
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.770	ug/L	**154**	(50-150)		
LCS1	Di-isopropyl ether		5.0	5.16	ug/L	103	(70-130)		
LCS2	Di-isopropyl ether		5.0	5.59	ug/L	112	(70-130)	20	8.0
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.580	ug/L	116	(50-150)		
LCS1	Ethyl benzene		5.0	5.53	ug/L	111	(70-130)		
LCS2	Ethyl benzene		5.0	5.26	ug/L	105	(70-130)	20	5.0
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Hexachlorobutadiene		5.0	5.76	ug/L	115	(70-130)		
LCS2	Hexachlorobutadiene		5.0	5.43	ug/L	109	(70-130)	20	5.9
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.560	ug/L	112	(50-150)		
LCS1	Isopropylbenzene		5.0	5.58	ug/L	112	(70-130)		
LCS2	Isopropylbenzene		5.0	5.21	ug/L	104	(70-130)	20	6.9
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	m,p-Xylenes		10	10.8	ug/L	108	(70-130)		
LCS2	m,p-Xylenes		10	10.3	ug/L	103	(70-130)	20	4.7
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.03	ug/L	103	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.580	ug/L	116	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.75	ug/L	115	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.41	ug/L	108	(70-130)	20	6.1
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.520	ug/L	104	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.40	ug/L	108	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	5.47	ug/L	109	(70-130)	20	1.3
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.630	ug/L	126	(50-150)		
LCS1	Naphthalene		5.0	6.08	ug/L	122	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Naphthalene		5.0	5.23	ug/L	105	(70-130)	20	15
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.500	ug/L	100	(50-150)		
LCS1	n-Butylbenzene		5.0	5.67	ug/L	113	(70-130)		
LCS2	n-Butylbenzene		5.0	5.34	ug/L	107	(70-130)	20	6.0
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	n-Propylbenzene		5.0	5.66	ug/L	113	(70-130)		
LCS2	n-Propylbenzene		5.0	5.18	ug/L	104	(70-130)	20	8.9
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.73	ug/L	115	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.43	ug/L	109	(70-130)	20	5.4
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.570	ug/L	114	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.42	ug/L	108	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.27	ug/L	105	(70-130)	20	2.8
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.540	ug/L	108	(50-150)		
LCS1	o-Xylene		5.0	5.24	ug/L	105	(70-130)		
LCS2	o-Xylene		5.0	5.14	ug/L	103	(70-130)	20	1.9
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.500	ug/L	100	(50-150)		
LCS1	p-Chlorotoluene		5.0	6.01	ug/L	120	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.70	ug/L	114	(70-130)	20	5.3
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.500	ug/L	100	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.52	ug/L	110	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.27	ug/L	105	(70-130)	20	4.6
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.570	ug/L	114	(50-150)		
LCS1	p-Isopropyltoluene		5.0	5.65	ug/L	113	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.19	ug/L	104	(70-130)	20	8.5
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.490	ug/L	98	(50-150)		
LCS1	sec-Butylbenzene		5.0	5.43	ug/L	109	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.39	ug/L	108	(70-130)	20	0.74
MBLK	sec-Butylbenzene			<0.5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	sec-Butylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Styrene		5.0	4.73	ug/L	95	(70-130)		
LCS2	Styrene		5.0	4.49	ug/L	90	(70-130)	20	5.2
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.420	ug/L	84	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	5.36	ug/L	107	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	5.03	ug/L	101	(70-130)	20	6.3
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.550	ug/L	110	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	5.40	ug/L	108	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	5.36	ug/L	107	(70-130)	20	0.74
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.620	ug/L	124	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.85	ug/L	117	(70-130)		
LCS2	tert-Butylbenzene		5.0	5.31	ug/L	106	(70-130)	20	9.7
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.550	ug/L	110	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	5.40	ug/L	108	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	5.35	ug/L	107	(70-130)	20	0.93
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Toluene		5.0	5.24	ug/L	105	(70-130)		
LCS2	Toluene		5.0	5.09	ug/L	102	(70-130)	20	2.9
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.570	ug/L	114	(50-150)		
LCS1	Toluene-d8 (S)			105	%	105	(70-130)		
LCS2	Toluene-d8 (S)			99.0	%	99	(70-130)		
MBLK	Toluene-d8 (S)			95.2	%	95	(70-130)		
MRL_CHK	Toluene-d8 (S)			105	%	105	(70-130)		
MRLLW	Toluene-d8 (S)			104	%	104	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.28	ug/L	106	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	5.14	ug/L	103	(70-130)	20	2.7
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.550	ug/L	110	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	6.20	ug/L	124	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	6.05	ug/L	121	(70-130)	20	2.5
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.910	ug/L	**182**	(50-150)		

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

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Trichloroethylene (TCE)		5.0	5.34	ug/L	107	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	5.45	ug/L	109	(70-130)	20	2.0
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.560	ug/L	112	(50-150)		
LCS1	Trichlorofluoromethane		5.0	5.11	ug/L	102	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.95	ug/L	99	(70-130)	20	3.2
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.370	ug/L	74	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	5.90	ug/L	118	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	5.53	ug/L	111	(70-130)	20	6.5
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.550	ug/L	110	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	5.18	ug/L	104	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.78	ug/L	96	(70-130)	20	8.0
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.520	ug/L	104	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.250	ug/L	100	(50-150)		
QC Ref# 819908 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/12/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	4.74	ug/L	95	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	4.59	ug/L	92	(70-130)	20	3.2
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	5.05	ug/L	101	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.56	ug/L	91	(70-130)	20	10
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.420	ug/L	84	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.03	ug/L	101	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.69	ug/L	94	(70-130)	20	7.0
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	4.92	ug/L	98	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.88	ug/L	98	(70-130)	20	0.82
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,1-Dichloroethane		5.0	5.01	ug/L	100	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.90	ug/L	98	(70-130)	20	2.2
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.520	ug/L	104	(50-150)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,1-Dichloroethylene		5.0	4.78	ug/L	96	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.63	ug/L	93	(70-130)	20	3.2
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,1-Dichloropropene		5.0	5.02	ug/L	100	(70-130)		
LCS2	1,1-Dichloropropene		5.0	4.80	ug/L	96	(70-130)	20	4.5
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	5.34	ug/L	107	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.25	ug/L	105	(70-130)	20	1.7
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	4.98	ug/L	100	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	4.71	ug/L	94	(70-130)	20	5.6
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.520	ug/L	104	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5.0	5.12	ug/L	102	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	4.94	ug/L	99	(70-130)	20	3.6
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	5.28	ug/L	106	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.04	ug/L	101	(70-130)	20	4.7
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.370	ug/L	74	(50-150)		
LCS1	1,2-Dichloroethane		5.0	5.03	ug/L	101	(70-130)		
LCS2	1,2-Dichloroethane		5.0	4.83	ug/L	97	(70-130)	20	4.1
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			94.6	%	95	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			108	%	108	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.04	ug/L	101	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.99	ug/L	100	(70-130)	20	1
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	5.24	ug/L	105	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,3,5-Trimethylbenzene		5.0	5.02	ug/L	100	(70-130)	20	4.3
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.360	ug/L	72	(50-150)		
LCS1	1,3-Dichloropropane		5.0	5.12	ug/L	102	(70-130)		
LCS2	1,3-Dichloropropane		5.0	4.94	ug/L	99	(70-130)	20	3.6
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.450	ug/L	90	(50-150)		
LCS1	2,2-Dichloropropane		5.0	4.67	ug/L	93	(70-130)		
LCS2	2,2-Dichloropropane		5.0	4.45	ug/L	89	(70-130)	20	4.8
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.660	ug/L	132	(50-150)		
LCS1	2-Butanone (MEK)		50	47.4	ug/L	95	(70-130)		
LCS2	2-Butanone (MEK)		50	46.4	ug/L	93	(70-130)	20	2.3
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.09	ug/L	102	(50-150)		
LCS1	4-Bromofluorobenzene (S)			97.6	%	98	(70-130)		
LCS2	4-Bromofluorobenzene (S)			97.2	%	97	(70-130)		
MBLK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			98.4	%	98	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			105	%	105	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	52.3	ug/L	105	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	50.4	ug/L	101	(70-130)	20	3.5
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	3.67	ug/L	73	(50-150)		
LCS1	Benzene		5.0	5.02	ug/L	100	(70-130)		
LCS2	Benzene		5.0	4.85	ug/L	97	(70-130)	20	3.4
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	Bromobenzene		5.0	5.04	ug/L	101	(70-130)		
LCS2	Bromobenzene		5.0	4.78	ug/L	96	(70-130)	20	5.3
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Bromochloromethane		5.0	5.38	ug/L	108	(70-130)		
LCS2	Bromochloromethane		5.0	4.95	ug/L	99	(70-130)	20	8.3
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.440	ug/L	88	(50-150)		
LCS1	Bromodichloromethane		5.0	4.96	ug/L	99	(70-130)		
LCS2	Bromodichloromethane		5.0	4.89	ug/L	98	(70-130)	20	1.4

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromoethane		5.0	4.90	ug/L	98	(70-130)		
LCS2	Bromoethane		5.0	4.60	ug/L	92	(70-130)	20	6.3
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromoform		5.0	4.54	ug/L	91	(70-130)		
LCS2	Bromoform		5.0	4.45	ug/L	89	(70-130)	20	2.0
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.480	ug/L	96	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	5.15	ug/L	103	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	4.92	ug/L	98	(70-130)	20	4.6
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.560	ug/L	112	(50-150)		
LCS1	Carbon disulfide		5.0	5.47	ug/L	109	(70-130)		
LCS2	Carbon disulfide		5.0	5.03	ug/L	101	(70-130)	20	8.4
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.500	ug/L	100	(50-150)		
LCS1	Carbon Tetrachloride		5.0	5.26	ug/L	105	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.95	ug/L	99	(70-130)	20	6.1
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.400	ug/L	80	(50-150)		
LCS1	Chlorobenzene		5.0	5.13	ug/L	103	(70-130)		
LCS2	Chlorobenzene		5.0	5.01	ug/L	100	(70-130)	20	2.4
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Chlorodibromomethane		5.0	4.79	ug/L	96	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.56	ug/L	91	(70-130)	20	4.9
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	Chloroethane		5.0	5.14	ug/L	103	(70-130)		
LCS2	Chloroethane		5.0	4.88	ug/L	98	(70-130)	20	5.2
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.630	ug/L	126	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	4.89	ug/L	98	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.65	ug/L	93	(70-130)	20	5.0
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.560	ug/L	112	(50-150)		

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

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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chloromethane(Methyl Chloride)		5.0	5.25	ug/L	105	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	5.00	ug/L	100	(70-130)	20	4.9
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.580	ug/L	116	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	5.15	ug/L	103	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	4.90	ug/L	98	(70-130)	20	5.0
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	4.95	ug/L	99	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	4.87	ug/L	97	(70-130)	20	1.6
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.560	ug/L	112	(50-150)		
LCS1	Dibromomethane		5.0	5.32	ug/L	106	(70-130)		
LCS2	Dibromomethane		5.0	4.94	ug/L	99	(70-130)	20	7.4
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	Dichlorodifluoromethane		5.0	4.82	ug/L	96	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	4.72	ug/L	94	(70-130)	20	2.1
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	Dichloromethane		5.0	5.14	ug/L	103	(70-130)		
LCS2	Dichloromethane		5.0	4.77	ug/L	95	(70-130)	20	7.5
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.430	ug/L	86	(50-150)		
LCS1	Di-isopropyl ether		5.0	4.80	ug/L	96	(70-130)		
LCS2	Di-isopropyl ether		5.0	4.48	ug/L	90	(70-130)	20	6.9
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.540	ug/L	108	(50-150)		
LCS1	Ethyl benzene		5.0	5.00	ug/L	100	(70-130)		
LCS2	Ethyl benzene		5.0	4.86	ug/L	97	(70-130)	20	2.8
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.400	ug/L	80	(50-150)		
LCS1	Hexachlorobutadiene		5.0	4.94	ug/L	99	(70-130)		
LCS2	Hexachlorobutadiene		5.0	4.87	ug/L	97	(70-130)	20	1.4
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.500	ug/L	100	(50-150)		
LCS1	Isopropylbenzene		5.0	5.00	ug/L	100	(70-130)		
LCS2	Isopropylbenzene		5.0	4.75	ug/L	95	(70-130)	20	5.1

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.380	ug/L	76	(50-150)		
LCS1	m,p-Xylenes		10	11.4	ug/L	114	(70-130)		
LCS2	m,p-Xylenes		10	10.9	ug/L	109	(70-130)	20	4.5
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.800	ug/L	80	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.390	ug/L	78	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.19	ug/L	104	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	4.85	ug/L	97	(70-130)	20	6.8
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.450	ug/L	90	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.04	ug/L	101	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.79	ug/L	96	(70-130)	20	5.1
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.550	ug/L	110	(50-150)		
LCS1	Naphthalene		5.0	5.32	ug/L	106	(70-130)		
LCS2	Naphthalene		5.0	5.19	ug/L	104	(70-130)	20	2.5
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.390	ug/L	78	(50-150)		
LCS1	n-Butylbenzene		5.0	5.09	ug/L	102	(70-130)		
LCS2	n-Butylbenzene		5.0	4.96	ug/L	99	(70-130)	20	2.6
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	n-Propylbenzene		5.0	5.12	ug/L	102	(70-130)		
LCS2	n-Propylbenzene		5.0	4.86	ug/L	97	(70-130)	20	5.2
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.400	ug/L	80	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.29	ug/L	106	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.14	ug/L	103	(70-130)	20	2.9
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.450	ug/L	90	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.08	ug/L	102	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.08	ug/L	102	(70-130)	20	0.0
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.550	ug/L	110	(50-150)		
LCS1	o-Xylene		5.0	5.19	ug/L	104	(70-130)		
LCS2	o-Xylene		5.0	4.99	ug/L	100	(70-130)	20	3.9
MBLK	o-Xylene			<0.5	ug/L				

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	o-Xylene		0.5	0.400	ug/L	80	(50-150)		
LCS1	p-Chlorotoluene		5.0	5.50	ug/L	110	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.09	ug/L	102	(70-130)	20	7.7
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.440	ug/L	88	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.11	ug/L	102	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	4.89	ug/L	98	(70-130)	20	4.4
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.500	ug/L	100	(50-150)		
LCS1	p-Isopropyltoluene		5.0	4.94	ug/L	99	(70-130)		
LCS2	p-Isopropyltoluene		5.0	4.70	ug/L	94	(70-130)	20	5.0
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.380	ug/L	76	(50-150)		
LCS1	sec-Butylbenzene		5.0	5.12	ug/L	102	(70-130)		
LCS2	sec-Butylbenzene		5.0	4.85	ug/L	97	(70-130)	20	5.4
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.390	ug/L	78	(50-150)		
LCS1	Styrene		5.0	4.89	ug/L	98	(70-130)		
LCS2	Styrene		5.0	4.72	ug/L	94	(70-130)	20	3.5
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.440	ug/L	88	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	4.99	ug/L	100	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.79	ug/L	96	(70-130)	20	4.1
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.480	ug/L	96	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	4.99	ug/L	100	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	4.76	ug/L	95	(70-130)	20	4.7
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.540	ug/L	108	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.10	ug/L	102	(70-130)		
LCS2	tert-Butylbenzene		5.0	4.92	ug/L	98	(70-130)	20	3.6
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.360	ug/L	72	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	5.03	ug/L	101	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.86	ug/L	97	(70-130)	20	3.4
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Toluene		5.0	5.11	ug/L	102	(70-130)		

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

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Toluene		5.0	4.91	ug/L	98	(70-130)	20	4.0
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.500	ug/L	100	(50-150)		
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			100	%	100	(70-130)		
MBLK	Toluene-d8 (S)			90.2	%	90	(70-130)		
MRL_CHK	Toluene-d8 (S)			96.6	%	97	(70-130)		
MRLLW	Toluene-d8 (S)			95.2	%	95	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.07	ug/L	101	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.82	ug/L	96	(70-130)	20	5.1
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	5.50	ug/L	110	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.48	ug/L	110	(70-130)	20	0.36
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.540	ug/L	108	(50-150)		
LCS1	Trichloroethylene (TCE)		5.0	4.99	ug/L	100	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.85	ug/L	97	(70-130)	20	2.9
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Trichlorofluoromethane		5.0	4.99	ug/L	100	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.75	ug/L	95	(70-130)	20	4.9
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	4.83	ug/L	97	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	4.38	ug/L	88	(70-130)	20	9.8
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.540	ug/L	108	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	4.88	ug/L	98	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.58	ug/L	92	(70-130)	20	6.3
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.550	ug/L	110	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.290	ug/L	116	(50-150)		
QC Ref# 819926 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/12/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	6.83	ug/L	**137**	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	6.68	ug/L	**134**	(70-130)	20	2.2
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
LCS1	1,1,1-Trichloroethane		5.0	5.95	ug/L	119	(70-130)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,1,1-Trichloroethane		5.0	5.88	ug/L	118	(70-130)	20	1.2
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.93	ug/L	119	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	6.16	ug/L	123	(70-130)	20	3.8
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
LCS1	1,1,2-Trichloroethane		5.0	5.45	ug/L	109	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.78	ug/L	116	(70-130)	20	5.9
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
LCS1	1,1-Dichloroethane		5.0	5.72	ug/L	114	(70-130)		
LCS2	1,1-Dichloroethane		5.0	5.41	ug/L	108	(70-130)	20	5.6
MBLK	1,1-Dichloroethane			<0.5	ug/L				
LCS1	1,1-Dichloroethylene		5.0	5.67	ug/L	113	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	5.49	ug/L	110	(70-130)	20	3.2
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
LCS1	1,1-Dichloropropene		5.0	5.91	ug/L	118	(70-130)		
LCS2	1,1-Dichloropropene		5.0	5.72	ug/L	114	(70-130)	20	3.3
MBLK	1,1-Dichloropropene			<0.5	ug/L				
LCS1	1,2,3-Trichlorobenzene		5.0	6.97	ug/L	**139**	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	6.18	ug/L	124	(70-130)	20	12
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
LCS1	1,2,3-Trichloropropane		5.0	6.13	ug/L	123	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	6.21	ug/L	124	(70-130)	20	1.3
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
LCS1	1,2,4-Trichlorobenzene		5.0	6.27	ug/L	125	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	6.41	ug/L	128	(70-130)	20	2.2
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
LCS1	1,2,4-Trimethylbenzene		5.0	6.06	ug/L	121	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.71	ug/L	114	(70-130)	20	6.0
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
LCS1	1,2-Dichloroethane		5.0	6.03	ug/L	121	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.91	ug/L	118	(70-130)	20	2.0
MBLK	1,2-Dichloroethane			<0.5	ug/L				
LCS1	1,2-Dichloroethane-d4 (S)			97.2	%	97	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.68	ug/L	114	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.72	ug/L	114	(70-130)	20	0.70
MBLK	1,2-Dichloropropane			<0.5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,3,5-Trimethylbenzene		5.0	6.02	ug/L	120	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.64	ug/L	113	(70-130)	20	6.5
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
LCS1	1,3-Dichloropropane		5.0	6.15	ug/L	123	(70-130)		
LCS2	1,3-Dichloropropane		5.0	6.21	ug/L	124	(70-130)	20	0.97
MBLK	1,3-Dichloropropane			<0.5	ug/L				
LCS1	2,2-Dichloropropane		5.0	4.31	ug/L	86	(70-130)		
LCS2	2,2-Dichloropropane		5.0	3.96	ug/L	79	(70-130)	20	8.5
MBLK	2,2-Dichloropropane			<0.5	ug/L				
LCS1	2-Butanone (MEK)		50	57.5	ug/L	115	(70-130)		
LCS2	2-Butanone (MEK)		50	54.4	ug/L	109	(70-130)	20	5.5
MBLK	2-Butanone (MEK)			<5.0	ug/L				
LCS1	4-Bromofluorobenzene (S)			111	%	111	(70-130)		
LCS2	4-Bromofluorobenzene (S)			116	%	116	(70-130)		
MBLK	4-Bromofluorobenzene (S)			107	%	107	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	53.5	ug/L	107	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	55.6	ug/L	111	(70-130)	20	3.9
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
LCS1	Benzene		5.0	6.01	ug/L	120	(70-130)		
LCS2	Benzene		5.0	5.91	ug/L	118	(70-130)	20	1.7
MBLK	Benzene			<0.5	ug/L				
LCS1	Bromobenzene		5.0	5.98	ug/L	120	(70-130)		
LCS2	Bromobenzene		5.0	6.18	ug/L	124	(70-130)	20	3.3
MBLK	Bromobenzene			<0.5	ug/L				
LCS1	Bromochloromethane		5.0	6.01	ug/L	120	(70-130)		
LCS2	Bromochloromethane		5.0	6.01	ug/L	120	(70-130)	20	0.0
MBLK	Bromochloromethane			<0.5	ug/L				
LCS1	Bromodichloromethane		5.0	5.95	ug/L	119	(70-130)		
LCS2	Bromodichloromethane		5.0	5.81	ug/L	116	(70-130)	20	2.4
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoethane		5.0	5.52	ug/L	110	(70-130)		
LCS2	Bromoethane		5.0	5.01	ug/L	100	(70-130)	20	9.7
MBLK	Bromoethane			<0.5	ug/L				
LCS1	Bromoform		5.0	7.70	ug/L	**154**	(70-130)		
LCS2	Bromoform		5.0	8.20	ug/L	**164**	(70-130)	20	6.3
MBLK	Bromoform			<0.5	ug/L				
LCS1	Bromomethane (Methyl Bromide)		5.0	5.36	ug/L	107	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.09	ug/L	102	(70-130)	20	5.2

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
LCS1	Carbon disulfide		5.0	5.23	ug/L	105	(70-130)		
LCS2	Carbon disulfide		5.0	4.76	ug/L	95	(70-130)	20	9.4
MBLK	Carbon disulfide			<0.5	ug/L				
LCS1	Carbon Tetrachloride		5.0	6.17	ug/L	123	(70-130)		
LCS2	Carbon Tetrachloride		5.0	6.24	ug/L	125	(70-130)	20	1.1
MBLK	Carbon Tetrachloride			<0.5	ug/L				
LCS1	Chlorobenzene		5.0	6.05	ug/L	121	(70-130)		
LCS2	Chlorobenzene		5.0	5.76	ug/L	115	(70-130)	20	4.9
MBLK	Chlorobenzene			<0.5	ug/L				
LCS1	Chlorodibromomethane		5.0	6.31	ug/L	126	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.99	ug/L	120	(70-130)	20	5.2
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroethane		5.0	5.45	ug/L	109	(70-130)		
LCS2	Chloroethane		5.0	5.36	ug/L	107	(70-130)	20	1.7
MBLK	Chloroethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5.0	6.31	ug/L	126	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	6.11	ug/L	122	(70-130)	20	3.2
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Chloromethane(Methyl Chloride)		5.0	5.68	ug/L	114	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	5.19	ug/L	104	(70-130)	20	9.0
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
LCS1	cis-1,2-Dichloroethylene		5.0	5.64	ug/L	113	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.16	ug/L	103	(70-130)	20	8.9
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
LCS1	cis-1,3-Dichloropropene		5.0	5.82	ug/L	116	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	6.35	ug/L	127	(70-130)	20	8.7
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
LCS1	Dibromomethane		5.0	5.67	ug/L	113	(70-130)		
LCS2	Dibromomethane		5.0	5.64	ug/L	113	(70-130)	20	0.53
MBLK	Dibromomethane			<0.5	ug/L				
LCS1	Dichlorodifluoromethane		5.0	6.70	ug/L	**134**	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	5.93	ug/L	119	(70-130)	20	12
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
LCS1	Dichloromethane		5.0	5.66	ug/L	113	(70-130)		
LCS2	Dichloromethane		5.0	5.57	ug/L	111	(70-130)	20	1.6
MBLK	Dichloromethane			<0.5	ug/L				
LCS1	Di-isopropyl ether		5.0	5.46	ug/L	109	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Di-isopropyl ether		5.0	5.33	ug/L	107	(70-130)	20	2.4
MBLK	Di-isopropyl ether			<3.0	ug/L				
LCS1	Ethyl benzene		5.0	5.95	ug/L	119	(70-130)		
LCS2	Ethyl benzene		5.0	5.83	ug/L	117	(70-130)	20	2.0
MBLK	Ethyl benzene			<0.5	ug/L				
LCS1	Hexachlorobutadiene		5.0	6.85	ug/L	**137**	(70-130)		
LCS2	Hexachlorobutadiene		5.0	6.68	ug/L	**134**	(70-130)	20	2.5
MBLK	Hexachlorobutadiene			<0.5	ug/L				
LCS1	Isopropylbenzene		5.0	6.27	ug/L	125	(70-130)		
LCS2	Isopropylbenzene		5.0	6.32	ug/L	126	(70-130)	20	0.79
MBLK	Isopropylbenzene			<0.5	ug/L				
LCS1	m,p-Xylenes		10	11.8	ug/L	118	(70-130)		
LCS2	m,p-Xylenes		10	11.4	ug/L	114	(70-130)	20	3.5
MBLK	m,p-Xylenes			<0.5	ug/L				
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	6.37	ug/L	127	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	6.38	ug/L	128	(70-130)	20	0.16
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.89	ug/L	98	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.86	ug/L	97	(70-130)	20	0.62
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
LCS1	Naphthalene		5.0	6.27	ug/L	125	(70-130)		
LCS2	Naphthalene		5.0	5.72	ug/L	114	(70-130)	20	9.2
MBLK	Naphthalene			<0.5	ug/L				
LCS1	n-Butylbenzene		5.0	5.75	ug/L	115	(70-130)		
LCS2	n-Butylbenzene		5.0	5.67	ug/L	113	(70-130)	20	1.4
MBLK	n-Butylbenzene			<0.5	ug/L				
LCS1	n-Propylbenzene		5.0	6.40	ug/L	128	(70-130)		
LCS2	n-Propylbenzene		5.0	6.45	ug/L	129	(70-130)	20	0.78
MBLK	n-Propylbenzene			<0.5	ug/L				
LCS1	o-Chlorotoluene		5.0	6.46	ug/L	129	(70-130)		
LCS2	o-Chlorotoluene		5.0	6.60	ug/L	**132**	(70-130)	20	2.1
MBLK	o-Chlorotoluene			<0.5	ug/L				
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.73	ug/L	115	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.48	ug/L	110	(70-130)	20	4.5
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
LCS1	o-Xylene		5.0	6.36	ug/L	127	(70-130)		
LCS2	o-Xylene		5.0	6.11	ug/L	122	(70-130)	20	4.0
MBLK	o-Xylene			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	p-Chlorotoluene		5.0	5.91	ug/L	118	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.58	ug/L	112	(70-130)	20	5.7
MBLK	p-Chlorotoluene			<0.5	ug/L				
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	6.16	ug/L	123	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	6.23	ug/L	125	(70-130)	20	1.1
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
LCS1	p-Isopropyltoluene		5.0	6.58	ug/L	**132**	(70-130)		
LCS2	p-Isopropyltoluene		5.0	6.31	ug/L	126	(70-130)	20	4.2
MBLK	p-Isopropyltoluene			<0.5	ug/L				
LCS1	sec-Butylbenzene		5.0	6.69	ug/L	**134**	(70-130)		
LCS2	sec-Butylbenzene		5.0	6.59	ug/L	**132**	(70-130)	20	1.5
MBLK	sec-Butylbenzene			<0.5	ug/L				
LCS1	Styrene		5.0	5.83	ug/L	117	(70-130)		
LCS2	Styrene		5.0	5.29	ug/L	106	(70-130)	20	9.7
MBLK	Styrene			<0.5	ug/L				
LCS1	tert-amyl Methyl Ether		5.0	5.08	ug/L	102	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.84	ug/L	97	(70-130)	20	4.8
MBLK	tert-amyl Methyl Ether			<3	ug/L				
LCS1	tert-Butyl Ethyl Ether		5.0	5.00	ug/L	100	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	4.91	ug/L	98	(70-130)	20	1.8
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
LCS1	tert-Butylbenzene		5.0	6.56	ug/L	**131**	(70-130)		
LCS2	tert-Butylbenzene		5.0	6.68	ug/L	**134**	(70-130)	20	1.8
MBLK	tert-Butylbenzene			<0.5	ug/L				
LCS1	Tetrachloroethylene (PCE)		5.0	5.68	ug/L	114	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	5.83	ug/L	117	(70-130)	20	2.6
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
LCS1	Toluene		5.0	5.57	ug/L	111	(70-130)		
LCS2	Toluene		5.0	5.77	ug/L	115	(70-130)	20	3.5
MBLK	Toluene			<0.5	ug/L				
LCS1	Toluene-d8 (S)			100	%	100	(70-130)		
LCS2	Toluene-d8 (S)			105	%	105	(70-130)		
MBLK	Toluene-d8 (S)			97.4	%	97	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.75	ug/L	115	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	5.32	ug/L	106	(70-130)	20	7.8
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
LCS1	trans-1,3-Dichloropropene		5.0	6.46	ug/L	129	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	6.65	ug/L	**133**	(70-130)	20	2.9

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MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
LCS1	Trichloroethylene (TCE)		5.0	5.90	ug/L	118	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	5.38	ug/L	108	(70-130)	20	9.2
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
LCS1	Trichlorofluoromethane		5.0	5.90	ug/L	118	(70-130)		
LCS2	Trichlorofluoromethane		5.0	5.59	ug/L	112	(70-130)	20	5.4
MBLK	Trichlorofluoromethane			<0.5	ug/L				
LCS1	Trichlorotrifluoroethane(Freon		5.0	5.53	ug/L	111	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	5.52	ug/L	110	(70-130)	20	0.18
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
LCS1	Vinyl chloride (VC)		5.0	5.77	ug/L	115	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	5.37	ug/L	107	(70-130)	20	7.2
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
QC Ref# 820713 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 02/16/2015**			
CCCH	1,4-Dioxane		50	48.4	ug/L	97	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0730	ug/L	104	(50-150)		
CCCM	1,4-Dioxane		20	19.6	ug/L	98	(70-130)		
LCS1	1,4-Dioxane		20	17.5	ug/L	88	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0760	ug/L	109	(50-150)		
MS_201502090610	1,4-Dioxane	ND	20	19.2	ug/L	96	(70-130)		
MSD_201502090610	1,4-Dioxane	ND	20	18.3	ug/L	92	(70-130)	20	4.8
CCCH	Dioxane-d8			99.4	%	99	(70-130)		
CCCL	Dioxane-d8			99.4	%	99	(70-130)		
CCCM	Dioxane-d8			99.4	%	99	(70-130)		
LCS1	Dioxane-d8			90.7	%	91	(70-130)		
MBLK	Dioxane-d8			97.2	%				
MRL_CHK	Dioxane-d8			95.6	%	96	(70-130)		
MS_201502090610	Dioxane-d8	100		100	%	101	(70-130)		
MSD_201502090610	Dioxane-d8	100		93.8	%	94	(70-130)		
CCCH	THF-d8			106	%	106	(50-150)		
CCCL	THF-d8			103	%	103	(50-150)		
CCCM	THF-d8			106	%	106	(50-150)		
LCS1	THF-d8			119	%	119	(50-150)		
MBLK	THF-d8			98.3	%				
MRL_CHK	THF-d8			106	%	106	(50-150)		
MS_201502090610	THF-d8	109		104	%	104	(50-150)		
MSD_201502090610	THF-d8	109		119	%	119	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 820982 - ICPMS Metals by EPA 200.8						**Analysis Date: 02/18/2015**			
LCS1	Chromium Total ICAP/MS		100	98.9	ug/L	99	(85-115)		
LCS2	Chromium Total ICAP/MS		100	97.2	ug/L	97	(85-115)	20	1.7
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.934	ug/L	94	(50-150)		
MS_201502110572	Chromium Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		
MS2_201502120356	Chromium Total ICAP/MS	ND	100	96.6	ug/L	96	(70-130)		
MSD_201502110572	Chromium Total ICAP/MS	ND	100	97.3	ug/L	97	(70-130)	20	0.52
MSD2_201502120356	Chromium Total ICAP/MS	ND	100	93.6	ug/L	93	(70-130)	20	3.1
QC Ref# 821280 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 02/17/2015**			
CCCH	1,4-Dioxane		50	50.0	ug/L	100	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0840	ug/L	120	(50-150)		
CCCM	1,4-Dioxane		20	19.8	ug/L	99	(70-130)		
LCS1	1,4-Dioxane		20	19.0	ug/L	95	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0610	ug/L	87	(50-150)		
MS1_201502100474	1,4-Dioxane	ND	0.07	0.0720	ug/L	91	(50-150)		
MSD1_201502100474	1,4-Dioxane	ND	0.07	0.0690	ug/L	87	(50-150)	20	4.3
CCCH	Dioxane-d8			104	%	104	(70-130)		
CCCL	Dioxane-d8			110	%	110	(70-130)		
CCCM	Dioxane-d8			101	%	101	(70-130)		
LCS1	Dioxane-d8			95.5	%	96	(70-130)		
MBLK	Dioxane-d8			90.1	%				
MRL_CHK	Dioxane-d8			95.5	%	95	(70-130)		
MS1_201502100474	Dioxane-d8	96		104	%	104	(70-130)		
MSD1_201502100474	Dioxane-d8	96		99.8	%	100	(70-130)		
CCCH	THF-d8			103	%	103	(50-150)		
CCCL	THF-d8			95.3	%	95	(50-150)		
CCCM	THF-d8			102	%	102	(50-150)		
LCS1	THF-d8			104	%	104	(50-150)		
MBLK	THF-d8			116	%				
MRL_CHK	THF-d8			108	%	109	(50-150)		
MS1_201502100474	THF-d8	104		94.2	%	94	(50-150)		
MSD1_201502100474	THF-d8	104		109	%	109	(50-150)		
QC Ref# 822019 - ICPMS Metals by EPA 200.8						**Analysis Date: 02/24/2015**			
LCS1	Chromium Total ICAP/MS		100	93.8	ug/L	94	(85-115)		
LCS2	Chromium Total ICAP/MS		100	97.4	ug/L	97	(85-115)	20	3.8

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

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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201502190703	Chromium Total ICAP/MS	2.7	100	102	ug/L	100	(70-130)		
MSD_201502190703	Chromium Total ICAP/MS	2.7	100	99.9	ug/L	97	(70-130)	20	2.1

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.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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NELAP ACCREDITED TNI LABORATORY ORELAP 4034

ilac-MRA

ACLASS ACCREDITED TESTING AT-1807

Laboratory Report

for

Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
Attention: Marie Light
Fax: 520-838-7432

Date of Issue
02/24/2015

Eurofins Eaton Analytical

TDF: Thomas.D.French

Project Manager

Report: 520151
Project: PCDEQ-GW
ADHS License #: AZ0778
Group: Groundwater/Day 1

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* This report shall not be reproduced except in full, without the written approval of the laboratory.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2014-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	14-003r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-7
Kansas *	E-10268	**Utah ***	CA000062014-7
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	460260
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, Inc.
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
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www.EatonAnalytical.com

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Sulfite	SM 4500-SO^3B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Acknowledgement of Samples Received

Addr: **Pima County DEQ**
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Client ID: PIMA-AZ
Folder #: 520151
Project: PCDEQ-GW
Sample Group: Groundwater/Day 1

Attn: Marie Light
Phone: 520-724-7457

Project Manager: Thomas.D.French
Phone: (480) 778-1558

The following samples were received from you on **February 11, 2015** at **1604**. 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 Eurofins Eaton Analytical.

Sample #	Sample ID			Sample Date
201502110616	2015-PW-20-01			02/10/2015 1248
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110617	2015-PW-20-02			02/10/2015 1311
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110618	2015-PW-20-02L MS			02/10/2015 1316
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110619	2015-PW-20-02L MSD			02/10/2015 1320
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110620	2015-TB-01			02/10/2015 1248
	@VOASDWA TB			

Test Description

@UCMR3 522 -- UCMR3 1,4-Dioxane by EPA 522

@VOASDWA -- Volatile Organics by GCMS

@VOASDWA TB -- Volatile Organics by GCMS

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CHAIN OF CUSTODY RECORD

520157

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: VP

SAMPLES LOGGED IN BY: W

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

SAMPLE TEMP RECEIVED AT:

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 3.0-0.2=2.8 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice X No Ice _____

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

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Pima County Dept of Env. Quality

PROJECT CODE: PCDEQ-GW

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Kit # 104016 Day 1

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms ☐

NON-COMPLIANCE SAMPLES ☐ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ☐ (check for yes), *OR*

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

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	EPA 200.8	EPA 524.2	EPA 522	SAMPLER COMMENTS
2/10	12:40	2015-PW-20-1		RGW			1	3	3	
2/10	13:11	2015-PW-20-2		RGW			1	3	3	
2/10	13:16	2015-PW-20-2LMS		RGW			1	3	3	
2/10	13:20	2015-PW-20-2LMSD		RGW			1	3	3	

FEB 11 2015 1604

Victor Plascencia
Eurofins Eaton Analytical

FedEx Tracking Number 8070 7365 4432

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	Marie Light	PDEQ/Principal Hydrologist	02/10/15	14:45
RELINQUISHED BY:					
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029 (06/26/2013)

PAGE _____ OF _____

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formerly MWH Laboratories

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Kit Order for Pima County DEQ

Thomas.D.French is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 104016
Created By: TDF
Deliver By: 02/05/2015
STG: Bottle Orders
Ice Type: W

Client ID: PIMA-AZ
Project Code: PCDEQ-GW Bottle Orders
Group Name: Groundwater/Day 1
PO#/JOB#:

Ship Sample Kits to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

Send Report to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

Billing Address
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if ai	UN DOT #
10	@UCMR3 522	3 125ml amber glass 6.25 Sulfite +125 mg Bisulfite	
10	@VOASDWA	3 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
1	@VOASDWA TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
10	Chromium Total ICAP/MS	1 500ml acid poly 2ml HNO3 (18%)	UN2031

Comments

PCDEQ - Groundwater Day 1. COC (2) , bags for use of wet ice for sample refrigeration upon return shipment, Wet Ice Sampling/packing insructions. Return Shipment. Do not crowd sample kits for delivery to client. Delivery is needed to client by 02/05/15.

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

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Laboratory Comments
Report: 520151

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Flags Legend:

L3 - The associated blank spike recovery was above method acceptance limits.

M1 - Matrix spike recovery was high; the associated blank spike recovery was acceptable.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits
Report: 520151

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Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Samples Received on:
02/11/2015 1604

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201502110616	**2015-PW-20-01**				
02/17/2015 18:57	1,4-Dioxane		1.2		ug/L	0.07
02/16/2015 16:43	Trichloroethylene (TCE)		0.75	5	ug/L	0.5
	201502110617	**2015-PW-20-02**				
02/17/2015 19:13	1,4-Dioxane		1.4		ug/L	0.07
02/18/2015 16:22	Chromium Total ICAP/MS		4.1	100	ug/L	1
02/16/2015 17:05	Trichloroethylene (TCE)		0.78	5	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 520151

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/11/2015 1604

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2015-PW-20-01 (201502110616)						**Sampled on 02/10/2015 1248**		
		EPA 200.8 - ICPMS Metals						
2/12/2015	02/13/2015 15:28	820120	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
2/15/2015	02/17/2015 18:57	821280	(EPA 522)	1,4-Dioxane	1.2	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS						
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 520151

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/11/2015 1604

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Trichloroethylene (TCE)	0.75	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-20-02 (201502110617)							**Sampled on**	**02/10/2015 1311**	
		EPA 200.8 - ICPMS Metals							
2/12/2015	02/18/2015	16:22	820982	(EPA 200.8)	Chromium Total ICAP/MS	4.1	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/15/2015	02/17/2015	19:13	821280	(EPA 522)	1,4-Dioxane	1.4	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1

Rounding on totals after summation.
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Samples Received on:
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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (M1,R7)	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Trichloroethylene (TCE)	0.78	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

2015-TB-01 (201502110620) **Sampled on 02/10/2015 1248**

EPA 524.2 - Volatile Organics by GCMS

2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1

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

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Laboratory Data
Report: 520151

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/11/2015 1604

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1

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Samples Received on:
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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

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QC Summary: 520151

Pima County DEQ

QC Ref # 820120 - ICPMS Metals — **Analysis Date: 02/13/2015**

201502110616	2015-PW-20-01	Analyzed by: SXK

QC Ref # 820687 - Volatile Organics by GCMS — **Analysis Date: 02/16/2015**

201502110616	2015-PW-20-01	Analyzed by: KCP
201502110617	2015-PW-20-02	Analyzed by: KCP
201502110618	2015-PW-20-02L MS	Analyzed by: KCP
201502110619	2015-PW-20-02L MSD	Analyzed by: KCP
201502110620	2015-TB-01	Analyzed by: KCP

QC Ref # 820982 - ICPMS Metals — **Analysis Date: 02/18/2015**

201502110617	2015-PW-20-02	Analyzed by: SXK
201502110618	2015-PW-20-02L MS	Analyzed by: SXK
201502110619	2015-PW-20-02L MSD	Analyzed by: SXK

QC Ref # 821280 - UCMR3 1,4-Dioxane by EPA 522 — **Analysis Date: 02/17/2015**

201502110616	2015-PW-20-01	Analyzed by: CRW
201502110617	2015-PW-20-02	Analyzed by: CRW
201502110618	2015-PW-20-02L MS	Analyzed by: CRW
201502110619	2015-PW-20-02L MSD	Analyzed by: CRW

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 820120 - ICPMS Metals by EPA 200.8						**Analysis Date: 02/13/2015**			
LCS1	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Chromium Total ICAP/MS		100	98.8	ug/L	99	(85-115)	20	1.2
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.817	ug/L	82	(50-150)		
MS_201502040447	Chromium Total ICAP/MS	1.4	100	96.6	ug/L	95	(70-130)		
MS2_201502040448	Chromium Total ICAP/MS	1.2	100	94.2	ug/L	93	(70-130)		
MSD_201502040447	Chromium Total ICAP/MS	1.4	100	99.1	ug/L	98	(70-130)	20	2.5
MSD2_201502040448	Chromium Total ICAP/MS	1.2	100	95.4	ug/L	94	(70-130)	20	1.3
QC Ref# 820687 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/16/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	4.95	ug/L	99	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	4.72	ug/L	94	(70-130)	20	4.8
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.460	ug/L	92	(50-150)		
MS_201502110617	1,1,1,2-Tetrachloroethane	ND	10	10.5	ug/L	105	(70-130)		
MS_201502120602	1,1,1,2-Tetrachloroethane	ND	10	10.3	ug/L	103	(70-130)		
MSD_201502110617	1,1,1,2-Tetrachloroethane	ND	10	11.2	ug/L	112	(70-130)	20	6.5
MSD_201502120602	1,1,1,2-Tetrachloroethane	ND	10	10.6	ug/L	106	(70-130)	20	2.9
LCS1	1,1,1-Trichloroethane		5.0	5.02	ug/L	100	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.66	ug/L	93	(70-130)	20	7.4
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	1,1,1-Trichloroethane	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	1,1,1-Trichloroethane	ND	10	11.4	ug/L	114	(70-130)		
MSD_201502110617	1,1,1-Trichloroethane	ND	10	11.7	ug/L	117	(70-130)	20	2.6
MSD_201502120602	1,1,1-Trichloroethane	ND	10	11.6	ug/L	116	(70-130)	20	1.7
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.14	ug/L	103	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	5.22	ug/L	104	(70-130)	20	1.5
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	1,1,2,2-Tetrachloroethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	1,1,2,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	1,1,2,2-Tetrachloroethane	ND	10	10.5	ug/L	105	(70-130)	20	1.9
MSD_201502120602	1,1,2,2-Tetrachloroethane	ND	10	10.6	ug/L	106	(70-130)	20	1.9
LCS1	1,1,2-Trichloroethane		5.0	5.24	ug/L	105	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.91	ug/L	98	(70-130)	20	6.5
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				

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

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,1,2-Trichloroethane		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	1,1,2-Trichloroethane	ND	10	10.8	ug/L	108	(70-130)		
MS_201502120602	1,1,2-Trichloroethane	ND	10	10.7	ug/L	107	(70-130)		
MSD_201502110617	1,1,2-Trichloroethane	ND	10	10.7	ug/L	107	(70-130)	20	0.93
MSD_201502120602	1,1,2-Trichloroethane	ND	10	10.6	ug/L	106	(70-130)	20	0.94
LCS1	1,1-Dichloroethane		5.0	4.94	ug/L	99	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.78	ug/L	96	(70-130)	20	3.3
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	1,1-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201502120602	1,1-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)		
MSD_201502110617	1,1-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)	20	0.0
MSD_201502120602	1,1-Dichloroethane	ND	10	10.5	ug/L	105	(70-130)	20	0.95
LCS1	1,1-Dichloroethylene		5.0	4.78	ug/L	96	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.55	ug/L	91	(70-130)	20	4.9
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
MS_201502110617	1,1-Dichloroethylene	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	1,1-Dichloroethylene	ND	10	11.4	ug/L	115	(70-130)		
MSD_201502110617	1,1-Dichloroethylene	ND	10	11.6	ug/L	116	(70-130)	20	0.87
MSD_201502120602	1,1-Dichloroethylene	ND	10	11.4	ug/L	114	(70-130)	20	0.87
LCS1	1,1-Dichloropropene		5.0	4.93	ug/L	99	(70-130)		
LCS2	1,1-Dichloropropene		5.0	4.76	ug/L	95	(70-130)	20	3.5
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	1,1-Dichloropropene	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	1,1-Dichloropropene	ND	10	11.5	ug/L	115	(70-130)		
MSD_201502110617	1,1-Dichloropropene	ND	10	11.5	ug/L	115	(70-130)	20	0.0
MSD_201502120602	1,1-Dichloropropene	ND	10	11.1	ug/L	111	(70-130)	20	3.5
LCS1	1,2,3-Trichlorobenzene		5.0	5.20	ug/L	104	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.01	ug/L	100	(70-130)	20	3.7
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.620	ug/L	124	(50-150)		
MS_201502110617	1,2,3-Trichlorobenzene	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	1,2,3-Trichlorobenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	1,2,3-Trichlorobenzene	ND	10	10.8	ug/L	108	(70-130)	20	0.93
MSD_201502120602	1,2,3-Trichlorobenzene	ND	10	10.5	ug/L	105	(70-130)	20	0.96
LCS1	1,2,3-Trichloropropane		5.0	5.02	ug/L	100	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,2,3-Trichloropropane		5.0	5.13	ug/L	103	(70-130)	20	2.2
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	1,2,3-Trichloropropane	ND	10	9.91	ug/L	99	(70-130)		
MS_201502120602	1,2,3-Trichloropropane	ND	10	9.99	ug/L	100	(70-130)		
MSD_201502110617	1,2,3-Trichloropropane	ND	10	10.2	ug/L	102	(70-130)	20	2.9
MSD_201502120602	1,2,3-Trichloropropane	ND	10	10.1	ug/L	101	(70-130)	20	1.1
LCS1	1,2,4-Trichlorobenzene		5.0	5.19	ug/L	104	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	5.00	ug/L	100	(70-130)	20	3.7
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	1,2,4-Trichlorobenzene	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	1,2,4-Trichlorobenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	1,2,4-Trichlorobenzene	ND	10	10.9	ug/L	109	(70-130)	20	1.9
MSD_201502120602	1,2,4-Trichlorobenzene	ND	10	10.5	ug/L	105	(70-130)	20	0.96
LCS1	1,2,4-Trimethylbenzene		5.0	5.62	ug/L	112	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.43	ug/L	109	(70-130)	20	3.4
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.490	ug/L	98	(50-150)		
MS_201502110617	1,2,4-Trimethylbenzene	ND	10	11.7	ug/L	117	(70-130)		
MS_201502120602	1,2,4-Trimethylbenzene	ND	10	11.2	ug/L	112	(70-130)		
MSD_201502110617	1,2,4-Trimethylbenzene	ND	10	11.5	ug/L	115	(70-130)	20	1.7
MSD_201502120602	1,2,4-Trimethylbenzene	ND	10	11.3	ug/L	113	(70-130)	20	0.89
LCS1	1,2-Dichloroethane		5.0	5.51	ug/L	110	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.25	ug/L	105	(70-130)	20	4.8
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	1,2-Dichloroethane	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	1,2-Dichloroethane	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	1,2-Dichloroethane	ND	10	11.2	ug/L	112	(70-130)	20	1.8
MSD_201502120602	1,2-Dichloroethane	ND	10	10.8	ug/L	108	(70-130)	20	2.7
LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			109	%	109	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201502110617	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201502120602	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		

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Laboratory QC
Report: 520151

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201502110617	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MSD_201502120602	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.26	ug/L	105	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.14	ug/L	103	(70-130)	20	2.3
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	1,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)		
MS_201502120602	1,2-Dichloropropane	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	1,2-Dichloropropane	ND	10	11.1	ug/L	111	(70-130)	20	0.91
MSD_201502120602	1,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)	20	0.91
LCS1	1,3,5-Trimethylbenzene		5.0	5.60	ug/L	112	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.46	ug/L	109	(70-130)	20	2.5
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	1,3,5-Trimethylbenzene	ND	10	12.4	ug/L	124	(70-130)		
MS_201502120602	1,3,5-Trimethylbenzene	ND	10	12.2	ug/L	122	(70-130)		
MSD_201502110617	1,3,5-Trimethylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	2.5
MSD_201502120602	1,3,5-Trimethylbenzene	ND	10	12.2	ug/L	122	(70-130)	20	0.0
LCS1	1,3-Dichloropropane		5.0	5.22	ug/L	104	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.17	ug/L	103	(70-130)	20	0.96
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	1,3-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)		
MS_201502120602	1,3-Dichloropropane	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	1,3-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)	20	0.0
MSD_201502120602	1,3-Dichloropropane	ND	10	10.6	ug/L	106	(70-130)	20	2.8
LCS1	2,2-Dichloropropane		5.0	5.20	ug/L	104	(70-130)		
LCS2	2,2-Dichloropropane		5.0	4.89	ug/L	98	(70-130)	20	6.1
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	2,2-Dichloropropane	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	2,2-Dichloropropane	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	2,2-Dichloropropane	ND	10	11.8	ug/L	118	(70-130)	20	4.3
MSD_201502120602	2,2-Dichloropropane	ND	10	11.1	ug/L	111	(70-130)	20	1.8
LCS1	2-Butanone (MEK)		50	48.4	ug/L	97	(70-130)		
LCS2	2-Butanone (MEK)		50	48.0	ug/L	96	(70-130)	20	0.83
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.69	ug/L	114	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502110617	2-Butanone (MEK)	ND	100	97.9	ug/L	98	(70-130)		
MS_201502120602	2-Butanone (MEK)	ND	100	95.6	ug/L	96	(70-130)		
MSD_201502110617	2-Butanone (MEK)	ND	100	96.5	ug/L	97	(70-130)	20	1.4
MSD_201502120602	2-Butanone (MEK)	ND	100	93.5	ug/L	94	(70-130)	20	2.2
LCS1	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			106	%	106	(70-130)		
MBLK	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MS_201502110617	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
MS_201502120602	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MSD_201502110617	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MSD_201502120602	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	51.0	ug/L	102	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	50.5	ug/L	101	(70-130)	20	0.99
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.11	ug/L	102	(50-150)		
MS_201502110617	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	106	(70-130)		
MS_201502120602	4-Methyl-2-Pentanone (MIBK)	ND	100	103	ug/L	103	(70-130)		
MSD_201502110617	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	106	(70-130)	20	0.0
MSD_201502120602	4-Methyl-2-Pentanone (MIBK)	ND	100	102	ug/L	102	(70-130)	20	0.98
LCS1	Benzene		5.0	5.34	ug/L	107	(70-130)		
LCS2	Benzene		5.0	5.11	ug/L	102	(70-130)	20	4.4
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Benzene	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Benzene	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	Benzene	ND	10	11.1	ug/L	111	(70-130)	20	0.90
MSD_201502120602	Benzene	ND	10	11.1	ug/L	111	(70-130)	20	0.0
LCS1	Bromobenzene		5.0	5.36	ug/L	107	(70-130)		
LCS2	Bromobenzene		5.0	5.27	ug/L	105	(70-130)	20	1.7
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	Bromobenzene	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Bromobenzene	ND	10	11.0	ug/L	110	(70-130)		
MSD_201502110617	Bromobenzene	ND	10	11.2	ug/L	112	(70-130)	20	0.0
MSD_201502120602	Bromobenzene	ND	10	11.1	ug/L	111	(70-130)	20	0.91
LCS1	Bromochloromethane		5.0	5.50	ug/L	110	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Bromochloromethane		5.0	5.54	ug/L	111	(70-130)	20	0.73
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	Bromochloromethane	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Bromochloromethane	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	Bromochloromethane	ND	10	11.2	ug/L	112	(70-130)	20	0.0
MSD_201502120602	Bromochloromethane	ND	10	11.0	ug/L	110	(70-130)	20	0.91
LCS1	Bromodichloromethane		5.0	5.29	ug/L	106	(70-130)		
LCS2	Bromodichloromethane		5.0	4.98	ug/L	100	(70-130)	20	6.0
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	Bromodichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	Bromodichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MSD_201502110617	Bromodichloromethane	ND	10	11.0	ug/L	110	(70-130)	20	2.8
MSD_201502120602	Bromodichloromethane	ND	10	10.7	ug/L	107	(70-130)	20	0.0
LCS1	Bromoethane		5.0	5.62	ug/L	112	(70-130)		
LCS2	Bromoethane		5.0	5.27	ug/L	105	(70-130)	20	6.4
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Bromoethane	ND	10	12.0	ug/L	120	(70-130)		
MS_201502120602	Bromoethane	ND	10	11.8	ug/L	118	(70-130)		
MSD_201502110617	Bromoethane	ND	10	11.9	ug/L	119	(70-130)	20	0.84
MSD_201502120602	Bromoethane	ND	10	11.7	ug/L	117	(70-130)	20	0.85
LCS1	Bromoform		5.0	6.02	ug/L	120	(70-130)		
LCS2	Bromoform		5.0	6.00	ug/L	120	(70-130)	20	0.33
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	Bromoform	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	Bromoform	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	Bromoform	ND	10	11.8	ug/L	118	(70-130)	20	4.3
MSD_201502120602	Bromoform	ND	10	11.4	ug/L	114	(70-130)	20	4.5
LCS1	Bromomethane (Methyl Bromide)		5.0	5.16	ug/L	103	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	4.87	ug/L	97	(70-130)	20	5.8
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.810	ug/L	**162**	(50-150)		
MS_201502110617	Bromomethane (Methyl Bromide)	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Bromomethane (Methyl Bromide)	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	Bromomethane (Methyl Bromide)	ND	10	10.8	ug/L	108	(70-130)	20	3.6

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201502120602	Bromomethane (Methyl Bromide)	ND	10	10.7	ug/L	107	(70-130)	20	1.9
LCS1	Carbon disulfide		5.0	5.37	ug/L	107	(70-130)		
LCS2	Carbon disulfide		5.0	5.02	ug/L	100	(70-130)	20	6.7
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Carbon disulfide	ND	10	11.7	ug/L	117	(70-130)		
MS_201502120602	Carbon disulfide	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	Carbon disulfide	ND	10	12.1	ug/L	121	(70-130)	20	3.4
MSD_201502120602	Carbon disulfide	ND	10	11.5	ug/L	115	(70-130)	20	1.8
LCS1	Carbon Tetrachloride		5.0	4.37	ug/L	87	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.12	ug/L	82	(70-130)	20	5.9
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.420	ug/L	84	(50-150)		
MS_201502110617	Carbon Tetrachloride	ND	10	10.5	ug/L	105	(70-130)		
MS_201502120602	Carbon Tetrachloride	ND	10	10.8	ug/L	108	(70-130)		
MSD_201502110617	Carbon Tetrachloride	ND	10	11.1	ug/L	111	(70-130)	20	5.6
MSD_201502120602	Carbon Tetrachloride	ND	10	11.1	ug/L	111	(70-130)	20	2.7
LCS1	Chlorobenzene		5.0	5.31	ug/L	106	(70-130)		
LCS2	Chlorobenzene		5.0	5.23	ug/L	105	(70-130)	20	1.5
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Chlorobenzene	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	Chlorobenzene	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	Chlorobenzene	ND	10	11.4	ug/L	114	(70-130)	20	0.0
MSD_201502120602	Chlorobenzene	ND	10	11.1	ug/L	111	(70-130)	20	1.8
LCS1	Chlorodibromomethane		5.0	5.61	ug/L	112	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.31	ug/L	106	(70-130)	20	5.5
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.790	ug/L	**158**	(50-150)		
MS_201502110617	Chlorodibromomethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201502120602	Chlorodibromomethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	Chlorodibromomethane	ND	10	11.1	ug/L	111	(70-130)	20	4.6
MSD_201502120602	Chlorodibromomethane	ND	10	10.4	ug/L	105	(70-130)	20	0.96
LCS1	Chloroethane		5.0	5.23	ug/L	105	(70-130)		
LCS2	Chloroethane		5.0	4.79	ug/L	96	(70-130)	20	8.8
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	Chloroethane	ND	10	11.8	ug/L	118	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502120602	Chloroethane	ND	10	11.7	ug/L	117	(70-130)		
MSD_201502110617	Chloroethane	ND	10	11.9	ug/L	119	(70-130)	20	0.84
MSD_201502120602	Chloroethane	ND	10	11.7	ug/L	117	(70-130)	20	0.0
LCS1	Chloroform (Trichloromethane)		5.0	5.47	ug/L	109	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.17	ug/L	103	(70-130)	20	5.6
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.380	ug/L	76	(50-150)		
MS_201502110617	Chloroform (Trichloromethane)	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Chloroform (Trichloromethane)	ND	10	11.2	ug/L	113	(70-130)		
MSD_201502110617	Chloroform (Trichloromethane)	ND	10	11.4	ug/L	114	(70-130)	20	1.8
MSD_201502120602	Chloroform (Trichloromethane)	ND	10	11.1	ug/L	111	(70-130)	20	1.8
LCS1	Chloromethane(Methyl Chloride)		5.0	5.05	ug/L	101	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	4.86	ug/L	97	(70-130)	20	3.8
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Chloromethane(Methyl Chloride)	ND	10	11.6	ug/L	116	(70-130)		
MS_201502120602	Chloromethane(Methyl Chloride)	ND	10	11.6	ug/L	116	(70-130)		
MSD_201502110617	Chloromethane(Methyl Chloride)	ND	10	11.6	ug/L	116	(70-130)	20	0.0
MSD_201502120602	Chloromethane(Methyl Chloride)	ND	10	11.4	ug/L	114	(70-130)	20	1.7
LCS1	cis-1,2-Dichloroethylene		5.0	5.40	ug/L	108	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.08	ug/L	102	(70-130)	20	6.1
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	cis-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)		
MS_201502120602	cis-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)		
MSD_201502110617	cis-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)	20	0.0
MSD_201502120602	cis-1,2-Dichloroethylene	ND	10	10.5	ug/L	105	(70-130)	20	2.8
LCS1	cis-1,3-Dichloropropene		5.0	4.62	ug/L	92	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	4.63	ug/L	93	(70-130)	20	0.22
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.420	ug/L	84	(50-150)		
MS_201502110617	cis-1,3-Dichloropropene	ND	10	10.5	ug/L	105	(70-130)		
MS_201502120602	cis-1,3-Dichloropropene	ND	10	10.3	ug/L	103	(70-130)		
MSD_201502110617	cis-1,3-Dichloropropene	ND	10	10.7	ug/L	107	(70-130)	20	1.9
MSD_201502120602	cis-1,3-Dichloropropene	ND	10	10.4	ug/L	104	(70-130)	20	0.97
LCS1	Dibromomethane		5.0	5.47	ug/L	109	(70-130)		
LCS2	Dibromomethane		5.0	5.50	ug/L	110	(70-130)	20	0.55
MBLK	Dibromomethane			<0.5	ug/L				

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Laboratory QC
Report: 520151

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Dibromomethane		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	Dibromomethane	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	Dibromomethane	ND	10	11.2	ug/L	112	(70-130)		
MSD_201502110617	Dibromomethane	ND	10	11.4	ug/L	114	(70-130)	20	0.87
MSD_201502120602	Dibromomethane	ND	10	10.9	ug/L	109	(70-130)	20	2.7
LCS1	Dichlorodifluoromethane		5.0	5.32	ug/L	106	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	4.25	ug/L	85	(70-130)	20	**22**
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.490	ug/L	98	(50-150)		
MS_201502110617	Dichlorodifluoromethane	ND	10	13.5	ug/L	**135**	(70-130)		
MS_201502120602	Dichlorodifluoromethane	ND	10	12.7	ug/L	127	(70-130)		
MSD_201502110617	Dichlorodifluoromethane	ND	10	13.4	ug/L	**134**	(70-130)	20	0.74
MSD_201502120602	Dichlorodifluoromethane	ND	10	12.9	ug/L	129	(70-130)	20	1.6
LCS1	Dichloromethane		5.0	5.21	ug/L	104	(70-130)		
LCS2	Dichloromethane		5.0	5.14	ug/L	103	(70-130)	20	1.4
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	Dichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	Dichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MSD_201502110617	Dichloromethane	ND	10	10.8	ug/L	108	(70-130)	20	0.93
MSD_201502120602	Dichloromethane	ND	10	10.6	ug/L	106	(70-130)	20	0.94
LCS1	Di-isopropyl ether		5.0	4.94	ug/L	99	(70-130)		
LCS2	Di-isopropyl ether		5.0	4.72	ug/L	94	(70-130)	20	4.5
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	Di-isopropyl ether	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	Di-isopropyl ether	ND	10	10.2	ug/L	102	(70-130)		
MSD_201502110617	Di-isopropyl ether	ND	10	10.3	ug/L	103	(70-130)	20	0.98
MSD_201502120602	Di-isopropyl ether	ND	10	10.2	ug/L	102	(70-130)	20	0.0
LCS1	Ethyl benzene		5.0	5.49	ug/L	110	(70-130)		
LCS2	Ethyl benzene		5.0	5.26	ug/L	105	(70-130)	20	4.3
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Ethyl benzene	ND	10	11.8	ug/L	118	(70-130)		
MS_201502120602	Ethyl benzene	ND	10	11.7	ug/L	117	(70-130)		
MSD_201502110617	Ethyl benzene	ND	10	11.8	ug/L	118	(70-130)	20	0.0
MSD_201502120602	Ethyl benzene	ND	10	11.6	ug/L	116	(70-130)	20	0.86
LCS1	Hexachlorobutadiene		5.0	5.26	ug/L	105	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Hexachlorobutadiene		5.0	5.09	ug/L	102	(70-130)	20	3.3
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	Hexachlorobutadiene	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	Hexachlorobutadiene	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	Hexachlorobutadiene	ND	10	11.6	ug/L	116	(70-130)	20	0.87
MSD_201502120602	Hexachlorobutadiene	ND	10	11.3	ug/L	113	(70-130)	20	0.0
LCS1	Isopropylbenzene		5.0	5.27	ug/L	105	(70-130)		
LCS2	Isopropylbenzene		5.0	5.12	ug/L	102	(70-130)	20	2.9
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.490	ug/L	98	(50-150)		
MS_201502110617	Isopropylbenzene	ND	10	12.1	ug/L	121	(70-130)		
MS_201502120602	Isopropylbenzene	ND	10	11.9	ug/L	119	(70-130)		
MSD_201502110617	Isopropylbenzene	ND	10	12.0	ug/L	120	(70-130)	20	0.83
MSD_201502120602	Isopropylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	1.7
LCS1	m,p-Xylenes		10	11.3	ug/L	113	(70-130)		
LCS2	m,p-Xylenes		10	10.8	ug/L	108	(70-130)	20	4.5
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.02	ug/L	102	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	m,p-Xylenes	ND	20	24.2	ug/L	121	(70-130)		
MS_201502120602	m,p-Xylenes	ND	20	23.8	ug/L	119	(70-130)		
MSD_201502110617	m,p-Xylenes	ND	20	24.0	ug/L	120	(70-130)	20	0.41
MSD_201502120602	m,p-Xylenes	ND	20	23.6	ug/L	118	(70-130)	20	0.84
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.50	ug/L	110	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.39	ug/L	108	(70-130)	20	2.0
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	m-Dichlorobenzene (1,3-DCB)	ND	10	11.4	ug/L	115	(70-130)		
MS_201502120602	m-Dichlorobenzene (1,3-DCB)	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	m-Dichlorobenzene (1,3-DCB)	ND	10	11.2	ug/L	112	(70-130)	20	2.6
MSD_201502120602	m-Dichlorobenzene (1,3-DCB)	ND	10	11.2	ug/L	112	(70-130)	20	0.90
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.01	ug/L	100	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.82	ug/L	96	(70-130)	20	3.9
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Methyl Tert-butyl ether (MTBE)	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	Methyl Tert-butyl ether (MTBE)	ND	10	10.1	ug/L	101	(70-130)		

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201502110617	Methyl Tert-butyl ether (MTBE)	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201502120602	Methyl Tert-butyl ether (MTBE)	ND	10	10.0	ug/L	100	(70-130)	20	1
LCS1	Naphthalene		5.0	5.09	ug/L	102	(70-130)		
LCS2	Naphthalene		5.0	4.83	ug/L	97	(70-130)	20	5.2
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	Naphthalene	ND	10	10.3	ug/L	103	(70-130)		
MS_201502120602	Naphthalene	ND	10	10.1	ug/L	101	(70-130)		
MSD_201502110617	Naphthalene	ND	10	10.5	ug/L	105	(70-130)	20	1.9
MSD_201502120602	Naphthalene	ND	10	10.2	ug/L	102	(70-130)	20	0.99
LCS1	n-Butylbenzene		5.0	5.44	ug/L	109	(70-130)		
LCS2	n-Butylbenzene		5.0	5.15	ug/L	103	(70-130)	20	5.5
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	n-Butylbenzene	ND	10	12.0	ug/L	120	(70-130)		
MS_201502120602	n-Butylbenzene	ND	10	11.8	ug/L	118	(70-130)		
MSD_201502110617	n-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	0.83
MSD_201502120602	n-Butylbenzene	ND	10	11.7	ug/L	117	(70-130)	20	0.85
LCS1	n-Propylbenzene		5.0	5.28	ug/L	106	(70-130)		
LCS2	n-Propylbenzene		5.0	5.09	ug/L	102	(70-130)	20	3.7
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	n-Propylbenzene	ND	10	12.3	ug/L	123	(70-130)		
MS_201502120602	n-Propylbenzene	ND	10	11.9	ug/L	119	(70-130)		
MSD_201502110617	n-Propylbenzene	ND	10	12.2	ug/L	122	(70-130)	20	0.82
MSD_201502120602	n-Propylbenzene	ND	10	12.2	ug/L	122	(70-130)	20	2.5
LCS1	o-Chlorotoluene		5.0	5.54	ug/L	111	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.28	ug/L	106	(70-130)	20	4.8
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	o-Chlorotoluene	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	o-Chlorotoluene	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	o-Chlorotoluene	ND	10	11.3	ug/L	113	(70-130)	20	0.88
MSD_201502120602	o-Chlorotoluene	ND	10	11.4	ug/L	114	(70-130)	20	0.88
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.37	ug/L	107	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.15	ug/L	103	(70-130)	20	4.2
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.600	ug/L	120	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502110617	o-Dichlorobenzene (1,2-DCB)	ND	10	10.6	ug/L	106	(70-130)		
MS_201502120602	o-Dichlorobenzene (1,2-DCB)	ND	10	10.6	ug/L	106	(70-130)		
MSD_201502110617	o-Dichlorobenzene (1,2-DCB)	ND	10	10.7	ug/L	107	(70-130)	20	0.94
MSD_201502120602	o-Dichlorobenzene (1,2-DCB)	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	o-Xylene		5.0	5.42	ug/L	108	(70-130)		
LCS2	o-Xylene		5.0	5.18	ug/L	104	(70-130)	20	4.5
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	o-Xylene	ND	10	11.7	ug/L	117	(70-130)		
MS_201502120602	o-Xylene	ND	10	11.7	ug/L	117	(70-130)		
MSD_201502110617	o-Xylene	ND	10	11.6	ug/L	116	(70-130)	20	0.86
MSD_201502120602	o-Xylene	ND	10	11.5	ug/L	115	(70-130)	20	1.7
LCS1	p-Chlorotoluene		5.0	5.57	ug/L	111	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.40	ug/L	108	(70-130)	20	3.1
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	p-Chlorotoluene	ND	10	12.1	ug/L	121	(70-130)		
MS_201502120602	p-Chlorotoluene	ND	10	11.6	ug/L	116	(70-130)		
MSD_201502110617	p-Chlorotoluene	ND	10	11.8	ug/L	118	(70-130)	20	2.5
MSD_201502120602	p-Chlorotoluene	ND	10	11.8	ug/L	118	(70-130)	20	1.7
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.64	ug/L	113	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.42	ug/L	108	(70-130)	20	4.0
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	p-Dichlorobenzene (1,4-DCB)	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	p-Dichlorobenzene (1,4-DCB)	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	p-Dichlorobenzene (1,4-DCB)	ND	10	11.3	ug/L	113	(70-130)	20	0.88
MSD_201502120602	p-Dichlorobenzene (1,4-DCB)	ND	10	11.0	ug/L	111	(70-130)	20	0.0
LCS1	p-Isopropyltoluene		5.0	5.63	ug/L	113	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.35	ug/L	107	(70-130)	20	5.1
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	p-Isopropyltoluene	ND	10	12.4	ug/L	124	(70-130)		
MS_201502120602	p-Isopropyltoluene	ND	10	12.2	ug/L	122	(70-130)		
MSD_201502110617	p-Isopropyltoluene	ND	10	12.4	ug/L	124	(70-130)	20	0.0
MSD_201502120602	p-Isopropyltoluene	ND	10	12.2	ug/L	122	(70-130)	20	0.0
LCS1	sec-Butylbenzene		5.0	5.41	ug/L	108	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.17	ug/L	103	(70-130)	20	4.5

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	sec-Butylbenzene	ND	10	12.2	ug/L	122	(70-130)		
MS_201502120602	sec-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)		
MSD_201502110617	sec-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	0.82
MSD_201502120602	sec-Butylbenzene	ND	10	12.0	ug/L	120	(70-130)	20	0.83
LCS1	Styrene		5.0	5.47	ug/L	109	(70-130)		
LCS2	Styrene		5.0	5.31	ug/L	106	(70-130)	20	3.0
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.470	ug/L	94	(50-150)		
MS_201502110617	Styrene	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	Styrene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	Styrene	ND	10	11.2	ug/L	112	(70-130)	20	0.89
MSD_201502120602	Styrene	ND	10	10.2	ug/L	102	(70-130)	20	1.9
LCS1	tert-amyl Methyl Ether		5.0	4.94	ug/L	99	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.87	ug/L	97	(70-130)	20	1.4
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	tert-amyl Methyl Ether	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	tert-amyl Methyl Ether	ND	10	10.1	ug/L	101	(70-130)		
MSD_201502110617	tert-amyl Methyl Ether	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201502120602	tert-amyl Methyl Ether	ND	10	10.3	ug/L	103	(70-130)	20	2.0
LCS1	tert-Butyl Ethyl Ether		5.0	4.95	ug/L	99	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	4.87	ug/L	97	(70-130)	20	1.6
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	tert-Butyl Ethyl Ether	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	tert-Butyl Ethyl Ether	ND	10	10.2	ug/L	102	(70-130)		
MSD_201502110617	tert-Butyl Ethyl Ether	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201502120602	tert-Butyl Ethyl Ether	ND	10	10.2	ug/L	102	(70-130)	20	0.0
LCS1	tert-Butylbenzene		5.0	5.23	ug/L	105	(70-130)		
LCS2	tert-Butylbenzene		5.0	5.14	ug/L	103	(70-130)	20	1.7
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	tert-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)		
MS_201502120602	tert-Butylbenzene	ND	10	11.8	ug/L	119	(70-130)		
MSD_201502110617	tert-Butylbenzene	ND	10	12.0	ug/L	119	(70-130)	20	0.83
MSD_201502120602	tert-Butylbenzene	ND	10	12.0	ug/L	120	(70-130)	20	0.84

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Laboratory QC
Report: 520151

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Tetrachloroethylene (PCE)		5.0	5.17	ug/L	103	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.82	ug/L	96	(70-130)	20	7.0
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	Tetrachloroethylene (PCE)	ND	10	11.9	ug/L	119	(70-130)		
MS_201502120602	Tetrachloroethylene (PCE)	ND	10	11.6	ug/L	116	(70-130)		
MSD_201502110617	Tetrachloroethylene (PCE)	ND	10	11.8	ug/L	118	(70-130)	20	0.84
MSD_201502120602	Tetrachloroethylene (PCE)	ND	10	11.6	ug/L	116	(70-130)	20	0.0
LCS1	Toluene		5.0	5.43	ug/L	109	(70-130)		
LCS2	Toluene		5.0	5.16	ug/L	103	(70-130)	20	5.1
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	Toluene	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	Toluene	ND	10	11.4	ug/L	114	(70-130)		
MSD_201502110617	Toluene	ND	10	11.4	ug/L	114	(70-130)	20	0.88
MSD_201502120602	Toluene	ND	10	11.2	ug/L	112	(70-130)	20	1.8
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			102	%	102	(70-130)		
MBLK	Toluene-d8 (S)			97.2	%	97	(70-130)		
MRL_CHK	Toluene-d8 (S)			100	%	100	(70-130)		
MRLLW	Toluene-d8 (S)			99.0	%	99	(70-130)		
MS_201502110617	Toluene-d8 (S)			103	%	103	(70-130)		
MS_201502120602	Toluene-d8 (S)			102	%	102	(70-130)		
MSD_201502110617	Toluene-d8 (S)			104	%	104	(70-130)		
MSD_201502120602	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.11	ug/L	102	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.93	ug/L	99	(70-130)	20	3.6
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	trans-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(70-130)		
MS_201502120602	trans-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(70-130)		
MSD_201502110617	trans-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(70-130)	20	0.0
MSD_201502120602	trans-1,2-Dichloroethylene	ND	10	10.9	ug/L	109	(70-130)	20	0.91
LCS1	trans-1,3-Dichloropropene		5.0	4.81	ug/L	96	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	4.71	ug/L	94	(70-130)	20	2.1
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.660	ug/L	132	(50-150)		
MS_201502110617	trans-1,3-Dichloropropene	ND	10	9.50	ug/L	95	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502120602	trans-1,3-Dichloropropene	ND	10	9.16	ug/L	92	(70-130)		
MSD_201502110617	trans-1,3-Dichloropropene	ND	10	9.92	ug/L	99	(70-130)	20	4.3
MSD_201502120602	trans-1,3-Dichloropropene	ND	10	9.39	ug/L	94	(70-130)	20	2.5
LCS1	Trichloroethylene (TCE)		5.0	5.33	ug/L	107	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.91	ug/L	98	(70-130)	20	8.2
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	Trichloroethylene (TCE)	0.78	10	12.2	ug/L	115	(70-130)		
MS_201502120602	Trichloroethylene (TCE)	1.7	10	13.0	ug/L	113	(70-130)		
MSD_201502110617	Trichloroethylene (TCE)	0.78	10	12.1	ug/L	114	(70-130)	20	0.82
MSD_201502120602	Trichloroethylene (TCE)	1.7	10	12.9	ug/L	112	(70-130)	20	0.77
LCS1	Trichlorofluoromethane		5.0	4.64	ug/L	93	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.42	ug/L	88	(70-130)	20	4.9
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Trichlorofluoromethane	ND	10	12.6	ug/L	126	(70-130)		
MS_201502120602	Trichlorofluoromethane	ND	10	12.8	ug/L	128	(70-130)		
MSD_201502110617	Trichlorofluoromethane	ND	10	12.8	ug/L	128	(70-130)	20	1.6
MSD_201502120602	Trichlorofluoromethane	ND	10	13.1	ug/L	**131**	(70-130)	20	2.3
LCS1	Trichlorotrifluoroethane(Freon		5.0	4.49	ug/L	90	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	4.39	ug/L	88	(70-130)	20	2.3
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	Trichlorotrifluoroethane(Freon	ND	10	12.5	ug/L	125	(70-130)		
MS_201502120602	Trichlorotrifluoroethane(Freon	ND	10	12.6	ug/L	126	(70-130)		
MSD_201502110617	Trichlorotrifluoroethane(Freon	ND	10	12.5	ug/L	125	(70-130)	20	0.0
MSD_201502120602	Trichlorotrifluoroethane(Freon	ND	10	12.4	ug/L	124	(70-130)	20	1.6
LCS1	Vinyl chloride (VC)		5.0	4.83	ug/L	97	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.47	ug/L	89	(70-130)	20	7.7
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.520	ug/L	104	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.240	ug/L	96	(50-150)		
MS_201502110617	Vinyl chloride (VC)	ND	10	11.6	ug/L	116	(70-130)		
MS_201502120602	Vinyl chloride (VC)	ND	10	11.4	ug/L	114	(70-130)		
MSD_201502110617	Vinyl chloride (VC)	ND	10	11.5	ug/L	115	(70-130)	20	0.87
MSD_201502120602	Vinyl chloride (VC)	ND	10	11.2	ug/L	112	(70-130)	20	1.8

QC Ref# 820982 - ICPMS Metals by EPA 200.8 **Analysis Date: 02/18/2015**

LCS1	Chromium Total ICAP/MS		100	98.9	ug/L	99	(85-115)		

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chromium Total ICAP/MS		100	97.2	ug/L	97	(85-115)	20	1.7
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.934	ug/L	94	(50-150)		
MS_201502110572	Chromium Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		
MS2_201502120356	Chromium Total ICAP/MS	ND	100	96.6	ug/L	96	(70-130)		
MSD_201502110572	Chromium Total ICAP/MS	ND	100	97.3	ug/L	97	(70-130)	20	0.52
MSD2_201502120356	Chromium Total ICAP/MS	ND	100	93.6	ug/L	93	(70-130)	20	3.1
QC Ref# 821280 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 02/17/2015**			
CCCH	1,4-Dioxane		50	50.0	ug/L	100	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0840	ug/L	120	(50-150)		
CCCM	1,4-Dioxane		20	19.8	ug/L	99	(70-130)		
LCS1	1,4-Dioxane		20	19.0	ug/L	95	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0610	ug/L	87	(50-150)		
MS1_201502100474	1,4-Dioxane	ND	0.07	0.0720	ug/L	91	(50-150)		
MSD1_201502100474	1,4-Dioxane	ND	0.07	0.0690	ug/L	87	(50-150)	20	4.3
CCCH	Dioxane-d8			104	%	104	(70-130)		
CCCL	Dioxane-d8			110	%	110	(70-130)		
CCCM	Dioxane-d8			101	%	101	(70-130)		
LCS1	Dioxane-d8			95.5	%	96	(70-130)		
MBLK	Dioxane-d8			90.1	%				
MRL_CHK	Dioxane-d8			95.5	%	95	(70-130)		
MS1_201502100474	Dioxane-d8	96		104	%	104	(70-130)		
MSD1_201502100474	Dioxane-d8	96		99.8	%	100	(70-130)		
CCCH	THF-d8			103	%	103	(50-150)		
CCCL	THF-d8			95.3	%	95	(50-150)		
CCCM	THF-d8			102	%	102	(50-150)		
LCS1	THF-d8			104	%	104	(50-150)		
MBLK	THF-d8			116	%				
MRL_CHK	THF-d8			108	%	109	(50-150)		
MS1_201502100474	THF-d8	104		94.2	%	94	(50-150)		
MSD1_201502100474	THF-d8	104		109	%	109	(50-150)		

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NELAP ACCREDITED TNI LABORATORY ORELAP 4034

ilac-MRA

ACLASS ACCREDITED TESTING AT-1807

Laboratory Report

for

Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
Attention: Marie Light
Fax: 520-838-7432

Date of Issue
02/27/2015

Eurofins Eaton Analytical

TDF: Thomas.D.French

Project Manager

Report: 520407
Project: PCDEQ-GW
ADHS License #: AZ0778
Group: Groundwater/Day 2

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* This report shall not be reproduced except in full, without the written approval of the laboratory.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2014-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
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Guam	14-003r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-7
Kansas *	E-10268	**Utah ***	CA000062014-7
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	460260
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

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The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Sulfite	SM 4500-SO^3B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Acknowledgement of Samples Received

Addr: **Pima County DEQ**
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Client ID: PIMA-AZ
Folder #: 520407
Project: PCDEQ-GW
Sample Group: Groundwater/Day 2

Attn: Marie Light
Phone: 520-724-7457

Project Manager: Thomas.D.French
Phone: (480) 778-1558

The following samples were received from you on **February 12, 2015** at **1724**. 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 Eurofins Eaton Analytical.

Sample #	Sample ID			Sample Date
201502120598	2015-PW-12-01			02/11/2015 0846
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
	Sample Return			
201502120599	2015-PW-12-02			02/11/2015 0914
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120600	2015-PW-12-02F			02/11/2015 0925
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120601	2015-PW-11-01			02/11/2015 1005
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120602	2015-PW-11-02			02/11/2015 1036
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120603	2015-PW-11-02L MS			02/11/2015 1040
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120604	2015-PW-11-02L MSD			02/11/2015 1045
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120605	2015-TB-02			02/11/2015 0846
	@VOASDWA TB			

Test Description

@UCMR3 522 -- UCMR3 1,4-Dioxane by EPA 522

@VOASDWA -- Volatile Organics by GCMS

@VOASDWA TB -- Volatile Organics by GCMS

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

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CHAIN OF CUSTODY RECORD

526407

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: NE

SAMPLES LOGGED IN BY: W

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

SAMPLE TEMP RECEIVED AT:

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 3.2-0.3 2.9 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice ✓ No Ice _____

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

6264 5070 3880

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Pima County Dept of Env. Qual.

PROJECT CODE: PCDEQ-GW

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Groundwater / Day 2

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms ☐

NON-COMPLIANCE SAMPLES ✓ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): **ROUTINE SPECIAL CONFIRMATION** (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ✓ (check for yes), ***OR***

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

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	EPA 200.8	EPA 524.2	EPA 522	SAMPLER COMMENTS
2/11	8:46	2015-PW-12-01		RGW			1	3	3	
2/11	9:14	2015-PW-12-02		"			1	3	3	
2/11	9:25	2015-PW-12-02F		"			1	3	3	
2/11	10:05	2015-PW-11-01		"			1	3	3	
2/11	10:36	2015-PW-11-02		"			1	3	3	
2/11	10:40	2015-PW-11-02LMS		"			1	3	3	
2/11	10:45	2015-PW-11-02LMSD		"			1	3	3	

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	Marie Light	Pima County/Principal Hydrologist	02/11/2015	12:01PM
RELINQUISHED BY:					
RECEIVED BY:		Maria Escalante	EEA	2/12/15	17:24
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029 (06/26/2013)

PAGE 1 OF 1

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formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Pima County DEQ

Thomas.D.French is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 104017
Created By: TDF
Deliver By: 02/05/2015
STG: Bottle Orders
Ice Type: W

Client ID: PIMA-AZ
Project Code: PCDEQ-GW Bottle Orders
Group Name: Groundwater/Day 2
PO#/JOB#:

Ship Sample Kits to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

Send Report to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

Billing Address
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if a	UN DOT #
10	@UCMR3 522	3 125ml amber glass 6.25 Sulfite +125 mg Bisulfite	
10	@VOASDWA	3 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
1	@VOASDWA TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
10	Chromium Total ICAP/MS	1 500ml acid poly 2ml HNO3 (18%)	UN2031

Comments

PCDEQ - Groundwater Day 2. COC (2) , bags for use of wet ice for sample refrigeration upon return shipment, Wet Ice Sampling/packing insructions. Return Shipment. Do not crowd sample kits for delivery to client. Delivery is needed to client by 02/05/15.

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

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Laboratory Comments
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Flags Legend:

L3 - The associated blank spike recovery was above method acceptance limits.

M1 - Matrix spike recovery was high; the associated blank spike recovery was acceptable.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

The Comments Report may be blank if there are no comments for this report.

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1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Samples Received on:
02/12/2015 1724

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201502120598	**2015-PW-12-01**				
02/16/2015 17:39	Chromium Total ICAP/MS		5.4	100	ug/L	1
02/16/2015 18:34	Trichloroethylene (TCE)		0.71	5	ug/L	0.5
	201502120599	**2015-PW-12-02**				
02/16/2015 17:54	Chromium Total ICAP/MS		5.5	100	ug/L	1
02/16/2015 18:56	Trichloroethylene (TCE)		0.68	5	ug/L	0.5
	201502120600	**2015-PW-12-02F**				
02/19/2015 9:43	Chloroform (Trichloromethane)		1.9		ug/L	0.5
02/19/2015 9:43	Total THM		1.9	80	ug/L	0.5
	201502120601	**2015-PW-11-01**				
02/20/2015 15:39	1,4-Dioxane		1.5		ug/L	0.07
02/16/2015 19:18	Trichloroethylene (TCE)		1.7	5	ug/L	0.5
	201502120602	**2015-PW-11-02**				
02/20/2015 15:55	1,4-Dioxane		1.4		ug/L	0.07
02/18/2015 16:39	Chromium Total ICAP/MS		5.5	100	ug/L	1
02/16/2015 19:40	Trichloroethylene (TCE)		1.7	5	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

2015-PW-12-01 (201502120598) **Sampled on 02/11/2015 0846**

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
		EPA 200.8 - ICPMS Metals						
2/12/2015	02/16/2015 17:39	820669	(EPA 200.8)	Chromium Total ICAP/MS	5.4	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
2/19/2015	02/20/2015 14:51	821889	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS						
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1

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

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

Laboratory Data
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

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

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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Trichloroethylene (TCE)	0.71	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-12-02 (201502120599)							**Sampled on**	**02/11/2015 0914**	
		EPA 200.8 - ICPMS Metals							
2/12/2015	02/16/2015	17:54	820669	(EPA 200.8)	Chromium Total ICAP/MS	5.5	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/19/2015	02/20/2015	15:07	821889	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1

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Samples Received on:
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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Trichloroethylene (TCE)	0.68	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-12-02F (201502120600)							**Sampled on**	**02/11/2015 0925**	
		EPA 200.8 - ICPMS Metals							
2/12/2015	02/16/2015	17:33	820669	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/19/2015	02/20/2015	15:23	821889	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Samples Received on:
02/12/2015 1724

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Chloroform (Trichloromethane)	1.9	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Total THM	1.9	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-11-01 (201502120601)							**Sampled on**	**02/11/2015 1005**	
		EPA 200.8 - ICPMS Metals							
2/12/2015	02/16/2015	17:35	820669	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/19/2015	02/20/2015	15:39	821889	(EPA 522)	1,4-Dioxane	1.5	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1

Rounding on totals after summation.
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Laboratory Data
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Trichloroethylene (TCE)	1.7	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-11-02 (201502120602)							**Sampled on**	**02/11/2015 1036**	
		EPA 200.8 - ICPMS Metals							
2/12/2015	02/18/2015	16:39	820982	(EPA 200.8)	Chromium Total ICAP/MS	5.5	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/19/2015	02/20/2015	15:55	821889	(EPA 522)	1,4-Dioxane	1.4	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1

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2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Trichloroethylene (TCE)	1.7	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Trichlorofluoromethane	ND (M1)	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

2015-TB-02 (201502120605) **Sampled on 02/11/2015 0846**

EPA 524.2 - Volatile Organics by GCMS

2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1

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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 21:07	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

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QC Summary: 520407

Pima County DEQ

QC Ref # 820669 - ICPMS Metals **Analysis Date: 02/16/2015**

201502120598	2015-PW-12-01	Analyzed by: SXK
201502120599	2015-PW-12-02	Analyzed by: SXK
201502120600	2015-PW-12-02F	Analyzed by: SXK
201502120601	2015-PW-11-01	Analyzed by: SXK

QC Ref # 820687 - Volatile Organics by GCMS **Analysis Date: 02/16/2015**

201502120598	2015-PW-12-01	Analyzed by: KCP
201502120599	2015-PW-12-02	Analyzed by: KCP
201502120601	2015-PW-11-01	Analyzed by: KCP
201502120602	2015-PW-11-02	Analyzed by: KCP
201502120603	2015-PW-11-02L MS	Analyzed by: KCP
201502120604	2015-PW-11-02L MSD	Analyzed by: KCP
201502120605	2015-TB-02	Analyzed by: KCP

QC Ref # 820982 - ICPMS Metals **Analysis Date: 02/18/2015**

201502120602	2015-PW-11-02	Analyzed by: SXK
201502120603	2015-PW-11-02L MS	Analyzed by: SXK
201502120604	2015-PW-11-02L MSD	Analyzed by: SXK

QC Ref # 821448 - Volatile Organics by GCMS **Analysis Date: 02/19/2015**

201502120600	2015-PW-12-02F	Analyzed by: KAM

QC Ref # 821889 - UCMR3 1,4-Dioxane by EPA 522 **Analysis Date: 02/20/2015**

201502120598	2015-PW-12-01	Analyzed by: CRW
201502120599	2015-PW-12-02	Analyzed by: CRW
201502120600	2015-PW-12-02F	Analyzed by: CRW
201502120601	2015-PW-11-01	Analyzed by: CRW
201502120602	2015-PW-11-02	Analyzed by: CRW
201502120603	2015-PW-11-02L MS	Analyzed by: CRW
201502120604	2015-PW-11-02L MSD	Analyzed by: CRW

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Laboratory QC
Report: 520407

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 820669 - ICPMS Metals by EPA 200.8						**Analysis Date: 02/16/2015**			
LCS1	Chromium Total ICAP/MS		100	95.3	ug/L	95	(85-115)		
LCS2	Chromium Total ICAP/MS		100	93.4	ug/L	93	(85-115)	20	2.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.857	ug/L	86	(50-150)		
MS_201502120682	Chromium Total ICAP/MS	1.1	100	107	ug/L	106	(70-130)		
MS2_201501230313	Chromium Total ICAP/MS	ND	100	100	ug/L	100	(70-130)		
MSD_201502120682	Chromium Total ICAP/MS	1.1	100	107	ug/L	106	(70-130)	20	0.0
MSD2_201501230313	Chromium Total ICAP/MS	ND	100	103	ug/L	102	(70-130)	20	3.0
QC Ref# 820687 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/16/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	4.95	ug/L	99	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	4.72	ug/L	94	(70-130)	20	4.8
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.460	ug/L	92	(50-150)		
MS_201502110617	1,1,1,2-Tetrachloroethane	ND	10	10.5	ug/L	105	(70-130)		
MS_201502120602	1,1,1,2-Tetrachloroethane	ND	10	10.3	ug/L	103	(70-130)		
MSD_201502110617	1,1,1,2-Tetrachloroethane	ND	10	11.2	ug/L	112	(70-130)	20	6.5
MSD_201502120602	1,1,1,2-Tetrachloroethane	ND	10	10.6	ug/L	106	(70-130)	20	2.9
LCS1	1,1,1-Trichloroethane		5.0	5.02	ug/L	100	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.66	ug/L	93	(70-130)	20	7.4
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	1,1,1-Trichloroethane	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	1,1,1-Trichloroethane	ND	10	11.4	ug/L	114	(70-130)		
MSD_201502110617	1,1,1-Trichloroethane	ND	10	11.7	ug/L	117	(70-130)	20	2.6
MSD_201502120602	1,1,1-Trichloroethane	ND	10	11.6	ug/L	116	(70-130)	20	1.7
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.14	ug/L	103	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	5.22	ug/L	104	(70-130)	20	1.5
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	1,1,2,2-Tetrachloroethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	1,1,2,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	1,1,2,2-Tetrachloroethane	ND	10	10.5	ug/L	105	(70-130)	20	1.9
MSD_201502120602	1,1,2,2-Tetrachloroethane	ND	10	10.6	ug/L	106	(70-130)	20	1.9
LCS1	1,1,2-Trichloroethane		5.0	5.24	ug/L	105	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.91	ug/L	98	(70-130)	20	6.5
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				

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

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,1,2-Trichloroethane		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	1,1,2-Trichloroethane	ND	10	10.8	ug/L	108	(70-130)		
MS_201502120602	1,1,2-Trichloroethane	ND	10	10.7	ug/L	107	(70-130)		
MSD_201502110617	1,1,2-Trichloroethane	ND	10	10.7	ug/L	107	(70-130)	20	0.93
MSD_201502120602	1,1,2-Trichloroethane	ND	10	10.6	ug/L	106	(70-130)	20	0.94
LCS1	1,1-Dichloroethane		5.0	4.94	ug/L	99	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.78	ug/L	96	(70-130)	20	3.3
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	1,1-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201502120602	1,1-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)		
MSD_201502110617	1,1-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)	20	0.0
MSD_201502120602	1,1-Dichloroethane	ND	10	10.5	ug/L	105	(70-130)	20	0.95
LCS1	1,1-Dichloroethylene		5.0	4.78	ug/L	96	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.55	ug/L	91	(70-130)	20	4.9
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
MS_201502110617	1,1-Dichloroethylene	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	1,1-Dichloroethylene	ND	10	11.4	ug/L	115	(70-130)		
MSD_201502110617	1,1-Dichloroethylene	ND	10	11.6	ug/L	116	(70-130)	20	0.87
MSD_201502120602	1,1-Dichloroethylene	ND	10	11.4	ug/L	114	(70-130)	20	0.87
LCS1	1,1-Dichloropropene		5.0	4.93	ug/L	99	(70-130)		
LCS2	1,1-Dichloropropene		5.0	4.76	ug/L	95	(70-130)	20	3.5
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	1,1-Dichloropropene	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	1,1-Dichloropropene	ND	10	11.5	ug/L	115	(70-130)		
MSD_201502110617	1,1-Dichloropropene	ND	10	11.5	ug/L	115	(70-130)	20	0.0
MSD_201502120602	1,1-Dichloropropene	ND	10	11.1	ug/L	111	(70-130)	20	3.5
LCS1	1,2,3-Trichlorobenzene		5.0	5.20	ug/L	104	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.01	ug/L	100	(70-130)	20	3.7
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.620	ug/L	124	(50-150)		
MS_201502110617	1,2,3-Trichlorobenzene	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	1,2,3-Trichlorobenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	1,2,3-Trichlorobenzene	ND	10	10.8	ug/L	108	(70-130)	20	0.93
MSD_201502120602	1,2,3-Trichlorobenzene	ND	10	10.5	ug/L	105	(70-130)	20	0.96
LCS1	1,2,3-Trichloropropane		5.0	5.02	ug/L	100	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,2,3-Trichloropropane		5.0	5.13	ug/L	103	(70-130)	20	2.2
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	1,2,3-Trichloropropane	ND	10	9.91	ug/L	99	(70-130)		
MS_201502120602	1,2,3-Trichloropropane	ND	10	9.99	ug/L	100	(70-130)		
MSD_201502110617	1,2,3-Trichloropropane	ND	10	10.2	ug/L	102	(70-130)	20	2.9
MSD_201502120602	1,2,3-Trichloropropane	ND	10	10.1	ug/L	101	(70-130)	20	1.1
LCS1	1,2,4-Trichlorobenzene		5.0	5.19	ug/L	104	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	5.00	ug/L	100	(70-130)	20	3.7
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	1,2,4-Trichlorobenzene	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	1,2,4-Trichlorobenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	1,2,4-Trichlorobenzene	ND	10	10.9	ug/L	109	(70-130)	20	1.9
MSD_201502120602	1,2,4-Trichlorobenzene	ND	10	10.5	ug/L	105	(70-130)	20	0.96
LCS1	1,2,4-Trimethylbenzene		5.0	5.62	ug/L	112	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.43	ug/L	109	(70-130)	20	3.4
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.490	ug/L	98	(50-150)		
MS_201502110617	1,2,4-Trimethylbenzene	ND	10	11.7	ug/L	117	(70-130)		
MS_201502120602	1,2,4-Trimethylbenzene	ND	10	11.2	ug/L	112	(70-130)		
MSD_201502110617	1,2,4-Trimethylbenzene	ND	10	11.5	ug/L	115	(70-130)	20	1.7
MSD_201502120602	1,2,4-Trimethylbenzene	ND	10	11.3	ug/L	113	(70-130)	20	0.89
LCS1	1,2-Dichloroethane		5.0	5.51	ug/L	110	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.25	ug/L	105	(70-130)	20	4.8
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	1,2-Dichloroethane	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	1,2-Dichloroethane	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	1,2-Dichloroethane	ND	10	11.2	ug/L	112	(70-130)	20	1.8
MSD_201502120602	1,2-Dichloroethane	ND	10	10.8	ug/L	108	(70-130)	20	2.7
LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			109	%	109	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201502110617	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201502120602	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		

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Laboratory QC
Report: 520407

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201502110617	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MSD_201502120602	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.26	ug/L	105	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.14	ug/L	103	(70-130)	20	2.3
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	1,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)		
MS_201502120602	1,2-Dichloropropane	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	1,2-Dichloropropane	ND	10	11.1	ug/L	111	(70-130)	20	0.91
MSD_201502120602	1,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)	20	0.91
LCS1	1,3,5-Trimethylbenzene		5.0	5.60	ug/L	112	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.46	ug/L	109	(70-130)	20	2.5
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	1,3,5-Trimethylbenzene	ND	10	12.4	ug/L	124	(70-130)		
MS_201502120602	1,3,5-Trimethylbenzene	ND	10	12.2	ug/L	122	(70-130)		
MSD_201502110617	1,3,5-Trimethylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	2.5
MSD_201502120602	1,3,5-Trimethylbenzene	ND	10	12.2	ug/L	122	(70-130)	20	0.0
LCS1	1,3-Dichloropropane		5.0	5.22	ug/L	104	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.17	ug/L	103	(70-130)	20	0.96
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	1,3-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)		
MS_201502120602	1,3-Dichloropropane	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	1,3-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)	20	0.0
MSD_201502120602	1,3-Dichloropropane	ND	10	10.6	ug/L	106	(70-130)	20	2.8
LCS1	2,2-Dichloropropane		5.0	5.20	ug/L	104	(70-130)		
LCS2	2,2-Dichloropropane		5.0	4.89	ug/L	98	(70-130)	20	6.1
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	2,2-Dichloropropane	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	2,2-Dichloropropane	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	2,2-Dichloropropane	ND	10	11.8	ug/L	118	(70-130)	20	4.3
MSD_201502120602	2,2-Dichloropropane	ND	10	11.1	ug/L	111	(70-130)	20	1.8
LCS1	2-Butanone (MEK)		50	48.4	ug/L	97	(70-130)		
LCS2	2-Butanone (MEK)		50	48.0	ug/L	96	(70-130)	20	0.83
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.69	ug/L	114	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502110617	2-Butanone (MEK)	ND	100	97.9	ug/L	98	(70-130)		
MS_201502120602	2-Butanone (MEK)	ND	100	95.6	ug/L	96	(70-130)		
MSD_201502110617	2-Butanone (MEK)	ND	100	96.5	ug/L	97	(70-130)	20	1.4
MSD_201502120602	2-Butanone (MEK)	ND	100	93.5	ug/L	94	(70-130)	20	2.2
LCS1	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			106	%	106	(70-130)		
MBLK	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MS_201502110617	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
MS_201502120602	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MSD_201502110617	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MSD_201502120602	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	51.0	ug/L	102	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	50.5	ug/L	101	(70-130)	20	0.99
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.11	ug/L	102	(50-150)		
MS_201502110617	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	106	(70-130)		
MS_201502120602	4-Methyl-2-Pentanone (MIBK)	ND	100	103	ug/L	103	(70-130)		
MSD_201502110617	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	106	(70-130)	20	0.0
MSD_201502120602	4-Methyl-2-Pentanone (MIBK)	ND	100	102	ug/L	102	(70-130)	20	0.98
LCS1	Benzene		5.0	5.34	ug/L	107	(70-130)		
LCS2	Benzene		5.0	5.11	ug/L	102	(70-130)	20	4.4
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Benzene	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Benzene	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	Benzene	ND	10	11.1	ug/L	111	(70-130)	20	0.90
MSD_201502120602	Benzene	ND	10	11.1	ug/L	111	(70-130)	20	0.0
LCS1	Bromobenzene		5.0	5.36	ug/L	107	(70-130)		
LCS2	Bromobenzene		5.0	5.27	ug/L	105	(70-130)	20	1.7
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	Bromobenzene	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Bromobenzene	ND	10	11.0	ug/L	110	(70-130)		
MSD_201502110617	Bromobenzene	ND	10	11.2	ug/L	112	(70-130)	20	0.0
MSD_201502120602	Bromobenzene	ND	10	11.1	ug/L	111	(70-130)	20	0.91
LCS1	Bromochloromethane		5.0	5.50	ug/L	110	(70-130)		

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Bromochloromethane		5.0	5.54	ug/L	111	(70-130)	20	0.73
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	Bromochloromethane	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Bromochloromethane	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	Bromochloromethane	ND	10	11.2	ug/L	112	(70-130)	20	0.0
MSD_201502120602	Bromochloromethane	ND	10	11.0	ug/L	110	(70-130)	20	0.91
LCS1	Bromodichloromethane		5.0	5.29	ug/L	106	(70-130)		
LCS2	Bromodichloromethane		5.0	4.98	ug/L	100	(70-130)	20	6.0
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	Bromodichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	Bromodichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MSD_201502110617	Bromodichloromethane	ND	10	11.0	ug/L	110	(70-130)	20	2.8
MSD_201502120602	Bromodichloromethane	ND	10	10.7	ug/L	107	(70-130)	20	0.0
LCS1	Bromoethane		5.0	5.62	ug/L	112	(70-130)		
LCS2	Bromoethane		5.0	5.27	ug/L	105	(70-130)	20	6.4
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Bromoethane	ND	10	12.0	ug/L	120	(70-130)		
MS_201502120602	Bromoethane	ND	10	11.8	ug/L	118	(70-130)		
MSD_201502110617	Bromoethane	ND	10	11.9	ug/L	119	(70-130)	20	0.84
MSD_201502120602	Bromoethane	ND	10	11.7	ug/L	117	(70-130)	20	0.85
LCS1	Bromoform		5.0	6.02	ug/L	120	(70-130)		
LCS2	Bromoform		5.0	6.00	ug/L	120	(70-130)	20	0.33
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	Bromoform	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	Bromoform	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	Bromoform	ND	10	11.8	ug/L	118	(70-130)	20	4.3
MSD_201502120602	Bromoform	ND	10	11.4	ug/L	114	(70-130)	20	4.5
LCS1	Bromomethane (Methyl Bromide)		5.0	5.16	ug/L	103	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	4.87	ug/L	97	(70-130)	20	5.8
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.810	ug/L	**162**	(50-150)		
MS_201502110617	Bromomethane (Methyl Bromide)	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Bromomethane (Methyl Bromide)	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	Bromomethane (Methyl Bromide)	ND	10	10.8	ug/L	108	(70-130)	20	3.6

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201502120602	Bromomethane (Methyl Bromide)	ND	10	10.7	ug/L	107	(70-130)	20	1.9
LCS1	Carbon disulfide		5.0	5.37	ug/L	107	(70-130)		
LCS2	Carbon disulfide		5.0	5.02	ug/L	100	(70-130)	20	6.7
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Carbon disulfide	ND	10	11.7	ug/L	117	(70-130)		
MS_201502120602	Carbon disulfide	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	Carbon disulfide	ND	10	12.1	ug/L	121	(70-130)	20	3.4
MSD_201502120602	Carbon disulfide	ND	10	11.5	ug/L	115	(70-130)	20	1.8
LCS1	Carbon Tetrachloride		5.0	4.37	ug/L	87	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.12	ug/L	82	(70-130)	20	5.9
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.420	ug/L	84	(50-150)		
MS_201502110617	Carbon Tetrachloride	ND	10	10.5	ug/L	105	(70-130)		
MS_201502120602	Carbon Tetrachloride	ND	10	10.8	ug/L	108	(70-130)		
MSD_201502110617	Carbon Tetrachloride	ND	10	11.1	ug/L	111	(70-130)	20	5.6
MSD_201502120602	Carbon Tetrachloride	ND	10	11.1	ug/L	111	(70-130)	20	2.7
LCS1	Chlorobenzene		5.0	5.31	ug/L	106	(70-130)		
LCS2	Chlorobenzene		5.0	5.23	ug/L	105	(70-130)	20	1.5
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Chlorobenzene	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	Chlorobenzene	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	Chlorobenzene	ND	10	11.4	ug/L	114	(70-130)	20	0.0
MSD_201502120602	Chlorobenzene	ND	10	11.1	ug/L	111	(70-130)	20	1.8
LCS1	Chlorodibromomethane		5.0	5.61	ug/L	112	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.31	ug/L	106	(70-130)	20	5.5
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.790	ug/L	**158**	(50-150)		
MS_201502110617	Chlorodibromomethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201502120602	Chlorodibromomethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	Chlorodibromomethane	ND	10	11.1	ug/L	111	(70-130)	20	4.6
MSD_201502120602	Chlorodibromomethane	ND	10	10.4	ug/L	105	(70-130)	20	0.96
LCS1	Chloroethane		5.0	5.23	ug/L	105	(70-130)		
LCS2	Chloroethane		5.0	4.79	ug/L	96	(70-130)	20	8.8
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	Chloroethane	ND	10	11.8	ug/L	118	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502120602	Chloroethane	ND	10	11.7	ug/L	117	(70-130)		
MSD_201502110617	Chloroethane	ND	10	11.9	ug/L	119	(70-130)	20	0.84
MSD_201502120602	Chloroethane	ND	10	11.7	ug/L	117	(70-130)	20	0.0
LCS1	Chloroform (Trichloromethane)		5.0	5.47	ug/L	109	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.17	ug/L	103	(70-130)	20	5.6
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.380	ug/L	76	(50-150)		
MS_201502110617	Chloroform (Trichloromethane)	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Chloroform (Trichloromethane)	ND	10	11.2	ug/L	113	(70-130)		
MSD_201502110617	Chloroform (Trichloromethane)	ND	10	11.4	ug/L	114	(70-130)	20	1.8
MSD_201502120602	Chloroform (Trichloromethane)	ND	10	11.1	ug/L	111	(70-130)	20	1.8
LCS1	Chloromethane(Methyl Chloride)		5.0	5.05	ug/L	101	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	4.86	ug/L	97	(70-130)	20	3.8
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Chloromethane(Methyl Chloride)	ND	10	11.6	ug/L	116	(70-130)		
MS_201502120602	Chloromethane(Methyl Chloride)	ND	10	11.6	ug/L	116	(70-130)		
MSD_201502110617	Chloromethane(Methyl Chloride)	ND	10	11.6	ug/L	116	(70-130)	20	0.0
MSD_201502120602	Chloromethane(Methyl Chloride)	ND	10	11.4	ug/L	114	(70-130)	20	1.7
LCS1	cis-1,2-Dichloroethylene		5.0	5.40	ug/L	108	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.08	ug/L	102	(70-130)	20	6.1
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	cis-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)		
MS_201502120602	cis-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)		
MSD_201502110617	cis-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)	20	0.0
MSD_201502120602	cis-1,2-Dichloroethylene	ND	10	10.5	ug/L	105	(70-130)	20	2.8
LCS1	cis-1,3-Dichloropropene		5.0	4.62	ug/L	92	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	4.63	ug/L	93	(70-130)	20	0.22
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.420	ug/L	84	(50-150)		
MS_201502110617	cis-1,3-Dichloropropene	ND	10	10.5	ug/L	105	(70-130)		
MS_201502120602	cis-1,3-Dichloropropene	ND	10	10.3	ug/L	103	(70-130)		
MSD_201502110617	cis-1,3-Dichloropropene	ND	10	10.7	ug/L	107	(70-130)	20	1.9
MSD_201502120602	cis-1,3-Dichloropropene	ND	10	10.4	ug/L	104	(70-130)	20	0.97
LCS1	Dibromomethane		5.0	5.47	ug/L	109	(70-130)		
LCS2	Dibromomethane		5.0	5.50	ug/L	110	(70-130)	20	0.55
MBLK	Dibromomethane			<0.5	ug/L				

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Laboratory QC
Report: 520407

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Dibromomethane		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	Dibromomethane	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	Dibromomethane	ND	10	11.2	ug/L	112	(70-130)		
MSD_201502110617	Dibromomethane	ND	10	11.4	ug/L	114	(70-130)	20	0.87
MSD_201502120602	Dibromomethane	ND	10	10.9	ug/L	109	(70-130)	20	2.7
LCS1	Dichlorodifluoromethane		5.0	5.32	ug/L	106	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	4.25	ug/L	85	(70-130)	20	**22**
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.490	ug/L	98	(50-150)		
MS_201502110617	Dichlorodifluoromethane	ND	10	13.5	ug/L	**135**	(70-130)		
MS_201502120602	Dichlorodifluoromethane	ND	10	12.7	ug/L	127	(70-130)		
MSD_201502110617	Dichlorodifluoromethane	ND	10	13.4	ug/L	**134**	(70-130)	20	0.74
MSD_201502120602	Dichlorodifluoromethane	ND	10	12.9	ug/L	129	(70-130)	20	1.6
LCS1	Dichloromethane		5.0	5.21	ug/L	104	(70-130)		
LCS2	Dichloromethane		5.0	5.14	ug/L	103	(70-130)	20	1.4
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	Dichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	Dichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MSD_201502110617	Dichloromethane	ND	10	10.8	ug/L	108	(70-130)	20	0.93
MSD_201502120602	Dichloromethane	ND	10	10.6	ug/L	106	(70-130)	20	0.94
LCS1	Di-isopropyl ether		5.0	4.94	ug/L	99	(70-130)		
LCS2	Di-isopropyl ether		5.0	4.72	ug/L	94	(70-130)	20	4.5
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	Di-isopropyl ether	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	Di-isopropyl ether	ND	10	10.2	ug/L	102	(70-130)		
MSD_201502110617	Di-isopropyl ether	ND	10	10.3	ug/L	103	(70-130)	20	0.98
MSD_201502120602	Di-isopropyl ether	ND	10	10.2	ug/L	102	(70-130)	20	0.0
LCS1	Ethyl benzene		5.0	5.49	ug/L	110	(70-130)		
LCS2	Ethyl benzene		5.0	5.26	ug/L	105	(70-130)	20	4.3
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Ethyl benzene	ND	10	11.8	ug/L	118	(70-130)		
MS_201502120602	Ethyl benzene	ND	10	11.7	ug/L	117	(70-130)		
MSD_201502110617	Ethyl benzene	ND	10	11.8	ug/L	118	(70-130)	20	0.0
MSD_201502120602	Ethyl benzene	ND	10	11.6	ug/L	116	(70-130)	20	0.86
LCS1	Hexachlorobutadiene		5.0	5.26	ug/L	105	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Hexachlorobutadiene		5.0	5.09	ug/L	102	(70-130)	20	3.3
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	Hexachlorobutadiene	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	Hexachlorobutadiene	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	Hexachlorobutadiene	ND	10	11.6	ug/L	116	(70-130)	20	0.87
MSD_201502120602	Hexachlorobutadiene	ND	10	11.3	ug/L	113	(70-130)	20	0.0
LCS1	Isopropylbenzene		5.0	5.27	ug/L	105	(70-130)		
LCS2	Isopropylbenzene		5.0	5.12	ug/L	102	(70-130)	20	2.9
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.490	ug/L	98	(50-150)		
MS_201502110617	Isopropylbenzene	ND	10	12.1	ug/L	121	(70-130)		
MS_201502120602	Isopropylbenzene	ND	10	11.9	ug/L	119	(70-130)		
MSD_201502110617	Isopropylbenzene	ND	10	12.0	ug/L	120	(70-130)	20	0.83
MSD_201502120602	Isopropylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	1.7
LCS1	m,p-Xylenes		10	11.3	ug/L	113	(70-130)		
LCS2	m,p-Xylenes		10	10.8	ug/L	108	(70-130)	20	4.5
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.02	ug/L	102	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	m,p-Xylenes	ND	20	24.2	ug/L	121	(70-130)		
MS_201502120602	m,p-Xylenes	ND	20	23.8	ug/L	119	(70-130)		
MSD_201502110617	m,p-Xylenes	ND	20	24.0	ug/L	120	(70-130)	20	0.41
MSD_201502120602	m,p-Xylenes	ND	20	23.6	ug/L	118	(70-130)	20	0.84
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.50	ug/L	110	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.39	ug/L	108	(70-130)	20	2.0
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	m-Dichlorobenzene (1,3-DCB)	ND	10	11.4	ug/L	115	(70-130)		
MS_201502120602	m-Dichlorobenzene (1,3-DCB)	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	m-Dichlorobenzene (1,3-DCB)	ND	10	11.2	ug/L	112	(70-130)	20	2.6
MSD_201502120602	m-Dichlorobenzene (1,3-DCB)	ND	10	11.2	ug/L	112	(70-130)	20	0.90
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.01	ug/L	100	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.82	ug/L	96	(70-130)	20	3.9
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Methyl Tert-butyl ether (MTBE)	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	Methyl Tert-butyl ether (MTBE)	ND	10	10.1	ug/L	101	(70-130)		

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201502110617	Methyl Tert-butyl ether (MTBE)	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201502120602	Methyl Tert-butyl ether (MTBE)	ND	10	10.0	ug/L	100	(70-130)	20	1
LCS1	Naphthalene		5.0	5.09	ug/L	102	(70-130)		
LCS2	Naphthalene		5.0	4.83	ug/L	97	(70-130)	20	5.2
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	Naphthalene	ND	10	10.3	ug/L	103	(70-130)		
MS_201502120602	Naphthalene	ND	10	10.1	ug/L	101	(70-130)		
MSD_201502110617	Naphthalene	ND	10	10.5	ug/L	105	(70-130)	20	1.9
MSD_201502120602	Naphthalene	ND	10	10.2	ug/L	102	(70-130)	20	0.99
LCS1	n-Butylbenzene		5.0	5.44	ug/L	109	(70-130)		
LCS2	n-Butylbenzene		5.0	5.15	ug/L	103	(70-130)	20	5.5
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	n-Butylbenzene	ND	10	12.0	ug/L	120	(70-130)		
MS_201502120602	n-Butylbenzene	ND	10	11.8	ug/L	118	(70-130)		
MSD_201502110617	n-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	0.83
MSD_201502120602	n-Butylbenzene	ND	10	11.7	ug/L	117	(70-130)	20	0.85
LCS1	n-Propylbenzene		5.0	5.28	ug/L	106	(70-130)		
LCS2	n-Propylbenzene		5.0	5.09	ug/L	102	(70-130)	20	3.7
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	n-Propylbenzene	ND	10	12.3	ug/L	123	(70-130)		
MS_201502120602	n-Propylbenzene	ND	10	11.9	ug/L	119	(70-130)		
MSD_201502110617	n-Propylbenzene	ND	10	12.2	ug/L	122	(70-130)	20	0.82
MSD_201502120602	n-Propylbenzene	ND	10	12.2	ug/L	122	(70-130)	20	2.5
LCS1	o-Chlorotoluene		5.0	5.54	ug/L	111	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.28	ug/L	106	(70-130)	20	4.8
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	o-Chlorotoluene	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	o-Chlorotoluene	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	o-Chlorotoluene	ND	10	11.3	ug/L	113	(70-130)	20	0.88
MSD_201502120602	o-Chlorotoluene	ND	10	11.4	ug/L	114	(70-130)	20	0.88
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.37	ug/L	107	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.15	ug/L	103	(70-130)	20	4.2
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.600	ug/L	120	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502110617	o-Dichlorobenzene (1,2-DCB)	ND	10	10.6	ug/L	106	(70-130)		
MS_201502120602	o-Dichlorobenzene (1,2-DCB)	ND	10	10.6	ug/L	106	(70-130)		
MSD_201502110617	o-Dichlorobenzene (1,2-DCB)	ND	10	10.7	ug/L	107	(70-130)	20	0.94
MSD_201502120602	o-Dichlorobenzene (1,2-DCB)	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	o-Xylene		5.0	5.42	ug/L	108	(70-130)		
LCS2	o-Xylene		5.0	5.18	ug/L	104	(70-130)	20	4.5
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	o-Xylene	ND	10	11.7	ug/L	117	(70-130)		
MS_201502120602	o-Xylene	ND	10	11.7	ug/L	117	(70-130)		
MSD_201502110617	o-Xylene	ND	10	11.6	ug/L	116	(70-130)	20	0.86
MSD_201502120602	o-Xylene	ND	10	11.5	ug/L	115	(70-130)	20	1.7
LCS1	p-Chlorotoluene		5.0	5.57	ug/L	111	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.40	ug/L	108	(70-130)	20	3.1
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	p-Chlorotoluene	ND	10	12.1	ug/L	121	(70-130)		
MS_201502120602	p-Chlorotoluene	ND	10	11.6	ug/L	116	(70-130)		
MSD_201502110617	p-Chlorotoluene	ND	10	11.8	ug/L	118	(70-130)	20	2.5
MSD_201502120602	p-Chlorotoluene	ND	10	11.8	ug/L	118	(70-130)	20	1.7
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.64	ug/L	113	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.42	ug/L	108	(70-130)	20	4.0
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	p-Dichlorobenzene (1,4-DCB)	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	p-Dichlorobenzene (1,4-DCB)	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	p-Dichlorobenzene (1,4-DCB)	ND	10	11.3	ug/L	113	(70-130)	20	0.88
MSD_201502120602	p-Dichlorobenzene (1,4-DCB)	ND	10	11.0	ug/L	111	(70-130)	20	0.0
LCS1	p-Isopropyltoluene		5.0	5.63	ug/L	113	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.35	ug/L	107	(70-130)	20	5.1
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	p-Isopropyltoluene	ND	10	12.4	ug/L	124	(70-130)		
MS_201502120602	p-Isopropyltoluene	ND	10	12.2	ug/L	122	(70-130)		
MSD_201502110617	p-Isopropyltoluene	ND	10	12.4	ug/L	124	(70-130)	20	0.0
MSD_201502120602	p-Isopropyltoluene	ND	10	12.2	ug/L	122	(70-130)	20	0.0
LCS1	sec-Butylbenzene		5.0	5.41	ug/L	108	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.17	ug/L	103	(70-130)	20	4.5

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	sec-Butylbenzene	ND	10	12.2	ug/L	122	(70-130)		
MS_201502120602	sec-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)		
MSD_201502110617	sec-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	0.82
MSD_201502120602	sec-Butylbenzene	ND	10	12.0	ug/L	120	(70-130)	20	0.83
LCS1	Styrene		5.0	5.47	ug/L	109	(70-130)		
LCS2	Styrene		5.0	5.31	ug/L	106	(70-130)	20	3.0
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.470	ug/L	94	(50-150)		
MS_201502110617	Styrene	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	Styrene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	Styrene	ND	10	11.2	ug/L	112	(70-130)	20	0.89
MSD_201502120602	Styrene	ND	10	10.2	ug/L	102	(70-130)	20	1.9
LCS1	tert-amyl Methyl Ether		5.0	4.94	ug/L	99	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.87	ug/L	97	(70-130)	20	1.4
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	tert-amyl Methyl Ether	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	tert-amyl Methyl Ether	ND	10	10.1	ug/L	101	(70-130)		
MSD_201502110617	tert-amyl Methyl Ether	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201502120602	tert-amyl Methyl Ether	ND	10	10.3	ug/L	103	(70-130)	20	2.0
LCS1	tert-Butyl Ethyl Ether		5.0	4.95	ug/L	99	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	4.87	ug/L	97	(70-130)	20	1.6
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	tert-Butyl Ethyl Ether	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	tert-Butyl Ethyl Ether	ND	10	10.2	ug/L	102	(70-130)		
MSD_201502110617	tert-Butyl Ethyl Ether	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201502120602	tert-Butyl Ethyl Ether	ND	10	10.2	ug/L	102	(70-130)	20	0.0
LCS1	tert-Butylbenzene		5.0	5.23	ug/L	105	(70-130)		
LCS2	tert-Butylbenzene		5.0	5.14	ug/L	103	(70-130)	20	1.7
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	tert-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)		
MS_201502120602	tert-Butylbenzene	ND	10	11.8	ug/L	119	(70-130)		
MSD_201502110617	tert-Butylbenzene	ND	10	12.0	ug/L	119	(70-130)	20	0.83
MSD_201502120602	tert-Butylbenzene	ND	10	12.0	ug/L	120	(70-130)	20	0.84

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 520407

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Tetrachloroethylene (PCE)		5.0	5.17	ug/L	103	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.82	ug/L	96	(70-130)	20	7.0
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	Tetrachloroethylene (PCE)	ND	10	11.9	ug/L	119	(70-130)		
MS_201502120602	Tetrachloroethylene (PCE)	ND	10	11.6	ug/L	116	(70-130)		
MSD_201502110617	Tetrachloroethylene (PCE)	ND	10	11.8	ug/L	118	(70-130)	20	0.84
MSD_201502120602	Tetrachloroethylene (PCE)	ND	10	11.6	ug/L	116	(70-130)	20	0.0
LCS1	Toluene		5.0	5.43	ug/L	109	(70-130)		
LCS2	Toluene		5.0	5.16	ug/L	103	(70-130)	20	5.1
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	Toluene	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	Toluene	ND	10	11.4	ug/L	114	(70-130)		
MSD_201502110617	Toluene	ND	10	11.4	ug/L	114	(70-130)	20	0.88
MSD_201502120602	Toluene	ND	10	11.2	ug/L	112	(70-130)	20	1.8
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			102	%	102	(70-130)		
MBLK	Toluene-d8 (S)			97.2	%	97	(70-130)		
MRL_CHK	Toluene-d8 (S)			100	%	100	(70-130)		
MRLLW	Toluene-d8 (S)			99.0	%	99	(70-130)		
MS_201502110617	Toluene-d8 (S)			103	%	103	(70-130)		
MS_201502120602	Toluene-d8 (S)			102	%	102	(70-130)		
MSD_201502110617	Toluene-d8 (S)			104	%	104	(70-130)		
MSD_201502120602	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.11	ug/L	102	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.93	ug/L	99	(70-130)	20	3.6
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	trans-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(70-130)		
MS_201502120602	trans-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(70-130)		
MSD_201502110617	trans-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(70-130)	20	0.0
MSD_201502120602	trans-1,2-Dichloroethylene	ND	10	10.9	ug/L	109	(70-130)	20	0.91
LCS1	trans-1,3-Dichloropropene		5.0	4.81	ug/L	96	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	4.71	ug/L	94	(70-130)	20	2.1
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.660	ug/L	132	(50-150)		
MS_201502110617	trans-1,3-Dichloropropene	ND	10	9.50	ug/L	95	(70-130)		

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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502120602	trans-1,3-Dichloropropene	ND	10	9.16	ug/L	92	(70-130)		
MSD_201502110617	trans-1,3-Dichloropropene	ND	10	9.92	ug/L	99	(70-130)	20	4.3
MSD_201502120602	trans-1,3-Dichloropropene	ND	10	9.39	ug/L	94	(70-130)	20	2.5
LCS1	Trichloroethylene (TCE)		5.0	5.33	ug/L	107	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.91	ug/L	98	(70-130)	20	8.2
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	Trichloroethylene (TCE)	0.78	10	12.2	ug/L	115	(70-130)		
MS_201502120602	Trichloroethylene (TCE)	1.7	10	13.0	ug/L	113	(70-130)		
MSD_201502110617	Trichloroethylene (TCE)	0.78	10	12.1	ug/L	114	(70-130)	20	0.82
MSD_201502120602	Trichloroethylene (TCE)	1.7	10	12.9	ug/L	112	(70-130)	20	0.77
LCS1	Trichlorofluoromethane		5.0	4.64	ug/L	93	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.42	ug/L	88	(70-130)	20	4.9
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Trichlorofluoromethane	ND	10	12.6	ug/L	126	(70-130)		
MS_201502120602	Trichlorofluoromethane	ND	10	12.8	ug/L	128	(70-130)		
MSD_201502110617	Trichlorofluoromethane	ND	10	12.8	ug/L	128	(70-130)	20	1.6
MSD_201502120602	Trichlorofluoromethane	ND	10	13.1	ug/L	**131**	(70-130)	20	2.3
LCS1	Trichlorotrifluoroethane(Freon		5.0	4.49	ug/L	90	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	4.39	ug/L	88	(70-130)	20	2.3
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	Trichlorotrifluoroethane(Freon	ND	10	12.5	ug/L	125	(70-130)		
MS_201502120602	Trichlorotrifluoroethane(Freon	ND	10	12.6	ug/L	126	(70-130)		
MSD_201502110617	Trichlorotrifluoroethane(Freon	ND	10	12.5	ug/L	125	(70-130)	20	0.0
MSD_201502120602	Trichlorotrifluoroethane(Freon	ND	10	12.4	ug/L	124	(70-130)	20	1.6
LCS1	Vinyl chloride (VC)		5.0	4.83	ug/L	97	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.47	ug/L	89	(70-130)	20	7.7
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.520	ug/L	104	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.240	ug/L	96	(50-150)		
MS_201502110617	Vinyl chloride (VC)	ND	10	11.6	ug/L	116	(70-130)		
MS_201502120602	Vinyl chloride (VC)	ND	10	11.4	ug/L	114	(70-130)		
MSD_201502110617	Vinyl chloride (VC)	ND	10	11.5	ug/L	115	(70-130)	20	0.87
MSD_201502120602	Vinyl chloride (VC)	ND	10	11.2	ug/L	112	(70-130)	20	1.8

QC Ref# 820982 - ICPMS Metals by EPA 200.8 **Analysis Date: 02/18/2015**

LCS1	Chromium Total ICAP/MS		100	98.9	ug/L	99	(85-115)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chromium Total ICAP/MS		100	97.2	ug/L	97	(85-115)	20	1.7
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.934	ug/L	94	(50-150)		
MS_201502110572	Chromium Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		
MS2_201502120356	Chromium Total ICAP/MS	ND	100	96.6	ug/L	96	(70-130)		
MSD_201502110572	Chromium Total ICAP/MS	ND	100	97.3	ug/L	97	(70-130)	20	0.52
MSD2_201502120356	Chromium Total ICAP/MS	ND	100	93.6	ug/L	93	(70-130)	20	3.1
QC Ref# 821448 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/19/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	4.43	ug/L	89	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	4.43	ug/L	89	(70-130)	20	0.0
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.730	ug/L	146	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	4.87	ug/L	97	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	5.07	ug/L	101	(70-130)	20	4.0
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.390	ug/L	78	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.66	ug/L	93	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.76	ug/L	95	(70-130)	20	2.1
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	4.85	ug/L	97	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.57	ug/L	91	(70-130)	20	5.9
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,1-Dichloroethane		5.0	4.79	ug/L	96	(70-130)		
LCS2	1,1-Dichloroethane		5.0	5.01	ug/L	100	(70-130)	20	4.5
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,1-Dichloroethylene		5.0	4.51	ug/L	90	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.87	ug/L	97	(70-130)	20	7.7
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,1-Dichloropropene		5.0	4.94	ug/L	99	(70-130)		
LCS2	1,1-Dichloropropene		5.0	5.01	ug/L	100	(70-130)	20	1.4
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	4.76	ug/L	95	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,2,3-Trichlorobenzene		5.0	4.77	ug/L	95	(70-130)	20	0.21
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	4.60	ug/L	92	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	4.76	ug/L	95	(70-130)	20	3.4
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5.0	4.69	ug/L	94	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	4.85	ug/L	97	(70-130)	20	3.4
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.420	ug/L	84	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	5.04	ug/L	101	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.19	ug/L	104	(70-130)	20	2.9
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.340	ug/L	68	(50-150)		
LCS1	1,2-Dichloroethane		5.0	4.79	ug/L	96	(70-130)		
LCS2	1,2-Dichloroethane		5.0	4.90	ug/L	98	(70-130)	20	2.3
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			97.2	%	97	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			107	%	107	(70-130)		
LCS1	1,2-Dichloropropane		5.0	4.72	ug/L	94	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.77	ug/L	95	(70-130)	20	1.1
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	4.87	ug/L	97	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.12	ug/L	102	(70-130)	20	5.0
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.360	ug/L	72	(50-150)		
LCS1	1,3-Dichloropropane		5.0	4.77	ug/L	95	(70-130)		
LCS2	1,3-Dichloropropane		5.0	4.65	ug/L	93	(70-130)	20	2.5
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.420	ug/L	84	(50-150)		
LCS1	2,2-Dichloropropane		5.0	4.67	ug/L	93	(70-130)		
LCS2	2,2-Dichloropropane		5.0	4.85	ug/L	97	(70-130)	20	3.8

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Laboratory QC
Report: 520407

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.550	ug/L	110	(50-150)		
LCS1	2-Butanone (MEK)		50	49.3	ug/L	99	(70-130)		
LCS2	2-Butanone (MEK)		50	46.5	ug/L	93	(70-130)	20	5.8
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	4.53	ug/L	91	(50-150)		
LCS1	4-Bromofluorobenzene (S)			98.0	%	98	(70-130)		
LCS2	4-Bromofluorobenzene (S)			97.4	%	97	(70-130)		
MBLK	4-Bromofluorobenzene (S)			99.8	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			98.4	%	98	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	46.2	ug/L	92	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	44.8	ug/L	90	(70-130)	20	3.1
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	6.61	ug/L	132	(50-150)		
LCS1	Benzene		5.0	4.93	ug/L	99	(70-130)		
LCS2	Benzene		5.0	5.04	ug/L	101	(70-130)	20	2.2
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromobenzene		5.0	4.53	ug/L	91	(70-130)		
LCS2	Bromobenzene		5.0	4.62	ug/L	92	(70-130)	20	2.0
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromochloromethane		5.0	4.98	ug/L	100	(70-130)		
LCS2	Bromochloromethane		5.0	5.24	ug/L	105	(70-130)	20	5.1
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	Bromodichloromethane		5.0	5.29	ug/L	106	(70-130)		
LCS2	Bromodichloromethane		5.0	5.35	ug/L	107	(70-130)	20	1.1
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	Bromoethane		5.0	4.96	ug/L	99	(70-130)		
LCS2	Bromoethane		5.0	5.28	ug/L	106	(70-130)	20	6.3
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	Bromoform		5.0	5.17	ug/L	103	(70-130)		
LCS2	Bromoform		5.0	5.67	ug/L	113	(70-130)	20	9.2
MBLK	Bromoform			<0.5	ug/L				

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.
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
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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Bromoform		0.5	0.350	ug/L	70	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	4.84	ug/L	97	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	4.75	ug/L	95	(70-130)	20	1.9
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.600	ug/L	120	(50-150)		
LCS1	Carbon disulfide		5.0	4.91	ug/L	98	(70-130)		
LCS2	Carbon disulfide		5.0	5.16	ug/L	103	(70-130)	20	5.0
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.430	ug/L	86	(50-150)		
LCS1	Carbon Tetrachloride		5.0	5.47	ug/L	109	(70-130)		
LCS2	Carbon Tetrachloride		5.0	5.61	ug/L	112	(70-130)	20	2.5
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.520	ug/L	104	(50-150)		
LCS1	Chlorobenzene		5.0	4.79	ug/L	96	(70-130)		
LCS2	Chlorobenzene		5.0	4.63	ug/L	93	(70-130)	20	3.4
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.400	ug/L	80	(50-150)		
LCS1	Chlorodibromomethane		5.0	5.13	ug/L	103	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.93	ug/L	99	(70-130)	20	4.0
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Chloroethane		5.0	4.83	ug/L	97	(70-130)		
LCS2	Chloroethane		5.0	5.01	ug/L	100	(70-130)	20	3.7
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.630	ug/L	126	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	4.87	ug/L	97	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.97	ug/L	99	(70-130)	20	2.0
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5.0	4.88	ug/L	98	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	4.93	ug/L	99	(70-130)	20	1.0
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.610	ug/L	122	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	4.87	ug/L	97	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	4.96	ug/L	99	(70-130)	20	1.8
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	5.66	ug/L	113	(70-130)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	cis-1,3-Dichloropropene		5.0	5.59	ug/L	112	(70-130)	20	1.2
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.500	ug/L	100	(50-150)		
LCS1	Dibromomethane		5.0	4.93	ug/L	99	(70-130)		
LCS2	Dibromomethane		5.0	4.98	ug/L	100	(70-130)	20	1.0
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.420	ug/L	84	(50-150)		
LCS1	Dichlorodifluoromethane		5.0	5.76	ug/L	115	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	6.02	ug/L	120	(70-130)	20	4.4
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	Dichloromethane		5.0	4.88	ug/L	98	(70-130)		
LCS2	Dichloromethane		5.0	5.06	ug/L	101	(70-130)	20	3.6
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.600	ug/L	120	(50-150)		
LCS1	Di-isopropyl ether		5.0	4.96	ug/L	99	(70-130)		
LCS2	Di-isopropyl ether		5.0	5.06	ug/L	101	(70-130)	20	2.0
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.540	ug/L	108	(50-150)		
LCS1	Ethyl benzene		5.0	5.04	ug/L	101	(70-130)		
LCS2	Ethyl benzene		5.0	4.90	ug/L	98	(70-130)	20	2.8
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.380	ug/L	76	(50-150)		
LCS1	Hexachlorobutadiene		5.0	5.06	ug/L	101	(70-130)		
LCS2	Hexachlorobutadiene		5.0	4.97	ug/L	99	(70-130)	20	1.8
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.530	ug/L	106	(50-150)		
LCS1	Isopropylbenzene		5.0	4.79	ug/L	96	(70-130)		
LCS2	Isopropylbenzene		5.0	4.99	ug/L	100	(70-130)	20	4.1
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.360	ug/L	72	(50-150)		
LCS1	m,p-Xylenes		10	10.5	ug/L	105	(70-130)		
LCS2	m,p-Xylenes		10	10.2	ug/L	102	(70-130)	20	2.9
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.680	ug/L	68	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.430	ug/L	86	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	4.74	ug/L	95	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	4.67	ug/L	93	(70-130)	20	1.5

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.450	ug/L	90	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.04	ug/L	101	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	5.22	ug/L	104	(70-130)	20	3.5
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.550	ug/L	110	(50-150)		
LCS1	Naphthalene		5.0	5.30	ug/L	106	(70-130)		
LCS2	Naphthalene		5.0	5.41	ug/L	108	(70-130)	20	2.0
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.560	ug/L	112	(50-150)		
LCS1	n-Butylbenzene		5.0	4.92	ug/L	98	(70-130)		
LCS2	n-Butylbenzene		5.0	5.12	ug/L	102	(70-130)	20	4.0
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	n-Propylbenzene		5.0	4.81	ug/L	96	(70-130)		
LCS2	n-Propylbenzene		5.0	5.06	ug/L	101	(70-130)	20	5.1
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.410	ug/L	82	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.01	ug/L	100	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.14	ug/L	103	(70-130)	20	2.6
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.460	ug/L	92	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	4.80	ug/L	96	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	4.82	ug/L	96	(70-130)	20	0.42
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.500	ug/L	100	(50-150)		
LCS1	o-Xylene		5.0	4.95	ug/L	99	(70-130)		
LCS2	o-Xylene		5.0	4.83	ug/L	97	(70-130)	20	2.5
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.370	ug/L	74	(50-150)		
LCS1	p-Chlorotoluene		5.0	4.65	ug/L	93	(70-130)		
LCS2	p-Chlorotoluene		5.0	4.80	ug/L	96	(70-130)	20	3.2
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.420	ug/L	84	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	4.61	ug/L	92	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	4.82	ug/L	96	(70-130)	20	4.5
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.450	ug/L	90	(50-150)		

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.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	p-Isopropyltoluene		5.0	5.08	ug/L	102	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.21	ug/L	104	(70-130)	20	2.5
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.350	ug/L	70	(50-150)		
LCS1	sec-Butylbenzene		5.0	5.07	ug/L	101	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.23	ug/L	105	(70-130)	20	3.1
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.360	ug/L	72	(50-150)		
LCS1	Styrene		5.0	4.60	ug/L	92	(70-130)		
LCS2	Styrene		5.0	4.52	ug/L	90	(70-130)	20	1.8
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.610	ug/L	122	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	4.98	ug/L	100	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	5.12	ug/L	102	(70-130)	20	2.8
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.430	ug/L	86	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	5.08	ug/L	102	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	5.18	ug/L	104	(70-130)	20	2.0
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.570	ug/L	114	(50-150)		
LCS1	tert-Butylbenzene		5.0	4.78	ug/L	96	(70-130)		
LCS2	tert-Butylbenzene		5.0	4.83	ug/L	97	(70-130)	20	1.0
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.360	ug/L	72	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	4.93	ug/L	99	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.72	ug/L	94	(70-130)	20	4.3
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.450	ug/L	90	(50-150)		
LCS1	Toluene		5.0	4.78	ug/L	96	(70-130)		
LCS2	Toluene		5.0	4.68	ug/L	94	(70-130)	20	2.1
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Toluene-d8 (S)			103	%	103	(70-130)		
LCS2	Toluene-d8 (S)			101	%	101	(70-130)		
MBLK	Toluene-d8 (S)			89.8	%	90	(70-130)		
MRL_CHK	Toluene-d8 (S)			93.4	%	93	(70-130)		
MRLLW	Toluene-d8 (S)			94.4	%	94	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	4.91	ug/L	98	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	trans-1,2-Dichloroethylene		5.0	4.99	ug/L	100	(70-130)	20	1.6
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	5.52	ug/L	110	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.32	ug/L	106	(70-130)	20	3.7
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.520	ug/L	104	(50-150)		
LCS1	Trichloroethylene (TCE)		5.0	4.73	ug/L	95	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.69	ug/L	94	(70-130)	20	0.85
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.430	ug/L	86	(50-150)		
LCS1	Trichlorofluoromethane		5.0	4.75	ug/L	95	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.84	ug/L	97	(70-130)	20	1.9
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	4.60	ug/L	92	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	4.93	ug/L	99	(70-130)	20	6.9
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.530	ug/L	106	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	5.06	ug/L	101	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	5.27	ug/L	105	(70-130)	20	4.1
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.550	ug/L	110	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.330	ug/L	132	(50-150)		
QC Ref# 821889 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 02/20/2015**			
CCCH	1,4-Dioxane		50	48.9	ug/L	98	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0900	ug/L	129	(50-150)		
CCCM	1,4-Dioxane		20	19.7	ug/L	98	(70-130)		
LCS1	1,4-Dioxane		20	18.2	ug/L	91	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0680	ug/L	97	(50-150)		
MS1_201502190215	1,4-Dioxane	ND	0.07	0.0660	ug/L	94	(50-150)		
MSD1_201502190215	1,4-Dioxane	ND	0.07	0.0650	ug/L	93	(50-150)	20	1.5
CCCH	Dioxane-d8			101	%	101	(70-130)		
CCCL	Dioxane-d8			115	%	115	(70-130)		
CCCM	Dioxane-d8			100	%	101	(70-130)		
LCS1	Dioxane-d8			95.0	%	95	(70-130)		
MBLK	Dioxane-d8			90.7	%				

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

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Report: 520407

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Dioxane-d8			100	%	100	(70-130)		
MS1_201502190215	Dioxane-d8	93		87.2	%	87	(70-130)		
MSD1_201502190215	Dioxane-d8	93		93.6	%	94	(70-130)		
CCCH	THF-d8			106	%	106	(50-150)		
CCCL	THF-d8			102	%	102	(50-150)		
CCCM	THF-d8			106	%	106	(50-150)		
LCS1	THF-d8			110	%	110	(50-150)		
MBLK	THF-d8			108	%				
MRL_CHK	THF-d8			104	%	104	(50-150)		
MS1_201502190215	THF-d8	112		114	%	114	(50-150)		
MSD1_201502190215	THF-d8	112		103	%	103	(50-150)		

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

PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY

DATA VALIDATION REPORT
SOUTH-SIDE PRIVATE WELL MONITORING PROGRAM

May 2015

Malcolm Pirnie, the Water Division of ARCADIS
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1.0 INTRODUCTION

Malcolm Pirnie, the Water Division of ARCADIS (Pirnie/ARCADIS) performed data validation on data packages received from Eurofins Eaton Analytical as part of the Pima County Department of Environmental Quality (PDEQ) South-Side Private Well Monitoring Program. Data validation was performed in accordance with procedures specified in the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data Review (EPA, 2008 and 2004) and the PDEQ Sampling and Analysis Plan (PDEQ, 2002).

A total of 13 groundwater and drinking water samples were collected in February 2015. Three trip blanks, two field blanks, and two matrix spike/matrix spike duplicate pairs were submitted to the laboratory for quality control (QC) samples. Table 1 presents a summary of the sample identifications, laboratory sample identifications, and the requested analytical parameters. Table 2 presents a summary of the sample results.

2.0 QUALITY CONTROL PARAMETERS REVIEWED

Data validation activities involved reviewing the following quality control parameters as contained in the data packages submitted by Eurofins Eaton Analytical:

- Chain-of-Custody;
- Sample preservation and temperature upon laboratory receipt;
- Holding times;
- Blank contamination (method blanks, trip blanks, and field blanks);
- Surrogate recovery (for organic parameters);
- Laboratory Control Sample (LCS) recovery and Relative Percent Difference (RPD);
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recovery and RPD; and
- Other applicable QC parameters.

The data qualifiers used to qualify the analytical results associated with QC parameters outside of the established data quality objectives are defined below:

J The analyte was positively identified; however, the result should be considered an estimated value.

UJ The reporting limit is considered an estimated value.

R Quality control indicates that the data is not usable.

Results qualified as “J” or UJ” are of acceptable data quality and may be used quantitatively to fulfill the objectives of the analytical program, per EPA guidelines.

Data validation summary reports are included in Appendix A. Based on the data validation, results from this sampling event did not require qualification.

2.1 CHAIN-OF-CUSTODY

The chain-of-custody documentation associated with project samples was found to be complete except for the following: trip blank samples submitted with each sample delivery group were not listed on chain-of-custody forms. The chain-of-custody forms included all other sample identification numbers, date and time of collection, requested parameters, and relinquished/received signatures.

2.2 SAMPLE PRESERVATION AND TEMPERATURE UPON LABORATORY RECEIPT

Samples were received by the laboratory intact and were properly preserved. All samples submitted to the project laboratory were within the temperature criteria of 4±2 °Celsius.

2.3 HOLDING TIMES

All samples were extracted and analyzed within method-specified holding time limits.

2.4 BLANK CONTAMINATION

2.4.1 Method Blanks

Method blanks were analyzed at the appropriate frequency as specified by the project laboratory. Target compounds were not detected in the method blanks.

2.4.2 Trip Blanks

Trip blanks were analyzed at the appropriate frequency as specified in the PDEQ Sampling and Analysis Plan (PDEQ, 2002). Target compounds were not detected in the trip blanks.

2.4.3 Field Blanks

Field blanks were performed at the appropriate frequency as specified in the PDEQ Sampling and Analysis Plan (PDEQ, 2002). Chloroform was detected in both field blank samples at 1.6 micrograms per liter in sample 2015-PW-14-02F and 1.9 micrograms per liter in sample 2015-PW-12-02F. Chloroform was not detected in any other field samples or laboratory blanks; therefore, data qualification was not required.

2.4.4 Common Laboratory Contaminants

Per USEPA guidelines, common laboratory contaminants for VOCs analyses are acetone, 2-butanone, cyclohexane, and methylene chloride. In general, analytical results are qualified if a common laboratory contaminant is detected in both a sample and a blank, and the sample concentration is less than ten times the associated blank concentration. No common laboratory contaminants were detected above the method reporting limit in samples or blanks.

2.5 SURROGATE RECOVERY

Surrogate recoveries for the organic analyses (USEPA Methods 524.2 and 522) were within the laboratory control limits.

2.6 LCS RECOVERY AND RPD

LCS/LCS duplicates were performed at the required frequency and were evaluated based on the following criteria:

- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate, but the analyte was not detected in the associated batch, then data qualification was not required.
- If the analyte recovery was above acceptance limits for the LCS or LCS duplicate and the analyte was detected in the associated batch, then the analyte results were qualified "J".
- If the analyte recovery was below acceptance limits for LCS or LCS duplicate then the analyte results in the associated analytical batch were qualified ("UJ" for non-detects and "J" for detected results).
- If the analyte recovery was less than 10 percent, the analyte results in the associated analytical batch were rejected and qualified "R".

LCS/LCSD percent recoveries and RPDs were within acceptance limits with the following exceptions:

- The LCS recoveries for 1,2,3-trichlorobenzene (155 percent) and the LCS/LCSD recovery RPD (24 percent) were above acceptance limits (70 to 130 percent, and 20 percent, respectively) in analytical batch 819883. Data qualification was not required, because the associated samples were non-detect for this analyte.
- The LCS recoveries for 1,2,4-trichlorobenzene (131 percent) and carbon tetrachloride (133 percent) were above acceptance limits (70 to 130 percent) in analytical batch 819883. Data qualification was not required, because the associated samples were non-detect for these analytes.
- The LCS recoveries for in 1,2,3-trichlorobenzene (139 percent), dichlorodifluoromethane (134 percent), o-chlorotoluene (132 percent), p-isopropyltoluene (132 percent), and trans-1,3-dichloropropene (133 percent) were above acceptance limits (70 to 130 percent) in analytical batch 819926. Data qualification was not required because the associated samples were non-detect for these analytes.
- The LCS and LCSD recoveries for 1,1,1,2-tetrachloroethane (137 and 134 percent), bromoform (154 percent and 164 percent), hexachlorobutadiene (137 and 134 percent), sec-butylbenzene (134 percent and 132 percent) tert-butylbenzene (131 percent and 134 percent) were above acceptance limits (70

to 130 percent) in analytical batch 819926. Data qualification was not required, because the associated samples were non-detect for these analytes.

- The LCS and LCSD recovery RPD for dichlorodifluoromethane (22 percent) was above the acceptance limit (20 percent) in analytical batch 820687. Data qualification was not required, because individual LCS and LCSD recoveries were within acceptance limits.

2.7 MATRIX SPIKE/DUPLICATE RECOVERY AND RPD

MS/MSD samples were performed at the required frequency and were evaluated by the following criteria:

- If the MS or MSD recovery for an analyte was above acceptance limits but the analyte was not detected in the associated analytical batch, then data qualification was not required.
- If the MS or MSD recovery for an analyte was above acceptance limits and the analyte was detected in the associated analytical batch, then analyte results were qualified "J".
- Low MS/MSD recoveries for inorganic parameters result in sample qualification of the associated analytical batch.
- Low MS/MSD recoveries for organic parameters result in the data qualification of the unspiked sample rather than the analytical batch.
- Results were not qualified based on non-project specific MS/MSD (i.e., batch QC) recoveries.

MS/MSD percent recoveries and RPDs were within acceptance limits with the following exceptions:

- The MS and MSD recoveries for dichlorodifluoromethane (135 percent and 134 percent) were above acceptance limits (70 to 130 percent) in analytical batch 820687. Data qualification was not required, because the parent sample was non-detect for this analyte.
- The MSD recovery for trichlorotrifluoromethane (131 percent) was above acceptance limits (70 to 130 percent). Data qualification was not required, because the parent sample was non-detect for this analyte.

2.8 OTHER APPLICABLE QC PARAMETERS

Continuing calibration recoveries were reported for Method EPA 522; this criteria was flagged by the project laboratory for VOCs but recovery percentages were not

specifically reported within the report package. Continuing calibration verification (CCV) recoveries were acceptable except for the following:

- The project laboratory flagged the following analytes for CCV recovery above method acceptance limits: trans-1,3-dichloropropene, chlorodibromomethane, carbon tetrachloride, 2,2-dichloropropane, 1,1,1,2-tetrachloroethane, carbon disulfide, bromoform, trichlorotrifluoroethane (Freon 113), 1,2,3-trichlorobenzene within analytical batch 819883. Data qualification was not required, because all flagged parameters are non-detect in associated samples.
- The project laboratory flagged the following compounds for CCV recovery above method acceptance limits: sec-butylbenzene, bromoform, dichlorodifluoromethane, hexachlorobutadiene, p-isopropyltoluene within analytical batch 819926. Data qualification was not required because, all flagged parameters are non-detect in associated samples

Method reporting limit (MRL) standards were also evaluated as part of this data validation. The MRL standards are spiked at the reporting limit to verify accuracy at low concentrations. The MRL standards were within acceptance limits with the following exceptions:

- The Method 524.2 MRL recoveries for bromoform (170 percent), chloroform (156 percent), cis-1,3-dichloropropene (172 percent), dichloromethane (154 percent), and trans-1,3-dichloropropene (182 percent) were above acceptance limits (50 to 150 percent) within analytical batch 819883. Data qualification was not required, because the associated samples were non-detect for these analytes.
- The method 524.2 MRL recovers for bromomethane (162 percent) and chlorodibromomethane (158 percent) were above acceptance limits within analytical batch 820687. Data qualification was not required, because the associated samples were non-detect for these analytes.

3.0 COMPLETENESS SUMMARY/CONCLUSION

Two types of completeness were calculated for this project: contract and technical. As specified in the project data quality objectives, as outlined in the PDEQ Sampling and Analysis Plan (PDEQ, 2002), the goal for completeness for the project is 90 percent. Results indicated as not reportable by the laboratory are not included in the completeness calculations. The following equations were used to calculate the two types of completeness:

$$\text{\% Contract Completeness} = \left(\frac{\text{Number of contract compliant results}}{\text{Number of reported results}}\right) \times 100$$

$$\text{\% Technical Completeness} = \left(\frac{\text{Number of usable results}}{\text{Number of reported results}}\right) \times 100$$

The overall contract completeness, which includes the evaluation of protocol and contract deviations, which includes the evaluation of the QC parameters listed in Section 2.0, was 100 percent. The technical completeness attained for this sampling event was 100 percent. The completeness results are provided in Table 3.

Based on the data validation, the trichloroethene, chromium, and 1,4-dioxane sample results were considered usable for the intended purposes and met project data quality objectives.

4.0 REFERENCES

Pima County Department of Environmental Quality, 2002. PDEQ Sampling & Analysis Plan: South-Side Private Well Monitoring Program.

USEPA, 2004. Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. EPA 540/R-04/004

USEPA, 2008. Contract Laboratory Program National Functional Guidelines for Superfund Organic Data Review. EPA 540/R-08/01

TABLES

Table 1
PDEQ South-Side Private Well Monitoring Program
Sample Identification Summary

Sample ID	Laboratory Sample ID	Date Collected	Sample Location/Type	Parameters
2015-PW-14-01	201502110195	2/10/2015	Well head	VOCs, 1,4-Dioxane, Chromium
2015-PW-14-02	201502110196	2/10/2015	Well head	VOCs, 1,4-Dioxane, Chromium
2015-PW-14-02F	201502110197	2/10/2015	Field blank	VOCs, 1,4-Dioxane, Chromium
2015-TB-01	201502110215	2/10/2015	Trip Blank	VOCs
2015-PW-20-01	201502110616	2/10/2015	Tap	VOCs, 1,4-Dioxane, Chromium
2015-PW-20-02	201502110617	2/10/2015	Well head	VOCs, 1,4-Dioxane, Chromium
2015-TB-01	201502110620	2/10/2015	Trip Blank	VOCs
2015-PW-12-01	201502120598	2/11/2015	Tap	VOCs, 1,4-Dioxane, Chromium
2015-PW-12-02	201502120599	2/11/2015	Well head	VOCs, 1,4-Dioxane, Chromium
2015-PW-12-02F	201502120600	2/11/2015	Field blank	VOCs, 1,4-Dioxane, Chromium
2015-PW-11-01	201502120601	2/11/2015	Tap	VOCs, 1,4-Dioxane, Chromium
2015-PW-11-02	201502120602	2/11/2015	Well head	VOCs, 1,4-Dioxane, Chromium
2015-TB-02	201502120605	2/11/2015	Trip Blank	VOCs

Notes:
VOCs = Volatile organic compounds, including trichloroethene; analyzed by EPA Method 524.2
Chromium analyzed by EPA Method 200.8
1,4-Dioxane analyzed by modified EPA Method 522

Table 2
PDEQ South-Side Private Well Monitoring Program
Analytical Results Summary

Sample ID	Date Collected	Sample Location/Type	TCE (ug/L)	1,4-Dioxane (ug/L)	Chromium (ug/L)
2015-PW-14-01	2/10/2015	Well head	1.8	2.8	15
2015-PW-14-02	2/10/2015	Well head	2.4	3.8	9.5
2015-PW-14-02F	2/10/2015	Field blank	< 0.5	< 0.07	< 1
2015-TB-01	2/10/2015	Trip Blank	< 0.5	--	--
2015-PW-20-01	2/10/2015	Outdoor tap	0.75	1.2	< 1
2015-PW-20-02	2/10/2015	Well head	0.78	1.4	4.1
2015-TB-01	2/10/2015	Trip Blank	< 0.5	--	--
2015-PW-12-01	2/11/2015	Outdoor tap	0.71	< 0.07	5.4
2015-PW-12-02	2/11/2015	Well head	0.68	< 0.07	5.5
2015-PW-12-02F	2/11/2015	Field blank	< 0.5	< 0.07	< 1
2015-PW-11-01	2/11/2015	Outdoor tap	1.7	1.5	< 1
2015-PW-11-02	2/11/2015	Well head	1.7	1.4	5.5
2015-TB-02	2/11/2015	Trip Blank	< 0.5	--	--

Notes:
Trichloroethene was analyzed by USEPA Method 524.2
1,4-Dioxane was analyzed by USEPA Method 522
Chromium was analyzed by US EPA Method 200.8
ug/L = micrograms per liter
"<" = Analyte was not detected above the listed reporting limit
"--" = Parameter was not requested

Table 3
PDEQ South-Side Private Well Monitoring Program
Completeness Summary

Parameters	Total Number of Results	Number in Contractual Compliance	Percent Contractual Compliance	Number of Usable Results	Percent Technical Compliance
Volatile Organic Compounds					
Trichloroethene	8	8	100	8	100
Semivolatile Organic Compounds					
1,4-Dioxane	8	8	100	8	100
Metals					
Chromium	8	8	100	8	100

Notes:
Number of samples used in completeness calculations does not include field duplicates, field blanks or trip blanks.
Percent Contractual Compliance = (Number of contract compliant results/Number of reported results) * 100
Percent Technical Compliance = (Number of usable results/Number of reported results) * 100

APPENDIX A

DATA VALIDATION WORKSHEETS

Data Validation Worksheet

Lab Report # 520027 DV by: CJM
Project PDEQ Date: 3/12/15

Lab IDs	Sample IDs	Date Collected	Parameters		
			VOCs (524.2)	1,4-dioxane (522)	Cr (200.8)
201502110195	2015-PW-14-01	2/10/2015	x	x	x
201502110196	2015-PW-14-02	2/10/2015	x	x	x
201502110197	2015-PW-14-02F	2/10/2015	x	x	x
201502110215	2015-TB-01	2/10/2015	x		

Lab ID: Eurofins Eaton Analytical, Monrovia, CA **NO QUALS**
Cooler Temperature: 3.2°C, OK
Chain-of-Custody: Trip blank reported, but not listed on the chain-of-custody
Samples preservatives: OK
Field blank: 2015-PW-14-02F
Field duplicate: none

Parameter: **VOCs (524.2)**

HTs: 14 days; analyzed 2/12/15; OK
Batch IDs: 819883, 819908, 819926
Surrogates: OK
Trip Blank: Clean, OK
Field Blank: Detection for chloroform 1.6 ug/L (also reported as total THM); analyte not detected in primary samples, **No quals**
Method Blanks: Clean, OK
LCS/LCSD: 819883: high LCS recovery for 1,2,3-trichlorobenzene (155%, limits 70-130), high LCS/LCSD RPD 24% (limit 20%), associated sample non-detect, **No quals**
high LCS recovery for 1,2,4-trichlorobenzene (131%, limits 70-130%) potential high bias, associated sample non-detect, **No quals**
high LCS recovery for carbon tetrachloride (133%, 70-130%) potential high bias, associated sample non-detect, **No quals**
819908: OK
819926: 1,1,1,2-tetrachloroethane (137/134%, limits 70-130); potential high bias, associated sample non-detect, **No quals**
high LCS recovery for 1,2,3-trichlorobenzene (139%, limits 70-130%), potential high bias, associated sample non-detect, **No quals**
high LCS/LCSD recovery for bromoform (154/164%, limits 70-130%), potential high bias, associated sample non-detect, **No quals**
high LCS recovery for dichlorodifluoromethane (134%, limits 70-130%), potential high bias, associated sample non-detect, **No quals**
high LCS/LCSD recovery for hexachlorobutadiene (137/134%, limits 70-130%), potential high bias, associated sample non-detect, **No quals**
high LCS recovery for o-chlorotoluene (132,% limits 70-130%), potential high bias, associated sample non-detect, **No quals**
high LCS recovery for p-isopropyltoluene (132,% limits 70-130%), potential high bias, associated sample non-detect, **No quals**
high LCS/LCSD recovery for sec-butylbenzene (134/132%, limits 70-130%), potential high bias, associated sample non-detect, **No quals**
high LCS/LCSD recovery for tert-butylbenzene (131/134%, limits 70-130%), potential high bias, associated sample non-detect, **No quals**

high LCS recovery for trans-1,3-dichloropropene (133% limits 70-130%), potential high bias, associated sample non-detect, **No quals**

MS/MSD: Not performed

MRL Check: 819883: high MRL recovery for bromoform (170%, limits 50-150%) potential high bias, associated sample non-detect, **No quals**
high MRL recovery for chloroform (156%, limits 50-150%) potential high bias, associated sample non-detect, **No quals**
high MRL recovery for cis-1,3-dichloropropene (172%, limits 50-150%) potential high bias, associated sample non-detect, **No quals**
high MRL recovery for dichloromethane (154%, limits 50-150%) potential high bias, associated sample non-detect, **No quals**
high MRL recovery for trans-1,3-dichloropropene (182%, limits 50-150%) potential high bias, associated sample non-detect, **No quals**
819908: OK
819926: Not performed

MRLLW: OK

CCV: 819883: Laboratory flagged the following compounds for CCV recovery above method acceptance limits (percentages not reported in package): trans-1,3-dichloropropene, chlorodibromomethane, carbon tetrachloride, 2,2-dichloropropane, 1,1,1,2-tetrachloroethane, carbon disulfide, bromoform, trichlorotrifluorothane (Freon 113), 1,2,3-trichlorobenzene. All flagged parameters are non-detect in associated sample; **No quals**
819926: Laboratory flagged the following compounds for CCV recovery above method acceptance limits (percentages not reported in package): sec-butylbenzene, bromoform, dichlorodifluoromethane, hexachlorobutadiene, p-isopropyltoluene. All flagged parameters are non-detect in associated sample; **No quals**

Parameter: **1,4-Dioxane (522)**

HTs: 28 days; prepared 2/14/15 and 2/15/15, analyzed 2/17/15, OK
Batch IDs: 820713, 821280
Surrogates: OK
Field Blank: Clean, OK
MRL Check: OK
Method Blanks: Clean, OK
LCS: OK
MS/MSD: 820713: Sample 201502090610 (batch QC, non-project specific) spiked; OK
821280: Sample 201502100474 (batch QC, non-project specific) spiked; OK
CCCL/M/H: OK

Parameter: **Cr (200.8)**

HTs: 6 months; prepared 2/11/15, analyzed 2/18/15, 2/24/15; OK
Batch IDs: 820982, 822019
Method Blanks: Clean; OK
MRL Check: OK
LCS/LCSD: OK
MS/MSD: 820982: Sample 201502110572 (batch QC, non-project specific) spiked; OK
Sample 201502120356 (batch QC, non-project specific) spiked; OK
822019: Sample 201502190703 (batch QC, non-project specific) spiked; OK
Field Blank: Clean, OK

Data Validation Worksheet

Lab Report # 520151 DV by: CJM
Project PDEQ Date: 3/13/15

Lab IDs	Sample IDs	Date Collected	Parameters		
			VOCs (524.2)	1,4-dioxane (522)	Cr (200.8)
201502110616	2015-PW-20-01	2/10/2015	x	x	x
201502110617	2015-PW-20-02	2/10/2015	x	x	x
201502110618	*2015-PW-20-02L MS*	2/10/2015	x	x	x
201502110619	*2015-PW-20-02L MSD*	2/10/2015	x	x	x
201502110620	2015-TB-01	2/10/2015	x		

Lab ID: Eurofins Eaton Analytical, Monrovia, CA **NO QUALS**
Cooler Temperature: 2.8°C, OK
Chain-of-Custody: Trip blank reported, but not listed on the chain-of-custody
Samples preservatives: OK
Field blank: none
Field duplicate: none
Comments: Field notes indicate that samples 2015-PW-20-02L MS and 2015-PW-20-02L MSD were collected with 2015-PW-20-02 and marked for use as laboratory spike samples.

Parameter: **VOCs (524.2)**

HTs: 14 days; analyzed 2/16/15; OK
Batch IDs: 820687
Surrogates: OK
Trip Blank: Clean, OK
Method Blanks: Clean, OK
LCS/LCSD: high LCS/LCSD RPD for dichlorodifluoromethane (22% , limit 20%), individual LCS and LCSD in standard, **No quals** based on RPD
MS/MSD: Sample 201502110617 (2015-PW-20-02) spiked; high MS/MSD recovery for dichlorodifluoromethane (135/134, limits 70-130%), potential high bias, associated sample non-detect, **No quals**
Sample 201502120602 (project-specific, 2015-PW-11-01) spiked; high MSD recovery for trichlorotrifluoromethane (131%, limits 70-130%) potential high bias, qualification applies to parent sample only (not reported in this SDG), **No quals**
MRL Check: high MRL recovery for bromomethane (162%, limits 50-150%) potential high bias, associated sample non-detect, **No quals**
high MRL recovery for chlorodibromomethane (158%, limits 50-150%) potential high bias, associated sample non-detect, **No quals**
MRLLW: OK

Parameter: **1,4-Dioxane (522)**

HTs: 28 days; prepared 2/15/15, analyzed 2/17/15, OK
Batch IDs: 821280
Surrogates: OK
MRL Check: OK
Method Blanks: Clean, OK
LCS: OK
MS/MSD: Sample 201502100474 (batch QC, non-project specific) spiked; OK
CCCL/M/H: OK

Parameter: **Cr (200.8)**

HTs: 6 months; prepared 2/12/15, analyzed 2/13/15, 2/18/15; OK
Batch IDs: 820120, 820982
Method Blanks: Clean; OK
MRL Check: OK
LCS/LCSD: OK
MS/MSD: 820120: Sample 201502040447 (batch QC, non-project specific) spiked; OK
Sample 201502040448 (batch QC, non-project specific) spiked; OK
820982: Sample 201502110572 (batch QC, non-project specific) spiked; OK
Sample 201502120356 (batch QC, non-project specific) spiked; OK

Data Validation Worksheet

Lab Report # 520407 DV by: CJM
Project PDEQ Date: 3/13/15

Lab IDs	Sample IDs	Date Collected	Parameters		
			VOCs (524.2)	1,4-dioxane (522)	Cr (200.8)
201502120598	2015-PW-12-01	2/11/2015	x	x	x
201502120599	2015-PW-12-02	2/11/2015	x	x	x
201502120600	2015-PW-12-02F	2/11/2015	x	x	x
201502120601	2015-PW-11-01	2/11/2015	x	x	x
201502120602	2015-PW-11-02	2/11/2015	x	x	x
201502120603	*2015-PW-11-02L MS*	2/11/2015	x	x	x
201502120604	*2015-PW-11-02L MSD*	2/11/2015	x	x	x
201502120605	2015-TB-02	2/11/2015	x		

Lab ID: Eurofins Eaton Analytical, Monrovia, CA **NO QUALS**
Cooler Temperature: 2.9°C, OK
Chain-of-Custody: Trip blank reported, but not listed on the chain-of-custody
Samples preservatives: OK
Field blank: 2015-PW-12-02F
Field duplicate: none
Comments: Field notes indicate that samples 2015-PW-11-02L MS and 2015-PW-11-02L MSD were collected with 2015-PW-11-02 and marked for use as laboratory spike samples.

Parameter: **VOCs (524.2)**

HTs: 14 days; analyzed 2/16/15, 2/19/15; OK
Batch IDs: 820687, 821448
Surrogates: OK
Trip Blank: Clean, OK
Field Blank: Detection for chloroform 1.9 ug/L (also reported as total THM); analyte not detected in primary samples, **No quals**
Method Blanks: Clean, OK
LCS/LCSD: 820687: high LCS/LCSD RPD for dichlorodifluoromethane (22% , limit 20%), individual LCS and LCSD in standard, **No quals** based on RPD
821448: OK
MS/MSD: 820687: Sample 201502110617 (project specific, 2015-PW-20-2) spiked; high MS/MSD recovery for dichlorodifluoromethane (135/134, limits 70-130%), potential high bias, qualification applies to parent sample only (not reported in this SDG), **No quals**
Sample 201502120602 (2015-PW-11-01) spiked; high MSD recovery for trichlorotrifluoromethane (131%, limits 70-130%) potential high bias, associated sample non-detect, **No quals**
821448: not performed
MRL Check: 8206867: high MRL recovery for bromomethane (162%, limits 50-150%) potential high bias, associated samples non-detect, **No quals**
high MRL recovery for chlorodibromomethane (158%, limits 50-150%) potential high bias, associated samples non-detect, **No quals**
821448: OK
MRLLW: OK

Parameter: **1,4-Dioxane (522)**

HTs: 28 days; prepared 2/19/15, analyzed 2/20/15; OK
Batch IDs: 821889
Surrogates: OK

MRL Check: OK
Field Blank: Clean; OK
Method Blanks: Clean, OK
LCS: OK
MS/MSD: Sample 201502190215 (batch QC, non-project specific) spiked; OK
CCCL/M/H: OK

Parameter: **Cr (200.8)**

HTs: 6 months; prepared 2/12/15, analyzed 2/16/15, 2/18/15; OK
Batch IDs: 820669, 820982
Field Blank: Clean; OK
Method Blanks: Clean; OK
MRL Check: OK
LCS/LCSD: OK
MS/MSD: 820669: Sample 201502120682 (batch QC, non-project specific) spiked; OK
Sample 201501230313 (batch QC, non-project specific) spiked; OK
820982: Sample 201502110572 (batch QC, non-project specific) spiked; OK
Sample 201502120356 (batch QC, non-project specific) spiked; OK

APPENDIX B

FIELD NOTES

#16 2/9/2015 10:55

pH calibration
Accumet #1

pH buffer	expiration	reading	temp (c)
4.00	4/16	3.99	22.3
7.00	5/16	6.98	22.4
10.00	3/16	10.02	22.5

Slope = 58.42

Accumet #3

pH buffer	expiration	reading	temp (c)
4.00	4/16	4.00	22.6
7.00	5/16	7.01	22.5
10.00	3/16	10.03	22.5

Slope = 58.18

EC Meter 11:25
let both sensors soak in 1408 uS/cm buffer

Meter #1 calibrated to 1408 uS/cm at 29.3 °C
Meter #2 calibrated to 1414 uS/cm at 26.6 °C
Temp difference observed between both sensors in the same solution at the same time
* Use temp reading from pH meters

#17 2/10/15

PW-14 9:32 - 10:52

Weather: 15°C, Sunny

Well Head Sample Quality

Temp = 19.7°C

pH = 7.33

EC = 978 uS/cm

2 drops HCl for ≤ 2 pH

Well Head Sample PW-14-01

10:07 - 10:13

Running Pump

Min	Time	pH	Temp (°C)	EC (uS/cm)
0	10:15	7.31	23.1	1012
5	10:20	7.44	24.1	948
10	10:25	7.47	24.0	901

Well Head Sample PW-14-02

10:26 - 10:28

Field Blank Sample PW-14-02F

10:35 - 10:41

#18 2/10/15

PW-20 12:26 - 13:32

Weather: 20°C Sunny

Tap Quality

Temp = 20.0°C

pH = 7.11

EC = 977 uS/cm

1 drop HCl for ≤ 2.0 pH

Tap Sample PW 20-01

12:48 - 12:52

Running Pump

~~Min Temp(°C)~~ KLR 2/10/15

Min	Time	Temp °C	pH	EC (uS/cm)
0	13:00	23.7	7.16	834
5	13:05	21.6	7.46	753
10	13:10	22.4	7.21	831

Well Head Sample PW-20-02

13:11 - 13:13

Lab Spike Sample PW-20-02 LMS

13:16 - 13:19

Lab Spike Sample PW-20-02 LMSD

13:20 - 13:23

#19 2/11/15

PW-12 8:41 - 9:37

Weather: 10°C, Sunny

Tap Water Quality

Temp = ~~20.0 °C~~ KKR 3/2/15 16.4

pH = ~~7.11~~ 7.52

EC = ~~977 uS/cm~~ 491

1 drop HCl for ≤ 2.0 pH

Tap Sample PW-12-01

8:46 - 8:50

Running Well

Min	Time	Temp (°C)	pH	EC (uS/cm)
0	9:04	17.3	7.74	520
5	9:09	21.7	7.92	540
10	9:14	21.1	7.94	544

- Well stopped running at 9:12, samples are from the water tank

Well Head Sample PW-12-02

9:14 - 9:16

Field Blank Sample PW-12-02F

9:25 - 9:28

- Caps of 125ml Amber bottles (1,4-dioxane) fell on ground and were rinsed with ~~DI Water~~

KLR 2/11/15

#20 ~~27~~ 2/11/15

PW-11 9:48 - 11:02

Weather: Sunny, 13°C

Tap Water Quality

Temp: 16.5°C

pH: 7.48

EC: 738 µS/cm

2 drops of HCl for ≤ 2.0 pH

Tap Sample PW 11-01

10:05 - 10:09

Running Well

Min	Time	Temp(°C)	pH	EC(µS/cm)
0	10:15	23.4	7.54	731
5	10:20	24.6	7.62	701
10	10:25	24.5	7.65	686

Well Head Sample PW-11-02

10:36 - 10:38

Lab Spike Sample PW-11-02 LMS

10:40 - 10:41

Lab Spike Sample PW-11-02-LMSD

10:45 - 10:47

PIMA COUNTY
ENVIRONMENTAL QUALITY

33 N. Stone Avenue, Suite 700
Tucson, Arizona 85701-1429
www.pima.gov/deq

Ursula Nelson, P.E. (520) 724-7400
Director FAX (520) 838-7432

May 15, 2015

[redacted]

Subject: Laboratory Results for Water Samples Collected on February 11, 2015 @ Well #11

Dear [redacted]

Enclosed are laboratory results for the water samples Pima County Department of Environmental Quality collected from the bathroom sink tap and well head on February 11, 2015 located at [redacted]

The following table summarizes the analytical results that appear in the attached laboratory reports. The data are currently being validated and you will be notified if the laboratory values change as a result of this validation process. The table also shows the maximum contaminant level (MCL) or *Regional Screening Level* for each of the contaminants, if established.

sample number / sample source	sample date	concentration (µg/L or parts per billion)					
		TCE		chromium		1,4-dioxane	
		laboratory results	MCL	laboratory results	MCL	laboratory results	Regional Screening Level
15-PW11-01 outdoor tap	02.11.15	**1.7**	5	**ND@1**	100	**1.5**	0.35
15-PW11-02 well head	02.11.15	**1.7**	5	**5.5**	100	**1.4**	0.35

µg/L = micrograms per liter
TCE = trichloroethene = trichloroethylene
MCL= maximum contaminant level
ND = non-detectable concentration at the identified reporting limit

The MCL values for trichloroethene (or trichloroethylene or TCE) and chromium establish the highest permissible concentrations in drinking water. The United States Environmental Protection Agency (EPA) has not yet established an enforceable drinking water standard for 1,4-dioxane. Consequently, a *Regional Screening Level* (RSL) of 0.35 µg/L is being used. EPA derived the RSL for the concentration of a chemical in drinking water corresponding to an excess estimated lifetime cancer risk of 1 in 1,000,000.

As you can see from the table, the samples contained low levels of TCE and chromium both of which are below the MCL. The concentrations of 1,4-dioxane found in water samples from the outdoor tap and well head samples exceed the EPA *Regional Screening Level*. Due to these levels of 1,4-dioxane, you are advised to avoid using the well water for drinking or cooking purposes and instead use bottled water. The well water may be used for showering and landscape irrigation purposes. EPA has established new RSL for water exposed to skin called the dermal RSL and the value is 220 µg/L.

Please call if you have any questions or if you would like to meet to discuss the laboratory reports further. I can be reached at 724-7457. Thank you again for your continued cooperation.

Sincerely,

Marie Light

Marie Light
Principal Hydrologist

Attachment: Laboratory Report

cc: Mary Aycock / United States Environmental Protection Agency
William Ellett / Arizona Department of Environmental Quality
Eric Roudebush / Tucson Airport Authority

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1 800 566 LABS (1 800 566 5227)

NELAP ACCREDITED TNI LABORATORY ORELAP 4034

ilac-MRA

ACLASS ACCREDITED TESTING AT-1807

Laboratory Report

for

Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
Attention: Marie Light
Fax: 520-838-7432

Date of Issue
02/27/2015

Eurofins Eaton Analytical

TDF: Thomas.D.French

Project Manager

Report: 520407
Project: PCDEQ-GW
ADHS License #: AZ0778
Group: Groundwater/Day 2

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* This report shall not be reproduced except in full, without the written approval of the laboratory.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2014-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	14-003r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-7
Kansas *	E-10268	**Utah ***	CA000062014-7
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	460260
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, Inc.
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
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www.EatonAnalytical.com

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

Version 002. Issued: 06/03/2014

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Acknowledgement of Samples Received

Addr: **Pima County DEQ**
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Client ID: PIMA-AZ
Folder #: 520407
Project: PCDEQ-GW
Sample Group: Groundwater/Day 2

Attn: Marie Light
Phone: 520-724-7457

Project Manager: Thomas.D.French
Phone: (480) 778-1558

The following samples were received from you on **February 12, 2015** at **1724**. 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 Eurofins Eaton Analytical.

Sample #	Sample ID			Sample Date
201502120598	2015-PW-12-01			02/11/2015 0846
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
	Sample Return			
201502120599	2015-PW-12-02			02/11/2015 0914
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120600	2015-PW-12-02F			02/11/2015 0925
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120601	2015-PW-11-01			02/11/2015 1005
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120602	2015-PW-11-02			02/11/2015 1036
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120603	2015-PW-11-02L MS			02/11/2015 1040
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120604	2015-PW-11-02L MSD			02/11/2015 1045
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120605	2015-TB-02			02/11/2015 0846
	@VOASDWA TB			

Test Description

@UCMR3 522 -- UCMR3 1,4-Dioxane by EPA 522

@VOASDWA -- Volatile Organics by GCMS

@VOASDWA TB -- Volatile Organics by GCMS

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

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CHAIN OF CUSTODY RECORD

526407

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: NE

SAMPLES LOGGED IN BY: W

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

SAMPLE TEMP RECEIVED AT:

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 3.2-0.3 2.9 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice ✓ No Ice _____

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

6264 5070 3880

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Pima County Dept of Env. Qual.

PROJECT CODE: PCDEQ-GW

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Groundwater / Day 2

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms ☐

NON-COMPLIANCE SAMPLES ☑ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): **ROUTINE SPECIAL CONFIRMATION** (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ✓ (check for yes), ***OR***

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

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	EPA 200.8	EPA 524.2	EPA 522	SAMPLER COMMENTS
2/11	8:46	2015-PW-12-01		RGW			1	3	3	
2/11	9:14	2015-PW-12-02		"			1	3	3	
2/11	9:25	2015-PW-12-02F		"			1	3	3	
2/11	10:05	2015-PW-11-01		"			1	3	3	
2/11	10:36	2015-PW-11-02		"			1	3	3	
2/11	10:40	2015-PW-11-02LMS		"			1	3	3	
2/11	10:45	2015-PW-11-02LMSD		"			1	3	3	

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	Marie Light	Pima County/Principal Hydrologist	02/11/2015	12:01PM
RELINQUISHED BY:					
RECEIVED BY:		Maria Escalante	EEA	2/12/15	17:24
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029 (06/26/2013)

PAGE 1 OF 1

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

Laboratory Comments
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Flags Legend:

L3 - The associated blank spike recovery was above method acceptance limits.

M1 - Matrix spike recovery was high; the associated blank spike recovery was acceptable.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Samples Received on:
02/12/2015 1724

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201502120598	**2015-PW-12-01**				
02/16/2015 17:39	Chromium Total ICAP/MS		5.4	100	ug/L	1
02/16/2015 18:34	Trichloroethylene (TCE)		0.71	5	ug/L	0.5
	201502120599	**2015-PW-12-02**				
02/16/2015 17:54	Chromium Total ICAP/MS		5.5	100	ug/L	1
02/16/2015 18:56	Trichloroethylene (TCE)		0.68	5	ug/L	0.5
	201502120600	**2015-PW-12-02F**				
02/19/2015 9:43	Chloroform (Trichloromethane)		1.9		ug/L	0.5
02/19/2015 9:43	Total THM		1.9	80	ug/L	0.5
	201502120601	**2015-PW-11-01**				
02/20/2015 15:39	1,4-Dioxane		1.5		ug/L	0.07
02/16/2015 19:18	Trichloroethylene (TCE)		1.7	5	ug/L	0.5
	201502120602	**2015-PW-11-02**				
02/20/2015 15:55	1,4-Dioxane		1.4		ug/L	0.07
02/18/2015 16:39	Chromium Total ICAP/MS		5.5	100	ug/L	1
02/16/2015 19:40	Trichloroethylene (TCE)		1.7	5	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

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Report: 520407

Pima County DEQ
Marie Light
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Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Total THM	1.9	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-11-01 (201502120601)							**Sampled on**	**02/11/2015 1005**	
		EPA 200.8 - ICPMS Metals							
2/12/2015	02/16/2015	17:35	820669	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/19/2015	02/20/2015	15:39	821889	(EPA 522)	1,4-Dioxane	1.5	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1

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

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Report: 520407

Pima County DEQ
Marie Light
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Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Samples Received on:
02/12/2015 1724

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Trichloroethylene (TCE)	1.7	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:18	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-11-02 (201502120602)							**Sampled on**	**02/11/2015 1036**	
		EPA 200.8 - ICPMS Metals							
2/12/2015	02/18/2015	16:39	820982	(EPA 200.8)	Chromium Total ICAP/MS	5.5	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/19/2015	02/20/2015	15:55	821889	(EPA 522)	1,4-Dioxane	1.4	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 19:40	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1

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

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750 Royal Oaks Drive, 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: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Trichloroethylene (TCE)	1.7	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Trichlorofluoromethane	ND (M1)	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	19:40	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

2015-TB-02 (201502120605) **Sampled on 02/11/2015 0846**

EPA 524.2 - Volatile Organics by GCMS

2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	21:07	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1

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

PIMA COUNTY
ENVIRONMENTAL QUALITY

33 N. Stone Avenue, Suite 700
Tucson, Arizona 85701-1429
www.pima.gov/deq

Ursula Nelson, P.E. (520) 724-7400
Director FAX (520) 838-7432

May 15, 2015

[redacted]

Subject: Laboratory Results for Water Samples Collected on February 11, 2015 @ Well #12

Dear [redacted]

Enclosed are laboratory results for the water samples that Pima County Department of Environmental Quality collected on February 11, 2015 from Emery Mobile Home Park located at [redacted]

The following table summarizes the analytical results that appear in the attached laboratory reports. The data are currently being validated and you will be notified if the laboratory values change as a result of this validation process. The table also shows the maximum contaminant level (MCL) or *Regional Screening Level* for each of the contaminants, if established.

sample number / sample source	sample date	concentration (µg/L or ppb)					
		TCE		chromium		1,4-dioxane	
		laboratory results	MCL	laboratory results	MCL	laboratory results	*Regional Screening Level*
15-PW12-01 kitchen tap	02.11.15	**0.71**	5	**5.4**	100	**ND @ .07**	0.35
15-PW12-02 well head	02.11.15	**0.68**	5	**5.5**	100	**ND @ .07**	0.35

µg/L = micrograms per liter
ppb = parts per billion
TCE = trichloroethene = trichloroethylene
MCL= maximum contaminant level
ND = non-detectable at the reporting limit of 0.07 µg/L

The MCL values for trichloroethene (or trichloroethylene or TCE) and chromium establish the highest permissible concentrations in drinking water. The United States Environmental Protection Agency (EPA) has not yet established an enforceable drinking water standard for 1,4-dioxane. Consequently, a *Regional Screening Level* (RSL) of 0.35 µg/L is being used. EPA derived the RSL for the concentration of a chemical in drinking water corresponding to an excess estimated lifetime cancer risk of 1 in 1,000,000. As you can see from the table, the water from the kitchen tap and well head meets these standards. Water from your well is safe to use for drinking and cooking purposes.

Please call if you have any questions or if you would like to meet to discuss the laboratory reports further. I can be reached at 724-7457. Thank you again for your continued cooperation.

Sincerely,

Marie Light

Marie Light
Principal Hydrologist

attachment

cc: Mary Aycock/ United States Environmental Protection Agency
William Ellett / Arizona Department of Environmental Quality
Eric Roudebush / Tucson Airport Authority
Mary Vasquez / Emery Park Mobile Homes

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NELAP ACCREDITED TNI LABORATORY ORELAP 4034

ilac-MRA

ACLASS ACCREDITED TESTING AT-1807

Laboratory Report

for

Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
Attention: Marie Light
Fax: 520-838-7432

Date of Issue
02/27/2015

Eurofins Eaton Analytical

TDF: Thomas.D.French

Project Manager

Report: 520407
Project: PCDEQ-GW
ADHS License #: AZ0778
Group: Groundwater/Day 2

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* This report shall not be reproduced except in full, without the written approval of the laboratory.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2014-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	14-003r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-7
Kansas *	E-10268	**Utah ***	CA000062014-7
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	460260
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, Inc.
750 Royal Oaks Drive, Suite 100
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www.EatonAnalytical.com

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Sulfite	SM 4500-SO^{3}B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

Version 002. Issued: 06/03/2014

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Acknowledgement of Samples Received

Addr: **Pima County DEQ**
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Client ID: PIMA-AZ
Folder #: 520407
Project: PCDEQ-GW
Sample Group: Groundwater/Day 2

Attn: Marie Light
Phone: 520-724-7457

Project Manager: Thomas.D.French
Phone: (480) 778-1558

The following samples were received from you on **February 12, 2015** at **1724**. 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 Eurofins Eaton Analytical.

Sample #	Sample ID			Sample Date
201502120598	2015-PW-12-01			02/11/2015 0846
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
	Sample Return			
201502120599	2015-PW-12-02			02/11/2015 0914
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120600	2015-PW-12-02F			02/11/2015 0925
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120601	2015-PW-11-01			02/11/2015 1005
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120602	2015-PW-11-02			02/11/2015 1036
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120603	2015-PW-11-02L MS			02/11/2015 1040
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120604	2015-PW-11-02L MSD			02/11/2015 1045
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502120605	2015-TB-02			02/11/2015 0846
	@VOASDWA TB			

Test Description

@UCMR3 522 -- UCMR3 1,4-Dioxane by EPA 522

@VOASDWA -- Volatile Organics by GCMS

@VOASDWA TB -- Volatile Organics by GCMS

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

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CHAIN OF CUSTODY RECORD

526407

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: NE

SAMPLES LOGGED IN BY: W

SAMPLE TEMP RECEIVED AT:

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 3.2-0.3 2.9 °C (Compliance: 4 ± 2 °C)

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

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice ✓ No Ice _____

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

6264 5070 3880

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Pima County Dept of Env. Qual.

PROJECT CODE: PCDEQ-GW

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Groundwater / Day 2

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms ☐

NON-COMPLIANCE SAMPLES ☑ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): **ROUTINE SPECIAL CONFIRMATION** (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ✓ (check for yes), ***OR***

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

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	EPA 200.8	EPA 524.2	EPA 522	SAMPLER COMMENTS
2/11	8:46	2015-PW-12-01		RGW			1	3	3	
2/11	9:14	2015-PW-12-02		"			1	3	3	
2/11	9:25	2015-PW-12-02F		"			1	3	3	
2/11	10:05	2015-PW-11-01		"			1	3	3	
2/11	10:36	2015-PW-11-02		"			1	3	3	
2/11	10:40	2015-PW-11-02LMS		"			1	3	3	
2/11	10:45	2015-PW-11-02LMSD		"			1	3	3	

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	Marie Light	Pima County/Principal Hydrologist	02/11/2015	12:01PM
RELINQUISHED BY:					
RECEIVED BY:		Maria Escalante	EEA	2/12/15	17:24
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029 (06/26/2013)

PAGE 1 OF 1

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

Laboratory Comments
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Flags Legend:

L3 - The associated blank spike recovery was above method acceptance limits.

M1 - Matrix spike recovery was high; the associated blank spike recovery was acceptable.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits
Report: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Samples Received on:
02/12/2015 1724

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201502120598	**2015-PW-12-01**				
02/16/2015 17:39	Chromium Total ICAP/MS		5.4	100	ug/L	1
02/16/2015 18:34	Trichloroethylene (TCE)		0.71	5	ug/L	0.5
	201502120599	**2015-PW-12-02**				
02/16/2015 17:54	Chromium Total ICAP/MS		5.5	100	ug/L	1
02/16/2015 18:56	Trichloroethylene (TCE)		0.68	5	ug/L	0.5
	201502120600	**2015-PW-12-02F**				
02/19/2015 9:43	Chloroform (Trichloromethane)		1.9		ug/L	0.5
02/19/2015 9:43	Total THM		1.9	80	ug/L	0.5
	201502120601	**2015-PW-11-01**				
02/20/2015 15:39	1,4-Dioxane		1.5		ug/L	0.07
02/16/2015 19:18	Trichloroethylene (TCE)		1.7	5	ug/L	0.5
	201502120602	**2015-PW-11-02**				
02/20/2015 15:55	1,4-Dioxane		1.4		ug/L	0.07
02/18/2015 16:39	Chromium Total ICAP/MS		5.5	100	ug/L	1
02/16/2015 19:40	Trichloroethylene (TCE)		1.7	5	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

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Pima County DEQ
Marie Light
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Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2015-PW-12-01 (201502120598)						**Sampled on 02/11/2015 0846**		
		EPA 200.8 - ICPMS Metals						
2/12/2015	02/16/2015 17:39	820669	(EPA 200.8)	Chromium Total ICAP/MS	5.4	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
2/19/2015	02/20/2015 14:51	821889	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS						
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 18:34	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1

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

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Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Trichloroethylene (TCE)	0.71	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:34	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-12-02 (201502120599)							**Sampled on**	**02/11/2015 0914**	
		EPA 200.8 - ICPMS Metals							
2/12/2015	02/16/2015	17:54	820669	(EPA 200.8)	Chromium Total ICAP/MS	5.5	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/19/2015	02/20/2015	15:07	821889	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1

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

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750 Royal Oaks Drive, 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: 520407

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/12/2015 1724

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Trichloroethylene (TCE)	0.68	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	18:56	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-12-02F (201502120600)							**Sampled on**	**02/11/2015 0925**	
		EPA 200.8 - ICPMS Metals							
2/12/2015	02/16/2015	17:33	820669	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/19/2015	02/20/2015	15:23	821889	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2015	02/19/2015	9:43	821448	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1

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

PIMA COUNTY
ENVIRONMENTAL QUALITY

33 N. Stone Avenue, Suite 700
Tucson, Arizona 85701-1429
www.pima.gov/deq

Ursula Nelson, P.E. (520) 724-7400
Director FAX (520) 838-7432

May 15, 2015

[redacted]

Subject: Laboratory Results for Water Samples Collected on February 10, 2015 @ Well #14

Dear [redacted]

Enclosed are laboratory results for the water samples that Pima County Department of Environmental Quality (Pima County DEQ) collected from the bathroom sink tap and well head on February 10, 2015 located at [redacted]

The following table summarizes the analytical results that appear in the attached laboratory reports. The data are currently being validated and you will be notified if the laboratory values change as a result of this validation process. The table also shows the maximum contaminant level (MCL) or *Regional Screening Level* for each of the contaminants, if established.

sample number / sample source	sample date	concentration (µg/L or parts per billion)					
		TCE		chromium		1,4-dioxane	
		laboratory results	MCL	laboratory results	MCL	laboratory results	Regional Screening Level
15-PW14-01 well head	02.10.15	**1.8**	5	**15**	100	**2.8**	0.35
15-PW14-02 well head	02.10.15	**2.4**	5	**9.5**	100	**3.8**	0.35

µg/L = micrograms per liter
TCE = trichloroethene = trichloroethylene
MCL= maximum contaminant level

The MCL values for trichloroethene (or trichloroethylene or TCE) and chromium establish the highest permissible concentrations in drinking water. The United States Environmental Protection Agency (EPA) has not yet established an enforceable drinking water standard for 1,4-dioxane. Consequently, a *Regional Screening Level* (RSL) of 0.35 µg/L is being used. EPA derived the RSL for the concentration of a chemical in drinking water corresponding to an excess estimated lifetime cancer risk of 1 in 1,000,000.

As you can see from the table, low levels of TCE and chromium were detected in water samples collected at the well head. The TCE and chromium levels are below the maximum contaminant levels established for drinking water. This means that the well water is safe to use, as it relates to TCE and chromium. The concentrations of 1,4-dioxane found in water samples from both well head samples exceed the EPA *Regional Screening Level*. Due to these levels of 1,4-dioxane, you are advised to avoid using the well water for drinking or cooking purposes and instead use bottled water. The well water may be used for showering and landscape irrigation purposes. EPA has established new RSL for water exposed to skin called the dermal RSL and the value is 220 µg/L.

Please call if you have any questions or if you would like to meet to discuss the laboratory reports further. I can be reached at 724-7457. Thank you again for your continued cooperation.

Sincerely,

Marie Light

Marie Light
Principal Hydrologist

Attachment: Laboratory Report

cc: Mary Aycock / United States Environmental Protection Agency
William Ellett / Arizona Department of Environmental Quality
Eric Roudebush / Tucson Airport Authority

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NELAP ACCREDITED TNI LABORATORY ORELAP 4034

ilac-MRA

ACLASS ACCREDITED TESTING AT-1807

Laboratory Report

for

Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
Attention: Marie Light
Fax: 520-838-7432

Date of Issue
02/27/2015

Eurofins Eaton Analytical

TDF: Thomas.D.French

Project Manager

Report: 520027
Project: PCDEQ-GW
ADHS License #: AZ0778
Group: Groundwater/Day 1

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* This report shall not be reproduced except in full, without the written approval of the laboratory.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2014-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	14-003r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-7
Kansas *	E-10268	**Utah ***	CA000062014-7
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	460260
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, Inc.
750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
T | 626-386-1100
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www.EatonAnalytical.com

ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Sulfite	SM 4500-SO^3B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Acknowledgement of Samples Received

Addr: **Pima County DEQ**
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Client ID: PIMA-AZ
Folder #: 520027
Project: PCDEQ-GW
Sample Group: Groundwater/Day 1

Attn: Marie Light
Phone: 520-724-7457

Project Manager: Thomas.D.French
Phone: (480) 778-1558

The following samples were received from you on **February 11, 2015** at **1217**. 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 Eurofins Eaton Analytical.

Sample #	Sample ID			Sample Date
201502110195	2015-PW-14-01			02/10/2015 1007
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110196	2015-PW-14-02			02/10/2015 1026
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110197	2015-PW-14-02F			02/10/2015 1035
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110215	2015-TB-01			02/10/2015 1007
	@VOASDWA TB			

Test Description

@UCMR3 522 -- UCMR3 1,4-Dioxane by EPA 522

@VOASDWA -- Volatile Organics by GCMS

@VOASDWA TB -- Volatile Organics by GCMS

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

520027

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CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: 3.5 - .3 = 3.2

SAMPLES CHECKED AGAINST COC BY: D

SAMPLES LOGGED IN BY: W

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

SAMPLE TEMP RECEIVED AT:

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 3.2 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice ✓ No Ice _____

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

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Pima County Dept of Env. Quality

PROJECT CODE: PCDEQ-GW

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Kit # 104016 Day 1

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms ☐

NON-COMPLIANCE SAMPLES ☑ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ☑ (check for yes), ***OR***

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

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	Cx EPA 200.8	524.2 VOC EPA 8	HD EPA 522											SAMPLER COMMENTS
2/10	10:07	2015-PW-14-01		RGW			1	3	3											
2/10	10:26	2015-PW-14-02		RGW			1	3	3											
2/10	10:35	2015-PW-14-02F		RGW			1	3	3											

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	Marie Light	PDEQ/Principal Hydrologist	02/10/15	14:45
RELINQUISHED BY:					
RECEIVED BY:	Michael Uribe				
RELINQUISHED BY:	12:17				
RECEIVED BY:					

FEB 11 2015

Michael Uribe

QA FO 0029 (06/26/2013)

PAGE _____ OF _____

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1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 520027

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Flags Legend:

L3 - The associated blank spike recovery was above method acceptance limits.

R2 - RPD/RSD exceeded the laboratory acceptance limit.

V1 - CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

The Comments Report may be blank if there are no comments for this report.

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750 Royal Oaks Drive, Suite 100
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Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 520027

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Samples Received on:
02/11/2015 1217

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201502110195	**2015-PW-14-01**				
02/17/2015 00:24	1,4-Dioxane		2.8		ug/L	0.07
02/24/2015 16:37	Chromium Total ICAP/MS		15	100	ug/L	1
02/12/2015 12:25	Trichloroethylene (TCE)		1.8	5	ug/L	0.5
	201502110196	**2015-PW-14-02**				
02/17/2015 16:34	1,4-Dioxane		3.8		ug/L	0.07
02/18/2015 16:49	Chromium Total ICAP/MS		9.5	100	ug/L	1
02/12/2015 13:14	Trichloroethylene (TCE)		2.4	5	ug/L	0.5
	201502110197	**2015-PW-14-02F**				
02/12/2015 12:48	Chloroform (Trichloromethane)		1.6		ug/L	0.5
02/12/2015 12:48	Total THM		1.6	80	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

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750 Royal Oaks Drive, 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: 520027

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/11/2015 1217

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2015-PW-14-01 (201502110195)						**Sampled on 02/10/2015 1007**		
		EPA 200.8 - ICPMS Metals						
2/11/2015	02/24/2015 16:37	822019	(EPA 200.8)	Chromium Total ICAP/MS	15	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
2/14/2015	02/17/2015 00:24	820713	(EPA 522)	1,4-Dioxane	2.8	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS						
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015 12:25	819908	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 520027

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/11/2015 1217

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

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Samples Received on:
02/11/2015 1217

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Trichloroethylene (TCE)	1.8	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:25	819908	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-14-02 (201502110196)							**Sampled on**	**02/10/2015 1026**	
		EPA 200.8 - ICPMS Metals							
2/11/2015	02/18/2015	16:49	820982	(EPA 200.8)	Chromium Total ICAP/MS	9.5	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/15/2015	02/17/2015	16:34	821280	(EPA 522)	1,4-Dioxane	3.8	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND (L3)	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2,3-Trichlorobenzene	ND (L3)	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromoform	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Dichlorodifluoromethane	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Hexachlorobutadiene	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	o-Chlorotoluene	ND (L3)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	p-Isopropyltoluene	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	sec-Butylbenzene	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	tert-Butylbenzene	ND (L3)	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/11/2015	02/12/2015 13:14	819926	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1

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02/11/2015 1217

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	trans-1,3-Dichloropropene	ND (L3)	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Trichloroethylene (TCE)	2.4	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/11/2015	02/12/2015	13:14	819926	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-14-02F (201502110197)							**Sampled on**	**02/10/2015 1035**	
		EPA 200.8 - ICPMS Metals							
2/11/2015	02/18/2015	16:52	820982	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/15/2015	02/17/2015	16:50	821280	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Report: 520027

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Samples Received on:
02/11/2015 1217

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Chloroform (Trichloromethane)	1.6	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Total THM	1.6	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/12/2015	02/12/2015	12:48	819908	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

2015-TB-01 (201502110215) **Sampled on 02/10/2015 1007**

EPA 524.2 - Volatile Organics by GCMS

2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND (V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2,3-Trichlorobenzene	ND (L3,R2,V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2,4-Trichlorobenzene	ND (L3)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	2,2-Dichloropropane	ND (V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1

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

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromoform	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Carbon disulfide	ND (V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Carbon Tetrachloride	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Chlorodibromomethane	ND (V1)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Chloroform (Trichloromethane)	ND (L3)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	cis-1,3-Dichloropropene	ND (L3)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Dichloromethane	ND (L3)	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/11/2015	02/11/2015	19:50	819883	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	trans-1,3-Dichloropropene	ND (L3,V1)	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND (V1)	ug/L	0.5	1
2/11/2015	02/11/2015 19:50	819883	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

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QC Summary: 520027

Pima County DEQ

QC Ref # 819883 - Volatile Organics by GCMS — **Analysis Date: 02/11/2015**

201502110215	2015-TB-01	Analyzed by: KAM

QC Ref # 819908 - Volatile Organics by GCMS — **Analysis Date: 02/12/2015**

201502110195	2015-PW-14-01	Analyzed by: KAM
201502110197	2015-PW-14-02F	Analyzed by: KAM

QC Ref # 819926 - Volatile Organics by GCMS — **Analysis Date: 02/12/2015**

201502110196	2015-PW-14-02	Analyzed by: KCP

QC Ref # 820713 - UCMR3 1,4-Dioxane by EPA 522 — **Analysis Date: 02/17/2015**

201502110195	2015-PW-14-01	Analyzed by: CRW

QC Ref # 820982 - ICPMS Metals — **Analysis Date: 02/18/2015**

201502110196	2015-PW-14-02	Analyzed by: SXK
201502110197	2015-PW-14-02F	Analyzed by: SXK

QC Ref # 821280 - UCMR3 1,4-Dioxane by EPA 522 — **Analysis Date: 02/17/2015**

201502110196	2015-PW-14-02	Analyzed by: CRW
201502110197	2015-PW-14-02F	Analyzed by: CRW

QC Ref # 822019 - ICPMS Metals — **Analysis Date: 02/24/2015**

201502110195	2015-PW-14-01	Analyzed by: AZS

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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 819883 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/11/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	6.05	ug/L	121	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	6.03	ug/L	121	(70-130)	20	0.33
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.610	ug/L	122	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	6.48	ug/L	130	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	6.28	ug/L	126	(70-130)	20	3.1
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	4.92	ug/L	98	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.97	ug/L	99	(70-130)	20	1.0
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	5.35	ug/L	107	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.09	ug/L	102	(70-130)	20	5.0
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,1-Dichloroethane		5.0	5.54	ug/L	111	(70-130)		
LCS2	1,1-Dichloroethane		5.0	5.98	ug/L	120	(70-130)	20	7.6
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,1-Dichloroethylene		5.0	5.59	ug/L	112	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	5.18	ug/L	104	(70-130)	20	7.6
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,1-Dichloropropene		5.0	5.46	ug/L	109	(70-130)		
LCS2	1,1-Dichloropropene		5.0	5.42	ug/L	108	(70-130)	20	0.74
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	7.77	ug/L	**155**	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	6.11	ug/L	122	(70-130)	20	**24**
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.620	ug/L	124	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	5.21	ug/L	104	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	5.03	ug/L	101	(70-130)	20	3.5
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.550	ug/L	110	(50-150)		

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

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,2,4-Trichlorobenzene		5.0	6.57	ug/L	**131**	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	5.63	ug/L	113	(70-130)	20	15
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.590	ug/L	118	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	5.32	ug/L	106	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	4.71	ug/L	94	(70-130)	20	12
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,2-Dichloroethane		5.0	5.48	ug/L	110	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.76	ug/L	115	(70-130)	20	5.0
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.620	ug/L	124	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			110	%	110	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			117	%	117	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			110	%	110	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			111	%	111	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.20	ug/L	104	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.36	ug/L	107	(70-130)	20	3.0
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	5.21	ug/L	104	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	4.71	ug/L	94	(70-130)	20	10
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,3-Dichloropropane		5.0	5.28	ug/L	106	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.25	ug/L	105	(70-130)	20	0.57
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.600	ug/L	120	(50-150)		
LCS1	2,2-Dichloropropane		5.0	6.20	ug/L	124	(70-130)		
LCS2	2,2-Dichloropropane		5.0	6.21	ug/L	124	(70-130)	20	0.16
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.620	ug/L	124	(50-150)		
LCS1	2-Butanone (MEK)		50	46.9	ug/L	94	(70-130)		
LCS2	2-Butanone (MEK)		50	48.9	ug/L	98	(70-130)	20	4.2
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.37	ug/L	107	(50-150)		
LCS1	4-Bromofluorobenzene (S)			104	%	104	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			98.0	%	98	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			99.4	%	99	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	50.7	ug/L	101	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	53.2	ug/L	106	(70-130)	20	4.8
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.47	ug/L	109	(50-150)		
LCS1	Benzene		5.0	5.21	ug/L	104	(70-130)		
LCS2	Benzene		5.0	5.06	ug/L	101	(70-130)	20	2.9
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.540	ug/L	108	(50-150)		
LCS1	Bromobenzene		5.0	5.61	ug/L	112	(70-130)		
LCS2	Bromobenzene		5.0	5.16	ug/L	103	(70-130)	20	8.4
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.540	ug/L	108	(50-150)		
LCS1	Bromochloromethane		5.0	5.90	ug/L	118	(70-130)		
LCS2	Bromochloromethane		5.0	5.60	ug/L	112	(70-130)	20	5.2
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.600	ug/L	120	(50-150)		
LCS1	Bromodichloromethane		5.0	5.84	ug/L	117	(70-130)		
LCS2	Bromodichloromethane		5.0	5.51	ug/L	110	(70-130)	20	5.8
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Bromoethane		5.0	5.52	ug/L	110	(70-130)		
LCS2	Bromoethane		5.0	5.31	ug/L	106	(70-130)	20	3.9
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Bromoform		5.0	6.42	ug/L	128	(70-130)		
LCS2	Bromoform		5.0	6.19	ug/L	124	(70-130)	20	3.6
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.850	ug/L	**170**	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	5.11	ug/L	102	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.29	ug/L	106	(70-130)	20	3.5
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.680	ug/L	136	(50-150)		
LCS1	Carbon disulfide		5.0	5.52	ug/L	110	(70-130)		
LCS2	Carbon disulfide		5.0	4.80	ug/L	96	(70-130)	20	14

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.520	ug/L	104	(50-150)		
LCS1	Carbon Tetrachloride		5.0	6.64	ug/L	**133**	(70-130)		
LCS2	Carbon Tetrachloride		5.0	6.28	ug/L	126	(70-130)	20	5.6
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.560	ug/L	112	(50-150)		
LCS1	Chlorobenzene		5.0	5.23	ug/L	105	(70-130)		
LCS2	Chlorobenzene		5.0	5.12	ug/L	102	(70-130)	20	2.1
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	Chlorodibromomethane		5.0	6.25	ug/L	125	(70-130)		
LCS2	Chlorodibromomethane		5.0	6.02	ug/L	120	(70-130)	20	3.8
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	Chloroethane		5.0	5.60	ug/L	112	(70-130)		
LCS2	Chloroethane		5.0	5.43	ug/L	109	(70-130)	20	3.1
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.630	ug/L	126	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	5.72	ug/L	114	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.75	ug/L	115	(70-130)	20	0.52
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.780	ug/L	**156**	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5.0	5.35	ug/L	107	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	5.46	ug/L	109	(70-130)	20	2.0
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.270	ug/L	54	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	5.23	ug/L	105	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.62	ug/L	112	(70-130)	20	7.2
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.610	ug/L	122	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	6.13	ug/L	123	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	5.84	ug/L	117	(70-130)	20	4.8
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.860	ug/L	**172**	(50-150)		
LCS1	Dibromomethane		5.0	5.39	ug/L	108	(70-130)		
LCS2	Dibromomethane		5.0	5.35	ug/L	107	(70-130)	20	0.75
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.590	ug/L	118	(50-150)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Dichlorodifluoromethane		5.0	5.48	ug/L	110	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	5.35	ug/L	107	(70-130)	20	2.4
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Dichloromethane		5.0	6.26	ug/L	125	(70-130)		
LCS2	Dichloromethane		5.0	6.51	ug/L	130	(70-130)	20	3.9
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.770	ug/L	**154**	(50-150)		
LCS1	Di-isopropyl ether		5.0	5.16	ug/L	103	(70-130)		
LCS2	Di-isopropyl ether		5.0	5.59	ug/L	112	(70-130)	20	8.0
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.580	ug/L	116	(50-150)		
LCS1	Ethyl benzene		5.0	5.53	ug/L	111	(70-130)		
LCS2	Ethyl benzene		5.0	5.26	ug/L	105	(70-130)	20	5.0
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Hexachlorobutadiene		5.0	5.76	ug/L	115	(70-130)		
LCS2	Hexachlorobutadiene		5.0	5.43	ug/L	109	(70-130)	20	5.9
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.560	ug/L	112	(50-150)		
LCS1	Isopropylbenzene		5.0	5.58	ug/L	112	(70-130)		
LCS2	Isopropylbenzene		5.0	5.21	ug/L	104	(70-130)	20	6.9
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	m,p-Xylenes		10	10.8	ug/L	108	(70-130)		
LCS2	m,p-Xylenes		10	10.3	ug/L	103	(70-130)	20	4.7
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.03	ug/L	103	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.580	ug/L	116	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.75	ug/L	115	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.41	ug/L	108	(70-130)	20	6.1
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.520	ug/L	104	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.40	ug/L	108	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	5.47	ug/L	109	(70-130)	20	1.3
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.630	ug/L	126	(50-150)		
LCS1	Naphthalene		5.0	6.08	ug/L	122	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Naphthalene		5.0	5.23	ug/L	105	(70-130)	20	15
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.500	ug/L	100	(50-150)		
LCS1	n-Butylbenzene		5.0	5.67	ug/L	113	(70-130)		
LCS2	n-Butylbenzene		5.0	5.34	ug/L	107	(70-130)	20	6.0
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	n-Propylbenzene		5.0	5.66	ug/L	113	(70-130)		
LCS2	n-Propylbenzene		5.0	5.18	ug/L	104	(70-130)	20	8.9
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.73	ug/L	115	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.43	ug/L	109	(70-130)	20	5.4
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.570	ug/L	114	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.42	ug/L	108	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.27	ug/L	105	(70-130)	20	2.8
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.540	ug/L	108	(50-150)		
LCS1	o-Xylene		5.0	5.24	ug/L	105	(70-130)		
LCS2	o-Xylene		5.0	5.14	ug/L	103	(70-130)	20	1.9
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.500	ug/L	100	(50-150)		
LCS1	p-Chlorotoluene		5.0	6.01	ug/L	120	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.70	ug/L	114	(70-130)	20	5.3
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.500	ug/L	100	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.52	ug/L	110	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.27	ug/L	105	(70-130)	20	4.6
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.570	ug/L	114	(50-150)		
LCS1	p-Isopropyltoluene		5.0	5.65	ug/L	113	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.19	ug/L	104	(70-130)	20	8.5
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.490	ug/L	98	(50-150)		
LCS1	sec-Butylbenzene		5.0	5.43	ug/L	109	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.39	ug/L	108	(70-130)	20	0.74
MBLK	sec-Butylbenzene			<0.5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	sec-Butylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Styrene		5.0	4.73	ug/L	95	(70-130)		
LCS2	Styrene		5.0	4.49	ug/L	90	(70-130)	20	5.2
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.420	ug/L	84	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	5.36	ug/L	107	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	5.03	ug/L	101	(70-130)	20	6.3
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.550	ug/L	110	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	5.40	ug/L	108	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	5.36	ug/L	107	(70-130)	20	0.74
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.620	ug/L	124	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.85	ug/L	117	(70-130)		
LCS2	tert-Butylbenzene		5.0	5.31	ug/L	106	(70-130)	20	9.7
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.550	ug/L	110	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	5.40	ug/L	108	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	5.35	ug/L	107	(70-130)	20	0.93
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Toluene		5.0	5.24	ug/L	105	(70-130)		
LCS2	Toluene		5.0	5.09	ug/L	102	(70-130)	20	2.9
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.570	ug/L	114	(50-150)		
LCS1	Toluene-d8 (S)			105	%	105	(70-130)		
LCS2	Toluene-d8 (S)			99.0	%	99	(70-130)		
MBLK	Toluene-d8 (S)			95.2	%	95	(70-130)		
MRL_CHK	Toluene-d8 (S)			105	%	105	(70-130)		
MRLLW	Toluene-d8 (S)			104	%	104	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.28	ug/L	106	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	5.14	ug/L	103	(70-130)	20	2.7
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.550	ug/L	110	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	6.20	ug/L	124	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	6.05	ug/L	121	(70-130)	20	2.5
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.910	ug/L	**182**	(50-150)		

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

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Trichloroethylene (TCE)		5.0	5.34	ug/L	107	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	5.45	ug/L	109	(70-130)	20	2.0
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.560	ug/L	112	(50-150)		
LCS1	Trichlorofluoromethane		5.0	5.11	ug/L	102	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.95	ug/L	99	(70-130)	20	3.2
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.370	ug/L	74	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	5.90	ug/L	118	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	5.53	ug/L	111	(70-130)	20	6.5
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.550	ug/L	110	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	5.18	ug/L	104	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.78	ug/L	96	(70-130)	20	8.0
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.520	ug/L	104	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.250	ug/L	100	(50-150)		
QC Ref# 819908 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/12/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	4.74	ug/L	95	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	4.59	ug/L	92	(70-130)	20	3.2
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,1,1-Trichloroethane		5.0	5.05	ug/L	101	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.56	ug/L	91	(70-130)	20	10
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.420	ug/L	84	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.03	ug/L	101	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	4.69	ug/L	94	(70-130)	20	7.0
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	1,1,2-Trichloroethane		5.0	4.92	ug/L	98	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.88	ug/L	98	(70-130)	20	0.82
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,1-Dichloroethane		5.0	5.01	ug/L	100	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.90	ug/L	98	(70-130)	20	2.2
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.520	ug/L	104	(50-150)		

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Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,1-Dichloroethylene		5.0	4.78	ug/L	96	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.63	ug/L	93	(70-130)	20	3.2
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,1-Dichloropropene		5.0	5.02	ug/L	100	(70-130)		
LCS2	1,1-Dichloropropene		5.0	4.80	ug/L	96	(70-130)	20	4.5
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5.0	5.34	ug/L	107	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.25	ug/L	105	(70-130)	20	1.7
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,2,3-Trichloropropane		5.0	4.98	ug/L	100	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	4.71	ug/L	94	(70-130)	20	5.6
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.520	ug/L	104	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5.0	5.12	ug/L	102	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	4.94	ug/L	99	(70-130)	20	3.6
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5.0	5.28	ug/L	106	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.04	ug/L	101	(70-130)	20	4.7
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.370	ug/L	74	(50-150)		
LCS1	1,2-Dichloroethane		5.0	5.03	ug/L	101	(70-130)		
LCS2	1,2-Dichloroethane		5.0	4.83	ug/L	97	(70-130)	20	4.1
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			94.6	%	95	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			108	%	108	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.04	ug/L	101	(70-130)		
LCS2	1,2-Dichloropropane		5.0	4.99	ug/L	100	(70-130)	20	1
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5.0	5.24	ug/L	105	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,3,5-Trimethylbenzene		5.0	5.02	ug/L	100	(70-130)	20	4.3
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.360	ug/L	72	(50-150)		
LCS1	1,3-Dichloropropane		5.0	5.12	ug/L	102	(70-130)		
LCS2	1,3-Dichloropropane		5.0	4.94	ug/L	99	(70-130)	20	3.6
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.450	ug/L	90	(50-150)		
LCS1	2,2-Dichloropropane		5.0	4.67	ug/L	93	(70-130)		
LCS2	2,2-Dichloropropane		5.0	4.45	ug/L	89	(70-130)	20	4.8
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.660	ug/L	132	(50-150)		
LCS1	2-Butanone (MEK)		50	47.4	ug/L	95	(70-130)		
LCS2	2-Butanone (MEK)		50	46.4	ug/L	93	(70-130)	20	2.3
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.09	ug/L	102	(50-150)		
LCS1	4-Bromofluorobenzene (S)			97.6	%	98	(70-130)		
LCS2	4-Bromofluorobenzene (S)			97.2	%	97	(70-130)		
MBLK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			98.4	%	98	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			105	%	105	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	52.3	ug/L	105	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	50.4	ug/L	101	(70-130)	20	3.5
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	3.67	ug/L	73	(50-150)		
LCS1	Benzene		5.0	5.02	ug/L	100	(70-130)		
LCS2	Benzene		5.0	4.85	ug/L	97	(70-130)	20	3.4
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	Bromobenzene		5.0	5.04	ug/L	101	(70-130)		
LCS2	Bromobenzene		5.0	4.78	ug/L	96	(70-130)	20	5.3
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Bromochloromethane		5.0	5.38	ug/L	108	(70-130)		
LCS2	Bromochloromethane		5.0	4.95	ug/L	99	(70-130)	20	8.3
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.440	ug/L	88	(50-150)		
LCS1	Bromodichloromethane		5.0	4.96	ug/L	99	(70-130)		
LCS2	Bromodichloromethane		5.0	4.89	ug/L	98	(70-130)	20	1.4

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromoethane		5.0	4.90	ug/L	98	(70-130)		
LCS2	Bromoethane		5.0	4.60	ug/L	92	(70-130)	20	6.3
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromoform		5.0	4.54	ug/L	91	(70-130)		
LCS2	Bromoform		5.0	4.45	ug/L	89	(70-130)	20	2.0
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.480	ug/L	96	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5.0	5.15	ug/L	103	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	4.92	ug/L	98	(70-130)	20	4.6
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.560	ug/L	112	(50-150)		
LCS1	Carbon disulfide		5.0	5.47	ug/L	109	(70-130)		
LCS2	Carbon disulfide		5.0	5.03	ug/L	101	(70-130)	20	8.4
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.500	ug/L	100	(50-150)		
LCS1	Carbon Tetrachloride		5.0	5.26	ug/L	105	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.95	ug/L	99	(70-130)	20	6.1
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.400	ug/L	80	(50-150)		
LCS1	Chlorobenzene		5.0	5.13	ug/L	103	(70-130)		
LCS2	Chlorobenzene		5.0	5.01	ug/L	100	(70-130)	20	2.4
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	Chlorodibromomethane		5.0	4.79	ug/L	96	(70-130)		
LCS2	Chlorodibromomethane		5.0	4.56	ug/L	91	(70-130)	20	4.9
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	Chloroethane		5.0	5.14	ug/L	103	(70-130)		
LCS2	Chloroethane		5.0	4.88	ug/L	98	(70-130)	20	5.2
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.630	ug/L	126	(50-150)		
LCS1	Chloroform (Trichloromethane)		5.0	4.89	ug/L	98	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	4.65	ug/L	93	(70-130)	20	5.0
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.560	ug/L	112	(50-150)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Chloromethane(Methyl Chloride)		5.0	5.25	ug/L	105	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	5.00	ug/L	100	(70-130)	20	4.9
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.580	ug/L	116	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5.0	5.15	ug/L	103	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	4.90	ug/L	98	(70-130)	20	5.0
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
LCS1	cis-1,3-Dichloropropene		5.0	4.95	ug/L	99	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	4.87	ug/L	97	(70-130)	20	1.6
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.560	ug/L	112	(50-150)		
LCS1	Dibromomethane		5.0	5.32	ug/L	106	(70-130)		
LCS2	Dibromomethane		5.0	4.94	ug/L	99	(70-130)	20	7.4
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	Dichlorodifluoromethane		5.0	4.82	ug/L	96	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	4.72	ug/L	94	(70-130)	20	2.1
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	Dichloromethane		5.0	5.14	ug/L	103	(70-130)		
LCS2	Dichloromethane		5.0	4.77	ug/L	95	(70-130)	20	7.5
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.430	ug/L	86	(50-150)		
LCS1	Di-isopropyl ether		5.0	4.80	ug/L	96	(70-130)		
LCS2	Di-isopropyl ether		5.0	4.48	ug/L	90	(70-130)	20	6.9
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.540	ug/L	108	(50-150)		
LCS1	Ethyl benzene		5.0	5.00	ug/L	100	(70-130)		
LCS2	Ethyl benzene		5.0	4.86	ug/L	97	(70-130)	20	2.8
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.400	ug/L	80	(50-150)		
LCS1	Hexachlorobutadiene		5.0	4.94	ug/L	99	(70-130)		
LCS2	Hexachlorobutadiene		5.0	4.87	ug/L	97	(70-130)	20	1.4
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.500	ug/L	100	(50-150)		
LCS1	Isopropylbenzene		5.0	5.00	ug/L	100	(70-130)		
LCS2	Isopropylbenzene		5.0	4.75	ug/L	95	(70-130)	20	5.1

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.380	ug/L	76	(50-150)		
LCS1	m,p-Xylenes		10	11.4	ug/L	114	(70-130)		
LCS2	m,p-Xylenes		10	10.9	ug/L	109	(70-130)	20	4.5
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	0.800	ug/L	80	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.390	ug/L	78	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.19	ug/L	104	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	4.85	ug/L	97	(70-130)	20	6.8
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.450	ug/L	90	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.04	ug/L	101	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.79	ug/L	96	(70-130)	20	5.1
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.550	ug/L	110	(50-150)		
LCS1	Naphthalene		5.0	5.32	ug/L	106	(70-130)		
LCS2	Naphthalene		5.0	5.19	ug/L	104	(70-130)	20	2.5
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.390	ug/L	78	(50-150)		
LCS1	n-Butylbenzene		5.0	5.09	ug/L	102	(70-130)		
LCS2	n-Butylbenzene		5.0	4.96	ug/L	99	(70-130)	20	2.6
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	n-Propylbenzene		5.0	5.12	ug/L	102	(70-130)		
LCS2	n-Propylbenzene		5.0	4.86	ug/L	97	(70-130)	20	5.2
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.400	ug/L	80	(50-150)		
LCS1	o-Chlorotoluene		5.0	5.29	ug/L	106	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.14	ug/L	103	(70-130)	20	2.9
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.450	ug/L	90	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.08	ug/L	102	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.08	ug/L	102	(70-130)	20	0.0
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.550	ug/L	110	(50-150)		
LCS1	o-Xylene		5.0	5.19	ug/L	104	(70-130)		
LCS2	o-Xylene		5.0	4.99	ug/L	100	(70-130)	20	3.9
MBLK	o-Xylene			<0.5	ug/L				

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

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	o-Xylene		0.5	0.400	ug/L	80	(50-150)		
LCS1	p-Chlorotoluene		5.0	5.50	ug/L	110	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.09	ug/L	102	(70-130)	20	7.7
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.440	ug/L	88	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.11	ug/L	102	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	4.89	ug/L	98	(70-130)	20	4.4
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.500	ug/L	100	(50-150)		
LCS1	p-Isopropyltoluene		5.0	4.94	ug/L	99	(70-130)		
LCS2	p-Isopropyltoluene		5.0	4.70	ug/L	94	(70-130)	20	5.0
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.380	ug/L	76	(50-150)		
LCS1	sec-Butylbenzene		5.0	5.12	ug/L	102	(70-130)		
LCS2	sec-Butylbenzene		5.0	4.85	ug/L	97	(70-130)	20	5.4
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.390	ug/L	78	(50-150)		
LCS1	Styrene		5.0	4.89	ug/L	98	(70-130)		
LCS2	Styrene		5.0	4.72	ug/L	94	(70-130)	20	3.5
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.440	ug/L	88	(50-150)		
LCS1	tert-amyl Methyl Ether		5.0	4.99	ug/L	100	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.79	ug/L	96	(70-130)	20	4.1
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.480	ug/L	96	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5.0	4.99	ug/L	100	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	4.76	ug/L	95	(70-130)	20	4.7
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.540	ug/L	108	(50-150)		
LCS1	tert-Butylbenzene		5.0	5.10	ug/L	102	(70-130)		
LCS2	tert-Butylbenzene		5.0	4.92	ug/L	98	(70-130)	20	3.6
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.360	ug/L	72	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5.0	5.03	ug/L	101	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.86	ug/L	97	(70-130)	20	3.4
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Toluene		5.0	5.11	ug/L	102	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Toluene		5.0	4.91	ug/L	98	(70-130)	20	4.0
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.500	ug/L	100	(50-150)		
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			100	%	100	(70-130)		
MBLK	Toluene-d8 (S)			90.2	%	90	(70-130)		
MRL_CHK	Toluene-d8 (S)			96.6	%	97	(70-130)		
MRLLW	Toluene-d8 (S)			95.2	%	95	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.07	ug/L	101	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.82	ug/L	96	(70-130)	20	5.1
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
LCS1	trans-1,3-Dichloropropene		5.0	5.50	ug/L	110	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	5.48	ug/L	110	(70-130)	20	0.36
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.540	ug/L	108	(50-150)		
LCS1	Trichloroethylene (TCE)		5.0	4.99	ug/L	100	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.85	ug/L	97	(70-130)	20	2.9
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Trichlorofluoromethane		5.0	4.99	ug/L	100	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.75	ug/L	95	(70-130)	20	4.9
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5.0	4.83	ug/L	97	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	4.38	ug/L	88	(70-130)	20	9.8
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.540	ug/L	108	(50-150)		
LCS1	Vinyl chloride (VC)		5.0	4.88	ug/L	98	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.58	ug/L	92	(70-130)	20	6.3
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.550	ug/L	110	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.290	ug/L	116	(50-150)		
QC Ref# 819926 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/12/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	6.83	ug/L	**137**	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	6.68	ug/L	**134**	(70-130)	20	2.2
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
LCS1	1,1,1-Trichloroethane		5.0	5.95	ug/L	119	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,1,1-Trichloroethane		5.0	5.88	ug/L	118	(70-130)	20	1.2
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.93	ug/L	119	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	6.16	ug/L	123	(70-130)	20	3.8
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
LCS1	1,1,2-Trichloroethane		5.0	5.45	ug/L	109	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	5.78	ug/L	116	(70-130)	20	5.9
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
LCS1	1,1-Dichloroethane		5.0	5.72	ug/L	114	(70-130)		
LCS2	1,1-Dichloroethane		5.0	5.41	ug/L	108	(70-130)	20	5.6
MBLK	1,1-Dichloroethane			<0.5	ug/L				
LCS1	1,1-Dichloroethylene		5.0	5.67	ug/L	113	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	5.49	ug/L	110	(70-130)	20	3.2
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
LCS1	1,1-Dichloropropene		5.0	5.91	ug/L	118	(70-130)		
LCS2	1,1-Dichloropropene		5.0	5.72	ug/L	114	(70-130)	20	3.3
MBLK	1,1-Dichloropropene			<0.5	ug/L				
LCS1	1,2,3-Trichlorobenzene		5.0	6.97	ug/L	**139**	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	6.18	ug/L	124	(70-130)	20	12
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
LCS1	1,2,3-Trichloropropane		5.0	6.13	ug/L	123	(70-130)		
LCS2	1,2,3-Trichloropropane		5.0	6.21	ug/L	124	(70-130)	20	1.3
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
LCS1	1,2,4-Trichlorobenzene		5.0	6.27	ug/L	125	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	6.41	ug/L	128	(70-130)	20	2.2
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
LCS1	1,2,4-Trimethylbenzene		5.0	6.06	ug/L	121	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.71	ug/L	114	(70-130)	20	6.0
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
LCS1	1,2-Dichloroethane		5.0	6.03	ug/L	121	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.91	ug/L	118	(70-130)	20	2.0
MBLK	1,2-Dichloroethane			<0.5	ug/L				
LCS1	1,2-Dichloroethane-d4 (S)			97.2	%	97	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.68	ug/L	114	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.72	ug/L	114	(70-130)	20	0.70
MBLK	1,2-Dichloropropane			<0.5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,3,5-Trimethylbenzene		5.0	6.02	ug/L	120	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.64	ug/L	113	(70-130)	20	6.5
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
LCS1	1,3-Dichloropropane		5.0	6.15	ug/L	123	(70-130)		
LCS2	1,3-Dichloropropane		5.0	6.21	ug/L	124	(70-130)	20	0.97
MBLK	1,3-Dichloropropane			<0.5	ug/L				
LCS1	2,2-Dichloropropane		5.0	4.31	ug/L	86	(70-130)		
LCS2	2,2-Dichloropropane		5.0	3.96	ug/L	79	(70-130)	20	8.5
MBLK	2,2-Dichloropropane			<0.5	ug/L				
LCS1	2-Butanone (MEK)		50	57.5	ug/L	115	(70-130)		
LCS2	2-Butanone (MEK)		50	54.4	ug/L	109	(70-130)	20	5.5
MBLK	2-Butanone (MEK)			<5.0	ug/L				
LCS1	4-Bromofluorobenzene (S)			111	%	111	(70-130)		
LCS2	4-Bromofluorobenzene (S)			116	%	116	(70-130)		
MBLK	4-Bromofluorobenzene (S)			107	%	107	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	53.5	ug/L	107	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	55.6	ug/L	111	(70-130)	20	3.9
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
LCS1	Benzene		5.0	6.01	ug/L	120	(70-130)		
LCS2	Benzene		5.0	5.91	ug/L	118	(70-130)	20	1.7
MBLK	Benzene			<0.5	ug/L				
LCS1	Bromobenzene		5.0	5.98	ug/L	120	(70-130)		
LCS2	Bromobenzene		5.0	6.18	ug/L	124	(70-130)	20	3.3
MBLK	Bromobenzene			<0.5	ug/L				
LCS1	Bromochloromethane		5.0	6.01	ug/L	120	(70-130)		
LCS2	Bromochloromethane		5.0	6.01	ug/L	120	(70-130)	20	0.0
MBLK	Bromochloromethane			<0.5	ug/L				
LCS1	Bromodichloromethane		5.0	5.95	ug/L	119	(70-130)		
LCS2	Bromodichloromethane		5.0	5.81	ug/L	116	(70-130)	20	2.4
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoethane		5.0	5.52	ug/L	110	(70-130)		
LCS2	Bromoethane		5.0	5.01	ug/L	100	(70-130)	20	9.7
MBLK	Bromoethane			<0.5	ug/L				
LCS1	Bromoform		5.0	7.70	ug/L	**154**	(70-130)		
LCS2	Bromoform		5.0	8.20	ug/L	**164**	(70-130)	20	6.3
MBLK	Bromoform			<0.5	ug/L				
LCS1	Bromomethane (Methyl Bromide)		5.0	5.36	ug/L	107	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	5.09	ug/L	102	(70-130)	20	5.2

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

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
LCS1	Carbon disulfide		5.0	5.23	ug/L	105	(70-130)		
LCS2	Carbon disulfide		5.0	4.76	ug/L	95	(70-130)	20	9.4
MBLK	Carbon disulfide			<0.5	ug/L				
LCS1	Carbon Tetrachloride		5.0	6.17	ug/L	123	(70-130)		
LCS2	Carbon Tetrachloride		5.0	6.24	ug/L	125	(70-130)	20	1.1
MBLK	Carbon Tetrachloride			<0.5	ug/L				
LCS1	Chlorobenzene		5.0	6.05	ug/L	121	(70-130)		
LCS2	Chlorobenzene		5.0	5.76	ug/L	115	(70-130)	20	4.9
MBLK	Chlorobenzene			<0.5	ug/L				
LCS1	Chlorodibromomethane		5.0	6.31	ug/L	126	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.99	ug/L	120	(70-130)	20	5.2
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroethane		5.0	5.45	ug/L	109	(70-130)		
LCS2	Chloroethane		5.0	5.36	ug/L	107	(70-130)	20	1.7
MBLK	Chloroethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5.0	6.31	ug/L	126	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	6.11	ug/L	122	(70-130)	20	3.2
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Chloromethane(Methyl Chloride)		5.0	5.68	ug/L	114	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	5.19	ug/L	104	(70-130)	20	9.0
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
LCS1	cis-1,2-Dichloroethylene		5.0	5.64	ug/L	113	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.16	ug/L	103	(70-130)	20	8.9
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
LCS1	cis-1,3-Dichloropropene		5.0	5.82	ug/L	116	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	6.35	ug/L	127	(70-130)	20	8.7
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
LCS1	Dibromomethane		5.0	5.67	ug/L	113	(70-130)		
LCS2	Dibromomethane		5.0	5.64	ug/L	113	(70-130)	20	0.53
MBLK	Dibromomethane			<0.5	ug/L				
LCS1	Dichlorodifluoromethane		5.0	6.70	ug/L	**134**	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	5.93	ug/L	119	(70-130)	20	12
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
LCS1	Dichloromethane		5.0	5.66	ug/L	113	(70-130)		
LCS2	Dichloromethane		5.0	5.57	ug/L	111	(70-130)	20	1.6
MBLK	Dichloromethane			<0.5	ug/L				
LCS1	Di-isopropyl ether		5.0	5.46	ug/L	109	(70-130)		

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

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Di-isopropyl ether		5.0	5.33	ug/L	107	(70-130)	20	2.4
MBLK	Di-isopropyl ether			<3.0	ug/L				
LCS1	Ethyl benzene		5.0	5.95	ug/L	119	(70-130)		
LCS2	Ethyl benzene		5.0	5.83	ug/L	117	(70-130)	20	2.0
MBLK	Ethyl benzene			<0.5	ug/L				
LCS1	Hexachlorobutadiene		5.0	6.85	ug/L	**137**	(70-130)		
LCS2	Hexachlorobutadiene		5.0	6.68	ug/L	**134**	(70-130)	20	2.5
MBLK	Hexachlorobutadiene			<0.5	ug/L				
LCS1	Isopropylbenzene		5.0	6.27	ug/L	125	(70-130)		
LCS2	Isopropylbenzene		5.0	6.32	ug/L	126	(70-130)	20	0.79
MBLK	Isopropylbenzene			<0.5	ug/L				
LCS1	m,p-Xylenes		10	11.8	ug/L	118	(70-130)		
LCS2	m,p-Xylenes		10	11.4	ug/L	114	(70-130)	20	3.5
MBLK	m,p-Xylenes			<0.5	ug/L				
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	6.37	ug/L	127	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	6.38	ug/L	128	(70-130)	20	0.16
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	4.89	ug/L	98	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.86	ug/L	97	(70-130)	20	0.62
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
LCS1	Naphthalene		5.0	6.27	ug/L	125	(70-130)		
LCS2	Naphthalene		5.0	5.72	ug/L	114	(70-130)	20	9.2
MBLK	Naphthalene			<0.5	ug/L				
LCS1	n-Butylbenzene		5.0	5.75	ug/L	115	(70-130)		
LCS2	n-Butylbenzene		5.0	5.67	ug/L	113	(70-130)	20	1.4
MBLK	n-Butylbenzene			<0.5	ug/L				
LCS1	n-Propylbenzene		5.0	6.40	ug/L	128	(70-130)		
LCS2	n-Propylbenzene		5.0	6.45	ug/L	129	(70-130)	20	0.78
MBLK	n-Propylbenzene			<0.5	ug/L				
LCS1	o-Chlorotoluene		5.0	6.46	ug/L	129	(70-130)		
LCS2	o-Chlorotoluene		5.0	6.60	ug/L	**132**	(70-130)	20	2.1
MBLK	o-Chlorotoluene			<0.5	ug/L				
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.73	ug/L	115	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.48	ug/L	110	(70-130)	20	4.5
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
LCS1	o-Xylene		5.0	6.36	ug/L	127	(70-130)		
LCS2	o-Xylene		5.0	6.11	ug/L	122	(70-130)	20	4.0
MBLK	o-Xylene			<0.5	ug/L				

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	p-Chlorotoluene		5.0	5.91	ug/L	118	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.58	ug/L	112	(70-130)	20	5.7
MBLK	p-Chlorotoluene			<0.5	ug/L				
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	6.16	ug/L	123	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	6.23	ug/L	125	(70-130)	20	1.1
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
LCS1	p-Isopropyltoluene		5.0	6.58	ug/L	**132**	(70-130)		
LCS2	p-Isopropyltoluene		5.0	6.31	ug/L	126	(70-130)	20	4.2
MBLK	p-Isopropyltoluene			<0.5	ug/L				
LCS1	sec-Butylbenzene		5.0	6.69	ug/L	**134**	(70-130)		
LCS2	sec-Butylbenzene		5.0	6.59	ug/L	**132**	(70-130)	20	1.5
MBLK	sec-Butylbenzene			<0.5	ug/L				
LCS1	Styrene		5.0	5.83	ug/L	117	(70-130)		
LCS2	Styrene		5.0	5.29	ug/L	106	(70-130)	20	9.7
MBLK	Styrene			<0.5	ug/L				
LCS1	tert-amyl Methyl Ether		5.0	5.08	ug/L	102	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.84	ug/L	97	(70-130)	20	4.8
MBLK	tert-amyl Methyl Ether			<3	ug/L				
LCS1	tert-Butyl Ethyl Ether		5.0	5.00	ug/L	100	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	4.91	ug/L	98	(70-130)	20	1.8
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
LCS1	tert-Butylbenzene		5.0	6.56	ug/L	**131**	(70-130)		
LCS2	tert-Butylbenzene		5.0	6.68	ug/L	**134**	(70-130)	20	1.8
MBLK	tert-Butylbenzene			<0.5	ug/L				
LCS1	Tetrachloroethylene (PCE)		5.0	5.68	ug/L	114	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	5.83	ug/L	117	(70-130)	20	2.6
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
LCS1	Toluene		5.0	5.57	ug/L	111	(70-130)		
LCS2	Toluene		5.0	5.77	ug/L	115	(70-130)	20	3.5
MBLK	Toluene			<0.5	ug/L				
LCS1	Toluene-d8 (S)			100	%	100	(70-130)		
LCS2	Toluene-d8 (S)			105	%	105	(70-130)		
MBLK	Toluene-d8 (S)			97.4	%	97	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.75	ug/L	115	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	5.32	ug/L	106	(70-130)	20	7.8
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
LCS1	trans-1,3-Dichloropropene		5.0	6.46	ug/L	129	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	6.65	ug/L	**133**	(70-130)	20	2.9

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
LCS1	Trichloroethylene (TCE)		5.0	5.90	ug/L	118	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	5.38	ug/L	108	(70-130)	20	9.2
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
LCS1	Trichlorofluoromethane		5.0	5.90	ug/L	118	(70-130)		
LCS2	Trichlorofluoromethane		5.0	5.59	ug/L	112	(70-130)	20	5.4
MBLK	Trichlorofluoromethane			<0.5	ug/L				
LCS1	Trichlorotrifluoroethane(Freon		5.0	5.53	ug/L	111	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	5.52	ug/L	110	(70-130)	20	0.18
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
LCS1	Vinyl chloride (VC)		5.0	5.77	ug/L	115	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	5.37	ug/L	107	(70-130)	20	7.2
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
QC Ref# 820713 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 02/16/2015**			
CCCH	1,4-Dioxane		50	48.4	ug/L	97	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0730	ug/L	104	(50-150)		
CCCM	1,4-Dioxane		20	19.6	ug/L	98	(70-130)		
LCS1	1,4-Dioxane		20	17.5	ug/L	88	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0760	ug/L	109	(50-150)		
MS_201502090610	1,4-Dioxane	ND	20	19.2	ug/L	96	(70-130)		
MSD_201502090610	1,4-Dioxane	ND	20	18.3	ug/L	92	(70-130)	20	4.8
CCCH	Dioxane-d8			99.4	%	99	(70-130)		
CCCL	Dioxane-d8			99.4	%	99	(70-130)		
CCCM	Dioxane-d8			99.4	%	99	(70-130)		
LCS1	Dioxane-d8			90.7	%	91	(70-130)		
MBLK	Dioxane-d8			97.2	%				
MRL_CHK	Dioxane-d8			95.6	%	96	(70-130)		
MS_201502090610	Dioxane-d8	100		100	%	101	(70-130)		
MSD_201502090610	Dioxane-d8	100		93.8	%	94	(70-130)		
CCCH	THF-d8			106	%	106	(50-150)		
CCCL	THF-d8			103	%	103	(50-150)		
CCCM	THF-d8			106	%	106	(50-150)		
LCS1	THF-d8			119	%	119	(50-150)		
MBLK	THF-d8			98.3	%				
MRL_CHK	THF-d8			106	%	106	(50-150)		
MS_201502090610	THF-d8	109		104	%	104	(50-150)		
MSD_201502090610	THF-d8	109		119	%	119	(50-150)		

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

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

Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 820982 - ICPMS Metals by EPA 200.8						**Analysis Date: 02/18/2015**			
LCS1	Chromium Total ICAP/MS		100	98.9	ug/L	99	(85-115)		
LCS2	Chromium Total ICAP/MS		100	97.2	ug/L	97	(85-115)	20	1.7
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.934	ug/L	94	(50-150)		
MS_201502110572	Chromium Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		
MS2_201502120356	Chromium Total ICAP/MS	ND	100	96.6	ug/L	96	(70-130)		
MSD_201502110572	Chromium Total ICAP/MS	ND	100	97.3	ug/L	97	(70-130)	20	0.52
MSD2_201502120356	Chromium Total ICAP/MS	ND	100	93.6	ug/L	93	(70-130)	20	3.1
QC Ref# 821280 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 02/17/2015**			
CCCH	1,4-Dioxane		50	50.0	ug/L	100	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0840	ug/L	120	(50-150)		
CCCM	1,4-Dioxane		20	19.8	ug/L	99	(70-130)		
LCS1	1,4-Dioxane		20	19.0	ug/L	95	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0610	ug/L	87	(50-150)		
MS1_201502100474	1,4-Dioxane	ND	0.07	0.0720	ug/L	91	(50-150)		
MSD1_201502100474	1,4-Dioxane	ND	0.07	0.0690	ug/L	87	(50-150)	20	4.3
CCCH	Dioxane-d8			104	%	104	(70-130)		
CCCL	Dioxane-d8			110	%	110	(70-130)		
CCCM	Dioxane-d8			101	%	101	(70-130)		
LCS1	Dioxane-d8			95.5	%	96	(70-130)		
MBLK	Dioxane-d8			90.1	%				
MRL_CHK	Dioxane-d8			95.5	%	95	(70-130)		
MS1_201502100474	Dioxane-d8	96		104	%	104	(70-130)		
MSD1_201502100474	Dioxane-d8	96		99.8	%	100	(70-130)		
CCCH	THF-d8			103	%	103	(50-150)		
CCCL	THF-d8			95.3	%	95	(50-150)		
CCCM	THF-d8			102	%	102	(50-150)		
LCS1	THF-d8			104	%	104	(50-150)		
MBLK	THF-d8			116	%				
MRL_CHK	THF-d8			108	%	109	(50-150)		
MS1_201502100474	THF-d8	104		94.2	%	94	(50-150)		
MSD1_201502100474	THF-d8	104		109	%	109	(50-150)		
QC Ref# 822019 - ICPMS Metals by EPA 200.8						**Analysis Date: 02/24/2015**			
LCS1	Chromium Total ICAP/MS		100	93.8	ug/L	94	(85-115)		
LCS2	Chromium Total ICAP/MS		100	97.4	ug/L	97	(85-115)	20	3.8

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 520027

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	1.01	ug/L	101	(50-150)		
MS_201502190703	Chromium Total ICAP/MS	2.7	100	102	ug/L	100	(70-130)		
MSD_201502190703	Chromium Total ICAP/MS	2.7	100	99.9	ug/L	97	(70-130)	20	2.1

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.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

PIMA COUNTY
ENVIRONMENTAL QUALITY

33 N. Stone Avenue, Suite 700
Tucson, Arizona 85701-1429
www.pima.gov/deq

Ursula Nelson, P.E. (520) 724-7400
Director FAX (520) 838-7432

May 15, 2015

[redacted]

Subject: Laboratory Results for Water Samples Collected on February 10, 2015 at Well #20

Dear [redacted]

Enclosed are laboratory results for the water samples that Pima County Department of Environmental Quality collected from the bathroom sink tap and well head on February 10, 2015 located at [redacted]

The following table summarizes the analytical results that appear in the attached laboratory reports. The data are currently being validated and you will be notified if the laboratory values change as a result of this validation process. The table also shows the maximum contaminant level (MCL) or *Regional Screening Level* for each of the contaminants, if established.

sample number / sample source	sample date	concentration (µg/L or parts per billion)					
		TCE		chromium		1,4-dioxane	
		laboratory results	MCL	laboratory results	MCL	laboratory results	Regional Screening Level
15-PW20-01 bathroom sink tap	02.10.15	**0.75**	5	**ND@1.0**	100	**1.2**	0.35
15-PW20-02 well head	02.10.15	**0.78**	5	**4.1**	100	**1.4**	0.35

µg/L = micrograms per liter
TCE = trichloroethene = trichloroethylene
MCL= maximum contaminant level
ND = non-detectable concentration at the identified reporting limit

The MCL values for trichloroethene (or trichloroethylene or TCE) and chromium establish the highest permissible concentrations in drinking water. The United States Environmental Protection Agency (EPA) has not yet established an enforceable drinking water standard for 1,4-dioxane. Consequently, a *Regional Screening Level* (RSL) of 0.35 µg/L is being used. EPA

derived this RSL for the concentration of a chemical in drinking water corresponding to an excess estimated lifetime cancer risk of 1 in 1,000,000.

As you can see from the table, low levels of TCE and chromium were detected in water samples collected at both the bathroom sink and the well head. The TCE and chromium levels are below the maximum contaminant levels established for drinking water. The concentrations of 1,4-dioxane found in water samples at both the well head and bathroom sink are higher than the EPA *Regional Screening Level*. Due to these levels of 1,4-dioxane, the water should not be used water for drinking or cooking purposes, and instead bottled water should be used. The church may continue to use the well water for showering and irrigation purposes. EPA established a skin exposure RSL called a dermal RSL that is 220 µg/L.

Please call if you have any questions or if you would like to meet to discuss the laboratory reports further. I can be reached at 724-7457. Thank you again for your continued cooperation.

Sincerely,

Marie Light

Marie Light
Principal Hydrologist

Attachment: Laboratory Report

cc: Mary Aycock / United States Environmental Protection Agency
William Ellett / Arizona Department of Environmental Quality
Eric Roudebush / Tucson Airport Authority

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NELAP ACCREDITED TNI LABORATORY ORELAP 4034

ilac-MRA

ACLASS ACCREDITED TESTING AT-1807

Laboratory Report

for

Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
Attention: Marie Light
Fax: 520-838-7432

Date of Issue
02/24/2015

Eurofins Eaton Analytical

TDF: Thomas.D.French

Project Manager

Report: 520151
Project: PCDEQ-GW
ADHS License #: AZ0778
Group: Groundwater/Day 1

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.
* This report shall not be reproduced except in full, without the written approval of the laboratory.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2014-1
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	**New York ***	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	**Oregon (Primary AB) ***	**ORELAP 4034**
Georgia	947	**Pennsylvania ***	68-565
Guam	14-003r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas ***	T104704230-14-7
Kansas *	E-10268	**Utah ***	CA000062014-7
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	**Virginia ***	460260
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

Eurofins Eaton Analytical, Inc.
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ISO 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Sulfite	SM 4500-SO^3B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Version 002. Issued: 06/03/2014

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Acknowledgement of Samples Received

Addr: **Pima County DEQ**
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Client ID: PIMA-AZ
Folder #: 520151
Project: PCDEQ-GW
Sample Group: Groundwater/Day 1

Attn: Marie Light
Phone: 520-724-7457

Project Manager: Thomas.D.French
Phone: (480) 778-1558

The following samples were received from you on **February 11, 2015** at **1604**. 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 Eurofins Eaton Analytical.

Sample #	Sample ID			Sample Date
201502110616	2015-PW-20-01			02/10/2015 1248
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110617	2015-PW-20-02			02/10/2015 1311
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110618	2015-PW-20-02L MS			02/10/2015 1316
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110619	2015-PW-20-02L MSD			02/10/2015 1320
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201502110620	2015-TB-01			02/10/2015 1248
	@VOASDWA TB			

Test Description

@UCMR3 522 -- UCMR3 1,4-Dioxane by EPA 522

@VOASDWA -- Volatile Organics by GCMS

@VOASDWA TB -- Volatile Organics by GCMS

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CHAIN OF CUSTODY RECORD

520157

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: VP

SAMPLES LOGGED IN BY: W

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

SAMPLE TEMP RECEIVED AT:

☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

☑ Monrovia 3.0-0.2=2.8 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice X No Ice _____

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

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: Pima County Dept of Env. Quality

PROJECT CODE: PCDEQ-GW

EEA CLIENT CODE:

COC ID:

SAMPLE GROUP: Kit # 104016 Day 1

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms ☐

NON-COMPLIANCE SAMPLES ☐ (check for yes)

REGULATION INVOLVED: _____

Type of samples (circle one): **ROUTINE SPECIAL CONFIRMATION** (eg. SDWA, Phase V, NPDES, FDA,...)

SEE ATTACHED BOTTLE ORDER FOR ANALYSES ☐ (check for yes), ***OR***

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

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

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	EPA 200.8	EPA 524.2	EPA 522											SAMPLER COMMENTS
2/10	12:40	2015-PW-20-1		RGW			1	3	3											
2/10	13:11	2015-PW-20-2		RGW			1	3	3											
2/10	13:16	2015-PW-20-2LMS		RGW			1	3	3											
2/10	13:20	2015-PW-20-2LMSD		RGW			1	3	3											

FEB 11 2015 1604

Victor Plascencia
Eurofins Eaton Analytical

FedEx Tracking Number 8070 7365 4432

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	Marie Light	PDEQ/Principal Hydrologist	02/10/15	14:45
RELINQUISHED BY:					
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029 (06/26/2013)

PAGE _____ OF _____

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formerly MWH Laboratories

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Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Pima County DEQ

Thomas.D.French is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 104016
Created By: TDF
Deliver By: 02/05/2015
STG: Bottle Orders
Ice Type: W

Client ID: PIMA-AZ
Project Code: PCDEQ-GW Bottle Orders
Group Name: Groundwater/Day 1
PO#/JOB#:

Ship Sample Kits to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

Send Report to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

Billing Address
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701

Attn: Marie Light
Phone: 520-243-7457
Fax: 520-838-7432

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if ai	UN DOT #
10	@UCMR3 522	3 125ml amber glass 6.25 Sulfite +125 mg Bisulfite	
10	@VOASDWA	3 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
1	@VOASDWA TB	2 40ml amber glass vial 4drops of 1:1 HCL + H2O	UN1789
10	Chromium Total ICAP/MS	1 500ml acid poly 2ml HNO3 (18%)	UN2031

Comments

PCDEQ - Groundwater Day 1. COC (2) , bags for use of wet ice for sample refrigeration upon return shipment, Wet Ice Sampling/packing insructions. Return Shipment. Do not crowd sample kits for delivery to client. Delivery is needed to client by 02/05/15.

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

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1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 520151

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429
USA

Flags Legend:

L3 - The associated blank spike recovery was above method acceptance limits.

M1 - Matrix spike recovery was high; the associated blank spike recovery was acceptable.

R7 - LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits
Report: 520151

Pima County DEQ
Marie Light
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USA

Samples Received on:
02/11/2015 1604

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201502110616	**2015-PW-20-01**				
02/17/2015 18:57	1,4-Dioxane		1.2		ug/L	0.07
02/16/2015 16:43	Trichloroethylene (TCE)		0.75	5	ug/L	0.5
	201502110617	**2015-PW-20-02**				
02/17/2015 19:13	1,4-Dioxane		1.4		ug/L	0.07
02/18/2015 16:22	Chromium Total ICAP/MS		4.1	100	ug/L	1
02/16/2015 17:05	Trichloroethylene (TCE)		0.78	5	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
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Pima County DEQ
Marie Light
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Samples Received on:
02/11/2015 1604

2015-PW-20-01 (201502110616) **Sampled on 02/10/2015 1248**

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
		EPA 200.8 - ICPMS Metals						
2/12/2015	02/13/2015 15:28	820120	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
2/15/2015	02/17/2015 18:57	821280	(EPA 522)	1,4-Dioxane	1.2	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS						
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015 16:43	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1

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

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Laboratory Data
Report: 520151

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/11/2015 1604

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Samples Received on:
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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Trichloroethylene (TCE)	0.75	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:43	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2015-PW-20-02 (201502110617)							**Sampled on**	**02/10/2015 1311**	
		EPA 200.8 - ICPMS Metals							
2/12/2015	02/18/2015	16:22	820982	(EPA 200.8)	Chromium Total ICAP/MS	4.1	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/15/2015	02/17/2015	19:13	821280	(EPA 522)	1,4-Dioxane	1.4	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1

Rounding on totals after summation.
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Samples Received on:
02/11/2015 1604

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (M1,R7)	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1

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(c) - indicates calculated results

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1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 520151

Pima County DEQ
Marie Light
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

Samples Received on:
02/11/2015 1604

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Trichloroethylene (TCE)	0.78	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	17:05	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

2015-TB-01 (201502110620) **Sampled on 02/10/2015 1248**

EPA 524.2 - Volatile Organics by GCMS

2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND (L3)	ug/L	0.5	1

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

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Chlorodibromomethane	ND (L3)	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Dichlorodifluoromethane	ND (R7)	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/16/2015	02/16/2015	16:22	820687	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

Rounding on totals after summation.
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Laboratory
QC Summary: 520151

Pima County DEQ

QC Ref # 820120 - ICPMS Metals — **Analysis Date: 02/13/2015**

201502110616	2015-PW-20-01	Analyzed by: SXK

QC Ref # 820687 - Volatile Organics by GCMS — **Analysis Date: 02/16/2015**

201502110616	2015-PW-20-01	Analyzed by: KCP
201502110617	2015-PW-20-02	Analyzed by: KCP
201502110618	2015-PW-20-02L MS	Analyzed by: KCP
201502110619	2015-PW-20-02L MSD	Analyzed by: KCP
201502110620	2015-TB-01	Analyzed by: KCP

QC Ref # 820982 - ICPMS Metals — **Analysis Date: 02/18/2015**

201502110617	2015-PW-20-02	Analyzed by: SXK
201502110618	2015-PW-20-02L MS	Analyzed by: SXK
201502110619	2015-PW-20-02L MSD	Analyzed by: SXK

QC Ref # 821280 - UCMR3 1,4-Dioxane by EPA 522 — **Analysis Date: 02/17/2015**

201502110616	2015-PW-20-01	Analyzed by: CRW
201502110617	2015-PW-20-02	Analyzed by: CRW
201502110618	2015-PW-20-02L MS	Analyzed by: CRW
201502110619	2015-PW-20-02L MSD	Analyzed by: CRW

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Laboratory QC
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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 820120 - ICPMS Metals by EPA 200.8						**Analysis Date: 02/13/2015**			
LCS1	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Chromium Total ICAP/MS		100	98.8	ug/L	99	(85-115)	20	1.2
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.817	ug/L	82	(50-150)		
MS_201502040447	Chromium Total ICAP/MS	1.4	100	96.6	ug/L	95	(70-130)		
MS2_201502040448	Chromium Total ICAP/MS	1.2	100	94.2	ug/L	93	(70-130)		
MSD_201502040447	Chromium Total ICAP/MS	1.4	100	99.1	ug/L	98	(70-130)	20	2.5
MSD2_201502040448	Chromium Total ICAP/MS	1.2	100	95.4	ug/L	94	(70-130)	20	1.3
QC Ref# 820687 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/16/2015**			
LCS1	1,1,1,2-Tetrachloroethane		5.0	4.95	ug/L	99	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5.0	4.72	ug/L	94	(70-130)	20	4.8
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.460	ug/L	92	(50-150)		
MS_201502110617	1,1,1,2-Tetrachloroethane	ND	10	10.5	ug/L	105	(70-130)		
MS_201502120602	1,1,1,2-Tetrachloroethane	ND	10	10.3	ug/L	103	(70-130)		
MSD_201502110617	1,1,1,2-Tetrachloroethane	ND	10	11.2	ug/L	112	(70-130)	20	6.5
MSD_201502120602	1,1,1,2-Tetrachloroethane	ND	10	10.6	ug/L	106	(70-130)	20	2.9
LCS1	1,1,1-Trichloroethane		5.0	5.02	ug/L	100	(70-130)		
LCS2	1,1,1-Trichloroethane		5.0	4.66	ug/L	93	(70-130)	20	7.4
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	1,1,1-Trichloroethane	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	1,1,1-Trichloroethane	ND	10	11.4	ug/L	114	(70-130)		
MSD_201502110617	1,1,1-Trichloroethane	ND	10	11.7	ug/L	117	(70-130)	20	2.6
MSD_201502120602	1,1,1-Trichloroethane	ND	10	11.6	ug/L	116	(70-130)	20	1.7
LCS1	1,1,2,2-Tetrachloroethane		5.0	5.14	ug/L	103	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5.0	5.22	ug/L	104	(70-130)	20	1.5
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	1,1,2,2-Tetrachloroethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	1,1,2,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	1,1,2,2-Tetrachloroethane	ND	10	10.5	ug/L	105	(70-130)	20	1.9
MSD_201502120602	1,1,2,2-Tetrachloroethane	ND	10	10.6	ug/L	106	(70-130)	20	1.9
LCS1	1,1,2-Trichloroethane		5.0	5.24	ug/L	105	(70-130)		
LCS2	1,1,2-Trichloroethane		5.0	4.91	ug/L	98	(70-130)	20	6.5
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				

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

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,1,2-Trichloroethane		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	1,1,2-Trichloroethane	ND	10	10.8	ug/L	108	(70-130)		
MS_201502120602	1,1,2-Trichloroethane	ND	10	10.7	ug/L	107	(70-130)		
MSD_201502110617	1,1,2-Trichloroethane	ND	10	10.7	ug/L	107	(70-130)	20	0.93
MSD_201502120602	1,1,2-Trichloroethane	ND	10	10.6	ug/L	106	(70-130)	20	0.94
LCS1	1,1-Dichloroethane		5.0	4.94	ug/L	99	(70-130)		
LCS2	1,1-Dichloroethane		5.0	4.78	ug/L	96	(70-130)	20	3.3
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	1,1-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201502120602	1,1-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)		
MSD_201502110617	1,1-Dichloroethane	ND	10	10.6	ug/L	106	(70-130)	20	0.0
MSD_201502120602	1,1-Dichloroethane	ND	10	10.5	ug/L	105	(70-130)	20	0.95
LCS1	1,1-Dichloroethylene		5.0	4.78	ug/L	96	(70-130)		
LCS2	1,1-Dichloroethylene		5.0	4.55	ug/L	91	(70-130)	20	4.9
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
MS_201502110617	1,1-Dichloroethylene	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	1,1-Dichloroethylene	ND	10	11.4	ug/L	115	(70-130)		
MSD_201502110617	1,1-Dichloroethylene	ND	10	11.6	ug/L	116	(70-130)	20	0.87
MSD_201502120602	1,1-Dichloroethylene	ND	10	11.4	ug/L	114	(70-130)	20	0.87
LCS1	1,1-Dichloropropene		5.0	4.93	ug/L	99	(70-130)		
LCS2	1,1-Dichloropropene		5.0	4.76	ug/L	95	(70-130)	20	3.5
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	1,1-Dichloropropene	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	1,1-Dichloropropene	ND	10	11.5	ug/L	115	(70-130)		
MSD_201502110617	1,1-Dichloropropene	ND	10	11.5	ug/L	115	(70-130)	20	0.0
MSD_201502120602	1,1-Dichloropropene	ND	10	11.1	ug/L	111	(70-130)	20	3.5
LCS1	1,2,3-Trichlorobenzene		5.0	5.20	ug/L	104	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5.0	5.01	ug/L	100	(70-130)	20	3.7
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.620	ug/L	124	(50-150)		
MS_201502110617	1,2,3-Trichlorobenzene	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	1,2,3-Trichlorobenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	1,2,3-Trichlorobenzene	ND	10	10.8	ug/L	108	(70-130)	20	0.93
MSD_201502120602	1,2,3-Trichlorobenzene	ND	10	10.5	ug/L	105	(70-130)	20	0.96
LCS1	1,2,3-Trichloropropane		5.0	5.02	ug/L	100	(70-130)		

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Laboratory QC
Report: 520151

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,2,3-Trichloropropane		5.0	5.13	ug/L	103	(70-130)	20	2.2
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	1,2,3-Trichloropropane	ND	10	9.91	ug/L	99	(70-130)		
MS_201502120602	1,2,3-Trichloropropane	ND	10	9.99	ug/L	100	(70-130)		
MSD_201502110617	1,2,3-Trichloropropane	ND	10	10.2	ug/L	102	(70-130)	20	2.9
MSD_201502120602	1,2,3-Trichloropropane	ND	10	10.1	ug/L	101	(70-130)	20	1.1
LCS1	1,2,4-Trichlorobenzene		5.0	5.19	ug/L	104	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5.0	5.00	ug/L	100	(70-130)	20	3.7
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	1,2,4-Trichlorobenzene	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	1,2,4-Trichlorobenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	1,2,4-Trichlorobenzene	ND	10	10.9	ug/L	109	(70-130)	20	1.9
MSD_201502120602	1,2,4-Trichlorobenzene	ND	10	10.5	ug/L	105	(70-130)	20	0.96
LCS1	1,2,4-Trimethylbenzene		5.0	5.62	ug/L	112	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5.0	5.43	ug/L	109	(70-130)	20	3.4
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.490	ug/L	98	(50-150)		
MS_201502110617	1,2,4-Trimethylbenzene	ND	10	11.7	ug/L	117	(70-130)		
MS_201502120602	1,2,4-Trimethylbenzene	ND	10	11.2	ug/L	112	(70-130)		
MSD_201502110617	1,2,4-Trimethylbenzene	ND	10	11.5	ug/L	115	(70-130)	20	1.7
MSD_201502120602	1,2,4-Trimethylbenzene	ND	10	11.3	ug/L	113	(70-130)	20	0.89
LCS1	1,2-Dichloroethane		5.0	5.51	ug/L	110	(70-130)		
LCS2	1,2-Dichloroethane		5.0	5.25	ug/L	105	(70-130)	20	4.8
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	1,2-Dichloroethane	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	1,2-Dichloroethane	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	1,2-Dichloroethane	ND	10	11.2	ug/L	112	(70-130)	20	1.8
MSD_201502120602	1,2-Dichloroethane	ND	10	10.8	ug/L	108	(70-130)	20	2.7
LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			109	%	109	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201502110617	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201502120602	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201502110617	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MSD_201502120602	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
LCS1	1,2-Dichloropropane		5.0	5.26	ug/L	105	(70-130)		
LCS2	1,2-Dichloropropane		5.0	5.14	ug/L	103	(70-130)	20	2.3
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	1,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)		
MS_201502120602	1,2-Dichloropropane	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	1,2-Dichloropropane	ND	10	11.1	ug/L	111	(70-130)	20	0.91
MSD_201502120602	1,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)	20	0.91
LCS1	1,3,5-Trimethylbenzene		5.0	5.60	ug/L	112	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5.0	5.46	ug/L	109	(70-130)	20	2.5
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	1,3,5-Trimethylbenzene	ND	10	12.4	ug/L	124	(70-130)		
MS_201502120602	1,3,5-Trimethylbenzene	ND	10	12.2	ug/L	122	(70-130)		
MSD_201502110617	1,3,5-Trimethylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	2.5
MSD_201502120602	1,3,5-Trimethylbenzene	ND	10	12.2	ug/L	122	(70-130)	20	0.0
LCS1	1,3-Dichloropropane		5.0	5.22	ug/L	104	(70-130)		
LCS2	1,3-Dichloropropane		5.0	5.17	ug/L	103	(70-130)	20	0.96
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	1,3-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)		
MS_201502120602	1,3-Dichloropropane	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	1,3-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)	20	0.0
MSD_201502120602	1,3-Dichloropropane	ND	10	10.6	ug/L	106	(70-130)	20	2.8
LCS1	2,2-Dichloropropane		5.0	5.20	ug/L	104	(70-130)		
LCS2	2,2-Dichloropropane		5.0	4.89	ug/L	98	(70-130)	20	6.1
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	2,2-Dichloropropane	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	2,2-Dichloropropane	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	2,2-Dichloropropane	ND	10	11.8	ug/L	118	(70-130)	20	4.3
MSD_201502120602	2,2-Dichloropropane	ND	10	11.1	ug/L	111	(70-130)	20	1.8
LCS1	2-Butanone (MEK)		50	48.4	ug/L	97	(70-130)		
LCS2	2-Butanone (MEK)		50	48.0	ug/L	96	(70-130)	20	0.83
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5.0	5.69	ug/L	114	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502110617	2-Butanone (MEK)	ND	100	97.9	ug/L	98	(70-130)		
MS_201502120602	2-Butanone (MEK)	ND	100	95.6	ug/L	96	(70-130)		
MSD_201502110617	2-Butanone (MEK)	ND	100	96.5	ug/L	97	(70-130)	20	1.4
MSD_201502120602	2-Butanone (MEK)	ND	100	93.5	ug/L	94	(70-130)	20	2.2
LCS1	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			106	%	106	(70-130)		
MBLK	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MS_201502110617	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
MS_201502120602	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MSD_201502110617	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MSD_201502120602	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	51.0	ug/L	102	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	50.5	ug/L	101	(70-130)	20	0.99
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5.0	5.11	ug/L	102	(50-150)		
MS_201502110617	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	106	(70-130)		
MS_201502120602	4-Methyl-2-Pentanone (MIBK)	ND	100	103	ug/L	103	(70-130)		
MSD_201502110617	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	106	(70-130)	20	0.0
MSD_201502120602	4-Methyl-2-Pentanone (MIBK)	ND	100	102	ug/L	102	(70-130)	20	0.98
LCS1	Benzene		5.0	5.34	ug/L	107	(70-130)		
LCS2	Benzene		5.0	5.11	ug/L	102	(70-130)	20	4.4
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Benzene	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Benzene	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	Benzene	ND	10	11.1	ug/L	111	(70-130)	20	0.90
MSD_201502120602	Benzene	ND	10	11.1	ug/L	111	(70-130)	20	0.0
LCS1	Bromobenzene		5.0	5.36	ug/L	107	(70-130)		
LCS2	Bromobenzene		5.0	5.27	ug/L	105	(70-130)	20	1.7
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	Bromobenzene	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Bromobenzene	ND	10	11.0	ug/L	110	(70-130)		
MSD_201502110617	Bromobenzene	ND	10	11.2	ug/L	112	(70-130)	20	0.0
MSD_201502120602	Bromobenzene	ND	10	11.1	ug/L	111	(70-130)	20	0.91
LCS1	Bromochloromethane		5.0	5.50	ug/L	110	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Bromochloromethane		5.0	5.54	ug/L	111	(70-130)	20	0.73
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	Bromochloromethane	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Bromochloromethane	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	Bromochloromethane	ND	10	11.2	ug/L	112	(70-130)	20	0.0
MSD_201502120602	Bromochloromethane	ND	10	11.0	ug/L	110	(70-130)	20	0.91
LCS1	Bromodichloromethane		5.0	5.29	ug/L	106	(70-130)		
LCS2	Bromodichloromethane		5.0	4.98	ug/L	100	(70-130)	20	6.0
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	Bromodichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	Bromodichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MSD_201502110617	Bromodichloromethane	ND	10	11.0	ug/L	110	(70-130)	20	2.8
MSD_201502120602	Bromodichloromethane	ND	10	10.7	ug/L	107	(70-130)	20	0.0
LCS1	Bromoethane		5.0	5.62	ug/L	112	(70-130)		
LCS2	Bromoethane		5.0	5.27	ug/L	105	(70-130)	20	6.4
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Bromoethane	ND	10	12.0	ug/L	120	(70-130)		
MS_201502120602	Bromoethane	ND	10	11.8	ug/L	118	(70-130)		
MSD_201502110617	Bromoethane	ND	10	11.9	ug/L	119	(70-130)	20	0.84
MSD_201502120602	Bromoethane	ND	10	11.7	ug/L	117	(70-130)	20	0.85
LCS1	Bromoform		5.0	6.02	ug/L	120	(70-130)		
LCS2	Bromoform		5.0	6.00	ug/L	120	(70-130)	20	0.33
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	Bromoform	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	Bromoform	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	Bromoform	ND	10	11.8	ug/L	118	(70-130)	20	4.3
MSD_201502120602	Bromoform	ND	10	11.4	ug/L	114	(70-130)	20	4.5
LCS1	Bromomethane (Methyl Bromide)		5.0	5.16	ug/L	103	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5.0	4.87	ug/L	97	(70-130)	20	5.8
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.810	ug/L	**162**	(50-150)		
MS_201502110617	Bromomethane (Methyl Bromide)	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Bromomethane (Methyl Bromide)	ND	10	10.9	ug/L	109	(70-130)		
MSD_201502110617	Bromomethane (Methyl Bromide)	ND	10	10.8	ug/L	108	(70-130)	20	3.6

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201502120602	Bromomethane (Methyl Bromide)	ND	10	10.7	ug/L	107	(70-130)	20	1.9
LCS1	Carbon disulfide		5.0	5.37	ug/L	107	(70-130)		
LCS2	Carbon disulfide		5.0	5.02	ug/L	100	(70-130)	20	6.7
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Carbon disulfide	ND	10	11.7	ug/L	117	(70-130)		
MS_201502120602	Carbon disulfide	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	Carbon disulfide	ND	10	12.1	ug/L	121	(70-130)	20	3.4
MSD_201502120602	Carbon disulfide	ND	10	11.5	ug/L	115	(70-130)	20	1.8
LCS1	Carbon Tetrachloride		5.0	4.37	ug/L	87	(70-130)		
LCS2	Carbon Tetrachloride		5.0	4.12	ug/L	82	(70-130)	20	5.9
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.420	ug/L	84	(50-150)		
MS_201502110617	Carbon Tetrachloride	ND	10	10.5	ug/L	105	(70-130)		
MS_201502120602	Carbon Tetrachloride	ND	10	10.8	ug/L	108	(70-130)		
MSD_201502110617	Carbon Tetrachloride	ND	10	11.1	ug/L	111	(70-130)	20	5.6
MSD_201502120602	Carbon Tetrachloride	ND	10	11.1	ug/L	111	(70-130)	20	2.7
LCS1	Chlorobenzene		5.0	5.31	ug/L	106	(70-130)		
LCS2	Chlorobenzene		5.0	5.23	ug/L	105	(70-130)	20	1.5
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Chlorobenzene	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	Chlorobenzene	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	Chlorobenzene	ND	10	11.4	ug/L	114	(70-130)	20	0.0
MSD_201502120602	Chlorobenzene	ND	10	11.1	ug/L	111	(70-130)	20	1.8
LCS1	Chlorodibromomethane		5.0	5.61	ug/L	112	(70-130)		
LCS2	Chlorodibromomethane		5.0	5.31	ug/L	106	(70-130)	20	5.5
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.790	ug/L	**158**	(50-150)		
MS_201502110617	Chlorodibromomethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201502120602	Chlorodibromomethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	Chlorodibromomethane	ND	10	11.1	ug/L	111	(70-130)	20	4.6
MSD_201502120602	Chlorodibromomethane	ND	10	10.4	ug/L	105	(70-130)	20	0.96
LCS1	Chloroethane		5.0	5.23	ug/L	105	(70-130)		
LCS2	Chloroethane		5.0	4.79	ug/L	96	(70-130)	20	8.8
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	Chloroethane	ND	10	11.8	ug/L	118	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
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Laboratory QC
Report: 520151

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502120602	Chloroethane	ND	10	11.7	ug/L	117	(70-130)		
MSD_201502110617	Chloroethane	ND	10	11.9	ug/L	119	(70-130)	20	0.84
MSD_201502120602	Chloroethane	ND	10	11.7	ug/L	117	(70-130)	20	0.0
LCS1	Chloroform (Trichloromethane)		5.0	5.47	ug/L	109	(70-130)		
LCS2	Chloroform (Trichloromethane)		5.0	5.17	ug/L	103	(70-130)	20	5.6
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.380	ug/L	76	(50-150)		
MS_201502110617	Chloroform (Trichloromethane)	ND	10	11.2	ug/L	112	(70-130)		
MS_201502120602	Chloroform (Trichloromethane)	ND	10	11.2	ug/L	113	(70-130)		
MSD_201502110617	Chloroform (Trichloromethane)	ND	10	11.4	ug/L	114	(70-130)	20	1.8
MSD_201502120602	Chloroform (Trichloromethane)	ND	10	11.1	ug/L	111	(70-130)	20	1.8
LCS1	Chloromethane(Methyl Chloride)		5.0	5.05	ug/L	101	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5.0	4.86	ug/L	97	(70-130)	20	3.8
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Chloromethane(Methyl Chloride)	ND	10	11.6	ug/L	116	(70-130)		
MS_201502120602	Chloromethane(Methyl Chloride)	ND	10	11.6	ug/L	116	(70-130)		
MSD_201502110617	Chloromethane(Methyl Chloride)	ND	10	11.6	ug/L	116	(70-130)	20	0.0
MSD_201502120602	Chloromethane(Methyl Chloride)	ND	10	11.4	ug/L	114	(70-130)	20	1.7
LCS1	cis-1,2-Dichloroethylene		5.0	5.40	ug/L	108	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5.0	5.08	ug/L	102	(70-130)	20	6.1
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	cis-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)		
MS_201502120602	cis-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)		
MSD_201502110617	cis-1,2-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)	20	0.0
MSD_201502120602	cis-1,2-Dichloroethylene	ND	10	10.5	ug/L	105	(70-130)	20	2.8
LCS1	cis-1,3-Dichloropropene		5.0	4.62	ug/L	92	(70-130)		
LCS2	cis-1,3-Dichloropropene		5.0	4.63	ug/L	93	(70-130)	20	0.22
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.420	ug/L	84	(50-150)		
MS_201502110617	cis-1,3-Dichloropropene	ND	10	10.5	ug/L	105	(70-130)		
MS_201502120602	cis-1,3-Dichloropropene	ND	10	10.3	ug/L	103	(70-130)		
MSD_201502110617	cis-1,3-Dichloropropene	ND	10	10.7	ug/L	107	(70-130)	20	1.9
MSD_201502120602	cis-1,3-Dichloropropene	ND	10	10.4	ug/L	104	(70-130)	20	0.97
LCS1	Dibromomethane		5.0	5.47	ug/L	109	(70-130)		
LCS2	Dibromomethane		5.0	5.50	ug/L	110	(70-130)	20	0.55
MBLK	Dibromomethane			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Dibromomethane		0.5	0.550	ug/L	110	(50-150)		
MS_201502110617	Dibromomethane	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	Dibromomethane	ND	10	11.2	ug/L	112	(70-130)		
MSD_201502110617	Dibromomethane	ND	10	11.4	ug/L	114	(70-130)	20	0.87
MSD_201502120602	Dibromomethane	ND	10	10.9	ug/L	109	(70-130)	20	2.7
LCS1	Dichlorodifluoromethane		5.0	5.32	ug/L	106	(70-130)		
LCS2	Dichlorodifluoromethane		5.0	4.25	ug/L	85	(70-130)	20	**22**
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.490	ug/L	98	(50-150)		
MS_201502110617	Dichlorodifluoromethane	ND	10	13.5	ug/L	**135**	(70-130)		
MS_201502120602	Dichlorodifluoromethane	ND	10	12.7	ug/L	127	(70-130)		
MSD_201502110617	Dichlorodifluoromethane	ND	10	13.4	ug/L	**134**	(70-130)	20	0.74
MSD_201502120602	Dichlorodifluoromethane	ND	10	12.9	ug/L	129	(70-130)	20	1.6
LCS1	Dichloromethane		5.0	5.21	ug/L	104	(70-130)		
LCS2	Dichloromethane		5.0	5.14	ug/L	103	(70-130)	20	1.4
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	Dichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201502120602	Dichloromethane	ND	10	10.7	ug/L	107	(70-130)		
MSD_201502110617	Dichloromethane	ND	10	10.8	ug/L	108	(70-130)	20	0.93
MSD_201502120602	Dichloromethane	ND	10	10.6	ug/L	106	(70-130)	20	0.94
LCS1	Di-isopropyl ether		5.0	4.94	ug/L	99	(70-130)		
LCS2	Di-isopropyl ether		5.0	4.72	ug/L	94	(70-130)	20	4.5
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	Di-isopropyl ether	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	Di-isopropyl ether	ND	10	10.2	ug/L	102	(70-130)		
MSD_201502110617	Di-isopropyl ether	ND	10	10.3	ug/L	103	(70-130)	20	0.98
MSD_201502120602	Di-isopropyl ether	ND	10	10.2	ug/L	102	(70-130)	20	0.0
LCS1	Ethyl benzene		5.0	5.49	ug/L	110	(70-130)		
LCS2	Ethyl benzene		5.0	5.26	ug/L	105	(70-130)	20	4.3
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	Ethyl benzene	ND	10	11.8	ug/L	118	(70-130)		
MS_201502120602	Ethyl benzene	ND	10	11.7	ug/L	117	(70-130)		
MSD_201502110617	Ethyl benzene	ND	10	11.8	ug/L	118	(70-130)	20	0.0
MSD_201502120602	Ethyl benzene	ND	10	11.6	ug/L	116	(70-130)	20	0.86
LCS1	Hexachlorobutadiene		5.0	5.26	ug/L	105	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Hexachlorobutadiene		5.0	5.09	ug/L	102	(70-130)	20	3.3
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	Hexachlorobutadiene	ND	10	11.5	ug/L	115	(70-130)		
MS_201502120602	Hexachlorobutadiene	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	Hexachlorobutadiene	ND	10	11.6	ug/L	116	(70-130)	20	0.87
MSD_201502120602	Hexachlorobutadiene	ND	10	11.3	ug/L	113	(70-130)	20	0.0
LCS1	Isopropylbenzene		5.0	5.27	ug/L	105	(70-130)		
LCS2	Isopropylbenzene		5.0	5.12	ug/L	102	(70-130)	20	2.9
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.490	ug/L	98	(50-150)		
MS_201502110617	Isopropylbenzene	ND	10	12.1	ug/L	121	(70-130)		
MS_201502120602	Isopropylbenzene	ND	10	11.9	ug/L	119	(70-130)		
MSD_201502110617	Isopropylbenzene	ND	10	12.0	ug/L	120	(70-130)	20	0.83
MSD_201502120602	Isopropylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	1.7
LCS1	m,p-Xylenes		10	11.3	ug/L	113	(70-130)		
LCS2	m,p-Xylenes		10	10.8	ug/L	108	(70-130)	20	4.5
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1.0	1.02	ug/L	102	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	m,p-Xylenes	ND	20	24.2	ug/L	121	(70-130)		
MS_201502120602	m,p-Xylenes	ND	20	23.8	ug/L	119	(70-130)		
MSD_201502110617	m,p-Xylenes	ND	20	24.0	ug/L	120	(70-130)	20	0.41
MSD_201502120602	m,p-Xylenes	ND	20	23.6	ug/L	118	(70-130)	20	0.84
LCS1	m-Dichlorobenzene (1,3-DCB)		5.0	5.50	ug/L	110	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5.0	5.39	ug/L	108	(70-130)	20	2.0
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	m-Dichlorobenzene (1,3-DCB)	ND	10	11.4	ug/L	115	(70-130)		
MS_201502120602	m-Dichlorobenzene (1,3-DCB)	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	m-Dichlorobenzene (1,3-DCB)	ND	10	11.2	ug/L	112	(70-130)	20	2.6
MSD_201502120602	m-Dichlorobenzene (1,3-DCB)	ND	10	11.2	ug/L	112	(70-130)	20	0.90
LCS1	Methyl Tert-butyl ether (MTBE)		5.0	5.01	ug/L	100	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5.0	4.82	ug/L	96	(70-130)	20	3.9
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Methyl Tert-butyl ether (MTBE)	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	Methyl Tert-butyl ether (MTBE)	ND	10	10.1	ug/L	101	(70-130)		

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201502110617	Methyl Tert-butyl ether (MTBE)	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201502120602	Methyl Tert-butyl ether (MTBE)	ND	10	10.0	ug/L	100	(70-130)	20	1
LCS1	Naphthalene		5.0	5.09	ug/L	102	(70-130)		
LCS2	Naphthalene		5.0	4.83	ug/L	97	(70-130)	20	5.2
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	Naphthalene	ND	10	10.3	ug/L	103	(70-130)		
MS_201502120602	Naphthalene	ND	10	10.1	ug/L	101	(70-130)		
MSD_201502110617	Naphthalene	ND	10	10.5	ug/L	105	(70-130)	20	1.9
MSD_201502120602	Naphthalene	ND	10	10.2	ug/L	102	(70-130)	20	0.99
LCS1	n-Butylbenzene		5.0	5.44	ug/L	109	(70-130)		
LCS2	n-Butylbenzene		5.0	5.15	ug/L	103	(70-130)	20	5.5
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	n-Butylbenzene	ND	10	12.0	ug/L	120	(70-130)		
MS_201502120602	n-Butylbenzene	ND	10	11.8	ug/L	118	(70-130)		
MSD_201502110617	n-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	0.83
MSD_201502120602	n-Butylbenzene	ND	10	11.7	ug/L	117	(70-130)	20	0.85
LCS1	n-Propylbenzene		5.0	5.28	ug/L	106	(70-130)		
LCS2	n-Propylbenzene		5.0	5.09	ug/L	102	(70-130)	20	3.7
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.540	ug/L	108	(50-150)		
MS_201502110617	n-Propylbenzene	ND	10	12.3	ug/L	123	(70-130)		
MS_201502120602	n-Propylbenzene	ND	10	11.9	ug/L	119	(70-130)		
MSD_201502110617	n-Propylbenzene	ND	10	12.2	ug/L	122	(70-130)	20	0.82
MSD_201502120602	n-Propylbenzene	ND	10	12.2	ug/L	122	(70-130)	20	2.5
LCS1	o-Chlorotoluene		5.0	5.54	ug/L	111	(70-130)		
LCS2	o-Chlorotoluene		5.0	5.28	ug/L	106	(70-130)	20	4.8
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	o-Chlorotoluene	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	o-Chlorotoluene	ND	10	11.3	ug/L	113	(70-130)		
MSD_201502110617	o-Chlorotoluene	ND	10	11.3	ug/L	113	(70-130)	20	0.88
MSD_201502120602	o-Chlorotoluene	ND	10	11.4	ug/L	114	(70-130)	20	0.88
LCS1	o-Dichlorobenzene (1,2-DCB)		5.0	5.37	ug/L	107	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5.0	5.15	ug/L	103	(70-130)	20	4.2
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.600	ug/L	120	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502110617	o-Dichlorobenzene (1,2-DCB)	ND	10	10.6	ug/L	106	(70-130)		
MS_201502120602	o-Dichlorobenzene (1,2-DCB)	ND	10	10.6	ug/L	106	(70-130)		
MSD_201502110617	o-Dichlorobenzene (1,2-DCB)	ND	10	10.7	ug/L	107	(70-130)	20	0.94
MSD_201502120602	o-Dichlorobenzene (1,2-DCB)	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	o-Xylene		5.0	5.42	ug/L	108	(70-130)		
LCS2	o-Xylene		5.0	5.18	ug/L	104	(70-130)	20	4.5
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.500	ug/L	100	(50-150)		
MS_201502110617	o-Xylene	ND	10	11.7	ug/L	117	(70-130)		
MS_201502120602	o-Xylene	ND	10	11.7	ug/L	117	(70-130)		
MSD_201502110617	o-Xylene	ND	10	11.6	ug/L	116	(70-130)	20	0.86
MSD_201502120602	o-Xylene	ND	10	11.5	ug/L	115	(70-130)	20	1.7
LCS1	p-Chlorotoluene		5.0	5.57	ug/L	111	(70-130)		
LCS2	p-Chlorotoluene		5.0	5.40	ug/L	108	(70-130)	20	3.1
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	p-Chlorotoluene	ND	10	12.1	ug/L	121	(70-130)		
MS_201502120602	p-Chlorotoluene	ND	10	11.6	ug/L	116	(70-130)		
MSD_201502110617	p-Chlorotoluene	ND	10	11.8	ug/L	118	(70-130)	20	2.5
MSD_201502120602	p-Chlorotoluene	ND	10	11.8	ug/L	118	(70-130)	20	1.7
LCS1	p-Dichlorobenzene (1,4-DCB)		5.0	5.64	ug/L	113	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5.0	5.42	ug/L	108	(70-130)	20	4.0
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.570	ug/L	114	(50-150)		
MS_201502110617	p-Dichlorobenzene (1,4-DCB)	ND	10	11.4	ug/L	114	(70-130)		
MS_201502120602	p-Dichlorobenzene (1,4-DCB)	ND	10	11.1	ug/L	111	(70-130)		
MSD_201502110617	p-Dichlorobenzene (1,4-DCB)	ND	10	11.3	ug/L	113	(70-130)	20	0.88
MSD_201502120602	p-Dichlorobenzene (1,4-DCB)	ND	10	11.0	ug/L	111	(70-130)	20	0.0
LCS1	p-Isopropyltoluene		5.0	5.63	ug/L	113	(70-130)		
LCS2	p-Isopropyltoluene		5.0	5.35	ug/L	107	(70-130)	20	5.1
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	p-Isopropyltoluene	ND	10	12.4	ug/L	124	(70-130)		
MS_201502120602	p-Isopropyltoluene	ND	10	12.2	ug/L	122	(70-130)		
MSD_201502110617	p-Isopropyltoluene	ND	10	12.4	ug/L	124	(70-130)	20	0.0
MSD_201502120602	p-Isopropyltoluene	ND	10	12.2	ug/L	122	(70-130)	20	0.0
LCS1	sec-Butylbenzene		5.0	5.41	ug/L	108	(70-130)		
LCS2	sec-Butylbenzene		5.0	5.17	ug/L	103	(70-130)	20	4.5

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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Report: 520151

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	sec-Butylbenzene	ND	10	12.2	ug/L	122	(70-130)		
MS_201502120602	sec-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)		
MSD_201502110617	sec-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)	20	0.82
MSD_201502120602	sec-Butylbenzene	ND	10	12.0	ug/L	120	(70-130)	20	0.83
LCS1	Styrene		5.0	5.47	ug/L	109	(70-130)		
LCS2	Styrene		5.0	5.31	ug/L	106	(70-130)	20	3.0
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.470	ug/L	94	(50-150)		
MS_201502110617	Styrene	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	Styrene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201502110617	Styrene	ND	10	11.2	ug/L	112	(70-130)	20	0.89
MSD_201502120602	Styrene	ND	10	10.2	ug/L	102	(70-130)	20	1.9
LCS1	tert-amyl Methyl Ether		5.0	4.94	ug/L	99	(70-130)		
LCS2	tert-amyl Methyl Ether		5.0	4.87	ug/L	97	(70-130)	20	1.4
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	tert-amyl Methyl Ether	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	tert-amyl Methyl Ether	ND	10	10.1	ug/L	101	(70-130)		
MSD_201502110617	tert-amyl Methyl Ether	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201502120602	tert-amyl Methyl Ether	ND	10	10.3	ug/L	103	(70-130)	20	2.0
LCS1	tert-Butyl Ethyl Ether		5.0	4.95	ug/L	99	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5.0	4.87	ug/L	97	(70-130)	20	1.6
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	tert-Butyl Ethyl Ether	ND	10	10.2	ug/L	102	(70-130)		
MS_201502120602	tert-Butyl Ethyl Ether	ND	10	10.2	ug/L	102	(70-130)		
MSD_201502110617	tert-Butyl Ethyl Ether	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201502120602	tert-Butyl Ethyl Ether	ND	10	10.2	ug/L	102	(70-130)	20	0.0
LCS1	tert-Butylbenzene		5.0	5.23	ug/L	105	(70-130)		
LCS2	tert-Butylbenzene		5.0	5.14	ug/L	103	(70-130)	20	1.7
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	tert-Butylbenzene	ND	10	12.1	ug/L	121	(70-130)		
MS_201502120602	tert-Butylbenzene	ND	10	11.8	ug/L	119	(70-130)		
MSD_201502110617	tert-Butylbenzene	ND	10	12.0	ug/L	119	(70-130)	20	0.83
MSD_201502120602	tert-Butylbenzene	ND	10	12.0	ug/L	120	(70-130)	20	0.84

Spike recovery is already corrected for native results.
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RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Report: 520151

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Tetrachloroethylene (PCE)		5.0	5.17	ug/L	103	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5.0	4.82	ug/L	96	(70-130)	20	7.0
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.530	ug/L	106	(50-150)		
MS_201502110617	Tetrachloroethylene (PCE)	ND	10	11.9	ug/L	119	(70-130)		
MS_201502120602	Tetrachloroethylene (PCE)	ND	10	11.6	ug/L	116	(70-130)		
MSD_201502110617	Tetrachloroethylene (PCE)	ND	10	11.8	ug/L	118	(70-130)	20	0.84
MSD_201502120602	Tetrachloroethylene (PCE)	ND	10	11.6	ug/L	116	(70-130)	20	0.0
LCS1	Toluene		5.0	5.43	ug/L	109	(70-130)		
LCS2	Toluene		5.0	5.16	ug/L	103	(70-130)	20	5.1
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.590	ug/L	118	(50-150)		
MS_201502110617	Toluene	ND	10	11.3	ug/L	113	(70-130)		
MS_201502120602	Toluene	ND	10	11.4	ug/L	114	(70-130)		
MSD_201502110617	Toluene	ND	10	11.4	ug/L	114	(70-130)	20	0.88
MSD_201502120602	Toluene	ND	10	11.2	ug/L	112	(70-130)	20	1.8
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			102	%	102	(70-130)		
MBLK	Toluene-d8 (S)			97.2	%	97	(70-130)		
MRL_CHK	Toluene-d8 (S)			100	%	100	(70-130)		
MRLLW	Toluene-d8 (S)			99.0	%	99	(70-130)		
MS_201502110617	Toluene-d8 (S)			103	%	103	(70-130)		
MS_201502120602	Toluene-d8 (S)			102	%	102	(70-130)		
MSD_201502110617	Toluene-d8 (S)			104	%	104	(70-130)		
MSD_201502120602	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5.0	5.11	ug/L	102	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5.0	4.93	ug/L	99	(70-130)	20	3.6
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	trans-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(70-130)		
MS_201502120602	trans-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(70-130)		
MSD_201502110617	trans-1,2-Dichloroethylene	ND	10	11.0	ug/L	110	(70-130)	20	0.0
MSD_201502120602	trans-1,2-Dichloroethylene	ND	10	10.9	ug/L	109	(70-130)	20	0.91
LCS1	trans-1,3-Dichloropropene		5.0	4.81	ug/L	96	(70-130)		
LCS2	trans-1,3-Dichloropropene		5.0	4.71	ug/L	94	(70-130)	20	2.1
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.660	ug/L	132	(50-150)		
MS_201502110617	trans-1,3-Dichloropropene	ND	10	9.50	ug/L	95	(70-130)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201502120602	trans-1,3-Dichloropropene	ND	10	9.16	ug/L	92	(70-130)		
MSD_201502110617	trans-1,3-Dichloropropene	ND	10	9.92	ug/L	99	(70-130)	20	4.3
MSD_201502120602	trans-1,3-Dichloropropene	ND	10	9.39	ug/L	94	(70-130)	20	2.5
LCS1	Trichloroethylene (TCE)		5.0	5.33	ug/L	107	(70-130)		
LCS2	Trichloroethylene (TCE)		5.0	4.91	ug/L	98	(70-130)	20	8.2
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.580	ug/L	116	(50-150)		
MS_201502110617	Trichloroethylene (TCE)	0.78	10	12.2	ug/L	115	(70-130)		
MS_201502120602	Trichloroethylene (TCE)	1.7	10	13.0	ug/L	113	(70-130)		
MSD_201502110617	Trichloroethylene (TCE)	0.78	10	12.1	ug/L	114	(70-130)	20	0.82
MSD_201502120602	Trichloroethylene (TCE)	1.7	10	12.9	ug/L	112	(70-130)	20	0.77
LCS1	Trichlorofluoromethane		5.0	4.64	ug/L	93	(70-130)		
LCS2	Trichlorofluoromethane		5.0	4.42	ug/L	88	(70-130)	20	4.9
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.560	ug/L	112	(50-150)		
MS_201502110617	Trichlorofluoromethane	ND	10	12.6	ug/L	126	(70-130)		
MS_201502120602	Trichlorofluoromethane	ND	10	12.8	ug/L	128	(70-130)		
MSD_201502110617	Trichlorofluoromethane	ND	10	12.8	ug/L	128	(70-130)	20	1.6
MSD_201502120602	Trichlorofluoromethane	ND	10	13.1	ug/L	**131**	(70-130)	20	2.3
LCS1	Trichlorotrifluoroethane(Freon		5.0	4.49	ug/L	90	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5.0	4.39	ug/L	88	(70-130)	20	2.3
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.520	ug/L	104	(50-150)		
MS_201502110617	Trichlorotrifluoroethane(Freon	ND	10	12.5	ug/L	125	(70-130)		
MS_201502120602	Trichlorotrifluoroethane(Freon	ND	10	12.6	ug/L	126	(70-130)		
MSD_201502110617	Trichlorotrifluoroethane(Freon	ND	10	12.5	ug/L	125	(70-130)	20	0.0
MSD_201502120602	Trichlorotrifluoroethane(Freon	ND	10	12.4	ug/L	124	(70-130)	20	1.6
LCS1	Vinyl chloride (VC)		5.0	4.83	ug/L	97	(70-130)		
LCS2	Vinyl chloride (VC)		5.0	4.47	ug/L	89	(70-130)	20	7.7
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.520	ug/L	104	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.240	ug/L	96	(50-150)		
MS_201502110617	Vinyl chloride (VC)	ND	10	11.6	ug/L	116	(70-130)		
MS_201502120602	Vinyl chloride (VC)	ND	10	11.4	ug/L	114	(70-130)		
MSD_201502110617	Vinyl chloride (VC)	ND	10	11.5	ug/L	115	(70-130)	20	0.87
MSD_201502120602	Vinyl chloride (VC)	ND	10	11.2	ug/L	112	(70-130)	20	1.8

QC Ref# 820982 - ICPMS Metals by EPA 200.8 **Analysis Date: 02/18/2015**

LCS1	Chromium Total ICAP/MS		100	98.9	ug/L	99	(85-115)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Chromium Total ICAP/MS		100	97.2	ug/L	97	(85-115)	20	1.7
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1.0	0.934	ug/L	94	(50-150)		
MS_201502110572	Chromium Total ICAP/MS	ND	100	96.8	ug/L	97	(70-130)		
MS2_201502120356	Chromium Total ICAP/MS	ND	100	96.6	ug/L	96	(70-130)		
MSD_201502110572	Chromium Total ICAP/MS	ND	100	97.3	ug/L	97	(70-130)	20	0.52
MSD2_201502120356	Chromium Total ICAP/MS	ND	100	93.6	ug/L	93	(70-130)	20	3.1
QC Ref# 821280 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 02/17/2015**			
CCCH	1,4-Dioxane		50	50.0	ug/L	100	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0840	ug/L	120	(50-150)		
CCCM	1,4-Dioxane		20	19.8	ug/L	99	(70-130)		
LCS1	1,4-Dioxane		20	19.0	ug/L	95	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0610	ug/L	87	(50-150)		
MS1_201502100474	1,4-Dioxane	ND	0.07	0.0720	ug/L	91	(50-150)		
MSD1_201502100474	1,4-Dioxane	ND	0.07	0.0690	ug/L	87	(50-150)	20	4.3
CCCH	Dioxane-d8			104	%	104	(70-130)		
CCCL	Dioxane-d8			110	%	110	(70-130)		
CCCM	Dioxane-d8			101	%	101	(70-130)		
LCS1	Dioxane-d8			95.5	%	96	(70-130)		
MBLK	Dioxane-d8			90.1	%				
MRL_CHK	Dioxane-d8			95.5	%	95	(70-130)		
MS1_201502100474	Dioxane-d8	96		104	%	104	(70-130)		
MSD1_201502100474	Dioxane-d8	96		99.8	%	100	(70-130)		
CCCH	THF-d8			103	%	103	(50-150)		
CCCL	THF-d8			95.3	%	95	(50-150)		
CCCM	THF-d8			102	%	102	(50-150)		
LCS1	THF-d8			104	%	104	(50-150)		
MBLK	THF-d8			116	%				
MRL_CHK	THF-d8			108	%	109	(50-150)		
MS1_201502100474	THF-d8	104		94.2	%	94	(50-150)		
MSD1_201502100474	THF-d8	104		109	%	109	(50-150)		

Spike recovery is already corrected for native results.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

PIMA COUNTY
ENVIRONMENTAL QUALITY

MEMORANDUM

DATE: June 5, 2015

TO: Honorable Richard Elias
Supervisor, District 5

FROM: Ursula Nelson, P.E.
Director

RE: **2015** Private Drinking Water Well Monitoring in District 5

This memorandum provides the sampling results for privately-owned drinking water wells and irrigation wells located within District 2 and District 5. Pima County Department of Environmental Quality (PDEQ) monitors water quality in these wells and is funded under contract with the Tucson Airport Authority (TAA). EPA approved the monitoring program in 2001 to gather data supporting ongoing investigations associated with the Tucson International Airport Area Superfund Site as well as to determine if the water meets established drinking water standards. Elected officials, the private well owners, EPA, ADEQ, and TAA receive the water quality sampling results. A description of the sampling results is provided for both districts.

In February, 2015, four privately-owned water wells were sampled, two of which are located within District 5 (Figure 1). Water samples from all four wells had low concentrations of TCE and chromium. All TCE concentrations were below 2.1 µg/L, which is below the Maximum Contaminant level (MCL) of 5 µg/L. All chromium concentrations were below 12.3 µg/L, which is below the chromium MCL of 100 µg/L.

Within your district, two private wells had concentrations of 1,4-dioxane ranging between 1.3 and 1.5 µg/L. Concentrations at both wells are higher than EPA's Regional Screening Level (RSL)of 0.35 µg/L for 1,4-dioxane. EPA's RSL is a level above which the drinking water would increase cancer risk by one in one million over a lifetime of water consumption. As the water from one of the wells has historically been used as a source for drinking water, the well owner has been advised to drink bottled water. In all cases the 1,4-dioxane concentration is below EPA's dermal (skin contact) RSL of 220 µg/L indicating the water is safe for bathing and showering. PDEQ is consulting with the Pima County Health Department and the Arizona Department of Health Services in evaluating the sampling results to ensure protection of public health.

PDEQ will continue to monitor the privately-owned wells for the next four years, at a minimum. We will keep you informed of all pertinent developments relating to this project.

Memo to Supervisor Elias
RE: 2015 Private Drinking Water Well Monitoring in District 5
June 5, 2015
Page Two

We are available to discuss this at your convenience.

UKN/vb

Attachment: Private well area map

cc: C. H. Huckelberry, County Administrator
John Bernal, Deputy County Administrator for Public Works
Francisco Garcia, M.D., Health Department Director

PIMA COUNTY
ENVIRONMENTAL QUALITY

MEMORANDUM

DATE: June 5, 2015

TO: Honorable Ramón Valadez
Supervisor, District 2

FROM: Ursula Nelson, P.E.
Director

RE: **2015** Private Drinking Water Well Monitoring in District 2

This memorandum provides the sampling results for privately-owned drinking water wells and irrigation wells located within District 2 and District 5. Pima County Department of Environmental Quality (PDEQ) monitors water quality in these wells and is funded under contract with the Tucson Airport Authority (TAA). EPA approved the monitoring program in 2001 to gather data supporting ongoing investigations associated with the Tucson International Airport Area Superfund Site as well as to determine if the water meets established drinking water standards. Elected officials, the private well owners, EPA, ADEQ, and TAA receive the water quality sampling results. A description of the sampling results is provided for both districts.

In February 2015, four privately-owned water wells were sampled, two of which are located within District 2 (Figure 1). Water samples from all four wells had low concentrations of TCE and chromium. All TCE concentrations were below 2.1 µg/L, which is below the Maximum Contaminant level (MCL) of 5 µg/L. All chromium concentrations were below 12.3 µg/L, which is below the chromium MCL of 100 µg/L.

Within your district, one well remained non-detect for 1,4-dioxane. The other well had a concentration of 3.3 µg/L, which is higher than EPA's Regional Screening Level (RSL) of 0.35 µg/L for 1,4-dioxane. EPA's RSL is a level above which the drinking water would increase cancer risk by one in one million over a lifetime of water consumption. The RSL applies only to potable water wells and since this is an irrigation well, the level does not apply. In all cases the 1,4-dioxane concentration is below EPA's dermal (skin contact) RSL of 220 µg/L indicating the water is safe for bathing and showering. PDEQ is consulting with the Pima County Health Department and the Arizona Department of Health Services in evaluating the sampling results to ensure protection of public health.

PDEQ will continue to monitor the privately-owned wells for the next four years, at a minimum. We will keep you informed of all pertinent developments relating to this project.

Memo to Supervisor Valadez
RE: 2015 Private Drinking Water Well Monitoring in District 2
June 5, 2015
Page Two

We are available to discuss this at your convenience.

UKN/vb

Attachment: Private well area map

cc: C. H. Huckelberry, County Administrator
John M. Bernal, Deputy County Administrator for PW
Francisco Garcia, M.D., Health Department Director

PIMA COUNTY
ENVIRONMENTAL QUALITY
33 N. Stone Avenue, Suite 700
Tucson, Arizona 85701-1429
www.pima.gov/deq

Ursula Nelson, P.E.
Director

(520) 724-7400
FAX (520) 838-7432

June 5, 2015

Honorable Richard Fimbres
Tucson City Council Member
Southside Ward 5
4300 S. Park Avenue
Tucson, AZ 85714

Re: **2015** Private Well Water Monitoring Program

Dear Council Member Fimbres:

The purpose of this letter is to provide an update of the sampling activities for privately-owned drinking water wells and irrigation wells located within Ward 1 and Ward 5. Pima County Department of Environmental Quality (PDEQ) monitors water quality in these wells and is funded under contract with the Tucson Airport Authority (TAA). EPA approved the monitoring program in 2001 to gather data supporting ongoing investigations associated with the Tucson International Airport Area Superfund Site as well as to determine if the water meets established drinking water standards. Elected officials, private well owners, EPA, ADEQ and TAA receive the water quality sampling results. A description of sample results is provided for both wards.

In February, 2015, four privately-owned water wells were sampled, two of which are located within Ward 5 (Figure 1). Water samples from all four wells had low concentrations of TCE and chromium. All TCE concentrations were below 2.1 µg/L, which is below the Maximum Contaminant level (MCL) of 5 µg/L. All chromium concentrations were below 12.3 µg/L, which is below the chromium MCL of 100 µg/L.

Within your ward, one well remained non-detect for 1,4-dioxane. The other well had a concentration of 3.3 µg/L, which is higher than EPA's Regional Screening Level (RSL) of 0.35 µg/L for 1,4-dioxane. EPA's RSL is a level above which the drinking water would increase cancer risk by one in one million over a lifetime of water consumption. The RSL applies only to potable water wells and since this is an irrigation well, the RSL does not apply. In all cases the 1,4-dioxane concentration is below EPA's dermal (skin contact) RSL of 220 µg/L indicating the water is safe for bathing and showering. PDEQ is consulting with the Pima County Health Department and the Arizona Department of Health Services in evaluating the sampling results to ensure protection of public health.

PDEQ will continue to monitor the privately-owned wells for the next four years, at a minimum. We will keep you informed of all pertinent developments relating to this project. If you have any questions, please feel free to call me at 724-7454.

Sincerely,

Ursula Nelson

Ursula Nelson, P.E., Director
Department of Environmental Quality

UKN/vb

Attachment: Private well area map

cc: C. H. Huckelberry, County Administrator
John Bernal, Deputy County Administrator for Public Works
Francisco Garcia, M.D., Health Department Director
Martha Durkin, Interim City Manager

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Director

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June 5, 2015

Honorable Regina Romero
Tucson City Council Member
Southside Ward 1
940 West Alameda Street
Tucson, AZ 85745

Re: **2015** Private Well Water Monitoring Program

Dear Council Member Romero:

The purpose of this letter is to provide an update of the sampling activities for privately-owned drinking water wells and irrigation wells located within Ward 1 and Ward 5. Pima County Department of Environmental Quality (PDEQ) monitors water quality in these wells and is funded under contract with the Tucson Airport Authority (TAA). EPA approved the monitoring program in 2001 to gather data supporting ongoing investigations associated with the Tucson International Airport Area Superfund Site as well as to determine if the water meets established drinking water standards. Elected officials, private well owners, EPA, ADEQ and TAA receive the water quality sampling results. A description of sample results is provided for both wards.

In February, 2015, four privately-owned water wells were sampled, two of which are located within Ward 1 (Figure 1). Water samples from all four wells had low concentrations of TCE and chromium. All TCE concentrations were below 2.1 µg/L, which is below the Maximum Contaminant level (MCL) of 5 µg/L. All chromium concentrations were below 12.3 µg/L, which is below the chromium MCL of 100 µg/L.

Within your ward, two private wells had concentrations of 1,4-dioxane ranging between 1.3 and 1.5 ug/L. Concentrations at both wells are higher than EPA's Regional Screening Level (RSL) of 0.35 µg/L for 1,4-dioxane. EPA's RSL is a level above which the drinking water would increase cancer risk by one in one million over a lifetime of water consumption. As the water from one of the wells has historically been used as a source for drinking water, the well owner has been advised to drink bottled water. In all cases, the 1,4-dioxane concentration is below EPA's dermal (skin contact) RSL of 220 µg/L indicating the water is safe for bathing and showering. PDEQ is consulting with the Pima County Health Department and the Arizona Department of Health Services in evaluating the sampling results to ensure protection of public health.

Letter Council Member Romero
RE: 2015 Private Drinking Water Well Monitoring
June 5, 2015
Page 2

PDEQ will continue to monitor the privately-owned wells for the next four more years, at a minimum. We will keep you informed of all pertinent developments relating to this project. If you have any questions, please feel free to call me at 724-7454.

Sincerely,

Ursula Nelson

Ursula Nelson, P.E., Director
Department of Environmental Quality

UKN/vb

Attachment: Private well area map

cc: C. H. Huckelberry, County Administrator
John Bernal, Deputy County Administrator for Public Works
Francisco Garcia, M.D., Health Department Director
Martha Durkin, Interim City Manager

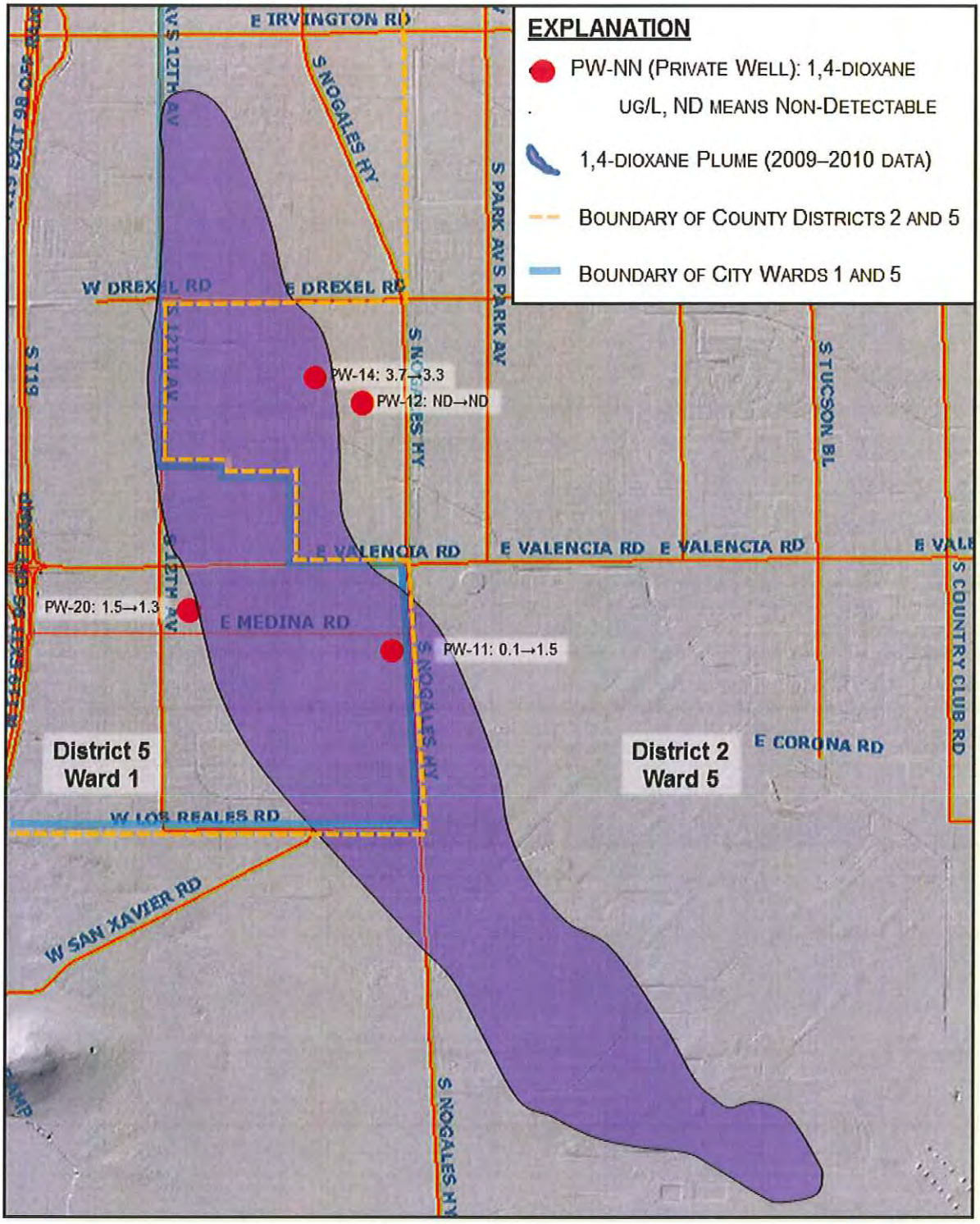

Figure 1. Private Well Data Showing the Change in 1,4-Dioxane Concentrations from 2014 to 2015