PIMA COUNTY
ENVIRONMENTAL QUALITY

2016 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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2016 ANNUAL REPORT SOUTH-SIDE PRIVATE WELL MONITORING PROGRAM
TUCSON INTERNATIONAL AIRPORT AREA SUPERFUND SITE

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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 six of seven private water wells in the vicinity of Valencia Road and Old Nogales Highway in early 2016. The water samples were analyzed for trichloroethylene (TCE), total chromium, 1,4-dioxane, and other volatile organic compounds (VOCs).

The six privately-owned wells sampled by PDEQ include the following: PW-07, PW-11, PW-12, PW-13, PW-14, and PW-20. These wells were sampled on February 16 and 17, 2016. 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 privately-owned well PW-03 was not sampled in 2016 as the well owners did not approve access to their well.

Recent Observations

All TCE concentrations were below 3.2 µg/L which is below EPA's Maximum Contaminant level (MCL) of 5 µg/L. All total chromium concentrations were below 16 µg/L, which is below the total chromium MCL of 100 µg/L. The concentrations of 1,4-dioxane ranged between non-detectable to 2.7 µg/L. Four of six wells had 1,4-dioxane concentrations ranging between 1.0 and 2.7 µg/L. These levels are within the EPA's ingestion Target Risk Range with the low level defined as the Regional Screening Level (RSL) of 0.35 µg/L and the upper level as 35 µg/L. Wells with concentrations within the Target Risk Range are recommended to be monitored regularly to screen for the potential of rising above 35 µg/L. One of the four wells supplied a mobile home park and the owner has permanently switched from using well water to City of Tucson water as a precautionary measure for the residents. In all cases the 1,4-dioxane concentration 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 the four wells sampled this year. Of the two remaining wells, TCE has remained consistent at one well and at the other well 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 two patterns: remaining non-detect or below the RSL and rising or stabilizing within the Target Risk Range. These patterns are 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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2016 ANNUAL REPORT
Southside Private Well Monitoring Program
Tucson International Airport Area Superfund Site

1 INTRODUCTION

In February 2016, Pima County Department of Environmental Quality (PDEQ) sampled six 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.

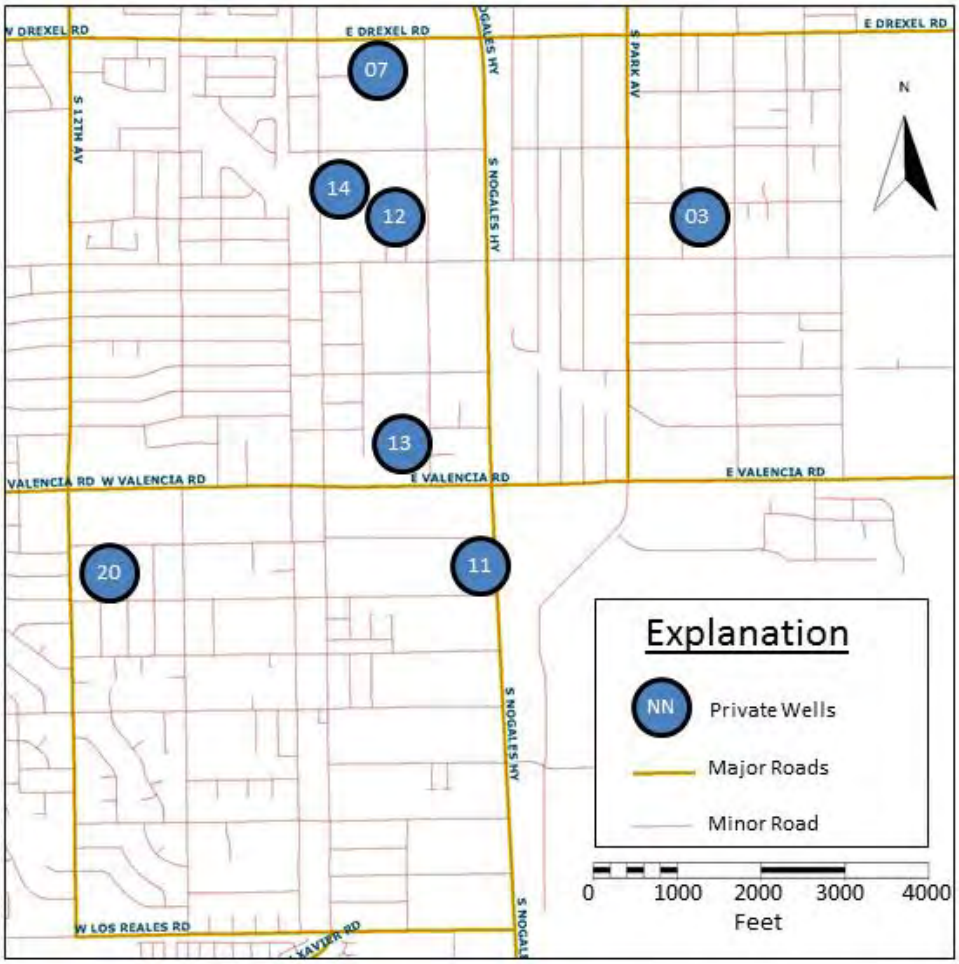

Figure 1. Southside Private Well Monitoring Map

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 2016, PDEQ received permission to sample PW-07, PW-11, PW-12, PW-13, 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.

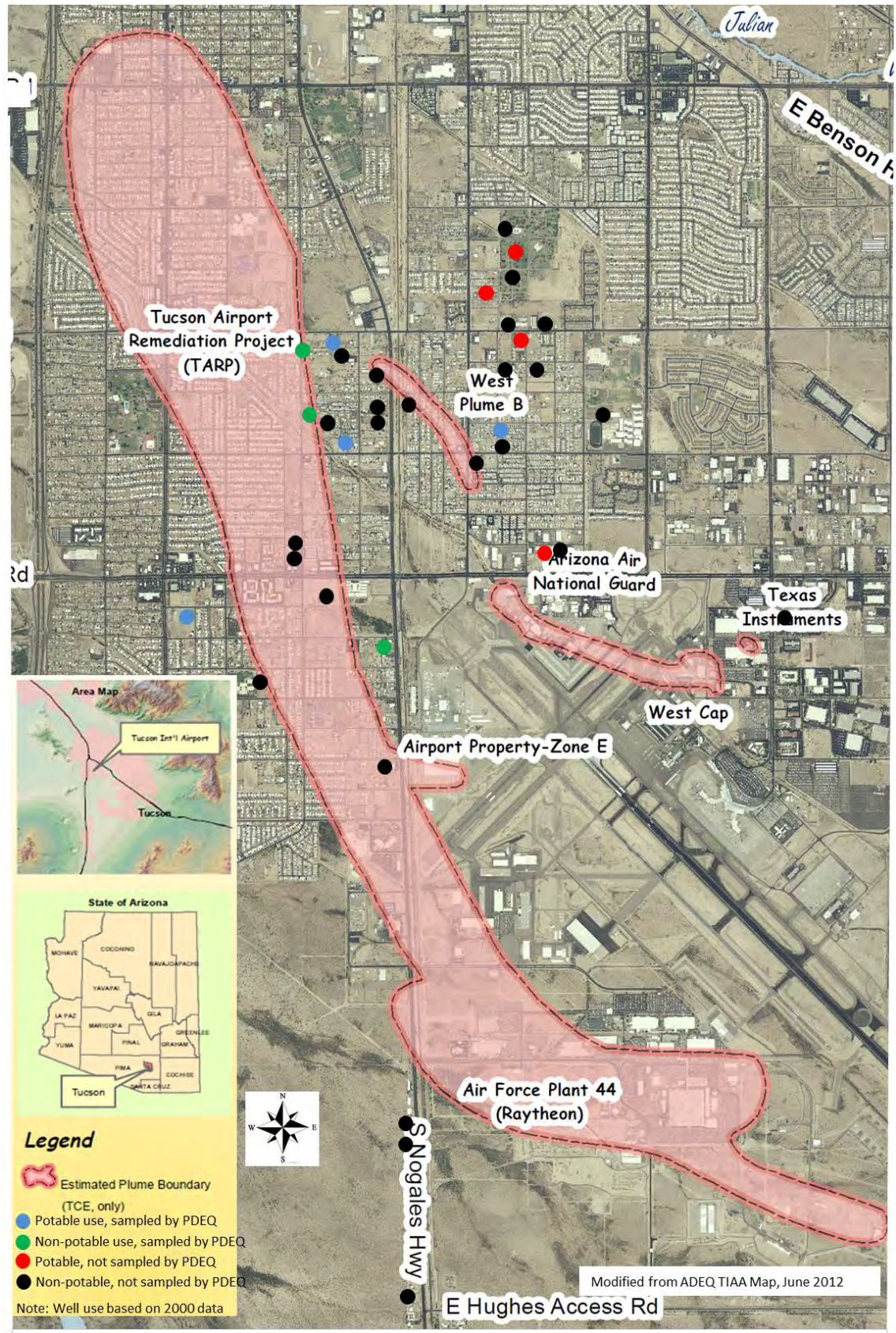

Figure 2. Trichloroethene Groundwater Contamination Map (modified from ADEQ, 2012)

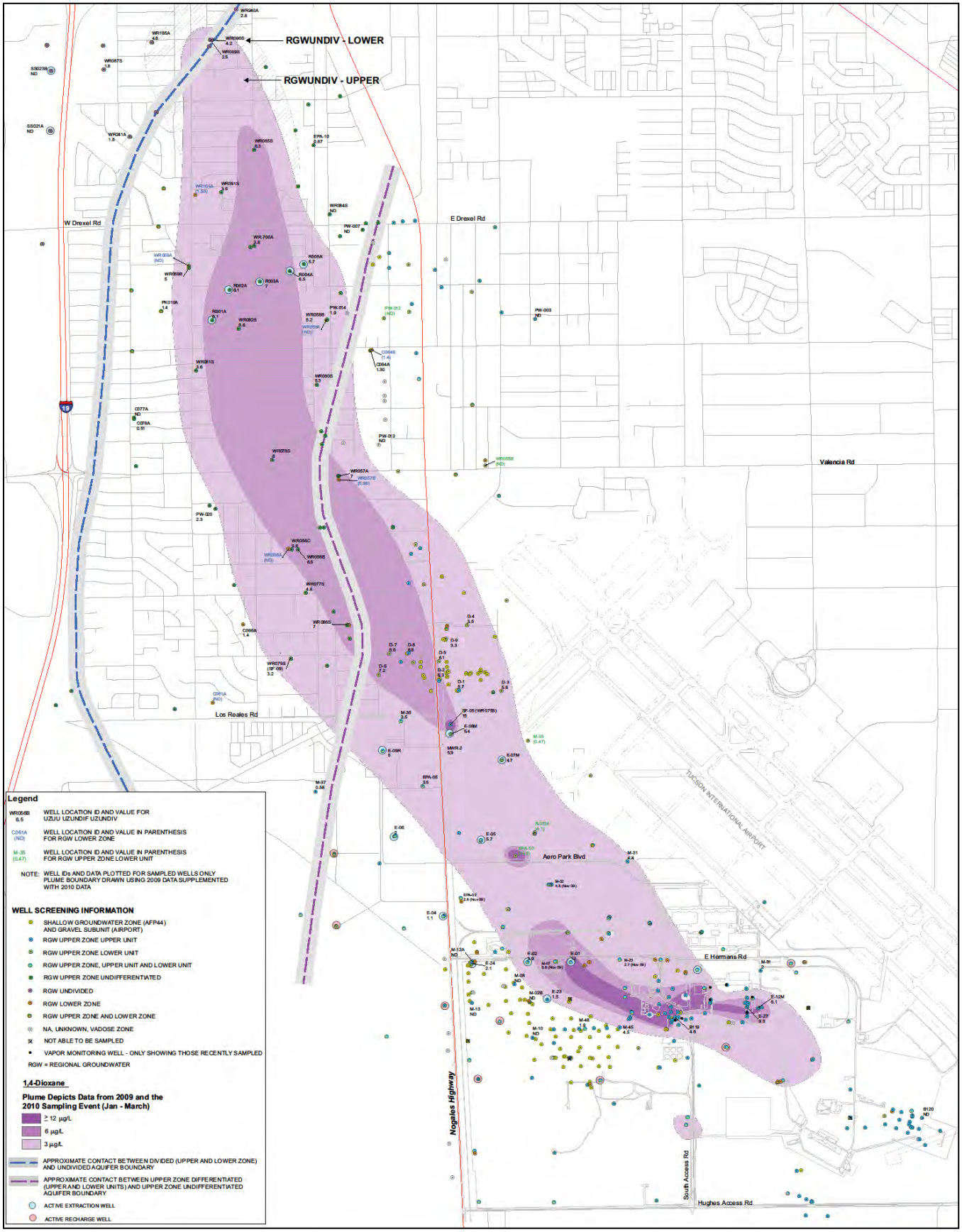

Figure 3. 1,4-Dioxane Groundwater Contamination Map, Winter 2010 Data (AECOM, 2013)

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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.

2016: The following six wells were sampled on February 16 and 17, 2016: PW-07, PW-11, PW-12, PW-13, PW-14, and PW-20. After the sampling PW-13 was disconnected from the Potable Water System. 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, Figure 4).

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.

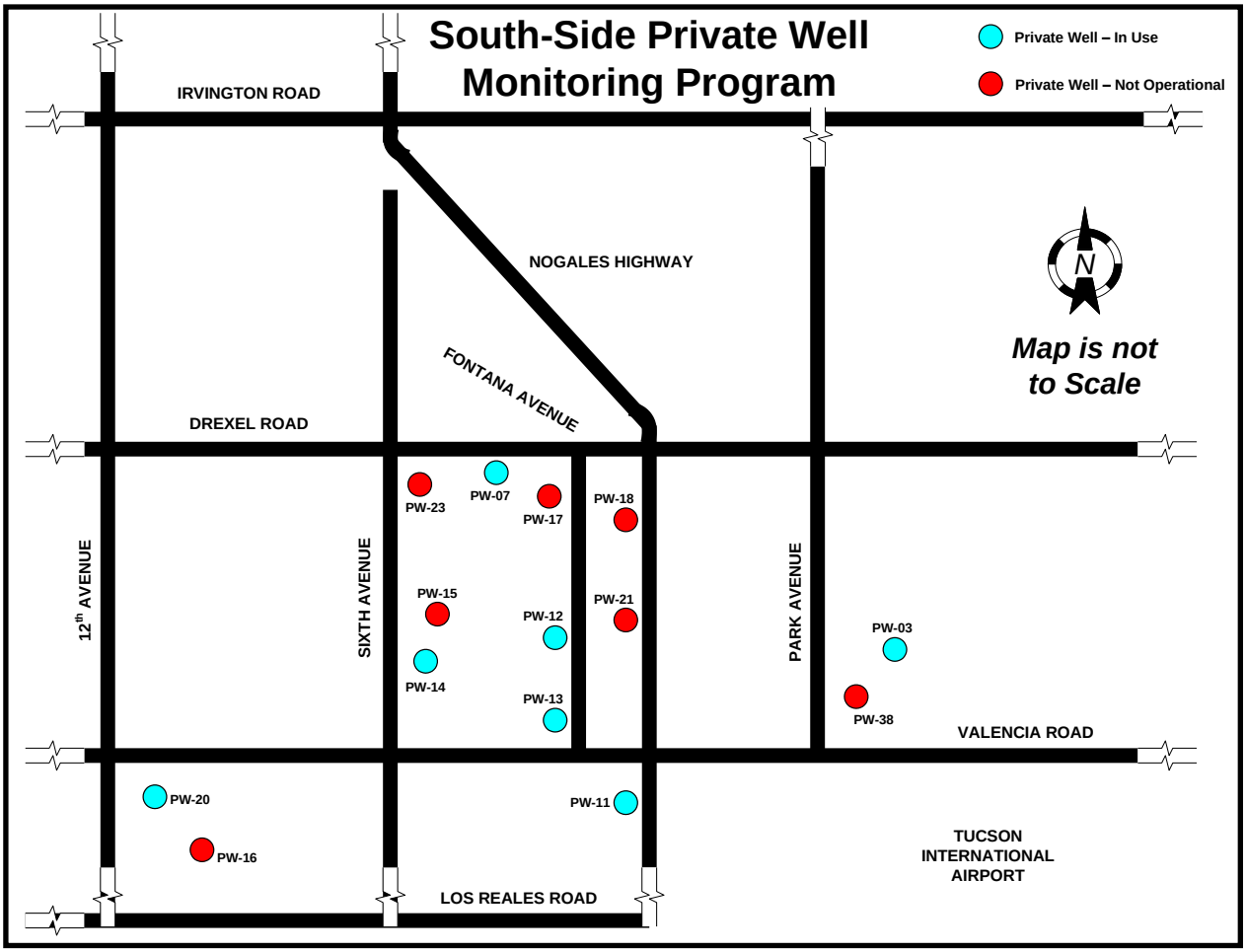

Figure 4. Private Wells Identified for Sampling in 2002

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*. Field measurements and other associated information are documented in the field log book (Appendix C).

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 D).

4.5 Analytes, Test Methods and EPA Standards

Analytical methods selected for TCE, total chromium and 1,4-dioxane had detection limits that were below EPA's standards (Table 3). The enforceable standards are Maximum Contaminant Levels (MCLs). The non-enforceable levels are the upper and lower levels of the Target Risk Range for cancer in a life time. The lower level of the target risk range represents the 1 in one million (10^{-6}) cancer risk and is called the Regional Screening Level. The higher level of the target risk range represents the 1 in 10,000 (10^{-4}) cancer risk. The Regional Screening Level was defined to be protective of human health and was not developed for remediation standards or ecological impacts. As concentrations falling within the Target Risk Range indicate when regular monitoring should be taking place, methods were selected to have a detection limit below the Regional Screening Level.

Local laboratories were contacted to assess whether their detection limits met the criteria for 1,4-dioxane. All Arizona laboratories had detection limits higher than EPA's Regional Screening Level for 1,4-dioxane. The closest laboratory outside of Arizona providing the low detection limits was Eurofins Eaton Analytical, which is in Monrovia, California.

Table 3. Test Methods, Analytes, and EPA Standards

Method	Contaminant	Detection Limit (µg/L)	EPA MCL (µg/L)	EPA Target Risk Range	
				Lower Level (10^{-6}) Regional Screening Level (µg/L)	Higher Level (10^{-4})
EPA 524.2	TCE	0.5	5	----	---
EPA 200.8	Chromium, total	1	100	----	---
EPA 8270C	1,4-dioxane	0.07	----	0.35	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).

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. 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., 2016-PW12-02MS).

4.7 Sample Collection

Both sample sets at well PW-07 were collected at a faucet just after the pressure tank. 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 from an outdoor spigot and a second sample was collected at the well head. For well PW-13, which was used for drinking water purposes, one sample was collected from an indoor 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 2016 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 for the six well site samples as well as the six quality control samples that consisted of two trip blanks, two field blanks, and two field duplicates (Appendix E).

4.10 Deviations from Sampling & Analysis Plan(s)

Well PW-13 was only purged for 5 minutes prior to collecting the second sample, which occurred at the wellhead, due to automatic well shutoff. Theoretically, water from a partially purged well would have water sitting in the borehole where volatile organic compounds could

volatilize thereby under representing the amount in the aquifer. A comparison of the results for both TCE and 1,4-dioxane to historical results shows the concentrations are within the normal range. The partial purging of the well is unlikely to have influenced the final results.

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5 LABORATORY ANALYTICAL RESULTS

5.1 Sampling Results

Six wells were sampled. Two wells are used for drinking water purposes. Three wells are used for landscape irrigation and one is used for domestic purposes (Table 4).

The analytical results, MCLs, and Regional Screening Level (RSL) for water samples collected during the 2016 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. 2016 Sample Dates & Locations

Well #	Well Use	Sample Date	Lab ID	Sample ID	Sample Location
PW-07	irrigation	02/16/16	201601260314 201601260315 201601260316 201601260318	2016-PW07-01 2016-PW07-02 2016-PW07-02MS 2016-PW07-02MSD	Outdoor Tap Outdoor Tap Outdoor Tap – Lab QC Outdoor Tap – Lab QC
PW-11	irrigation	02/16/16	201602170759 201602170760 201601260318	2016-PW11-01 2016-PW11-02 2016-PW11-02D	Outdoor Tap Well head Duplicate
PW-12	drinking water	02/16/16	201602170756 201602170757 201602170758	2016-PW12-01 2016-PW12-02 2016-PW12-02F	Outdoor Tap Well head Field Blank
PW-13	drinking water	02/17/16	201601260320 201601260322 201601260323	2016-PW13-01 2016-PW13-02 2016-PW13-02F	Indoor Tap Well Head Field sample
PW-14	irrigation	02/17/16	201601260324 201601260325 201601260326	2016-PW14-01 2016-PW14-02 2016-PW14-02D	Well head, unpurged Well head, purged Duplicate
PW-20	domestic[1]	02/17/16	201601260327 201601260328 201601260329 201601260330	2016-PW20-01 2016-PW20-02 2016-PW20-02MS 2016-PW20-02MSD	Indoor Tap Well head Well head – Lab QC Well head – Lab QC

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

5.1.1 Trichloroethene

Samples from wells PW-07, PW-11, PW-12, PW-13, PW-14, and PW-20 had detectable concentrations of TCE (Table 5). Samples from the irrigation well PW-07 contained the highest

TCE concentration of 3.2 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-13, PW-14, and PW-20 had detectable concentrations of total chromium (Table 5). Chromium concentrations ranged between <1 to 16 and are similar to ambient conditions in the Tucson basin (City of Tucson, 2014). The two samples collected after purging the irrigation well PW-14 averaged 13 µg/L, which has been observed in previous sampling events. All chromium concentrations were below the MCL of 100 µg/L.

Table 5. 2016 Analytical Results Summary

Well #	Use[2]	Sample Date	Sample Location	TCE (µg/L)		Chromium (µg/L)		1,4-dioxane (µg/L)		Sample Number
				Result	MCL	Result	MCL	Result	RSL	
PW-07	IRR	02/16/16	Outdoor Tap Outdoor Tap	3.2 2.9	5.0	ND1.0 ND1.0	100	0.096 0.100	0.35	16-PW07-01 16-PW07-02
PW-11	IRR	02/16/16	Outdoor Tap Well head Duplicate	1.5 1.5 1.7	5.0	5.8 12 8.3	100	1.0 1.0 1.2	0.35	16-PW11-01 16-PW11-02 16-PW11-02D
PW-12	DW	02/16/16	Outdoor Tap Well head	ND0.5 0.53	5.0	6.0 6.1	100	ND0.07 ND0.07	0.35	16-PW12-01 16-PW12-02
PW-13	DW	02/17/16	Indoor Tap Well head	1.4 1.2	5.0	5.8 5.6	100	1.6 1.4	0.35	16-PW13-01 16-PW13-02
PW-14	IRR	02/17/16	Well head Well head	0.64 2.1 1.6	5.0	6.8 16 14	100	2.5 2.7 2.4	0.35	16-PW14-01 16-PW14-02 16PW14-02D
PW-20	DOM[1]	02/17/16	Indoor Tap Well head	0.81 0.90	5.0	1.5 4.1	100	1.0 1.2	0.35	16-PW20-01 16-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

Concentrations of 1,4-dioxane range between non-detect and 2.7 µg/L (Table 5). The samples collected from PW-07 and PW-12 had concentrations of 1,4-dioxane below the Regional Screening Level of 0.35 µg/L. Samples from wells PW-11, PW-13, PW-14, and PW-20 had detectable concentrations and were within EPA's Target Risk Range of 0.35 µg/L and 35 µg/L indicating these wells should be monitored regularly (See Section 4.5). Regular monitoring provides the screening data for EPA's lifetime health advisory and assures the concentrations remain within EPA's Target Risk Range (Figure 5) or decline to concentration with minimal or no risk.

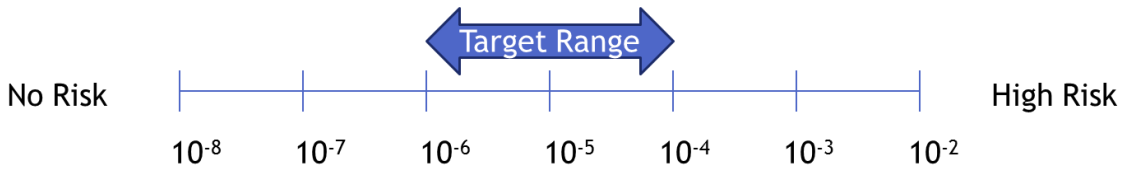

Figure 5. EPA Target Risk Range for 1,4-Dioxane in drinking water

The property owner of PW-13, the one Public Water System with 1,4-dioxane within EPA's Target Risk Range, disconnected the well from the distribution system (Figure 6) on March 11, 2016 and is receiving City of Tucson water instead. Water from PW-11 and PW-20 is primarily used for landscape irrigation and occasionally used by guest for drinking, cooking and bathing. PW-12 is a Public Water System. The other two wells PW-07 and PW-14 are used for irrigation.

5.1.4 Other Contaminants of Concern

Bromoform and the associated Total Trihalomethanes (TTHMs) were detected at 1.1 µg/L in the water sample collected from the indoor tap at PW-20. This level is well below the MCL for TTHMs of 80 µg/L.

5.2 Re-Sampling Results

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

Table 6. 2016 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-07	02/16/16	02/19/16	02/18/16	03/02/16
PW-11	02/16/16	02/20/16	02/18/16	02/23/16
PW-12	02/16/16	02/22/16	02/18/16	02/23/16
PW-13	02/17/16	02/19/16	02/19/16	02/22/16
PW-14	02/17/16	02/22/16	02/19/16	03/02/16
PW-20	02/17/16	02/19/16	02/19/16	03/02/16

5.3 Comparison of Historical Data

5.3.1 Trichloroethene

Historically, water samples from all the private wells, except PW-03, have had detectable concentrations of TCE (Table 7). Since 2010 all TCE detections have been below the 5.0 µg/L MCL for TCE. TCE concentrations for the last five years in PW-07 have shown a steady

increase from 2.1 to 3.05 µg/L. TCE concentrations in well PW-11 increased in 2013 from non-detect to 1.6 µg/L and have since ranged between 1.3 and 1.7 µg/L. The long-term trend for wells PW-12 and PW-14 since 2003 is a steady decline. Concentrations of TCE in PW-13 have oscillated between 1.0 and 1.8 µg/L since 2003. TCE concentrations at wells PW-20 have consistently been lower than 1.0 µg/L.

5.3.2 Total Chromium

Total chromium concentrations held steady at the wells, except PW-11 which exhibited a slight increase from non-detectable to 12 µg/L between 2014 and 2016. All concentrations are below the MCL of 100 µg/L and are within observed ranges in other portions of the aquifer in the Tucson basin.

5.3.3 1,4-Dioxane

The concentration for 1,4-dioxane has remained non-detect for well PW-12 and is currently below the RSL for PW-07 (Table 7). Four other wells (PW-11, PW-13, PW-14 and PW-20) had 1,4-dioxane concentrations above the EPA's ingestion RSL of 0.35 µg/L. 1,4-dioxane concentrations in PW-11 and PW-13 range between non-detect and 2 µg/L while concentrations in both PW-14 and PW-20 show a steady decline since 2013. These four wells are within EPA's Target Risk Range and are recommended to be monitored (ADHS, 2014).

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. Concentrations of 1,1-DCE declined from 4 µg/L in 1999 to 0.5 µg/L in 2010 and have not been detected since. Results showed all samples were non-detectable for 1,1-DCE.

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, 2016). Data validation demonstrates that the data is useable for the intended purpose.

5.5 Summary of Sampling Results

Wells PW-11, PW-13, PW-14 and PW-20 had 1,4-dioxane concentrations within EPA's ingestion Target Risk Range RSL of 0.35 and 35 µg/L. These wells 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 below their respective MCLs. Water samples from well PW-12 had non-detectable levels of 1,4-dioxane, and water samples from well PW-07 had detectable 1,4-dioxane concentrations which were below the EPA RSL of 0.35 µg/L (Figures 7 through 13).

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	2016
PW-03	TCE	5.0 µg/L			drinking water	ND1.0	ND1.0	ND1.0	ND1.0	+++	ND0.5	ND0.5	ND0.5	ND0.5	ND0.5	ND0.5	ND0.5	ND0.5	ND0.5	---	ND0.5	ND0.5	---	---
PW-07	TCE	5.0 µg/L			irrigation	2.9	4.0	4.0	4.0	+++	7.0	4.0	4.4	3.8	---	---	4.0	4.1	3.8	2.1	2.6	2.7	---	3.1
PW-11	TCE	5.0 µg/L			irrigation	ND1.0	---	---	ND1.0	+++	ND0.5	0.6	0.5	ND0.5	ND0.5	ND0.5	ND0.5	---	---	---	1.6	1.3	1.7	1.5
PW-12	TCE	5.0 µg/L			drinking water	ND1.0	ND1.0	0.6J	0.8J	+++	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	0.5
PW-13	TCE	5.0 µg/L			drinking water	3.6	3.0	3.0	2.0	+++	1.7	1.3	1.2	1.0	1.1	1.3	1.4	1.6	1.5	1.3	1.3	1.0	---	1.3
PW-14	TCE	5.0 µg/L			irrigation	49.0	50.0	38.0	39.0	+++	25.0	16.0	14.0	10.0	8.5	6.3	5.0J	4.9	4.2	---	3.0	2.4	2.1	1.4
PW-15	TCE	5.0 µg/L			drinking water	1.7	3.0	2.0	2.0	+++	6.2	A	A	A	A	A	A	A	A	A	A	A	A	A
PW-16	TCE	5.0 µg/L			drinking water	ND1.0	ND1.0	0.8J	0.8J	+++	0.6	A	A	A	A	A	A	A	A	A	A	A	A	A
PW-17	TCE	5.0 µg/L			drinking water	ND1.0	ND1.0	0.5J	ND1.0	+++	ND0.5	ND0.5	ND0.5	0.5	---	---	I	I	I	I	I	I	I	I
PW-18	TCE	5.0 µg/L			irrigation	ND1.0	ND1.0	---	---	+++	---	---	---	---	---	---	Unk	I	I	I	I	I	I	I
PW-20	TCE	5.0 µg/L			domestic	ND1.0	ND1.0	ND1.0	0.7J	+++	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	0.9
PW-21	TCE	5.0 µg/L			irrigation	ND1.0	ND1.0	ND1.0	ND1.0	+++	ND0.5	ND0.5	A	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	I
PW-03	Chromium	100 µg/L			drinking water	1.0	2.2J	ND1.0	ND1.0	---	ND10	ND10	ND1.0	1.2	1.2	ND1.0	ND5.0	ND5.0	ND5.0	---	ND1.0	ND1.0	---	---
PW-07	Chromium	100 µg/L			irrigation	ND1.0	2.2J	ND1.0	ND1.0	---	ND10	ND10	2.3	1.1	---	---	ND5.0	5.8	ND5.0	0.8	ND1.0	5.2	---	ND1.0
PW-11	Chromium	100 µg/L			irrigation	2.8J	---	---	ND1.0	---	ND10	ND10	3.4	3.4	1.7	ND1.0	ND5.0	---	---	---	5.8	ND1.0	3	8.9
PW-12	Chromium	100 µg/L			drinking water	5.4J	6.3J	7J	6J	---	ND10	ND10	5.8	5.5	6.8	5.0	6.1	5.0	7.8	5.2	5.5	4.8	5.5	6.1
PW-13	Chromium	100 µg/L			drinking water	5J	4.8J	ND1.0	7J	---	ND10	ND10	5.9	6.3	6.2	6.5	6.5	7.3	6.1	5.9	5.1	4.9	---	5.7
PW-14	Chromium	100 µg/L			irrigation	9J	9.9J	13.0	10.0	---	ND10	11.0	12.0	12.0	11.0	12.0	11.4	10.2	10.2		17	13.0	12.3	12.3
PW-15	Chromium	100 µg/L			drinking water	4.6J	6.3J	7J	6J	---	ND10	A	A	A	A	A	A	A	A	A	A	A	A	A
PW-16	Chromium	100 µg/L			drinking water	6.4J	10.2	ND1.0	10.0	---	14.0	A	A	A	A	A	A	A	A	A	A	A	A	A
PW-17	Chromium	100 µg/L			drinking water	1.2	ND1.0	ND1.0	ND1.0	---	ND10	ND10	1.0	1.3	---	---	I	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	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	ND5.0	ND5.0	3.3	2.3	2.1	2.3	2.8
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	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	+++	+++	+++	+++	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	---	ND0.07	ND0.07	---	---
PW-07	1,4 dioxane		3 µg/L	0.35 µg/L	irrigation	+++	+++	+++	+++	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	---	---	ND1.0	ND1.0	ND1.0	ND1.0	0.127	1.3	---	0.1
PW-11	1,4 dioxane		3 µg/L	0.35 µg/L	irrigation	+++	+++	+++	+++	---	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	---	---	---	1.3	0.1	1.5	1.0
PW-12	1,4 dioxane		3 µg/L	0.35 µg/L	drinking water	+++	+++	+++	+++	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	ND0.07	ND0.07	ND0.07	ND0.07
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	ND1.0	ND1.0	ND1.0	1.6	2.2	2.0	---	1.5
PW-14	1,4 dioxane		3 µg/L	0.35 µg/L	irrigation	+++	+++	+++	+++	6.8	7.1	7.1	6.6	7.0	6.8	6.1	1.6	1.9	1.2	---	4.9	3.7	3.3	2.5
PW-15	1,4 dioxane		3 µg/L	0.35 µg/L	drinking water	+++	+++	+++	+++	ND1.0	ND1.0	A	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	A
PW-17	1,4 dioxane		3 µg/L	0.35 µg/L	drinking water	+++	+++	+++	+++	ND1.0	ND1.0	ND1.0	ND1.0	ND1.0	---	---	I	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	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	ND1.0	ND1.0	ND1.0	1.6	1.7	1.5	1.3	1.1
PW-21	1,4 dioxane		3 µg/L	0.35 µg/L	irrigation	+++	+++	+++	+++	ND1.0	ND1.0	ND1.0	A	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	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	

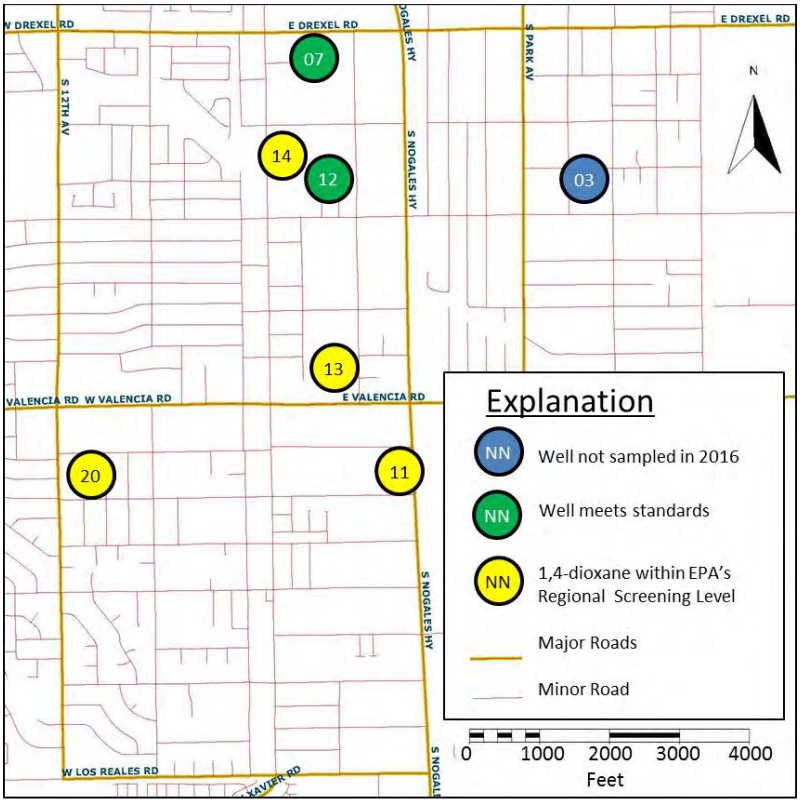

Figure 6. Southside Private Well Monitoring Exceedance Map

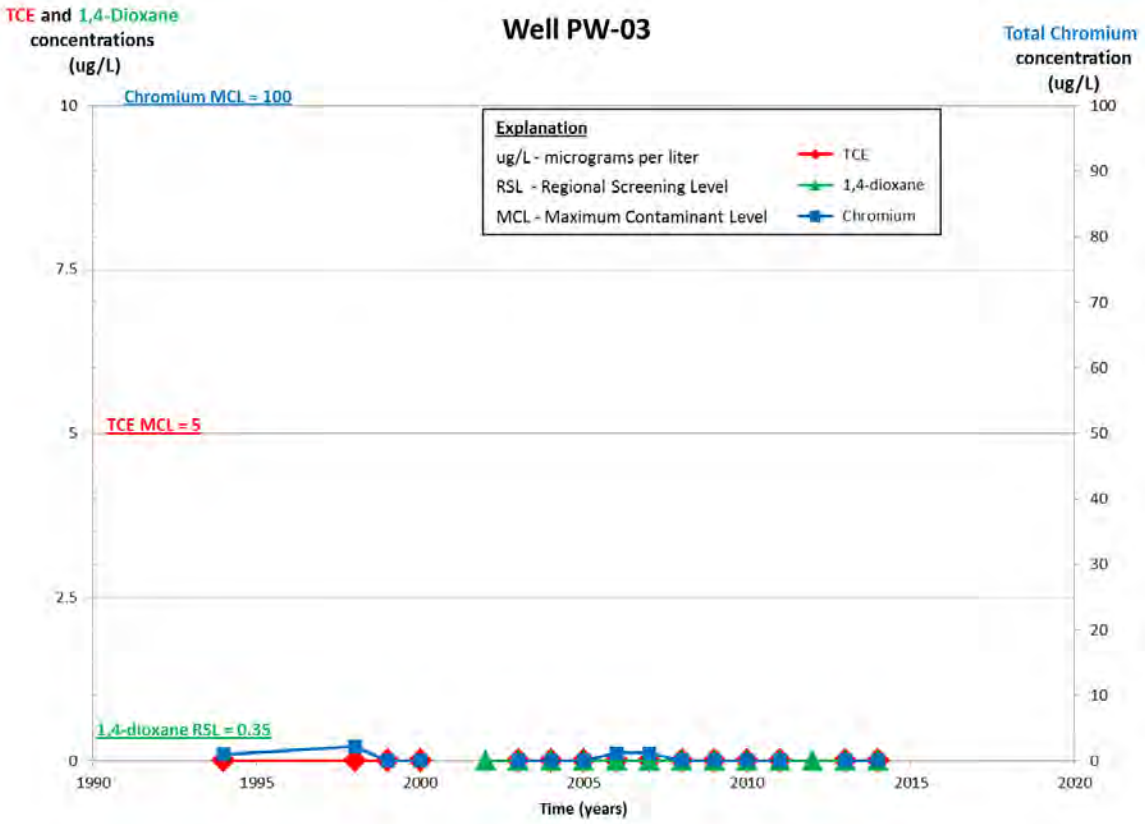

Figure 7. TCE, 1,4-Dioxane and Total Chromium Concentrations in Well PW-03

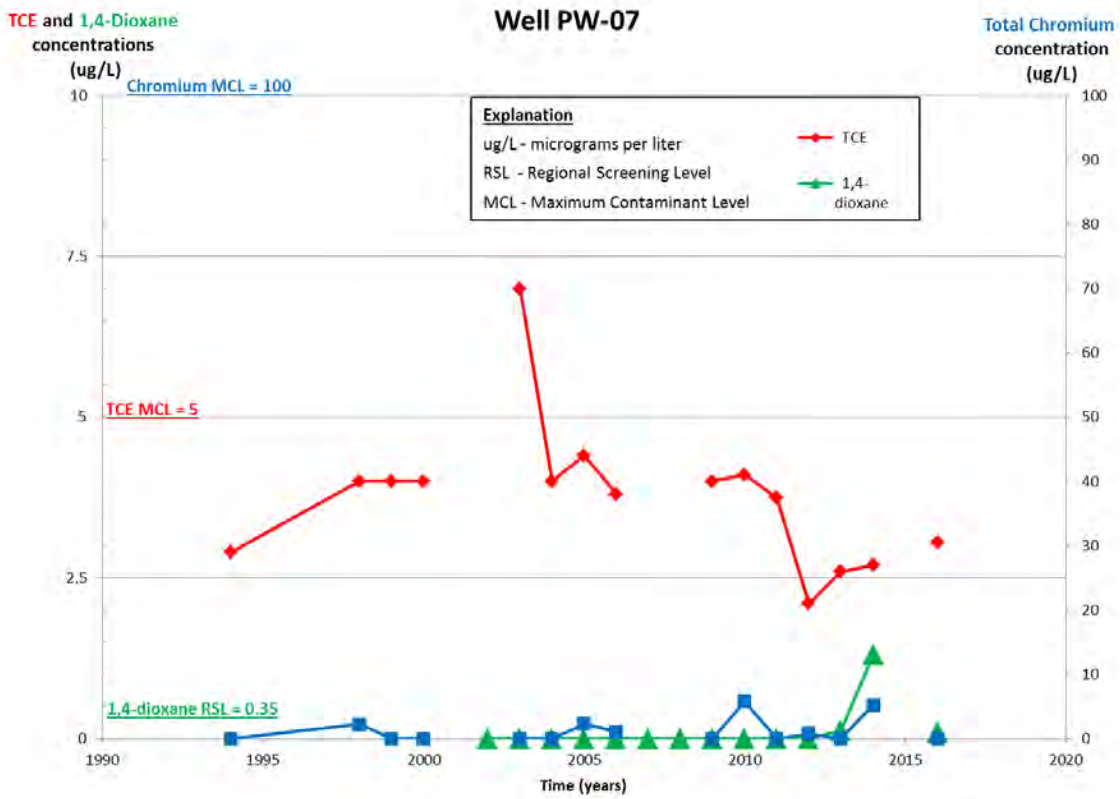

Figure 8. TCE, 1,4-Dioxane and Total Chromium Concentrations in Well PW-07

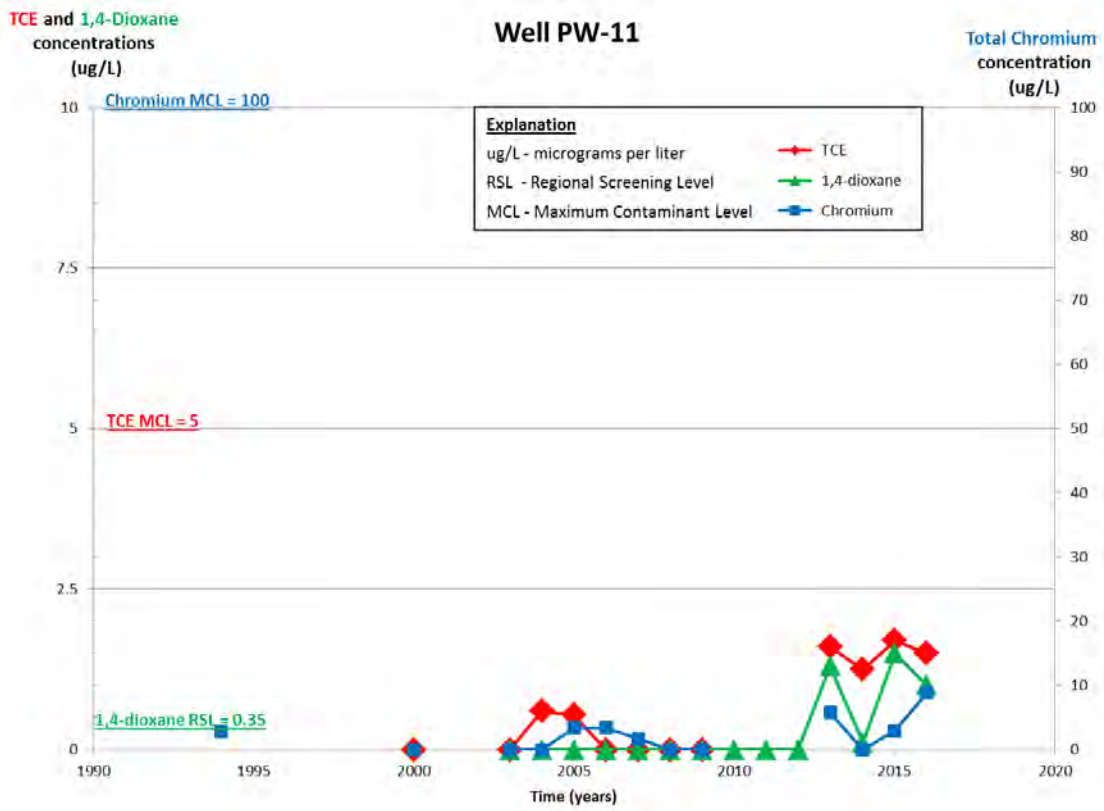

Figure 9. TCE, 1,4-Dioxane and Total Chromium Concentrations in Well PW-11

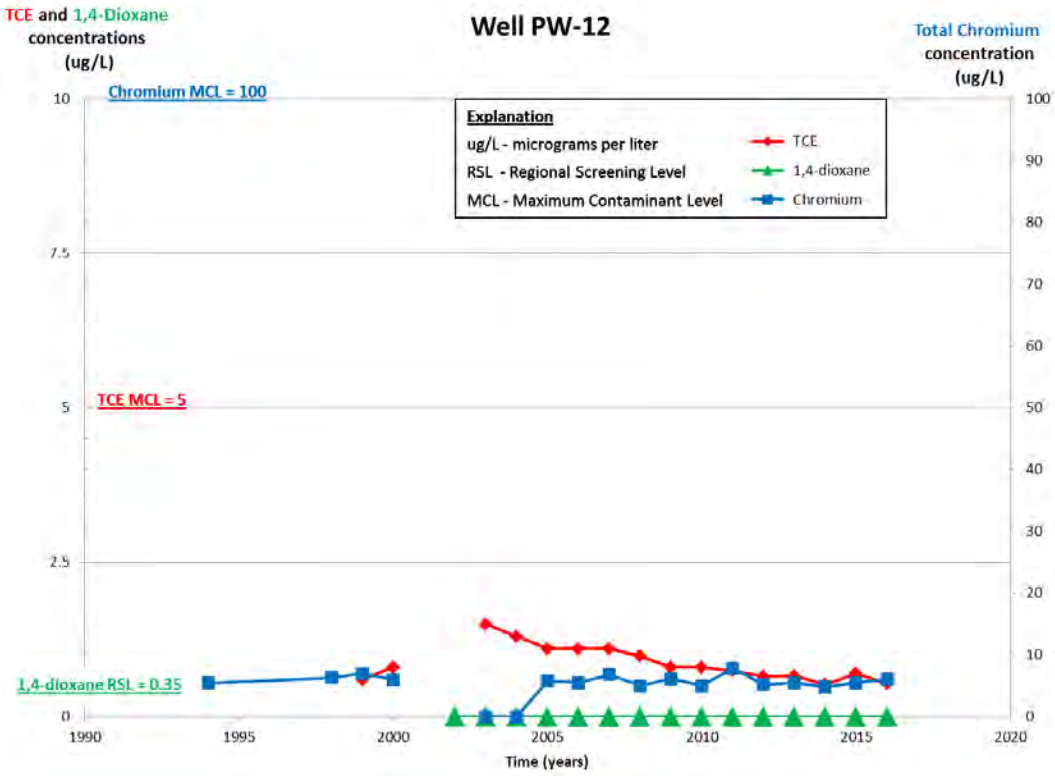

Figure 10. TCE, 1,4-Dioxane and Total Chromium Concentrations in Well PW-12

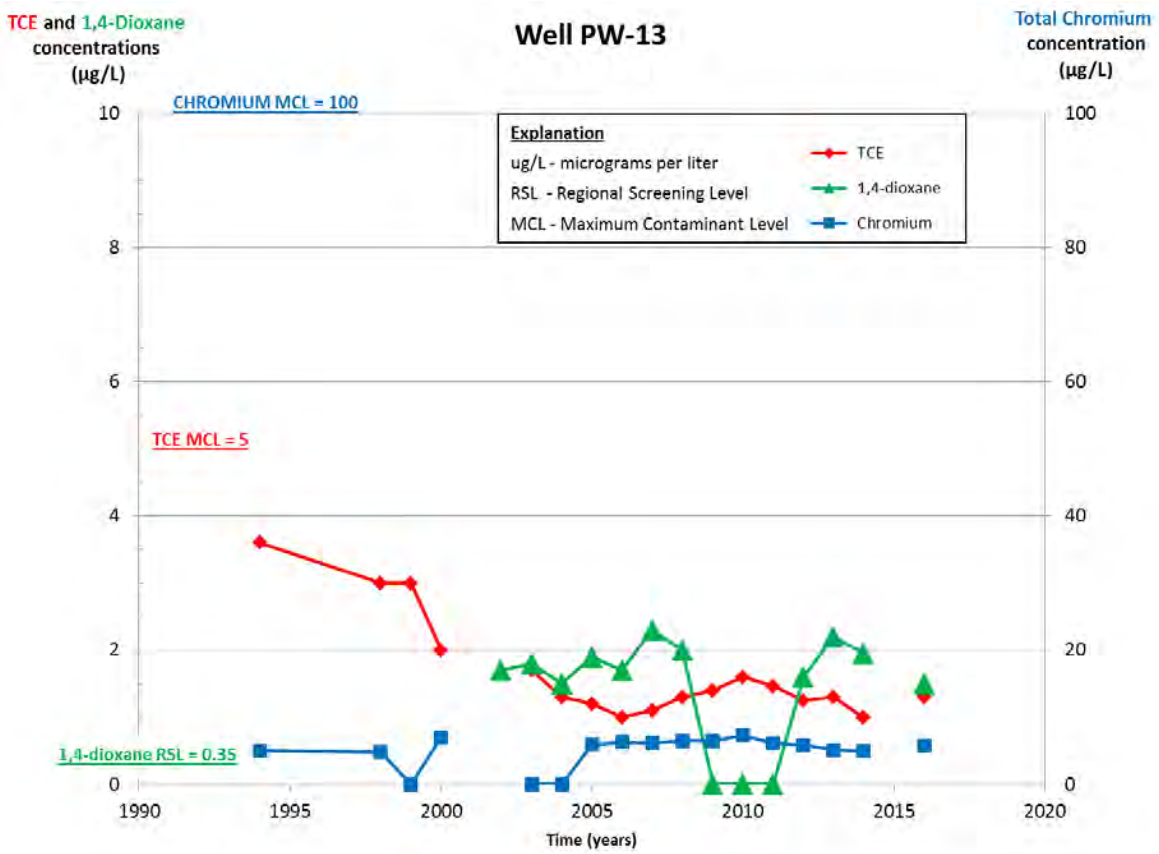

Figure 11. TCE, 1,4-Dioxane and Total Chromium Concentrations in Well PW-13

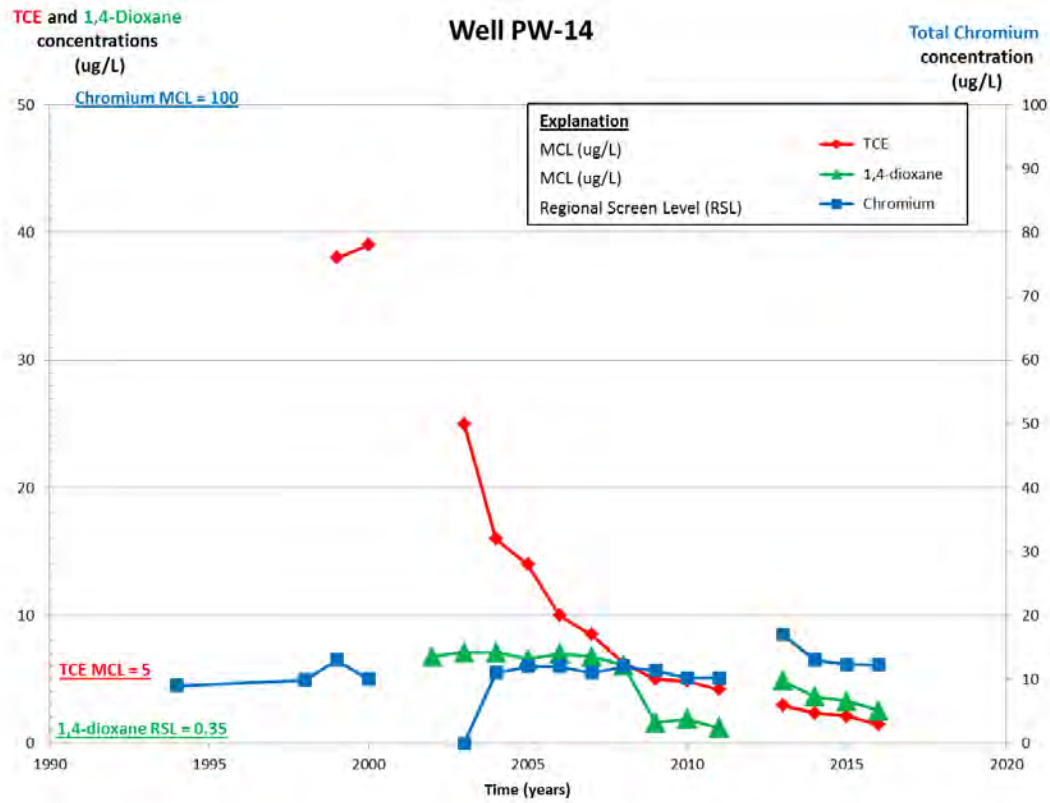

Figure 12. TCE, 1,4-Dioxane and Total Chromium Concentrations in Well PW-14

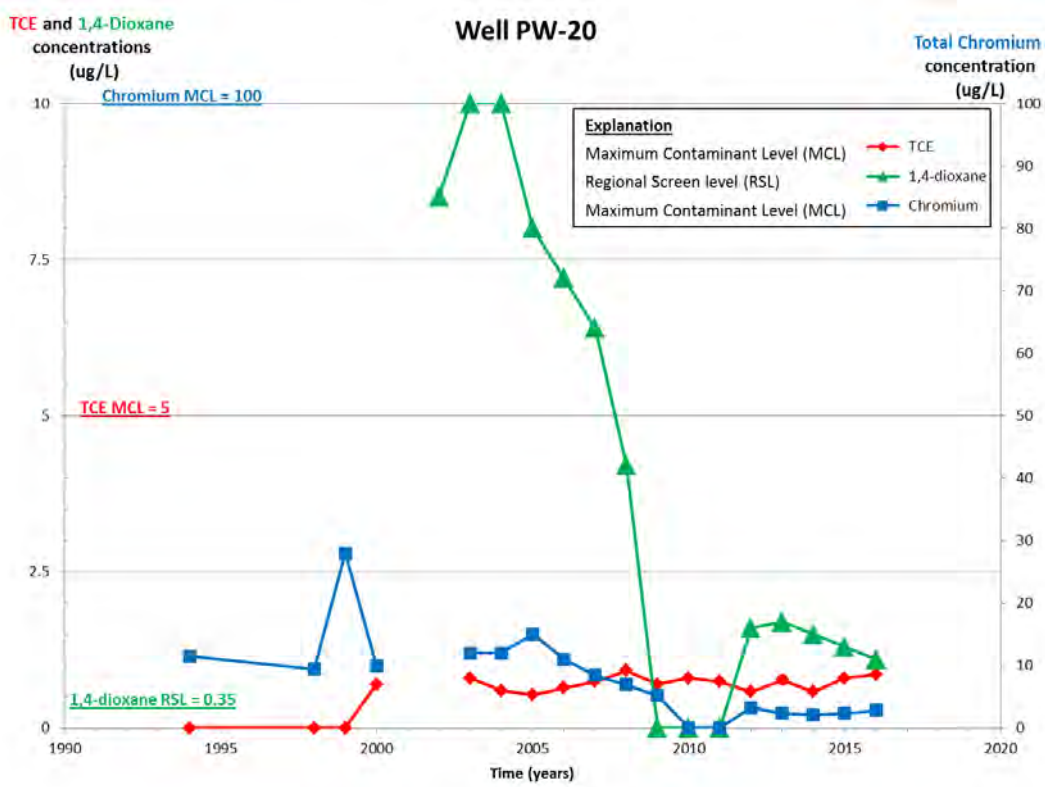

Figure 13. TCE, 1,4-Dioxane and Total Chromium Concentrations in Well PW-20

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 Within EPA's Target Risk Range*	Sample Date	Lab Results Received by PDEQ	Level IV Laboratory Data Received by PDEQ	Tele-phone Notice	Letter Sending Results
	TCE	Cr	1,4-dioxane					
PW-07	No	No	No	02/16/16	03/17/16	04/11/16	No	04/18/16
PW-11	No	No	Yes	02/16/16	03/03/16	04/11/16	No	04/18/16
PW-12	No	No	No	02/16/16	03/03/16	04/11/16	No	04/18/16
PW-13	No	No	Yes	02/17/16	03/16/16	04/11/16	No	04/18/16
PW-14	No	No	Yes	02/17/16	03/16/16	04/11/16	No	04/18/16
PW-20	No	No	Yes	02/17/16	03/16/16	04/11/16	No	04/18/16

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 $1x10^{-6}$]
Target Risk Range ranges between $1x10^{-6}$ and $1x10^{-4}$, which is equivalent to 0.35 to 35 µg/L.

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 Tucson City Council Members Richard Fimbres and Regina Romero. On July 18, 2016, 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 2016 sampling season marked the fourteenth 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 fifteen 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 2017 sampling season.

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

December 29, 2015

[redacted]

Subject: **2016** 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 2016**, 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
Eric Roudebush / Tucson Airport Authority

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Director FAX (520) 243-7370

29 de Diciembro 2015

[redacted]

Sujeto: **2016** 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 2016,** 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
Eric Roudebush / Autoridad del Aeropuerto de Tucson

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Director FAX (520) 243-7370

December 29, 2015

[redacted]

Subject: **2016** 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 2016**, 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

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cc: Mary Aycock / United States Environmental Protection Agency
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29 de Diciembre 2015

[redacted]

Sujeto: **2016** 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 2016,** 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
Eric Roudebush / Autoridad del Aeropuerto de Tucson

PIMA COUNTY
ENVIRONMENTAL QUALITY

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

December 29, 2015

[redacted]

Subject: **2016** 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 2016**, 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
Eric Roudebush / Tucson Airport Authority
Leslie Pesquiera

PIMA COUNTY
ENVIRONMENTAL QUALITY

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

29 de Diciembre 2015

[redacted]

Sujeto: **2016** 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 2016,** 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
Eric Roudebush / Autoridad del Aeropuerto de Tucson
Leslie Pesquiera

PIMA COUNTY
ENVIRONMENTAL QUALITY

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Tucson, Arizona 85701
Ursula Kramer, P.E. www.pima.gov/deq (520) 243-7400
Director FAX (520) 243-7370

December 29, 2015

[redacted]

Subject: **2016** 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 2016**, 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.

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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
Eric Roudebush / Tucson Airport Authority
Marisela Garcia

PIMA COUNTY
ENVIRONMENTAL QUALITY

33 North Stone Avenue, Suite 700
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Director FAX (520) 243-7370

29 de Diciembre 2015

[redacted]

Sujeto: **2016** 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 2016,** 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
Eric Roudebush / Autoridad del Aeropuerto de Tucson
Marisela Garcia

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

December 29, 2015

[redacted]

Subject: **2016** 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 2016**, 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
Eric Roudebush / 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

29 de Diciembre 2015

[redacted]

Sujeto: **2016** 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 2016,** 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
Eric Roudebush / Autoridad del Aeropuerto de Tucson

PIMA COUNTY
ENVIRONMENTAL QUALITY

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

December 29, 2015

[redacted]

Subject: **2016** 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 2016**, 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
Eric Roudebush / Tucson Airport Authority

PIMA COUNTY
ENVIRONMENTAL QUALITY

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

29 de Diciembre 2015

[redacted]

Sujeto: **2016** 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 2016,** 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
Eric Roudebush / Autoridad del Aeropuerto de Tucson

PIMA COUNTY
ENVIRONMENTAL QUALITY

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

December 17, 2015

Jim Hillary
District Manager
HMB Property Management, LLC
950 Echo Lane, Suite 200
Houston, Texas 77024

Subject: **2016** Private Well Monitoring Program – Well #13

Dear Mr. Jim Hillary:

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), the Tucson Airport Authority (TAA), and Arizona Department of Health Services (ADHS) is preparing to collect water samples from private wells in your neighborhood. This testing, which we plan to conduct during the month of **February 2016**, will provide information about the quality of water pumped from wells in the neighborhood and is part of an ongoing effort that began in the early 1990's. Previous sampling has detected 1,4-dioxane and ADHS has recommended continued monitoring at the Public Water Supply (PWS 20-512) well on 6410 S Fontana Avenue to ensure the concentrations do not exceed levels protective of human health.

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 drinking water source.

We appreciate the upgrades currently being implemented at this property and look forward to working with you regarding sampling at this well. If you have any questions, please contact me at (520) 724-7457.

Sincerely,

Marie Light

Marie Light
Principal Hydrologist

PIMA COUNTY
ENVIRONMENTAL QUALITY

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

cc: Mary Aycock / United States Environmental Protection Agency
William Ellett / Arizona Department of Environmental Quality
Matthew Roach / Arizona Department of Health Services
Fred Brinker / Tucson Airport Authority
Teralyn Thornsberry / Yankee Lincoln Tech (Certified Well Operator)

PIMA COUNTY
ENVIRONMENTAL QUALITY

33 North Stone Avenue, Suite 700
Tucson, Arizona 85701
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): _____

PIMA COUNTY
ENVIRONMENTAL QUALITY

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

December 29, 2015

[redacted]

Subject: **2016** 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 2016**, 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
Eric Roudebush / Tucson Airport Authority

PIMA COUNTY
ENVIRONMENTAL QUALITY

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

29 de Diciembre 2015

[redacted]

Sujeto: **2016** 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 2016,** 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
Eric Roudebush / Autoridad del Aeropuerto de Tucson

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

December 29, 2015

[redacted]

Subject: **2016** 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 2016**, 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
Eric Roudebush / Tucson Airport Authority
Pastor / Manor Baptist Church

PIMA COUNTY
ENVIRONMENTAL QUALITY

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

29 de Diciembre 2015

[redacted]

Sujeto: **2016** Programa de Vigiliación para Pozos Privados – Pozo #20

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 2016,** 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
Eric Roudebush / Autoridad del Aeropuerto de Tucson
Pastor / Manor Baptist Church

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

December 29, 2015

[redacted]

Subject: **2016** 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 2016**, 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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Marie Light

Marie Light
Principal Hydrologist

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Director FAX (520) 243-7370

29 de Diciembre 2015

[redacted]

Sujeto: **2016** Programa de Vigiliación para Pozos Privados – Pozo #20

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 2016,** 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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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): _____

02/16/16 07:20 Office #1

YSI Pro 1030 #1

pH Calibration

Buffer	Reading	Temp	pH mV
KLR 2/16/16 ~~6.65~~ 7.02	~~7.02~~ 6.65	21.1	6.7
4.00	—	21.4	119.6
10.06	—	20.1	-151.3

Calibration Successful

Conductivity Calibration

Buffer	Reading	Temp	
1413	1346	22.4	
147	142	22.7	Calibration Successful

YSI Pro 1030 #2

pH Calibration

Buffer	Reading	Temp	pH mV
7.02	6.83	20.1	-5.5
4.00	-	21.2	160.3
10.06	-	20.5	-179.2

Calibration successfull

Conductivity Calibration

Buffer	Reading	Temp
1413	1324	22.6
147	145	22.8

Calibration Successful

Rite in the Rain

2/16/16 PW-12 8:30 - 9:56 #2
Weather: Sunny, 55°F
Tap Water Quality: pH = 6.62, EC = 321, Temp = 12.3
*drops of HCl to get pH ≤2.0 = 1.72 at 1.7 pH
KCR 2/16/16

Tap Sample PW-12-01 CR ~~8:57~~ 9:02 KCR 2/16/16
14D 8:57 - 9:02
VOC = 9:05-9:07

Purging Well

Time	t	temp °C	EC us/cm	pH
9:22	0	KCR 2/16/16 ~~11°C~~ 21.9	418	6.5
9:27	5	23.6	242	6.5
9:32	10	24.3	303	6.5

Wellhead Sample PW-12-02 CR 9:33
14D 9:33-9:34
VOC 9:44-9:46
Samples had small bubbles rising to the top during sampling.

Field Sample PW-12-02F CR 9:41
14D 9:43-9:46
VOC 9:48-9:50

Well Pump turned off at 9:36
pH meters were not reading below pH 5.4
used pH strips to estimate pH to nearest ½ pH

2/16/16 PW-11 10:08 - 11:18 #3
Weather: Sunny 66°F
Tap Water Quality: pH = 6.5, EC: 679, Temp = 17.6
*drops of HCl to get pH<2.0: 6 = pH 1.8

Tap Sample PW-11-01 CR 10:25
14D 10:27-10:30
VOC 10:32-10:34

Purging Well

Time	#	temp °C	EC uS/cm	pH
10:47	0	24.2	783	6.5
10:52	5	25.5	723	6.5
10:57	10	25.5	714	6.5

Wellhead Sample PW-11-02 CR 10:57
14D 10:57-10:59
VOC 10:59-11:01

Wellhead Sample PW-11-02D CR 11:04
14D 11:04-11:05
VOC 11:06-11:08

Used pH strips to estimate pH

Rite in the Rain

2/16/16 PW-07 13:00 - 14:27 #4
Weather: Sunny 84°F
Tap Water Quality: pH = 6.5, EC = 1056, temp = 24.6
#drops HCl to get <2.0 pH: 4 = 2.0 pH

Tap Sample PW-07-01 CR 13:19
near Wellhead 14D 13:20 - 13:22
VOC 13:22 - 13:24

Purging Well

Time	L	Temp °C	EC uS/cm	pH
13:40	0	23.2	1028	6.5
13:45	5	23.7	1034	6.5
14:03	10	24.1	1059	6.5

Well Turned off 13:46, On at 13:59

~~Wellhead~~ Sample PW-07-02 CR 14:06
Tap KCR 2/17/16 14D 14:03-14:04
VOC 14:06-14:07

~~Wellhead~~ Sample PW-07-02 MS CR 14:09
Tap KCR 2/17/16 14D 14:10 - 14:12
VOC 14:13 - 14:14
KCR 2/16/16

~~Wellhead~~ Sample PW-07-02 MSD CR 14:17
Tap KCR 2/17/16 14D 14:18-14:19
VOC 14:19-14:20

Took ice chests to FedEX 15:30 54 lb, 55 lb

2/17/16 PW-13 8:45 - 9:51 #5
Weather: Sunny 66°F 7.05 KLR 2/17/16
Tap Water Quality: pH ~~6.18~~, EC 465, temp 18.8
#drops HCl to get pH<2.0: 1 = 1.81 pH

Tap Sample PW13-01 CR 9:00
Bathroom sink in Office 14D 9:03-9:06
VOC 9:08-9:11

Purging Well

Time	L	Temp °C	EC uS/cm	pH
9:21	0	24.5	592	7.51
9:26	5	25.2	510	7.75
	10			

no further purge because water is intermittent

Wellhead Sample PW-13-02 CR 9:26 KLR 2/17/16
collected samples after well 14D ~~9:27-9:29~~ 9:27-9:29
shutoff (PW-13-02 ~~[illegible]~~ 14D VOC) VOC 9:31-9:33

Field Sample PW-13-02F CR 9:39
14D 9:40-9:42
VOC 9:42-9:44

Needed to use 50mL cup to fill up
CR bottle due to faucet height in the sink
in sample PW-13-01

Rite in the Rain

2/17/16 PW-14 10:05 - 10:41 #6
Weather: Sunny 73°F
Tap Water Quality: pH = 7.71, EC = 1017, Temp = 23.7
*drops HCl to get pH<2.0: 1 = pH 1.86

Wellhead Sample PW-14-01 CR 10:11
14D 10:14-10:14
VOC 10:14-10:15

Purging Well

Time	t	Temp°C	EC uS/cm	pH
10:19	0	24.6	1410	7.31
10:24	5	25.0	1112	7.52
10:29	10	24.9	1078	7.61

Wellhead Sample PW-14-02 CR 10:28
14D 10:29-10:31
VOC 10:31-10:32

Wellhead Sample PW-14-02D CR 10:33
14D 10:34-10:35
VOC 10:36-10:37

Water from the well was initially slightly turbid and orange. Cleared up after a by the 5min purge sample

2/17/16 PW-20 10:54 - 11:47 #7
Weather: Sunny 79°F
Tap Water Quality: pH = 7.34, EC = 746, Temp = 20.4
*drops HCl to get pH < 2.0: 2 = pH 1.56

Tap Sample PW-20-01 CR 11:00
Men's Bathroom Sink 14D 11:01-11:07
VOC 11:03-11:05

Purging Well

Time	L	Temp °C	EC uS/cm	pH
11:09	0	19.2	721	7.18
11:14	5	23.4	791	7.63
11:19	10	21.5	759	7.57

Wellhead Sample PW-20-02 CR 11:20
14D 11:20 - 11:21
VOC 11:22 - 11:24

Wellhead Sample PW-20-02 MS CR 11:24
14D 11:25-11:26
VOC 11:27-11:29

Wellhead Sample PW-20-02 MSD CR 11:30
14D 11:31 - 11:32
VOC 11:33-11:34

Took ice chests to FedEx 13:59
54lbs, 56lbs

Rite in the Rain

~~#~~ 2/16/16 Office 16:20
YSI Pro 1030 #4
pH calibration

Buffer	Reading	Temp °C	pH mV
7.01	6.90	22.6	11.3
4.00	~~159.4~~ KAR 2/16/16	21.8	159.4
10.03	—	22.8	-151.5

Calibration successful

EC Calibration

Buffer	Reading	Temp °C
1408	1351	24.0
147	149	24.2

Calibration Successful

YSI Pro 1030 #1
pH Calibration

Buffer	Reading	Temp °C	pH mV
7.00	7.01	26.1	-11.1
4.01	—	25.2	141.5
9.99	—	25.6	-165.2

Calibration Successful

YSI Pro 1030 #3 pH Calibration 19:20

7.01	7.08	21.4	-10.5
4.00	—	21.4	146.5
10.04	—	21.4	-160.1

Calibration Successful

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	7	-	01	
year	-	private well	well number	-	Sample Number	Other

Date: 02/16/16 Start time: 13:19 End Time: 13:24

Collected by: Light/Raymond

Sample Location: PW # 7 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: 2/16/16 / 15:36

Comments: pH meters were not reading below 5.4. pH strips were used to estimate pH to nearest ½ pH

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	7	-	02	
year	-	private well	well number	-	Sample Number	Other

Date: 02/16/16 Start time: 14:03 End Time: 14:07

Collected by: Light/Raymond

Sample Location: PW # 7 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: 2/16/16 / 15:36

Comments:

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	07	-	02L	MS, MSD
year	-	private well	well number	-	Sample Number	Other

Date: 02/16/16 Start time: AS 14:09 End Time: 14:14
Collected by: Light/Raymond MSD - 14:07 14:20
Sample Location: PW # 7 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: 2/16/16 15:36

Comments:

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	11	-	01	
year	-	private well	well number	-	Sample Number	Other

Date: 02/16/16 Start time: 10:25 End Time: 10:34

Collected by: Light/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: 2/16/16 / 15:36

Comments: pH meters were not reading below 5.4. pH strips were used to estimate pH to nearest ½ pH

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	11	-	02	
year	-	private well	well number	-	Sample Number	Other

Date: 02/16/16 Start time: 10:57 End Time: 11:01

Collected by: Light/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: 2/16/16 / 15:36

Comments:

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	11	-	02D	
year	-	private well	well number	-	Sample Number	Other

Date: 02/16/16 Start time: 11:04 End Time: 11:08

Collected by: Light/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: 2/16/16 / 15:36

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	12	-	01	
year	-	private well	well number	-	Sample Number	Other

Date: 02/16/16 Start time: 8:57 End Time: 9:07

Collected by: Light/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: 2/16/16 / 15:36

Comments: pH meters were not reading below 5.4. pH strips were used to estimate pH to nearest ½ pH

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	12	-	02F	
year	-	private well	well number	-	Sample Number	Other

Date: 02/16/16 Start time: 9:41 End Time: 9:50

Collected by: Light/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: 2/16/16 / 15:36

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	13	-	01	
year	-	private well	well number	-	Sample Number	Other

Date: 02/17/16 Start time: 9:00 End Time: 9:11

Collected by: Light/Raymond

Sample Location: PW # 13 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: 2/17/16 / 13:59

Comments: A 50mL plastic cup was rinsed three times with the tap water and was used to fill up the Cr bottle because the bottle was too tall to fit underneath the faucet

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	13	-	02	
year	-	private well	well number	-	Sample Number	Other

Date: 02/17/16 Start time: 9:26 End Time: 9:33

Collected by: Light/Raymond

Sample Location: PW # 13 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: 2/17/16 / 13:59

Comments: Purged the well for 5 minutes rather than 10 minutes because water flow at the wellhead was intermittent.

Collect PW-13-02 1,4-dioxane and VOC samples after the well shut off, but a trickle was still flowing.

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	13	-	02F	
year	-	private well	well number	-	Sample Number	Other

Date: 02/17/16 Start time: 9:39 End Time: 9:44

Collected by: Light/Raymond

Sample Location: PW # 13 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: 2/17/16 / 13:59

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	14	-	01	
year	-	private well	well number	-	Sample Number	Other

Date: 02/17/16 Start time: 10:11 End Time: 10:15

Collected by: Light/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: 2/17/16 / 13:59

Comments: Water from the well was initially slightly turbid and orange. The water cleared up by the 5 minute purge water quality sample.

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	14	-	02	
year	-	private well	well number	-	Sample Number	Other

Date: 02/17/16 Start time: 10:28 End Time: 10:32

Collected by: Light/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: 2/17/16 / 13:59

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	14	-	02D	
year	-	private well	well number	-	Sample Number	Other

Date: 02/17/16 Start time: 10:33 End Time: 10:37

Collected by: Light/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: 2/17/16 / 13:59

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	20	-	01	
year	-	private well	well number	-	Sample Number	Other

Date: 02/17/16 Start time: 11:00 End Time: 11:05

Collected by: Light/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: 2/17/16 / 13:59

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	20	-	02	
year	-	private well	well number	-	Sample Number	Other

Date: 02/17/16 Start time: 11:20 End Time: 11:24

Collected by: Light/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: 2/17/16 / 13:59

Comments:

Revised January 21, 2014

PIMA COUNTY
ENVIRONMENTAL QUALITY

TCE WELL MONITORING SAMPLING RECORD

Sample Identification:

2016	-	PW	20	-	02L	MS, MSD
year	-	private well	well number	-	Sample Number	Other

Date: 02/17/16 Start time: MS 11:24 MSD 11:30 End Time: 11:29 11:34

Collected by: Light/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: 2/17/16 / 13:59

Comments:

Revised January 21, 2014

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CHAIN OF CUSTODY RECORD

576312

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

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

Website:

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ SAMPLES CHECKED AGAINST COC BY: VP

SAMPLES LOGGED IN BY: RD

SAMPLE TEMP RECEIVED AT: SAMPLES REC'D DAY OF COLLECTION? [ ] (check for yes)

[ ] _____ (Other) IR Gun ID = _____ (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C)

[X] Monrovia IR Gun ID = 464A (Observation= 0.5 °C) (Corr.Factor 0.2 °C) (Final = 0.3 °C)

Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10°C)

TYPE OF ICE: Real X Synthetic ____ No Ice ____ CONDITION OF ICE: Frozen ____ Partially Frozen X Thawed ____ N/A ____

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: PIMA-AZ

COC ID:

SAMPLE GROUP: Groundwater / Day 1 #1

COMPLIANCE SAMPLES [ ] (check for yes) - Requires state forms [ ]

NON-COMPLIANCE SAMPLES [✓] (check for yes)

REGULATION INVOLVED: _____ (eg. SDWA, NPDES, etc.)

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION

SEE ATTACHED KIT ORDER FOR ANALYSES [✓] (check for yes), OR

List ALL 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 2008	EPA 524.2	KID EPA 524	SAMPLER COMMENTS
2/16	8:57	2016-PW-12-01		RGW			✓	✓	✓	
2/16	9:33	2016-PW-12-02		RGW			✓	✓	✓	
2/16	9:41	2016-PW-12-02F		RGW			✓	✓	✓	
2/16	10:25	2016-PW-11-01		RGW			✓	✓	✓	
2/16	10:57	2016-PW-11-02		RGW			✓	✓	✓	
~~2/16~~	~~11:04~~	~~2016-PW-11-02D~~		~~RGW~~			~~✓~~	~~✓~~	~~✓~~	Moved to other ice chest

* 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	PCDEQ/Hydrologist	2/16/16	8:57
RELINQUISHED BY:	Marie Light	Marie Light	PCDEQ/Hydrologist	2/16/16	15:09
RECEIVED BY:	[illegible]	H. Olocla	EEA	2/17/16	1113
RELINQUISHED BY:					
RECEIVED BY:					

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CHAIN OF CUSTODY RECORD

572745

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
Phone: 626 386 1100
Fax: 626 386 1101
800 566 LABS (800 566 5227)
Website:

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ SAMPLES CHECKED AGAINST COC BY: W

SAMPLES LOGGED IN BY: R

SAMPLE TEMP RECEIVED AT: SAMPLES REC'D DAY OF COLLECTION? ☐ (check for yes)

☐ _____ (Other) IR Gun ID = _____ (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C)

☒ Monrovia IR Gun ID = 464A (Observation= 0.7 °C) (Corr.Factor 0.2 °C) (Final = 0.5 °C)

Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10°C)

TYPE OF ICE: Real ✓ Synthetic ____ No Ice ____ CONDITION OF ICE: Frozen ____ Partially Frozen ✓ Thawed ____ N/A ____

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: PC DEQ - GW

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

NON-COMPLIANCE SAMPLES ✓ (check for yes) REGULATION INVOLVED: _____ (eg. SDWA, NPDES, etc.)

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION

SRW 02/18/16

EEA CLIENT CODE: Pima-AZ

COC ID:

SAMPLE GROUP: Groundwater / Day ~~2~~ 1 #2

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

List ALL 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	M EPA 524.2	HD EPA 522											SAMPLER COMMENTS
2/16	11:04	2016-PW-11-02D		RGW			✓	✓	✓											
2/16	13:09	2016-PW-07-01		"			✓	✓	✓											
2/16	14:03	2016-PW-07-02		"			✓	✓	✓											
2/16	14:09	2016-PW07-02MS		"			✓	✓	✓											
2/16	14:17	2016-PW07-02MSD		"			✓	✓	✓											
2/16		Temperature Blank deg C																		
2/16		VOASDWATB																		

K# 21 6632 2410 3142

* 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	PCDEQ / Hydrologist	2/16/16	11:04
RELINQUISHED BY:	Marie Light	Marie Light	PCDEQ / Hydrologist	2/16/16	15:10
RECEIVED BY:	[illegible]	H. Ojeda	EEA	2/17/16	1120
RELINQUISHED BY:					
RECEIVED BY:					

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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: _____

SAMPLES CHECKED AGAINST COC BY: W 1506

SAMPLES LOGGED IN BY: W

SAMPLE TEMP RECEIVED AT:

- [ ] Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)
- [x] Monrovia 0.4 °C (Compliance: 4 ± 2 °C)

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

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 Envir. Quality

PROJECT CODE: PCDEQ-GW

EEA CLIENT CODE: PIMA-AZ

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	Cr EPA 200.8	Voc EPA 524.2	1,4-D EPA 522	SAMPLER COMMENTS
2/17	9:00	2016-PW-13-01		RGW			✓	✓	✓	
2/17	9:26	2016-PW-13-02		"			✓	✓	✓	
2/17	9:37	2016-PW-13-02F		"			✓	✓	✓	
2/17	10:11	2016-PW-14-01		"			✓	✓	✓	
2/17	10:28	2016-PW-14-02		"			✓	✓	✓	

FedEx TRK# 0221 6632 2410 2801 THU – 18 FEB 3:00P STANDARD OVERNIGHT

XH WHPA

91016 CA-US BUR

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

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	MARIE LIGHT	PCDEQ/Hydrologist	2/17/16	9:00
RELINQUISHED BY:	Marie Light	MARIE LIGHT	PCDEQ/Hydrologist	2/17/16	13:09
RECEIVED BY:	[illegible]	H. Oyedele	EEA	2/18/16	1239
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029 (06/26/2013)

PAGE ____ OF ____

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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: _____

SAMPLES CHECKED AGAINST COC BY: W 1514

SAMPLES LOGGED IN BY: _____

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

SAMPLE TEMP RECEIVED AT:
☐ Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)
☑ Monrovia 3.3 °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 Enviro Quality

PROJECT CODE: PCDEQ-GW

EEA CLIENT CODE: PIMA-Az

COC ID:

SAMPLE GROUP: Groundwater / Day 2

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

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)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	G EPA200.8	VOC EPA524.2	HD EPA522										SAMPLER COMMENTS
2/17	10:33	2016-PW-14-02D		RGW			✓	✓	✓										
2/17	11:00	2016-PW-20-01		"			✓	✓	✓										
2/17	11:20	2016-PW-20-02		"			✓	✓	✓										
2/17	11:24	2016-PW-20-02MS		"			✓	✓	✓										
2/17	11:30	2016-PW-20-02MSD		"			✓	✓	✓										

TRK# 0221 6632 2410 3153 RETURNS MON–FRI STANDARD OVERNIGHT

FedEx TRK# 0221 6632 2410 3153 THU – 18 FEB 3:00P STANDARD OVERNIGHT

XH WHPA 91016 CA–US BUR

* 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	PCDEQ/ Hydrologist	2/17/16	10:33
RELINQUISHED BY:	Marie Light	MARIE LIGHT	PCDEQ/ Hydrologist	2/17/16	13:09
RECEIVED BY:	[illegible]	Victor Hernandez	EEA	2/18/16	1232
RELINQUISHED BY:					
RECEIVED BY:					

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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)

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
03/03/2016

Eurofins Eaton Analytical

TDF: Thomas.D.French

Project Manager

NELAP ACCREDITED TNI LABORATORY ORELAP 4034

Report: 576312
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
----------	--------	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2016
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
California-Fresno- ELAP	2966	**New York ***	11320
Colorado	Certified	**North Carolina**	06701
Connecticut	PH-0107	**North Dakota**	R-009
Delaware	CA 006	**Oregon (Primary AB) ***	**ORELAP 4034**
Florida *	E871024	**Pennsylvania ***	68-565
Georgia	947	**Rhode Island**	LAO00326
Guam	15-003r	**South Carolina**	87016
Hawaii	Certified	**South Dakota**	Certified
Idaho	Certified	**Tennessee**	TN02839
Illinois *	200033	**Texas ***	T104704230-14-7
Indiana	C-CA-01	**Utah ***	CA000062015-8
Kansas *	E-10268	**Vermont**	VT0114
Kentucky	90107	**Virginia ***	460260
Louisiana *	LA16003	**Washington**	C838
Maine	CA0006	**West Virginia**	9943 C
Maryland	224	**----------**	**----------**
Commonwealth of Northern Marianas Is.	MP0004	**Wyoming**	8TMS-L
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**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

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/ANAB.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		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	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	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 Residua	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
Cryptosporidium	EPA 1622, 1623	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 (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		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 (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	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
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	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	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	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, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	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
Silica	SM 4500-Si D	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 (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure (2346)	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	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 E		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
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	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 001 Issued: 09/04/2015

Acknowledgement of Samples Received

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

Client ID: PIMA-AZ
Folder #: 576312
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 17, 2016** at **1113**. 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
201602170756	2016-PW-12-01			02/16/2016 0857
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
	Data Package	Sample Return		
201602170757	2016-PW-12-02			02/16/2016 0933
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201602170758	2016-PW-12-02F			02/16/2016 0941
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201602170759	2016-PW-11-01			02/16/2016 1025
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201602170760	2016-PW-11-02			02/16/2016 1057
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	

Test Description

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

@VOASDWA -- Volatile Organics by GCMS

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CHAIN OF CUSTODY RECORD

576312

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

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

Website:

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: VP

SAMPLES LOGGED IN BY: RD

SAMPLE TEMP RECEIVED AT:

☐ _____ (Other) IR Gun ID = _____ (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C)

☒ Monrovia IR Gun ID = 464A (Observation= 0.5 °C) (Corr.Factor 0.2 °C) (Final = 0.3 °C)

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

Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10°C)

TYPE OF ICE: Real ✓ Synthetic ____ No Ice ____ **CONDITION OF ICE:** Frozen ____ Partially Frozen ✓ Thawed ____ N/A ____

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: PIMA-AZ

COC ID:

SAMPLE GROUP: Groundwater / Day 1 #1

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

NON-COMPLIANCE SAMPLES ✓ (check for yes)
REGULATION INVOLVED: _____ (eg. SDWA, NPDES, etc)

Type of samples (circle one): **ROUTINE SPECIAL CONFIRMATION**

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

List ALL 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 218.6	EPA 524.2	KID EPA 524	SAMPLER COMMENTS
2/16	8:57	2016-PW-12-01		RGW			✓	✓	✓	
2/16	9:33	2016-PW-12-02		RGW			✓	✓	✓	
2/16	9:41	2016-PW-12-02F		RGW			✓	✓	✓	
2/16	10:25	2016-PW-11-01		RGW			✓	✓	✓	
2/16	10:57	2016-PW-11-02		RGW			✓	✓	✓	
~~2/16~~	~~11:04~~	~~2016-PW-11-02D~~		~~RGW~~			~~✓~~	~~✓~~	~~✓~~	Moved to other ice chest

*** 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	PCDEQ/Hydrologist	2/16/16	8:57/5
RELINQUISHED BY:	Marie Light	Marie Light	PCDEQ/Hydrologist	2/16/16	15:09
RECEIVED BY:	[illegible]	H. Olocla	EEA	2/17/16	1113
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029.3 (Version 3) (01/13/16) FEDEX 6632 2410 2797

PAGE ____ OF ____

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Kit Order for Pima County DEQ

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

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

Note: Sampler Please return this paper with your samples

Kit #: 130071

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

Created By: Thomas.D.French - [TDF]
Deliver By: 02/11/2016
STG: Bottle Orders
Ice Type: W
Pre **Registered**

Ship Sample Kits to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

USA
Attn: Marie Light
Phone: 520-724-7457
Fax: 520-838-7432

Send Report to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

USA
Attn: Marie Light
Phone: 520-724-7457
Fax: 520-838-7432

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

USA
Attn: Marie Light
Phone: 520-724-7457
Fax: 520-838-7432

# of Sample	Tests	Bottle Qty - Type [preservative information]	UN DOT #
10	@UCMR3 522	3 - 125ml amber glass [6.25 Sulfite +125 mg Bisulfite]	
1	Temperature Blank deg C	1 - 125ml poly [no preservative + H20]	
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 02/12/16.

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)

Laboratory Comments
Report: 576312

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

Flags Legend:

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.

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 Hits
Report: 576312

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

Samples Received on:
02/17/2016 1113

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201602170756	**2016-PW-12-01**				
02/18/2016 11:41	Chromium Total ICAP/MS		6.0	100	ug/L	1
	201602170757	**2016-PW-12-02**				
02/18/2016 11:43	Chromium Total ICAP/MS		6.1	100	ug/L	1
02/19/2016 20:23	Trichloroethylene (TCE)		0.53	5	ug/L	0.5
	201602170758	**2016-PW-12-02F**				
02/19/2016 20:45	Chloroform (Trichloromethane)		1.8		ug/L	0.5
02/19/2016 20:45	Total THM		1.8	80	ug/L	0.5
	201602170759	**2016-PW-11-01**				
02/23/2016 2:21	1,4-Dioxane		1.1		ug/L	0.07
02/18/2016 11:52	Chromium Total ICAP/MS		5.8	100	ug/L	1
02/20/2016 17:08	Trichloroethylene (TCE)		1.5	5	ug/L	0.5
	201602170760	**2016-PW-11-02**				
02/23/2016 2:35	1,4-Dioxane		1.0		ug/L	0.07
02/18/2016 11:55	Chromium Total ICAP/MS		12	100	ug/L	1
02/19/2016 21:06	Trichloroethylene (TCE)		1.5	5	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 576312

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

Samples Received on:
02/17/2016 1113

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2016-PW-12-01 (201602170756)						**Sampled on 02/16/2016 0857**		
		EPA 200.8 - ICPMS Metals						
2/18/2016	02/18/2016 11:41	891704	(EPA 200.8)	Chromium Total ICAP/MS	6.0	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
2/21/2016	02/23/2016 1:38	892896	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS						
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016 16:27	892807	(EPA 524.2)	Chlorodibromomethane	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
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(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
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	16:27	892807	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2016-PW-12-02 (201602170757)							**Sampled on**	**02/16/2016 0933**	
		EPA 200.8 - ICPMS Metals							
2/18/2016	02/18/2016	11:43	891704	(EPA 200.8)	Chromium Total ICAP/MS	6.1	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/21/2016	02/23/2016	1:52	892896	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(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
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1

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02/17/2016 1113

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Trichloroethylene (TCE)	0.53	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:23	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2016-PW-12-02F (201602170758)							**Sampled on**	**02/16/2016 0941**	
		EPA 200.8 - ICPMS Metals							
2/18/2016	02/18/2016	11:50	891704	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/21/2016	02/23/2016	2:06	892896	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 576312

Pima County DEQ
Marie Light
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Samples Received on:
02/17/2016 1113

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Chloroform (Trichloromethane)	1.8	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016	20:45	892554	(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
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Total THM	1.8	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:45	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2016-PW-11-01 (201602170759)							**Sampled on**	**02/16/2016 1025**	
		EPA 200.8 - ICPMS Metals							
2/18/2016	02/18/2016	11:52	891704	(EPA 200.8)	Chromium Total ICAP/MS	5.8	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/21/2016	02/23/2016	2:21	892896	(EPA 522)	1,4-Dioxane	1.1	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1

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2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND (R7)	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(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
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Trichloroethylene (TCE)	1.5	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	17:08	892504	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2016-PW-11-02 (201602170760)							**Sampled on**	**02/16/2016 1057**	
		EPA 200.8 - ICPMS Metals							
2/18/2016	02/18/2016	11:55	891704	(EPA 200.8)	Chromium Total ICAP/MS	12	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/21/2016	02/23/2016	2:35	892896	(EPA 522)	1,4-Dioxane	1.0	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:06	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1

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

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Laboratory Data
Report: 576312

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

Samples Received on:
02/17/2016 1113

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(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
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Trichloroethylene (TCE)	1.5	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:06	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

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QC Summary: 576312

Pima County DEQ

QC Ref # 891704 - ICPMS Metals — **Analysis Date: 02/18/2016**

201602170756	2016-PW-12-01	Analyzed by: DTN
201602170757	2016-PW-12-02	Analyzed by: DTN
201602170758	2016-PW-12-02F	Analyzed by: DTN
201602170759	2016-PW-11-01	Analyzed by: DTN
201602170760	2016-PW-11-02	Analyzed by: DTN

QC Ref # 892504 - Volatile Organics by GCMS — **Analysis Date: 02/20/2016**

201602170759	2016-PW-11-01	Analyzed by: KCP

QC Ref # 892554 - Volatile Organics by GCMS — **Analysis Date: 02/19/2016**

201602170757	2016-PW-12-02	Analyzed by: MCB
201602170758	2016-PW-12-02F	Analyzed by: MCB
201602170760	2016-PW-11-02	Analyzed by: MCB

QC Ref # 892807 - Volatile Organics by GCMS — **Analysis Date: 02/22/2016**

201602170756	2016-PW-12-01	Analyzed by: KCP

QC Ref # 892896 - UCMR3 1,4-Dioxane by EPA 522 — **Analysis Date: 02/23/2016**

201602170756	2016-PW-12-01	Analyzed by: JYH
201602170757	2016-PW-12-02	Analyzed by: JYH
201602170758	2016-PW-12-02F	Analyzed by: JYH
201602170759	2016-PW-11-01	Analyzed by: JYH
201602170760	2016-PW-11-02	Analyzed by: JYH

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Report: 576312

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 891704 - ICPMS Metals by EPA 200.8						**Analysis Date: 02/18/2016**			
LCS1	Chromium Total ICAP/MS		100	98.2	ug/L	98	(85-115)		
LCS2	Chromium Total ICAP/MS		100	98.8	ug/L	99	(85-115)	20	0.61
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1	0.939	ug/L	94	(50-150)		
MS_201601220017	Chromium Total ICAP/MS	1.2	100	102	ug/L	101	(70-130)		
MS2_201601220296	Chromium Total ICAP/MS	ND	100	99.8	ug/L	100	(70-130)		
MSD_201601220017	Chromium Total ICAP/MS	1.2	100	101	ug/L	100	(70-130)	20	0.99
MSD2_201601220296	Chromium Total ICAP/MS	ND	100	99.0	ug/L	99	(70-130)	20	0.81
QC Ref# 892504 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/20/2016**			
LCS1	1,1,1,2-Tetrachloroethane		5	4.77	ug/L	95	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	4.83	ug/L	97	(70-130)	20	1.3
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
LCS1	1,1,1-Trichloroethane		5	4.54	ug/L	91	(70-130)		
LCS2	1,1,1-Trichloroethane		5	4.13	ug/L	83	(70-130)	20	9.5
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
LCS1	1,1,2,2-Tetrachloroethane		5	5.33	ug/L	107	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5	5.28	ug/L	106	(70-130)	20	0.94
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
LCS1	1,1,2-Trichloroethane		5	5.07	ug/L	101	(70-130)		
LCS2	1,1,2-Trichloroethane		5	4.84	ug/L	97	(70-130)	20	4.6
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
LCS1	1,1-Dichloroethane		5	4.73	ug/L	95	(70-130)		
LCS2	1,1-Dichloroethane		5	4.65	ug/L	93	(70-130)	20	1.7
MBLK	1,1-Dichloroethane			<0.5	ug/L				
LCS1	1,1-Dichloroethylene		5	4.74	ug/L	95	(70-130)		
LCS2	1,1-Dichloroethylene		5	4.66	ug/L	93	(70-130)	20	1.7
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
LCS1	1,1-Dichloropropene		5	4.68	ug/L	94	(70-130)		
LCS2	1,1-Dichloropropene		5	4.44	ug/L	89	(70-130)	20	5.3
MBLK	1,1-Dichloropropene			<0.5	ug/L				
LCS1	1,2,3-Trichlorobenzene		5	4.55	ug/L	91	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	4.90	ug/L	98	(70-130)	20	7.4
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
LCS1	1,2,3-Trichloropropane		5	5.07	ug/L	101	(70-130)		
LCS2	1,2,3-Trichloropropane		5	5.07	ug/L	101	(70-130)	20	0.0
MBLK	1,2,3-Trichloropropane			<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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Report: 576312

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,2,4-Trichlorobenzene		5	4.61	ug/L	92	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	4.37	ug/L	87	(70-130)	20	5.3
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
LCS1	1,2,4-Trimethylbenzene		5	4.93	ug/L	99	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	4.81	ug/L	96	(70-130)	20	2.5
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
LCS1	1,2-Dichloroethane		5	4.93	ug/L	99	(70-130)		
LCS2	1,2-Dichloroethane		5	4.88	ug/L	98	(70-130)	20	1.0
MBLK	1,2-Dichloroethane			<0.5	ug/L				
LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			109	%	109	(70-130)		
LCS1	1,2-Dichloropropane		5	4.95	ug/L	99	(70-130)		
LCS2	1,2-Dichloropropane		5	4.66	ug/L	93	(70-130)	20	6.0
MBLK	1,2-Dichloropropane			<0.5	ug/L				
LCS1	1,3,5-Trimethylbenzene		5	5.21	ug/L	104	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	4.93	ug/L	99	(70-130)	20	5.5
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
LCS1	1,3-Dichloropropane		5	4.80	ug/L	96	(70-130)		
LCS2	1,3-Dichloropropane		5	4.64	ug/L	93	(70-130)	20	3.4
MBLK	1,3-Dichloropropane			<0.5	ug/L				
LCS1	2,2-Dichloropropane		5	6.30	ug/L	126	(70-130)		
LCS2	2,2-Dichloropropane		5	5.90	ug/L	118	(70-130)	20	6.6
MBLK	2,2-Dichloropropane			<0.5	ug/L				
LCS1	2-Butanone (MEK)		50	47.9	ug/L	96	(70-130)		
LCS2	2-Butanone (MEK)		50	46.7	ug/L	93	(70-130)	20	2.5
MBLK	2-Butanone (MEK)			<5.0	ug/L				
LCS1	4-Bromofluorobenzene (S)			97.8	%	98	(70-130)		
LCS2	4-Bromofluorobenzene (S)			95.8	%	96	(70-130)		
MBLK	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	46.8	ug/L	94	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	45.1	ug/L	90	(70-130)	20	3.7
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
LCS1	Benzene		5	4.98	ug/L	100	(70-130)		
LCS2	Benzene		5	4.77	ug/L	95	(70-130)	20	4.3
MBLK	Benzene			<0.5	ug/L				
LCS1	Bromobenzene		5	5.06	ug/L	101	(70-130)		
LCS2	Bromobenzene		5	5.08	ug/L	102	(70-130)	20	0.39

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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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	Bromobenzene			<0.5	ug/L				
LCS1	Bromochloromethane		5	4.99	ug/L	100	(70-130)		
LCS2	Bromochloromethane		5	4.78	ug/L	96	(70-130)	20	4.3
MBLK	Bromochloromethane			<0.5	ug/L				
LCS1	Bromodichloromethane		5	4.99	ug/L	100	(70-130)		
LCS2	Bromodichloromethane		5	4.83	ug/L	97	(70-130)	20	3.3
MBLK	Bromodichloromethane			<0.5	ug/L				
LCS1	Bromoethane		5	5.91	ug/L	118	(70-130)		
LCS2	Bromoethane		5	5.18	ug/L	104	(70-130)	20	13
MBLK	Bromoethane			<0.5	ug/L				
LCS1	Bromoform		5	4.85	ug/L	97	(70-130)		
LCS2	Bromoform		5	5.05	ug/L	101	(70-130)	20	4.0
MBLK	Bromoform			<0.5	ug/L				
LCS1	Bromomethane (Methyl Bromide)		5	5.59	ug/L	112	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	5.69	ug/L	114	(70-130)	20	1.8
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
LCS1	Carbon disulfide		5	5.10	ug/L	102	(70-130)		
LCS2	Carbon disulfide		5	4.89	ug/L	98	(70-130)	20	4.2
MBLK	Carbon disulfide			<0.5	ug/L				
LCS1	Carbon Tetrachloride		5	4.65	ug/L	93	(70-130)		
LCS2	Carbon Tetrachloride		5	4.46	ug/L	89	(70-130)	20	4.2
MBLK	Carbon Tetrachloride			<0.5	ug/L				
LCS1	Chlorobenzene		5	4.71	ug/L	94	(70-130)		
LCS2	Chlorobenzene		5	4.55	ug/L	91	(70-130)	20	3.5
MBLK	Chlorobenzene			<0.5	ug/L				
LCS1	Chlorodibromomethane		5	5.32	ug/L	106	(70-130)		
LCS2	Chlorodibromomethane		5	5.07	ug/L	101	(70-130)	20	4.8
MBLK	Chlorodibromomethane			<0.5	ug/L				
LCS1	Chloroethane		5	5.04	ug/L	101	(70-130)		
LCS2	Chloroethane		5	4.77	ug/L	95	(70-130)	20	5.5
MBLK	Chloroethane			<0.5	ug/L				
LCS1	Chloroform (Trichloromethane)		5	5.24	ug/L	105	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	4.98	ug/L	100	(70-130)	20	5.1
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
LCS1	Chloromethane(Methyl Chloride)		5	5.20	ug/L	104	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	3.81	ug/L	76	(70-130)	20	**31**
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
LCS1	cis-1,2-Dichloroethylene		5	4.98	ug/L	100	(70-130)		

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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Laboratory QC
Report: 576312

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	cis-1,2-Dichloroethylene		5	4.64	ug/L	93	(70-130)	20	7.1
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
LCS1	cis-1,3-Dichloropropene		5	4.57	ug/L	91	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.50	ug/L	90	(70-130)	20	1.5
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
LCS1	Dibromomethane		5	5.01	ug/L	100	(70-130)		
LCS2	Dibromomethane		5	4.78	ug/L	96	(70-130)	20	4.7
MBLK	Dibromomethane			<0.5	ug/L				
LCS1	Dichlorodifluoromethane		5	5.63	ug/L	113	(70-130)		
LCS2	Dichlorodifluoromethane		5	5.53	ug/L	111	(70-130)	20	1.8
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
LCS1	Dichloromethane		5	4.98	ug/L	100	(70-130)		
LCS2	Dichloromethane		5	4.57	ug/L	91	(70-130)	20	8.6
MBLK	Dichloromethane			<0.5	ug/L				
LCS1	Di-isopropyl ether		5	5.14	ug/L	103	(70-130)		
LCS2	Di-isopropyl ether		5	4.99	ug/L	100	(70-130)	20	3.0
MBLK	Di-isopropyl ether			<3.0	ug/L				
LCS1	Ethyl benzene		5	4.65	ug/L	93	(70-130)		
LCS2	Ethyl benzene		5	4.58	ug/L	92	(70-130)	20	1.5
MBLK	Ethyl benzene			<0.5	ug/L				
LCS1	Hexachlorobutadiene		5	4.72	ug/L	94	(70-130)		
LCS2	Hexachlorobutadiene		5	4.58	ug/L	92	(70-130)	20	3.0
MBLK	Hexachlorobutadiene			<0.5	ug/L				
LCS1	Isopropylbenzene		5	4.63	ug/L	93	(70-130)		
LCS2	Isopropylbenzene		5	4.63	ug/L	93	(70-130)	20	0.0
MBLK	Isopropylbenzene			<0.5	ug/L				
LCS1	m,p-Xylenes		10	10.1	ug/L	101	(70-130)		
LCS2	m,p-Xylenes		10	9.84	ug/L	98	(70-130)	20	2.6
MBLK	m,p-Xylenes			<0.5	ug/L				
LCS1	m-Dichlorobenzene (1,3-DCB)		5	4.95	ug/L	99	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	4.85	ug/L	97	(70-130)	20	2.0
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
LCS1	Methyl Tert-butyl ether (MTBE)		5	4.90	ug/L	98	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	4.78	ug/L	96	(70-130)	20	2.5
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
LCS1	Naphthalene		5	4.25	ug/L	85	(70-130)		
LCS2	Naphthalene		5	4.38	ug/L	88	(70-130)	20	3.0
MBLK	Naphthalene			<0.5	ug/L				

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	n-Butylbenzene		5	4.92	ug/L	98	(70-130)		
LCS2	n-Butylbenzene		5	4.79	ug/L	96	(70-130)	20	2.7
MBLK	n-Butylbenzene			<0.5	ug/L				
LCS1	n-Propylbenzene		5	4.72	ug/L	94	(70-130)		
LCS2	n-Propylbenzene		5	4.49	ug/L	90	(70-130)	20	5.0
MBLK	n-Propylbenzene			<0.5	ug/L				
LCS1	o-Chlorotoluene		5	5.04	ug/L	101	(70-130)		
LCS2	o-Chlorotoluene		5	4.89	ug/L	98	(70-130)	20	3.0
MBLK	o-Chlorotoluene			<0.5	ug/L				
LCS1	o-Dichlorobenzene (1,2-DCB)		5	5.29	ug/L	106	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	5.02	ug/L	100	(70-130)	20	5.2
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
LCS1	o-Xylene		5	4.93	ug/L	99	(70-130)		
LCS2	o-Xylene		5	4.69	ug/L	94	(70-130)	20	5.0
MBLK	o-Xylene			<0.5	ug/L				
LCS1	p-Chlorotoluene		5	5.05	ug/L	101	(70-130)		
LCS2	p-Chlorotoluene		5	4.77	ug/L	95	(70-130)	20	5.7
MBLK	p-Chlorotoluene			<0.5	ug/L				
LCS1	p-Dichlorobenzene (1,4-DCB)		5	4.92	ug/L	98	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	5.03	ug/L	101	(70-130)	20	2.2
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
LCS1	p-Isopropyltoluene		5	4.91	ug/L	98	(70-130)		
LCS2	p-Isopropyltoluene		5	4.83	ug/L	97	(70-130)	20	1.6
MBLK	p-Isopropyltoluene			<0.5	ug/L				
LCS1	sec-Butylbenzene		5	5.06	ug/L	101	(70-130)		
LCS2	sec-Butylbenzene		5	4.86	ug/L	97	(70-130)	20	4.0
MBLK	sec-Butylbenzene			<0.5	ug/L				
LCS1	Styrene		5	5.09	ug/L	102	(70-130)		
LCS2	Styrene		5	4.68	ug/L	94	(70-130)	20	8.4
MBLK	Styrene			<0.5	ug/L				
LCS1	tert-amyl Methyl Ether		5	4.51	ug/L	90	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.37	ug/L	87	(70-130)	20	3.1
MBLK	tert-amyl Methyl Ether			<3	ug/L				
LCS1	tert-Butyl Ethyl Ether		5	4.65	ug/L	93	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	4.71	ug/L	94	(70-130)	20	1.3
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
LCS1	tert-Butylbenzene		5	4.82	ug/L	96	(70-130)		
LCS2	tert-Butylbenzene		5	4.50	ug/L	90	(70-130)	20	6.9

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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%
MBLK	tert-Butylbenzene			<0.5	ug/L				
LCS1	Tetrachloroethylene (PCE)		5	4.55	ug/L	91	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.37	ug/L	87	(70-130)	20	4.0
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
LCS1	Toluene		5	4.82	ug/L	96	(70-130)		
LCS2	Toluene		5	4.64	ug/L	93	(70-130)	20	3.8
MBLK	Toluene			<0.5	ug/L				
LCS1	Toluene-d8 (S)			106	%	106	(70-130)		
LCS2	Toluene-d8 (S)			99.0	%	99	(70-130)		
MBLK	Toluene-d8 (S)			94.6	%	95	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	4.81	ug/L	96	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	4.59	ug/L	92	(70-130)	20	4.7
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
LCS1	trans-1,3-Dichloropropene		5	5.26	ug/L	105	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	5.39	ug/L	108	(70-130)	20	2.4
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
LCS1	Trichloroethylene (TCE)		5	4.80	ug/L	96	(70-130)		
LCS2	Trichloroethylene (TCE)		5	4.50	ug/L	90	(70-130)	20	6.5
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
LCS1	Trichlorofluoromethane		5	5.33	ug/L	107	(70-130)		
LCS2	Trichlorofluoromethane		5	4.79	ug/L	96	(70-130)	20	11
MBLK	Trichlorofluoromethane			<0.5	ug/L				
LCS1	Trichlorotrifluoroethane(Freon		5	4.90	ug/L	98	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	4.82	ug/L	96	(70-130)	20	1.6
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
LCS1	Vinyl chloride (VC)		5	4.97	ug/L	99	(70-130)		
LCS2	Vinyl chloride (VC)		5	4.53	ug/L	91	(70-130)	20	9.3
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
QC Ref# 892554 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/19/2016**			
LCS1	1,1,1,2-Tetrachloroethane		5	4.77	ug/L	95	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	4.80	ug/L	96	(70-130)	20	0.63
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.440	ug/L	88	(50-150)		
MS_201601260315	1,1,1,2-Tetrachloroethane	ND	10	10.2	ug/L	102	(70-130)		
MS_201601260328	1,1,1,2-Tetrachloroethane	ND	10	10.1	ug/L	101	(70-130)		
MSD_201601260315	1,1,1,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201601260328	1,1,1,2-Tetrachloroethane	ND	10	10.0	ug/L	100	(70-130)	20	1
LCS1	1,1,1-Trichloroethane		5	4.11	ug/L	82	(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	4.71	ug/L	94	(70-130)	20	14
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	1,1,1-Trichloroethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260328	1,1,1-Trichloroethane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260315	1,1,1-Trichloroethane	ND	10	11.0	ug/L	110	(70-130)	20	3.7
MSD_201601260328	1,1,1-Trichloroethane	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	1,1,2,2-Tetrachloroethane		5	4.80	ug/L	96	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5	4.98	ug/L	100	(70-130)	20	3.7
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.490	ug/L	98	(50-150)		
MS_201601260315	1,1,2,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	1,1,2,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	1,1,2,2-Tetrachloroethane	ND	10	10.0	ug/L	100	(70-130)	20	3.9
MSD_201601260328	1,1,2,2-Tetrachloroethane	ND	10	10.1	ug/L	101	(70-130)	20	2.9
LCS1	1,1,2-Trichloroethane		5	4.85	ug/L	97	(70-130)		
LCS2	1,1,2-Trichloroethane		5	4.83	ug/L	97	(70-130)	20	0.41
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.470	ug/L	94	(50-150)		
MS_201601260315	1,1,2-Trichloroethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	1,1,2-Trichloroethane	ND	10	9.64	ug/L	96	(70-130)		
MSD_201601260315	1,1,2-Trichloroethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260328	1,1,2-Trichloroethane	ND	10	10.1	ug/L	101	(70-130)	20	4.7
LCS1	1,1-Dichloroethane		5	4.85	ug/L	97	(70-130)		
LCS2	1,1-Dichloroethane		5	5.08	ug/L	102	(70-130)	20	4.6
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.520	ug/L	104	(50-150)		
MS_201601260315	1,1-Dichloroethane	ND	10	10.8	ug/L	109	(70-130)		
MS_201601260328	1,1-Dichloroethane	ND	10	10.7	ug/L	107	(70-130)		
MSD_201601260315	1,1-Dichloroethane	ND	10	11.0	ug/L	110	(70-130)	20	0.91
MSD_201601260328	1,1-Dichloroethane	ND	10	10.8	ug/L	108	(70-130)	20	0.93
LCS1	1,1-Dichloroethylene		5	4.45	ug/L	89	(70-130)		
LCS2	1,1-Dichloroethylene		5	4.90	ug/L	98	(70-130)	20	9.6
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
MS_201601260315	1,1-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)		
MS_201601260328	1,1-Dichloroethylene	ND	10	10.8	ug/L	107	(70-130)		
MSD_201601260315	1,1-Dichloroethylene	ND	10	10.8	ug/L	109	(70-130)	20	0.92

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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%
MSD_201601260328	1,1-Dichloroethylene	ND	10	10.8	ug/L	107	(70-130)	20	0.0
LCS1	1,1-Dichloropropene		5	4.26	ug/L	85	(70-130)		
LCS2	1,1-Dichloropropene		5	4.62	ug/L	92	(70-130)	20	8.1
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	1,1-Dichloropropene	ND	10	10.9	ug/L	109	(70-130)		
MS_201601260328	1,1-Dichloropropene	ND	10	9.84	ug/L	98	(70-130)		
MSD_201601260315	1,1-Dichloropropene	ND	10	11.0	ug/L	110	(70-130)	20	0.91
MSD_201601260328	1,1-Dichloropropene	ND	10	10.4	ug/L	104	(70-130)	20	5.5
LCS1	1,2,3-Trichlorobenzene		5	5.19	ug/L	104	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	5.15	ug/L	103	(70-130)	20	0.77
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.600	ug/L	120	(50-150)		
MS_201601260315	1,2,3-Trichlorobenzene	ND	10	9.95	ug/L	100	(70-130)		
MS_201601260328	1,2,3-Trichlorobenzene	ND	10	9.95	ug/L	100	(70-130)		
MSD_201601260315	1,2,3-Trichlorobenzene	ND	10	10.2	ug/L	102	(70-130)	20	2.5
MSD_201601260328	1,2,3-Trichlorobenzene	ND	10	9.85	ug/L	99	(70-130)	20	1.0
LCS1	1,2,3-Trichloropropane		5	4.77	ug/L	95	(70-130)		
LCS2	1,2,3-Trichloropropane		5	4.88	ug/L	98	(70-130)	20	2.3
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.540	ug/L	108	(50-150)		
MS_201601260315	1,2,3-Trichloropropane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	1,2,3-Trichloropropane	ND	10	10.3	ug/L	103	(70-130)		
MSD_201601260315	1,2,3-Trichloropropane	ND	10	10.3	ug/L	103	(70-130)	20	0.97
MSD_201601260328	1,2,3-Trichloropropane	ND	10	10.1	ug/L	101	(70-130)	20	2.0
LCS1	1,2,4-Trichlorobenzene		5	4.94	ug/L	99	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	5.02	ug/L	100	(70-130)	20	1.6
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.560	ug/L	112	(50-150)		
MS_201601260315	1,2,4-Trichlorobenzene	ND	10	9.97	ug/L	100	(70-130)		
MS_201601260328	1,2,4-Trichlorobenzene	ND	10	9.80	ug/L	98	(70-130)		
MSD_201601260315	1,2,4-Trichlorobenzene	ND	10	10.2	ug/L	102	(70-130)	20	3.3
MSD_201601260328	1,2,4-Trichlorobenzene	ND	10	10.1	ug/L	101	(70-130)	20	3.0
LCS1	1,2,4-Trimethylbenzene		5	4.72	ug/L	94	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	5.05	ug/L	101	(70-130)	20	6.8
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260315	1,2,4-Trimethylbenzene	ND	10	10.8	ug/L	108	(70-130)		

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Laboratory QC
Report: 576312

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201601260328	1,2,4-Trimethylbenzene	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260315	1,2,4-Trimethylbenzene	ND	10	10.7	ug/L	107	(70-130)	20	0.93
MSD_201601260328	1,2,4-Trimethylbenzene	ND	10	10.5	ug/L	105	(70-130)	20	2.8
LCS1	1,2-Dichloroethane		5	4.82	ug/L	96	(70-130)		
LCS2	1,2-Dichloroethane		5	4.92	ug/L	98	(70-130)	20	2.0
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
MS_201601260315	1,2-Dichloroethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	1,2-Dichloroethane	ND	10	9.90	ug/L	99	(70-130)		
MSD_201601260315	1,2-Dichloroethane	ND	10	10.3	ug/L	103	(70-130)	20	0.97
MSD_201601260328	1,2-Dichloroethane	ND	10	10.0	ug/L	100	(70-130)	20	1.0
LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			97.6	%	98	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201601260315	1,2-Dichloroethane-d4 (S)			97.2	%	97	(70-130)		
MS_201601260328	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MSD_201601260315	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
MSD_201601260328	1,2-Dichloroethane-d4 (S)			97.4	%	97	(70-130)		
LCS1	1,2-Dichloropropane		5	4.72	ug/L	94	(70-130)		
LCS2	1,2-Dichloropropane		5	4.82	ug/L	96	(70-130)	20	2.1
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	1,2-Dichloropropane	ND	10	10.5	ug/L	105	(70-130)		
MS_201601260328	1,2-Dichloropropane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260315	1,2-Dichloropropane	ND	10	10.5	ug/L	105	(70-130)	20	0.0
MSD_201601260328	1,2-Dichloropropane	ND	10	10.0	ug/L	100	(70-130)	20	2.0
LCS1	1,3,5-Trimethylbenzene		5	4.87	ug/L	97	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	5.43	ug/L	109	(70-130)	20	11
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.440	ug/L	88	(50-150)		
MS_201601260315	1,3,5-Trimethylbenzene	ND	10	12.4	ug/L	124	(70-130)		
MS_201601260328	1,3,5-Trimethylbenzene	ND	10	11.8	ug/L	118	(70-130)		
MSD_201601260315	1,3,5-Trimethylbenzene	ND	10	12.3	ug/L	123	(70-130)	20	0.81
MSD_201601260328	1,3,5-Trimethylbenzene	ND	10	11.6	ug/L	116	(70-130)	20	1.7
LCS1	1,3-Dichloropropane		5	4.62	ug/L	92	(70-130)		
LCS2	1,3-Dichloropropane		5	4.74	ug/L	95	(70-130)	20	2.6

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.470	ug/L	94	(50-150)		
MS_201601260315	1,3-Dichloropropane	ND	10	10.2	ug/L	102	(70-130)		
MS_201601260328	1,3-Dichloropropane	ND	10	9.74	ug/L	97	(70-130)		
MSD_201601260315	1,3-Dichloropropane	ND	10	10.2	ug/L	102	(70-130)	20	0.98
MSD_201601260328	1,3-Dichloropropane	ND	10	9.97	ug/L	100	(70-130)	20	2.3
LCS1	2,2-Dichloropropane		5	4.36	ug/L	87	(70-130)		
LCS2	2,2-Dichloropropane		5	4.87	ug/L	97	(70-130)	20	11
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.560	ug/L	112	(50-150)		
MS_201601260315	2,2-Dichloropropane	ND	10	11.4	ug/L	114	(70-130)		
MS_201601260328	2,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)		
MSD_201601260315	2,2-Dichloropropane	ND	10	11.9	ug/L	119	(70-130)	20	4.3
MSD_201601260328	2,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)	20	0.0
LCS1	2-Butanone (MEK)		50	48.5	ug/L	97	(70-130)		
LCS2	2-Butanone (MEK)		50	48.2	ug/L	96	(70-130)	20	0.62
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	5.19	ug/L	104	(50-150)		
MS_201601260315	2-Butanone (MEK)	ND	100	107	ug/L	107	(70-130)		
MS_201601260328	2-Butanone (MEK)	ND	100	102	ug/L	102	(70-130)		
MSD_201601260315	2-Butanone (MEK)	ND	100	102	ug/L	101	(70-130)	20	4.8
MSD_201601260328	2-Butanone (MEK)	ND	100	104	ug/L	104	(70-130)	20	1.9
LCS1	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			99.8	%	100	(70-130)		
MBLK	4-Bromofluorobenzene (S)			99.2	%	99	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			97.8	%	98	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			95.6	%	96	(70-130)		
MS_201601260315	4-Bromofluorobenzene (S)			98.2	%	98	(70-130)		
MS_201601260328	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MSD_201601260315	4-Bromofluorobenzene (S)			94.0	%	94	(70-130)		
MSD_201601260328	4-Bromofluorobenzene (S)			96.0	%	96	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	48.9	ug/L	98	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	47.5	ug/L	95	(70-130)	20	2.9
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	4.29	ug/L	86	(50-150)		
MS_201601260315	4-Methyl-2-Pentanone (MIBK)	ND	100	114	ug/L	114	(70-130)		
MS_201601260328	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	107	(70-130)		
MSD_201601260315	4-Methyl-2-Pentanone (MIBK)	ND	100	109	ug/L	109	(70-130)	20	4.5

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201601260328	4-Methyl-2-Pentanone (MIBK)	ND	100	110	ug/L	110	(70-130)	20	2.8
LCS1	Benzene		5	4.69	ug/L	94	(70-130)		
LCS2	Benzene		5	4.79	ug/L	96	(70-130)	20	2.1
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.480	ug/L	96	(50-150)		
MS_201601260315	Benzene	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260328	Benzene	ND	10	10.0	ug/L	100	(70-130)		
MSD_201601260315	Benzene	ND	10	10.5	ug/L	105	(70-130)	20	0.95
MSD_201601260328	Benzene	ND	10	10.1	ug/L	101	(70-130)	20	1
LCS1	Bromobenzene		5	4.60	ug/L	92	(70-130)		
LCS2	Bromobenzene		5	5.01	ug/L	100	(70-130)	20	8.5
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.490	ug/L	98	(50-150)		
MS_201601260315	Bromobenzene	ND	10	10.5	ug/L	105	(70-130)		
MS_201601260328	Bromobenzene	ND	10	10.1	ug/L	101	(70-130)		
MSD_201601260315	Bromobenzene	ND	10	10.2	ug/L	102	(70-130)	20	2.9
MSD_201601260328	Bromobenzene	ND	10	10.0	ug/L	101	(70-130)	20	0.0
LCS1	Bromochloromethane		5	4.80	ug/L	96	(70-130)		
LCS2	Bromochloromethane		5	5.01	ug/L	100	(70-130)	20	4.3
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.520	ug/L	104	(50-150)		
MS_201601260315	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260328	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
LCS1	Bromodichloromethane		5	4.74	ug/L	95	(70-130)		
LCS2	Bromodichloromethane		5	4.88	ug/L	98	(70-130)	20	2.9
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	Bromodichloromethane	ND	10	10.2	ug/L	101	(70-130)		
MS_201601260328	Bromodichloromethane	ND	10	9.64	ug/L	96	(70-130)		
MSD_201601260315	Bromodichloromethane	ND	10	10.2	ug/L	102	(70-130)	20	0.0
MSD_201601260328	Bromodichloromethane	ND	10	10.1	ug/L	101	(70-130)	20	4.7
LCS1	Bromoethane		5	4.87	ug/L	97	(70-130)		
LCS2	Bromoethane		5	5.32	ug/L	106	(70-130)	20	8.8
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.490	ug/L	98	(50-150)		
MS_201601260315	Bromoethane	ND	10	10.3	ug/L	103	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201601260328	Bromoethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	Bromoethane	ND	10	10.4	ug/L	104	(70-130)	20	0.97
MSD_201601260328	Bromoethane	ND	10	10.3	ug/L	103	(70-130)	20	0.97
LCS1	Bromoform		5	4.33	ug/L	87	(70-130)		
LCS2	Bromoform		5	4.82	ug/L	96	(70-130)	20	11
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	Bromoform	ND	10	10.5	ug/L	105	(70-130)		
MS_201601260328	Bromoform	ND	10	10.6	ug/L	106	(70-130)		
MSD_201601260315	Bromoform	ND	10	10.4	ug/L	104	(70-130)	20	0.96
MSD_201601260328	Bromoform	ND	10	10.8	ug/L	108	(70-130)	20	1.9
LCS1	Bromomethane (Methyl Bromide)		5	5.07	ug/L	101	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	5.40	ug/L	108	(70-130)	20	6.3
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.550	ug/L	110	(50-150)		
MS_201601260315	Bromomethane (Methyl Bromide)	ND	10	11.9	ug/L	119	(70-130)		
MS_201601260328	Bromomethane (Methyl Bromide)	ND	10	12.6	ug/L	126	(70-130)		
MSD_201601260315	Bromomethane (Methyl Bromide)	ND	10	12.0	ug/L	120	(70-130)	20	0.84
MSD_201601260328	Bromomethane (Methyl Bromide)	ND	10	12.3	ug/L	123	(70-130)	20	2.4
LCS1	Carbon disulfide		5	4.31	ug/L	86	(70-130)		
LCS2	Carbon disulfide		5	4.87	ug/L	97	(70-130)	20	12
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.520	ug/L	104	(50-150)		
MS_201601260315	Carbon disulfide	ND	10	10.8	ug/L	108	(70-130)		
MS_201601260328	Carbon disulfide	ND	10	10.6	ug/L	107	(70-130)		
MSD_201601260315	Carbon disulfide	ND	10	11.0	ug/L	110	(70-130)	20	1.8
MSD_201601260328	Carbon disulfide	ND	10	10.8	ug/L	108	(70-130)	20	0.93
LCS1	Carbon Tetrachloride		5	4.21	ug/L	84	(70-130)		
LCS2	Carbon Tetrachloride		5	4.83	ug/L	97	(70-130)	20	14
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.420	ug/L	84	(50-150)		
MS_201601260315	Carbon Tetrachloride	ND	10	11.0	ug/L	110	(70-130)		
MS_201601260328	Carbon Tetrachloride	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	Carbon Tetrachloride	ND	10	10.9	ug/L	109	(70-130)	20	0.91
MSD_201601260328	Carbon Tetrachloride	ND	10	10.4	ug/L	104	(70-130)	20	0.0
LCS1	Chlorobenzene		5	4.38	ug/L	88	(70-130)		
LCS2	Chlorobenzene		5	4.51	ug/L	90	(70-130)	20	2.9
MBLK	Chlorobenzene			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Chlorobenzene		0.5	0.440	ug/L	88	(50-150)		
MS_201601260315	Chlorobenzene	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	Chlorobenzene	ND	10	9.82	ug/L	98	(70-130)		
MSD_201601260315	Chlorobenzene	ND	10	10.2	ug/L	102	(70-130)	20	1.9
MSD_201601260328	Chlorobenzene	ND	10	9.96	ug/L	100	(70-130)	20	1.4
LCS1	Chlorodibromomethane		5	4.62	ug/L	92	(70-130)		
LCS2	Chlorodibromomethane		5	4.69	ug/L	94	(70-130)	20	1.5
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	Chlorodibromomethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260328	Chlorodibromomethane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260315	Chlorodibromomethane	ND	10	10.4	ug/L	105	(70-130)	20	0.95
MSD_201601260328	Chlorodibromomethane	ND	10	10.5	ug/L	105	(70-130)	20	2.9
LCS1	Chloroethane		5	4.72	ug/L	94	(70-130)		
LCS2	Chloroethane		5	4.88	ug/L	98	(70-130)	20	3.3
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.540	ug/L	108	(50-150)		
MS_201601260315	Chloroethane	ND	10	11.1	ug/L	110	(70-130)		
MS_201601260328	Chloroethane	ND	10	11.3	ug/L	113	(70-130)		
MSD_201601260315	Chloroethane	ND	10	11.3	ug/L	111	(70-130)	20	1.8
MSD_201601260328	Chloroethane	ND	10	10.8	ug/L	108	(70-130)	20	4.5
LCS1	Chloroform (Trichloromethane)		5	3.91	ug/L	78	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	3.96	ug/L	79	(70-130)	20	1.3
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	Chloroform (Trichloromethane)	ND	10	9.10	ug/L	87	(70-130)		
MS_201601260328	Chloroform (Trichloromethane)	ND	10	8.73	ug/L	85	(70-130)		
MSD_201601260315	Chloroform (Trichloromethane)	ND	10	12.8	ug/L	124	(70-130)	20	**34**
MSD_201601260328	Chloroform (Trichloromethane)	ND	10	9.98	ug/L	98	(70-130)	20	13
LCS1	Chloromethane(Methyl Chloride)		5	4.84	ug/L	97	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	5.18	ug/L	104	(70-130)	20	6.8
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.490	ug/L	98	(50-150)		
MS_201601260315	Chloromethane(Methyl Chloride)	ND	10	10.3	ug/L	103	(70-130)		
MS_201601260328	Chloromethane(Methyl Chloride)	ND	10	10.3	ug/L	103	(70-130)		
MSD_201601260315	Chloromethane(Methyl Chloride)	ND	10	10.6	ug/L	106	(70-130)	20	2.9
MSD_201601260328	Chloromethane(Methyl Chloride)	ND	10	10.6	ug/L	106	(70-130)	20	2.9
LCS1	cis-1,2-Dichloroethylene		5	4.81	ug/L	96	(70-130)		

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Laboratory QC
Report: 576312

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	cis-1,2-Dichloroethylene		5	5.12	ug/L	102	(70-130)	20	6.2
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.620	ug/L	124	(50-150)		
MS_201601260315	cis-1,2-Dichloroethylene	ND	10	11.0	ug/L	108	(70-130)		
MS_201601260328	cis-1,2-Dichloroethylene	ND	10	10.7	ug/L	106	(70-130)		
MSD_201601260315	cis-1,2-Dichloroethylene	ND	10	11.0	ug/L	108	(70-130)	20	0.0
MSD_201601260328	cis-1,2-Dichloroethylene	ND	10	10.6	ug/L	105	(70-130)	20	0.94
LCS1	cis-1,3-Dichloropropene		5	4.67	ug/L	93	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.86	ug/L	97	(70-130)	20	4.0
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.470	ug/L	94	(50-150)		
MS_201601260315	cis-1,3-Dichloropropene	ND	10	11.2	ug/L	112	(70-130)		
MS_201601260328	cis-1,3-Dichloropropene	ND	10	10.6	ug/L	106	(70-130)		
MSD_201601260315	cis-1,3-Dichloropropene	ND	10	11.4	ug/L	114	(70-130)	20	1.8
MSD_201601260328	cis-1,3-Dichloropropene	ND	10	10.9	ug/L	109	(70-130)	20	2.8
LCS1	Dibromomethane		5	4.90	ug/L	98	(70-130)		
LCS2	Dibromomethane		5	4.97	ug/L	99	(70-130)	20	1.4
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.510	ug/L	102	(50-150)		
MS_201601260315	Dibromomethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	Dibromomethane	ND	10	10.0	ug/L	100	(70-130)		
MSD_201601260315	Dibromomethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260328	Dibromomethane	ND	10	10.4	ug/L	104	(70-130)	20	3.9
LCS1	Dichlorodifluoromethane		5	4.36	ug/L	87	(70-130)		
LCS2	Dichlorodifluoromethane		5	5.26	ug/L	105	(70-130)	20	19
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.390	ug/L	78	(50-150)		
MS_201601260315	Dichlorodifluoromethane	ND	10	9.67	ug/L	97	(70-130)		
MS_201601260328	Dichlorodifluoromethane	ND	10	9.12	ug/L	91	(70-130)		
MSD_201601260315	Dichlorodifluoromethane	ND	10	10.1	ug/L	101	(70-130)	20	4.3
MSD_201601260328	Dichlorodifluoromethane	ND	10	9.10	ug/L	91	(70-130)	20	0.22
LCS1	Dichloromethane		5	4.91	ug/L	98	(70-130)		
LCS2	Dichloromethane		5	5.01	ug/L	100	(70-130)	20	2.0
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.680	ug/L	136	(50-150)		
MS_201601260315	Dichloromethane	ND	10	10.5	ug/L	105	(70-130)		
MS_201601260328	Dichloromethane	ND	10	10.6	ug/L	106	(70-130)		
MSD_201601260315	Dichloromethane	ND	10	10.4	ug/L	104	(70-130)	20	0.96

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201601260328	Dichloromethane	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	Di-isopropyl ether		5	4.81	ug/L	96	(70-130)		
LCS2	Di-isopropyl ether		5	4.95	ug/L	99	(70-130)	20	2.9
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.520	ug/L	104	(50-150)		
MS_201601260315	Di-isopropyl ether	ND	10	10.8	ug/L	108	(70-130)		
MS_201601260328	Di-isopropyl ether	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260315	Di-isopropyl ether	ND	10	10.9	ug/L	109	(70-130)	20	0.92
MSD_201601260328	Di-isopropyl ether	ND	10	10.8	ug/L	108	(70-130)	20	0.0
LCS1	Ethyl benzene		5	4.37	ug/L	87	(70-130)		
LCS2	Ethyl benzene		5	4.48	ug/L	90	(70-130)	20	2.5
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.410	ug/L	82	(50-150)		
MS_201601260315	Ethyl benzene	ND	10	10.7	ug/L	107	(70-130)		
MS_201601260328	Ethyl benzene	ND	10	9.99	ug/L	100	(70-130)		
MSD_201601260315	Ethyl benzene	ND	10	10.7	ug/L	107	(70-130)	20	0.0
MSD_201601260328	Ethyl benzene	ND	10	10.3	ug/L	103	(70-130)	20	3.1
LCS1	Hexachlorobutadiene		5	4.29	ug/L	86	(70-130)		
LCS2	Hexachlorobutadiene		5	4.73	ug/L	95	(70-130)	20	9.8
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.540	ug/L	108	(50-150)		
MS_201601260315	Hexachlorobutadiene	ND	10	9.87	ug/L	99	(70-130)		
MS_201601260328	Hexachlorobutadiene	ND	10	9.53	ug/L	95	(70-130)		
MSD_201601260315	Hexachlorobutadiene	ND	10	10.2	ug/L	102	(70-130)	20	3.3
MSD_201601260328	Hexachlorobutadiene	ND	10	9.66	ug/L	97	(70-130)	20	1.4
LCS1	Isopropylbenzene		5	4.12	ug/L	82	(70-130)		
LCS2	Isopropylbenzene		5	4.60	ug/L	92	(70-130)	20	11
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.390	ug/L	78	(50-150)		
MS_201601260315	Isopropylbenzene	ND	10	10.9	ug/L	109	(70-130)		
MS_201601260328	Isopropylbenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	Isopropylbenzene	ND	10	10.6	ug/L	106	(70-130)	20	2.8
MSD_201601260328	Isopropylbenzene	ND	10	10.4	ug/L	104	(70-130)	20	0.0
LCS1	m,p-Xylenes		10	8.92	ug/L	89	(70-130)		
LCS2	m,p-Xylenes		10	9.26	ug/L	93	(70-130)	20	3.7
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.790	ug/L	79	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.380	ug/L	76	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201601260315	m,p-Xylenes	ND	20	22.6	ug/L	113	(70-130)		
MS_201601260328	m,p-Xylenes	ND	20	21.1	ug/L	105	(70-130)		
MSD_201601260315	m,p-Xylenes	ND	20	22.4	ug/L	112	(70-130)	20	1.3
MSD_201601260328	m,p-Xylenes	ND	20	21.2	ug/L	106	(70-130)	20	0.47
LCS1	m-Dichlorobenzene (1,3-DCB)		5	4.50	ug/L	90	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	4.75	ug/L	95	(70-130)	20	5.4
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.480	ug/L	96	(50-150)		
MS_201601260315	m-Dichlorobenzene (1,3-DCB)	ND	10	10.7	ug/L	107	(70-130)		
MS_201601260328	m-Dichlorobenzene (1,3-DCB)	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260315	m-Dichlorobenzene (1,3-DCB)	ND	10	10.1	ug/L	101	(70-130)	20	5.8
MSD_201601260328	m-Dichlorobenzene (1,3-DCB)	ND	10	10.1	ug/L	101	(70-130)	20	0.99
LCS1	Methyl Tert-butyl ether (MTBE)		5	4.93	ug/L	99	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	5.06	ug/L	101	(70-130)	20	2.6
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.520	ug/L	104	(50-150)		
MS_201601260315	Methyl Tert-butyl ether (MTBE)	ND	10	10.6	ug/L	104	(70-130)		
MS_201601260328	Methyl Tert-butyl ether (MTBE)	ND	10	10.4	ug/L	105	(70-130)		
MSD_201601260315	Methyl Tert-butyl ether (MTBE)	ND	10	10.7	ug/L	105	(70-130)	20	0.94
MSD_201601260328	Methyl Tert-butyl ether (MTBE)	ND	10	10.6	ug/L	106	(70-130)	20	0.95
LCS1	Naphthalene		5	5.04	ug/L	101	(70-130)		
LCS2	Naphthalene		5	5.16	ug/L	103	(70-130)	20	2.4
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.530	ug/L	106	(50-150)		
MS_201601260315	Naphthalene	ND	10	10.2	ug/L	102	(70-130)		
MS_201601260328	Naphthalene	ND	10	10.1	ug/L	101	(70-130)		
MSD_201601260315	Naphthalene	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201601260328	Naphthalene	ND	10	10.2	ug/L	102	(70-130)	20	0.99
LCS1	n-Butylbenzene		5	4.46	ug/L	89	(70-130)		
LCS2	n-Butylbenzene		5	4.94	ug/L	99	(70-130)	20	10
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	n-Butylbenzene	ND	10	10.5	ug/L	105	(70-130)		
MS_201601260328	n-Butylbenzene	ND	10	9.63	ug/L	96	(70-130)		
MSD_201601260315	n-Butylbenzene	ND	10	10.6	ug/L	106	(70-130)	20	0.95
MSD_201601260328	n-Butylbenzene	ND	10	9.90	ug/L	99	(70-130)	20	2.8
LCS1	n-Propylbenzene		5	4.18	ug/L	84	(70-130)		
LCS2	n-Propylbenzene		5	4.67	ug/L	93	(70-130)	20	11

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.370	ug/L	74	(50-150)		
MS_201601260315	n-Propylbenzene	ND	10	11.6	ug/L	116	(70-130)		
MS_201601260328	n-Propylbenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	n-Propylbenzene	ND	10	11.0	ug/L	110	(70-130)	20	5.3
MSD_201601260328	n-Propylbenzene	ND	10	10.6	ug/L	106	(70-130)	20	1.9
LCS1	o-Chlorotoluene		5	4.52	ug/L	90	(70-130)		
LCS2	o-Chlorotoluene		5	4.88	ug/L	98	(70-130)	20	7.7
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.480	ug/L	96	(50-150)		
MS_201601260315	o-Chlorotoluene	ND	10	10.7	ug/L	107	(70-130)		
MS_201601260328	o-Chlorotoluene	ND	10	10.5	ug/L	105	(70-130)		
MSD_201601260315	o-Chlorotoluene	ND	10	10.4	ug/L	104	(70-130)	20	2.8
MSD_201601260328	o-Chlorotoluene	ND	10	10.4	ug/L	103	(70-130)	20	0.96
LCS1	o-Dichlorobenzene (1,2-DCB)		5	4.73	ug/L	95	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.80	ug/L	96	(70-130)	20	1.5
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	o-Dichlorobenzene (1,2-DCB)	ND	10	9.95	ug/L	100	(70-130)		
MS_201601260328	o-Dichlorobenzene (1,2-DCB)	ND	10	9.37	ug/L	94	(70-130)		
MSD_201601260315	o-Dichlorobenzene (1,2-DCB)	ND	10	9.94	ug/L	99	(70-130)	20	0.10
MSD_201601260328	o-Dichlorobenzene (1,2-DCB)	ND	10	9.60	ug/L	96	(70-130)	20	2.4
LCS1	o-Xylene		5	4.66	ug/L	93	(70-130)		
LCS2	o-Xylene		5	4.79	ug/L	96	(70-130)	20	2.8
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.420	ug/L	84	(50-150)		
MS_201601260315	o-Xylene	ND	10	11.2	ug/L	112	(70-130)		
MS_201601260328	o-Xylene	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260315	o-Xylene	ND	10	11.2	ug/L	112	(70-130)	20	0.0
MSD_201601260328	o-Xylene	ND	10	10.6	ug/L	106	(70-130)	20	1.9
LCS1	p-Chlorotoluene		5	4.58	ug/L	92	(70-130)		
LCS2	p-Chlorotoluene		5	4.82	ug/L	96	(70-130)	20	5.1
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260315	p-Chlorotoluene	ND	10	11.3	ug/L	113	(70-130)		
MS_201601260328	p-Chlorotoluene	ND	10	10.9	ug/L	109	(70-130)		
MSD_201601260315	p-Chlorotoluene	ND	10	10.9	ug/L	109	(70-130)	20	3.6
MSD_201601260328	p-Chlorotoluene	ND	10	10.5	ug/L	105	(70-130)	20	3.7

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	p-Dichlorobenzene (1,4-DCB)		5	4.38	ug/L	88	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	4.64	ug/L	93	(70-130)	20	5.8
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	p-Dichlorobenzene (1,4-DCB)	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	p-Dichlorobenzene (1,4-DCB)	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260315	p-Dichlorobenzene (1,4-DCB)	ND	10	10.2	ug/L	102	(70-130)	20	0.97
MSD_201601260328	p-Dichlorobenzene (1,4-DCB)	ND	10	10.0	ug/L	101	(70-130)	20	0.99
LCS1	p-Isopropyltoluene		5	4.60	ug/L	92	(70-130)		
LCS2	p-Isopropyltoluene		5	4.99	ug/L	100	(70-130)	20	8.1
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.410	ug/L	82	(50-150)		
MS_201601260315	p-Isopropyltoluene	ND	10	11.9	ug/L	119	(70-130)		
MS_201601260328	p-Isopropyltoluene	ND	10	11.4	ug/L	114	(70-130)		
MSD_201601260315	p-Isopropyltoluene	ND	10	11.6	ug/L	116	(70-130)	20	2.5
MSD_201601260328	p-Isopropyltoluene	ND	10	11.2	ug/L	112	(70-130)	20	1.8
LCS1	sec-Butylbenzene		5	4.51	ug/L	90	(70-130)		
LCS2	sec-Butylbenzene		5	5.05	ug/L	101	(70-130)	20	11
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.400	ug/L	80	(50-150)		
MS_201601260315	sec-Butylbenzene	ND	10	11.7	ug/L	117	(70-130)		
MS_201601260328	sec-Butylbenzene	ND	10	11.6	ug/L	116	(70-130)		
MSD_201601260315	sec-Butylbenzene	ND	10	11.6	ug/L	116	(70-130)	20	0.86
MSD_201601260328	sec-Butylbenzene	ND	10	11.1	ug/L	111	(70-130)	20	4.4
LCS1	Styrene		5	4.75	ug/L	95	(70-130)		
LCS2	Styrene		5	4.75	ug/L	95	(70-130)	20	0.0
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.400	ug/L	80	(50-150)		
MS_201601260315	Styrene	ND	10	9.33	ug/L	93	(70-130)		
MS_201601260328	Styrene	ND	10	7.28	ug/L	73	(70-130)		
MSD_201601260315	Styrene	ND	10	9.58	ug/L	96	(70-130)	20	2.6
MSD_201601260328	Styrene	ND	10	7.88	ug/L	79	(70-130)	20	7.9
LCS1	tert-amyl Methyl Ether		5	4.67	ug/L	93	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.81	ug/L	96	(70-130)	20	3.0
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	tert-amyl Methyl Ether	ND	10	10.3	ug/L	103	(70-130)		
MS_201601260328	tert-amyl Methyl Ether	ND	10	10.1	ug/L	101	(70-130)		

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Laboratory QC
Report: 576312

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201601260315	tert-amyl Methyl Ether	ND	10	10.6	ug/L	106	(70-130)	20	2.9
MSD_201601260328	tert-amyl Methyl Ether	ND	10	10.2	ug/L	102	(70-130)	20	0.99
LCS1	tert-Butyl Ethyl Ether		5	4.93	ug/L	99	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	5.11	ug/L	102	(70-130)	20	3.6
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.520	ug/L	104	(50-150)		
MS_201601260315	tert-Butyl Ethyl Ether	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260328	tert-Butyl Ethyl Ether	ND	10	10.5	ug/L	105	(70-130)		
MSD_201601260315	tert-Butyl Ethyl Ether	ND	10	10.8	ug/L	108	(70-130)	20	1.9
MSD_201601260328	tert-Butyl Ethyl Ether	ND	10	10.8	ug/L	108	(70-130)	20	2.8
LCS1	tert-Butylbenzene		5	4.37	ug/L	87	(70-130)		
LCS2	tert-Butylbenzene		5	5.01	ug/L	100	(70-130)	20	14
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	tert-Butylbenzene	ND	10	11.9	ug/L	119	(70-130)		
MS_201601260328	tert-Butylbenzene	ND	10	11.4	ug/L	114	(70-130)		
MSD_201601260315	tert-Butylbenzene	ND	10	11.6	ug/L	116	(70-130)	20	2.5
MSD_201601260328	tert-Butylbenzene	ND	10	11.3	ug/L	113	(70-130)	20	0.88
LCS1	Tetrachloroethylene (PCE)		5	4.23	ug/L	85	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.59	ug/L	92	(70-130)	20	8.2
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	Tetrachloroethylene (PCE)	ND	10	10.8	ug/L	108	(70-130)		
MS_201601260328	Tetrachloroethylene (PCE)	ND	10	9.65	ug/L	97	(70-130)		
MSD_201601260315	Tetrachloroethylene (PCE)	ND	10	10.5	ug/L	105	(70-130)	20	2.8
MSD_201601260328	Tetrachloroethylene (PCE)	ND	10	9.75	ug/L	98	(70-130)	20	1.0
LCS1	Toluene		5	4.47	ug/L	89	(70-130)		
LCS2	Toluene		5	4.71	ug/L	94	(70-130)	20	5.2
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260315	Toluene	ND	10	10.7	ug/L	107	(70-130)		
MS_201601260328	Toluene	ND	10	9.79	ug/L	98	(70-130)		
MSD_201601260315	Toluene	ND	10	10.6	ug/L	106	(70-130)	20	0.94
MSD_201601260328	Toluene	ND	10	10.1	ug/L	101	(70-130)	20	3.1
LCS1	Toluene-d8 (S)			99.8	%	100	(70-130)		
LCS2	Toluene-d8 (S)			98.2	%	98	(70-130)		
MBLK	Toluene-d8 (S)			90.6	%	91	(70-130)		
MRL_CHK	Toluene-d8 (S)			92.6	%	93	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRLLW	Toluene-d8 (S)			89.6	%	90	(70-130)		
MS_201601260315	Toluene-d8 (S)			101	%	101	(70-130)		
MS_201601260328	Toluene-d8 (S)			100	%	100	(70-130)		
MSD_201601260315	Toluene-d8 (S)			99.2	%	99	(70-130)		
MSD_201601260328	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	4.76	ug/L	95	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	4.92	ug/L	98	(70-130)	20	3.3
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.520	ug/L	104	(50-150)		
MS_201601260315	trans-1,2-Dichloroethylene	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	trans-1,2-Dichloroethylene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	trans-1,2-Dichloroethylene	ND	10	10.7	ug/L	107	(70-130)	20	2.8
MSD_201601260328	trans-1,2-Dichloroethylene	ND	10	10.4	ug/L	104	(70-130)	20	0.0
LCS1	trans-1,3-Dichloropropene		5	4.55	ug/L	91	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	4.60	ug/L	92	(70-130)	20	1.1
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260315	trans-1,3-Dichloropropene	ND	10	11.2	ug/L	112	(70-130)		
MS_201601260328	trans-1,3-Dichloropropene	ND	10	10.6	ug/L	106	(70-130)		
MSD_201601260315	trans-1,3-Dichloropropene	ND	10	10.9	ug/L	109	(70-130)	20	2.7
MSD_201601260328	trans-1,3-Dichloropropene	ND	10	11.1	ug/L	111	(70-130)	20	4.6
LCS1	Trichloroethylene (TCE)		5	4.63	ug/L	93	(70-130)		
LCS2	Trichloroethylene (TCE)		5	4.92	ug/L	98	(70-130)	20	6.1
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	Trichloroethylene (TCE)	2.9	10	13.9	ug/L	109	(70-130)		
MS_201601260328	Trichloroethylene (TCE)	0.90	10	11.2	ug/L	102	(70-130)		
MSD_201601260315	Trichloroethylene (TCE)	2.9	10	13.5	ug/L	105	(70-130)	20	2.9
MSD_201601260328	Trichloroethylene (TCE)	0.90	10	11.2	ug/L	103	(70-130)	20	0.0
LCS1	Trichlorofluoromethane		5	4.01	ug/L	80	(70-130)		
LCS2	Trichlorofluoromethane		5	4.85	ug/L	97	(70-130)	20	19
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.470	ug/L	94	(50-150)		
MS_201601260315	Trichlorofluoromethane	ND	10	11.4	ug/L	114	(70-130)		
MS_201601260328	Trichlorofluoromethane	ND	10	11.4	ug/L	114	(70-130)		
MSD_201601260315	Trichlorofluoromethane	ND	10	11.7	ug/L	117	(70-130)	20	2.6
MSD_201601260328	Trichlorofluoromethane	ND	10	11.5	ug/L	115	(70-130)	20	0.87
LCS1	Trichlorotrifluoroethane(Freon		5	3.98	ug/L	80	(70-130)		

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Trichlorotrifluoroethane(Freon		5	4.70	ug/L	94	(70-130)	20	17
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	Trichlorotrifluoroethane(Freon	ND	10	10.9	ug/L	109	(70-130)		
MS_201601260328	Trichlorotrifluoroethane(Freon	ND	10	10.4	ug/L	103	(70-130)		
MSD_201601260315	Trichlorotrifluoroethane(Freon	ND	10	11.0	ug/L	110	(70-130)	20	0.91
MSD_201601260328	Trichlorotrifluoroethane(Freon	ND	10	10.8	ug/L	108	(70-130)	20	3.8
LCS1	Vinyl chloride (VC)		5	4.74	ug/L	95	(70-130)		
LCS2	Vinyl chloride (VC)		5	5.43	ug/L	109	(70-130)	20	14
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.490	ug/L	98	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.240	ug/L	96	(50-150)		
MS_201601260315	Vinyl chloride (VC)	ND	10	11.0	ug/L	110	(70-130)		
MS_201601260328	Vinyl chloride (VC)	ND	10	11.0	ug/L	110	(70-130)		
MSD_201601260315	Vinyl chloride (VC)	ND	10	11.2	ug/L	112	(70-130)	20	1.8
MSD_201601260328	Vinyl chloride (VC)	ND	10	11.2	ug/L	112	(70-130)	20	1.8
QC Ref# 892807 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/22/2016**			
LCS1	1,1,1,2-Tetrachloroethane		5	4.80	ug/L	96	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	5.08	ug/L	102	(70-130)	20	5.7
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,1,1-Trichloroethane		5	4.24	ug/L	85	(70-130)		
LCS2	1,1,1-Trichloroethane		5	4.40	ug/L	88	(70-130)	20	3.7
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5	4.62	ug/L	92	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5	4.67	ug/L	93	(70-130)	20	1.1
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	4.15	ug/L	83	(70-130)		
LCS2	1,1,2-Trichloroethane		5	4.38	ug/L	88	(70-130)	20	5.4
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,1-Dichloroethane		5	4.42	ug/L	88	(70-130)		
LCS2	1,1-Dichloroethane		5	4.74	ug/L	95	(70-130)	20	7.0
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,1-Dichloroethylene		5	4.49	ug/L	90	(70-130)		

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	1,1-Dichloroethylene		5	4.59	ug/L	92	(70-130)	20	2.2
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	3.89	ug/L	78	(70-130)		
LCS2	1,1-Dichloropropene		5	3.94	ug/L	79	(70-130)	20	1.3
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5	4.37	ug/L	87	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	4.56	ug/L	91	(70-130)	20	4.3
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.560	ug/L	112	(50-150)		
LCS1	1,2,3-Trichloropropane		5	4.49	ug/L	90	(70-130)		
LCS2	1,2,3-Trichloropropane		5	4.58	ug/L	92	(70-130)	20	2.0
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5	4.28	ug/L	86	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	4.41	ug/L	88	(70-130)	20	3.0
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5	4.15	ug/L	83	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	4.44	ug/L	89	(70-130)	20	6.8
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	4.31	ug/L	86	(70-130)		
LCS2	1,2-Dichloroethane		5	4.42	ug/L	88	(70-130)	20	2.5
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			97.4	%	97	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			107	%	107	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
LCS1	1,2-Dichloropropane		5	4.10	ug/L	82	(70-130)		
LCS2	1,2-Dichloropropane		5	4.37	ug/L	87	(70-130)	20	6.4
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.460	ug/L	92	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5	4.10	ug/L	82	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	4.37	ug/L	87	(70-130)	20	6.4

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.350	ug/L	70	(50-150)		
LCS1	1,3-Dichloropropane		5	4.13	ug/L	83	(70-130)		
LCS2	1,3-Dichloropropane		5	4.32	ug/L	86	(70-130)	20	4.5
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.440	ug/L	88	(50-150)		
LCS1	2,2-Dichloropropane		5	5.61	ug/L	112	(70-130)		
LCS2	2,2-Dichloropropane		5	5.61	ug/L	112	(70-130)	20	0.0
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.730	ug/L	146	(50-150)		
LCS1	2-Butanone (MEK)		50	40.3	ug/L	81	(70-130)		
LCS2	2-Butanone (MEK)		50	42.3	ug/L	85	(70-130)	20	4.8
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	3.74	ug/L	75	(50-150)		
LCS1	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
LCS2	4-Bromofluorobenzene (S)			99.4	%	99	(70-130)		
MBLK	4-Bromofluorobenzene (S)			99.6	%	100	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			104	%	104	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	37.4	ug/L	75	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	39.0	ug/L	78	(70-130)	20	4.2
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	3.50	ug/L	70	(50-150)		
LCS1	Benzene		5	4.28	ug/L	86	(70-130)		
LCS2	Benzene		5	4.52	ug/L	90	(70-130)	20	5.5
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Bromobenzene		5	4.85	ug/L	97	(70-130)		
LCS2	Bromobenzene		5	4.87	ug/L	97	(70-130)	20	0.41
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Bromochloromethane		5	4.58	ug/L	92	(70-130)		
LCS2	Bromochloromethane		5	4.84	ug/L	97	(70-130)	20	5.5
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	Bromodichloromethane		5	4.38	ug/L	88	(70-130)		
LCS2	Bromodichloromethane		5	4.61	ug/L	92	(70-130)	20	5.1
MBLK	Bromodichloromethane			<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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Laboratory QC
Report: 576312

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Bromodichloromethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	Bromoethane		5	4.80	ug/L	96	(70-130)		
LCS2	Bromoethane		5	5.06	ug/L	101	(70-130)	20	5.3
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Bromoform		5	5.88	ug/L	118	(70-130)		
LCS2	Bromoform		5	5.68	ug/L	114	(70-130)	20	3.5
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.590	ug/L	118	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5	4.97	ug/L	99	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	5.34	ug/L	107	(70-130)	20	7.2
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.620	ug/L	124	(50-150)		
LCS1	Carbon disulfide		5	4.04	ug/L	81	(70-130)		
LCS2	Carbon disulfide		5	4.08	ug/L	82	(70-130)	20	0.99
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.440	ug/L	88	(50-150)		
LCS1	Carbon Tetrachloride		5	4.74	ug/L	95	(70-130)		
LCS2	Carbon Tetrachloride		5	4.95	ug/L	99	(70-130)	20	4.3
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.510	ug/L	102	(50-150)		
LCS1	Chlorobenzene		5	4.16	ug/L	83	(70-130)		
LCS2	Chlorobenzene		5	4.38	ug/L	88	(70-130)	20	5.2
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Chlorodibromomethane		5	4.73	ug/L	95	(70-130)		
LCS2	Chlorodibromomethane		5	4.93	ug/L	99	(70-130)	20	4.1
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.420	ug/L	84	(50-150)		
LCS1	Chloroethane		5	4.65	ug/L	93	(70-130)		
LCS2	Chloroethane		5	4.68	ug/L	94	(70-130)	20	0.64
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.390	ug/L	78	(50-150)		
LCS1	Chloroform (Trichloromethane)		5	4.32	ug/L	86	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	4.62	ug/L	92	(70-130)	20	6.7
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.540	ug/L	108	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5	4.49	ug/L	90	(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%
LCS2	Chloromethane(Methyl Chloride)		5	4.78	ug/L	96	(70-130)	20	6.3
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.540	ug/L	108	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5	4.51	ug/L	90	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	4.81	ug/L	96	(70-130)	20	6.4
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.470	ug/L	94	(50-150)		
LCS1	cis-1,3-Dichloropropene		5	4.50	ug/L	90	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.63	ug/L	93	(70-130)	20	2.9
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.410	ug/L	82	(50-150)		
LCS1	Dibromomethane		5	4.11	ug/L	82	(70-130)		
LCS2	Dibromomethane		5	4.36	ug/L	87	(70-130)	20	5.9
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.440	ug/L	88	(50-150)		
LCS1	Dichlorodifluoromethane		5	4.94	ug/L	99	(70-130)		
LCS2	Dichlorodifluoromethane		5	5.29	ug/L	106	(70-130)	20	6.8
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Dichloromethane		5	4.44	ug/L	89	(70-130)		
LCS2	Dichloromethane		5	4.79	ug/L	96	(70-130)	20	7.6
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.420	ug/L	84	(50-150)		
LCS1	Di-isopropyl ether		5	4.31	ug/L	86	(70-130)		
LCS2	Di-isopropyl ether		5	4.54	ug/L	91	(70-130)	20	5.2
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.490	ug/L	98	(50-150)		
LCS1	Ethyl benzene		5	4.03	ug/L	81	(70-130)		
LCS2	Ethyl benzene		5	4.26	ug/L	85	(70-130)	20	5.5
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.390	ug/L	78	(50-150)		
LCS1	Hexachlorobutadiene		5	4.74	ug/L	95	(70-130)		
LCS2	Hexachlorobutadiene		5	4.92	ug/L	98	(70-130)	20	3.7
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.650	ug/L	130	(50-150)		
LCS1	Isopropylbenzene		5	4.26	ug/L	85	(70-130)		
LCS2	Isopropylbenzene		5	4.31	ug/L	86	(70-130)	20	1.2
MBLK	Isopropylbenzene			<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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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Isopropylbenzene		0.5	0.420	ug/L	84	(50-150)		
LCS1	m,p-Xylenes		10	8.36	ug/L	84	(70-130)		
LCS2	m,p-Xylenes		10	9.18	ug/L	92	(70-130)	20	9.3
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.770	ug/L	77	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.380	ug/L	76	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5	4.88	ug/L	98	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	4.92	ug/L	98	(70-130)	20	0.82
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5	4.27	ug/L	85	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	4.43	ug/L	89	(70-130)	20	3.7
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Naphthalene		5	3.73	ug/L	75	(70-130)		
LCS2	Naphthalene		5	3.84	ug/L	77	(70-130)	20	2.9
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.430	ug/L	86	(50-150)		
LCS1	n-Butylbenzene		5	4.07	ug/L	81	(70-130)		
LCS2	n-Butylbenzene		5	4.24	ug/L	85	(70-130)	20	4.1
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.410	ug/L	82	(50-150)		
LCS1	n-Propylbenzene		5	4.31	ug/L	86	(70-130)		
LCS2	n-Propylbenzene		5	4.29	ug/L	86	(70-130)	20	0.47
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	o-Chlorotoluene		5	4.52	ug/L	90	(70-130)		
LCS2	o-Chlorotoluene		5	4.65	ug/L	93	(70-130)	20	2.8
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.480	ug/L	96	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5	4.34	ug/L	87	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.52	ug/L	90	(70-130)	20	4.1
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.510	ug/L	102	(50-150)		
LCS1	o-Xylene		5	3.96	ug/L	79	(70-130)		
LCS2	o-Xylene		5	4.23	ug/L	85	(70-130)	20	6.6
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.380	ug/L	76	(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	p-Chlorotoluene		5	4.59	ug/L	92	(70-130)		
LCS2	p-Chlorotoluene		5	4.65	ug/L	93	(70-130)	20	1.3
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.450	ug/L	90	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5	4.94	ug/L	99	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	4.91	ug/L	98	(70-130)	20	0.61
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	p-Isopropyltoluene		5	4.45	ug/L	89	(70-130)		
LCS2	p-Isopropyltoluene		5	4.51	ug/L	90	(70-130)	20	1.3
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.410	ug/L	82	(50-150)		
LCS1	sec-Butylbenzene		5	4.59	ug/L	92	(70-130)		
LCS2	sec-Butylbenzene		5	4.57	ug/L	91	(70-130)	20	0.44
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Styrene		5	3.51	ug/L	70	(70-130)		
LCS2	Styrene		5	4.04	ug/L	81	(70-130)	20	14
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.300	ug/L	60	(50-150)		
LCS1	tert-amyl Methyl Ether		5	4.07	ug/L	81	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.21	ug/L	84	(70-130)	20	3.4
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	4.17	ug/L	83	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	4.31	ug/L	86	(70-130)	20	3.3
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.490	ug/L	98	(50-150)		
LCS1	tert-Butylbenzene		5	4.35	ug/L	87	(70-130)		
LCS2	tert-Butylbenzene		5	4.30	ug/L	86	(70-130)	20	1.2
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.420	ug/L	84	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5	4.31	ug/L	86	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.39	ug/L	88	(70-130)	20	1.8
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Toluene		5	4.14	ug/L	83	(70-130)		
LCS2	Toluene		5	4.40	ug/L	88	(70-130)	20	6.1

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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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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			103	%	103	(70-130)		
MBLK	Toluene-d8 (S)			90.6	%	91	(70-130)		
MRL_CHK	Toluene-d8 (S)			94.0	%	94	(70-130)		
MRLLW	Toluene-d8 (S)			93.0	%	93	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	4.51	ug/L	90	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	4.77	ug/L	95	(70-130)	20	5.6
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
LCS1	trans-1,3-Dichloropropene		5	5.04	ug/L	101	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	5.20	ug/L	104	(70-130)	20	3.1
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.620	ug/L	124	(50-150)		
LCS1	Trichloroethylene (TCE)		5	4.22	ug/L	84	(70-130)		
LCS2	Trichloroethylene (TCE)		5	4.51	ug/L	90	(70-130)	20	6.6
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Trichlorofluoromethane		5	4.58	ug/L	92	(70-130)		
LCS2	Trichlorofluoromethane		5	4.25	ug/L	85	(70-130)	20	7.5
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5	4.44	ug/L	89	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	4.43	ug/L	89	(70-130)	20	0.23
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	4.37	ug/L	87	(70-130)		
LCS2	Vinyl chloride (VC)		5	4.50	ug/L	90	(70-130)	20	2.9
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.530	ug/L	106	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.270	ug/L	108	(50-150)		
QC Ref# 892896 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 02/22/2016**			
CCCH	1,4-Dioxane		50	47.5	ug/L	95	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0780	ug/L	111	(50-150)		
CCCM	1,4-Dioxane		20	19.5	ug/L	97	(70-130)		
LCS1	1,4-Dioxane		20	19.1	ug/L	96	(70-130)		
MBLK	1,4-Dioxane			<0.023	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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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 QC
Report: 576312

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,4-Dioxane		0.07	0.0730	ug/L	104	(50-150)		
MS1_201602170756	1,4-Dioxane	ND	0.07	0.0790	ug/L	84	(50-150)		
MSD1_201602170756	1,4-Dioxane	ND	0.07	0.0730	ug/L	76	(50-150)	20	7.9
CCCH	Dioxane-d8			96.4	%	96	(70-130)		
CCCL	Dioxane-d8			98.5	%	99	(70-130)		
CCCM	Dioxane-d8			98.9	%	99	(70-130)		
LCS1	Dioxane-d8			106	%	106	(70-130)		
MBLK	Dioxane-d8			113	%				
MRL_CHK	Dioxane-d8			91.4	%	91	(70-130)		
MS1_201602170756	Dioxane-d8	85		91.1	%	91	(70-130)		
MSD1_201602170756	Dioxane-d8	85		93.8	%	94	(70-130)		
CCCH	THF-d8			103	%	103	(50-150)		
CCCL	THF-d8			105	%	105	(50-150)		
CCCM	THF-d8			108	%	109	(50-150)		
LCS1	THF-d8			110	%	110	(50-150)		
MBLK	THF-d8			109	%				
MRL_CHK	THF-d8			120	%	120	(50-150)		
MS1_201602170756	THF-d8	128		125	%	125	(50-150)		
MSD1_201602170756	THF-d8	128		106	%	106	(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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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
03/17/2016

Eurofins Eaton Analytical

TDF: Thomas.D.French

Project Manager

NELAP ACCREDITED TNI LABORATORY ORELAP 4034

Report: 572745
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
----------	--------	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2016
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
California-Fresno- ELAP	2966	**New York ***	11320
Colorado	Certified	**North Carolina**	06701
Connecticut	PH-0107	**North Dakota**	R-009
Delaware	CA 006	**Oregon (Primary AB) ***	**ORELAP 4034**
Florida *	E871024	**Pennsylvania ***	68-565
Georgia	947	**Rhode Island**	LAO00326
Guam	15-003r	**South Carolina**	87016
Hawaii	Certified	**South Dakota**	Certified
Idaho	Certified	**Tennessee**	TN02839
Illinois *	200033	**Texas ***	T104704230-14-7
Indiana	C-CA-01	**Utah ***	CA000062015-8
Kansas *	E-10268	**Vermont**	VT0114
Kentucky	90107	**Virginia ***	460260
Louisiana *	LA16003	**Washington**	C838
Maine	CA0006	**West Virginia**	9943 C
Maryland	224	**----------**	**----------**
Commonwealth of Northern Marianas Is.	MP0004	**Wyoming**	8TMS-L
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**Los Angeles County Sanitation Districts**	10264

* NELAP/TNI Recognized Accreditation Bodies

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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/ANAB.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		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	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	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 Residua	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
Cryptosporidium	EPA 1622, 1623	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 (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		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 (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	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
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	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	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	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, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	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
Silica	SM 4500-Si D	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 (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure (2346)	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	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 E		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
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	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 001 Issued: 09/04/2015

Acknowledgement of Samples Received

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

Client ID: PIMA-AZ
Folder #: 572745
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 17, 2016** at **1120**. 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
201601260318	2016-PW-11-02D			02/16/2016 1104
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260314	2016-PW-07-01			02/16/2016 1309
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260315	2016-PW-07-02			02/16/2016 1403
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260316	2016-PW-07-02 MS			02/16/2016 1409
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260317	2016-PW-07-02 MSD			02/16/2016 1417
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260309	2016-TB-01			02/16/2016 1417
	@VOASDWA TB	Temperature Blank deg C		

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

572745

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

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

Website:

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____

SAMPLES CHECKED AGAINST COC BY: W

SAMPLES LOGGED IN BY: R

SAMPLE TEMP RECEIVED AT:

[ ] _____ (Other) IR Gun ID = _____ (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C)

[X] Monrovia IR Gun ID = 464A (Observation= 0.7 °C) (Corr.Factor 0.2 °C) (Final = 0.5 °C)

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

Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10°C)

TYPE OF ICE: Real X Synthetic ____ No Ice ____ **CONDITION OF ICE:** Frozen ____ Partially Frozen X Thawed ____ N/A ____

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: PC DEQ - GW

COMPLIANCE SAMPLES [ ] (check for yes) - Requires state forms [ ]

NON-COMPLIANCE SAMPLES [✓] (check for yes)

REGULATION INVOLVED: _____ (eg. SDWA, NPDES, etc)

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION

SRW 02/18/16

EEA CLIENT CODE: Pima-AZ

COC ID:

SAMPLE GROUP: Groundwater / Day ~~2~~ 1 #2

SEE ATTACHED KIT ORDER FOR ANALYSES [✓] (check for yes), *OR*

List **ALL 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 ERA 2008	M EPA 524.2	HD EPA 522											SAMPLER COMMENTS
2/16	11:04	2016-PW-11-02D		RGW			✓	✓	✓											
2/16	13:09	2016-PW-07-01		"			✓	✓	✓											
2/16	14:03	2016-PW-07-02		"			✓	✓	✓											
2/16	14:09	2016-PW07-02MS		"			✓	✓	✓											
2/16	14:17	2016-PW07-02MSD		"			✓	✓	✓											
2/16		Temperature Blank deg C																		
2/16		VOASDWATB																		

K# 21 6632 2410 3142

* **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 Identi

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Marie Light	Marie Light	PCDEQ / Hydrologist	2/16/16	11:04
RELINQUISHED BY:	Marie Light	Marie Light	PCDEQ / Hydrologist	2/16/16	15:10
RECEIVED BY:	[illegible]	H. Ojeda	EEA	2/17/16	1120
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029.3 (Version 3) (01/13/16)

PAGE ____ OF ____

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Kit Order for Pima County DEQ

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

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

Note: Sampler Please return this paper with your samples

Kit #: 130071

Created By: Thomas.D.French - [TDF]
Deliver By: 02/11/2016
STG: Bottle Orders
Ice Type: W
Pre Registered

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 85701-1429

USA
Attn: Marie Light
Phone: 520-724-7457
Fax: 520-838-7432

Send Report to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

USA
Attn: Marie Light
Phone: 520-724-7457
Fax: 520-838-7432

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

USA
Attn: Marie Light
Phone: 520-724-7457
Fax: 520-838-7432

# of Sample	Tests	Bottle Qty - Type [preservative information]	UN DOT #
10	@UCMR3 522	3 - 125ml amber glass [6.25 Sulfite +125 mg Bisulfite]	
1	Temperature Blank deg C	1 - 125ml poly [no preservative + H20]	
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 02/12/16.

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

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
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Laboratory Comments
Report: 572745

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

Flags Legend:

R4 - MS/MSD RPD exceeded the method 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: 572745

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

Samples Received on:
02/17/2016 1120

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201601260314	**2016-PW-07-01**				
02/22/2016 22:48	1,4-Dioxane		0.096		ug/L	0.07
02/19/2016 18:34	Trichloroethylene (TCE)		3.2	5	ug/L	0.5
	201601260315	**2016-PW-07-02**				
03/03/2016 16:38	1,4-Dioxane		0.10		ug/L	0.07
02/19/2016 18:56	Trichloroethylene (TCE)		2.9	5	ug/L	0.5
	201601260318	**2016-PW-11-02D**				
02/22/2016 23:02	1,4-Dioxane		1.2		ug/L	0.07
02/18/2016 17:33	Chromium Total ICAP/MS		8.3	100	ug/L	1
02/19/2016 20:01	Trichloroethylene (TCE)		1.7	5	ug/L	0.5

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 572745

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

Samples Received on:
02/17/2016 1120

2016-TB-01 (201601260309) **Sampled on 02/16/2016 1417**

EPA 524.2 - Volatile Organics by GCMS

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/18/2016	02/18/2016 18:02	891963	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 572745

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

Samples Received on:
02/17/2016 1120

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/18/2016	02/18/2016	18:02	891963	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

Rounding on totals after summation.
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Pima County DEQ
Marie Light
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Tucson, AZ 85701-1429

Samples Received on:
02/17/2016 1120

2016-PW-07-01 (201601260314) **Sampled on 02/16/2016 1309**

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
		EPA 200.8 - ICPMS Metals						
2/18/2016	02/18/2016 17:30	891734	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
2/21/2016	02/22/2016 22:48	892896	(EPA 522)	1,4-Dioxane	0.096	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS						
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 18:34	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Marie Light
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Samples Received on:
02/17/2016 1120

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(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
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Trichloroethylene (TCE)	3.2	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:34	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2016-PW-07-02 (201601260315)							**Sampled on**	**02/16/2016 1403**	
		EPA 200.8 - ICPMS Metals							
2/18/2016	02/18/2016	16:53	891734	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/29/2016	03/03/2016	16:38	895213	(EPA 522)	1,4-Dioxane	0.10	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 572745

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

Samples Received on:
02/17/2016 1120

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND (R4)	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(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
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Trichloroethylene (TCE)	2.9	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	18:56	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2016-PW-07-02 MS (201601260316)							**Sampled on**	**02/16/2016 1409**	
		EPA 200.8 - ICPMS Metals							
2/18/2016	02/18/2016	16:56	891734	(EPA 200.8)	Chromium Total ICAP/MS	102	%	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/29/2016	03/03/2016	16:10	895213	(EPA 522)	1,4-Dioxane	90	%	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	102	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,1,1-Trichloroethane	106	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	104	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,1,2-Trichloroethane	104	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,1-Dichloroethane	109	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,1-Dichloroethylene	108	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,1-Dichloropropene	109	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	100	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,2,3-Trichloropropane	104	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	100	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	108	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,2-Dichloroethane	104	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,2-Dichloropropane	105	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	124	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	1,3-Dichloropropane	103	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	2,2-Dichloropropane	114	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	2-Butanone (MEK)	107	%	5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	114	%	5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Benzene	106	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Bromobenzene	105	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Bromochloromethane	104	%	0.5	1

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Samples Received on:
02/17/2016 1120

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Bromodichloromethane	101	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Bromoethane	103	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Bromoform	105	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	119	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Carbon disulfide	108	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Carbon Tetrachloride	110	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Chlorobenzene	104	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Chlorodibromomethane	106	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Chloroethane	110	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Chloroform (Trichloromethane)	87	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	103	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	108	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	cis-1,3-Dichloropropene	112	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Dibromomethane	104	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Dichlorodifluoromethane	97	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Dichloromethane	105	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Di-isopropyl ether	108	%	3	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Ethyl benzene	107	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Hexachlorobutadiene	99	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Isopropylbenzene	109	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	m,p-Xylenes	113	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	107	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	104	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Naphthalene	102	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	n-Butylbenzene	105	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	n-Propylbenzene	116	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	o-Chlorotoluene	107	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	100	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	o-Xylene	112	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	p-Chlorotoluene	113	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	104	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	p-Isopropyltoluene	119	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	sec-Butylbenzene	117	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Styrene	93	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	tert-amyl Methyl Ether	103	%	3	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	106	%	3	1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	tert-Butylbenzene	119	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	108	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Toluene	107	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Total 1,3-Dichloropropene	110	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Total THM	100	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Total xylenes	113	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	104	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	trans-1,3-Dichloropropene	112	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Trichloroethylene (TCE)	109	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Trichlorofluoromethane	114	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	109	%	0.5	1
2/19/2016	02/19/2016	19:18	892554	(EPA 524.2)	Vinyl chloride (VC)	110	%	0.3	1
2016-PW-07-02 MSD (201601260317)							**Sampled on**	**02/16/2016 1417**	
		EPA 200.8 - ICPMS Metals							
2/18/2016	02/18/2016	16:59	891734	(EPA 200.8)	Chromium Total ICAP/MS	96	%	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/29/2016	03/03/2016	16:24	895213	(EPA 522)	1,4-Dioxane	69	%	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	104	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,1,1-Trichloroethane	110	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	100	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,1,2-Trichloroethane	104	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,1-Dichloroethane	110	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,1-Dichloroethylene	109	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,1-Dichloropropene	110	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	102	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,2,3-Trichloropropane	103	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	103	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	107	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,2-Dichloroethane	103	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,2-Dichloropropane	105	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	123	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	1,3-Dichloropropane	102	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	2,2-Dichloropropane	119	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	2-Butanone (MEK)	101	%	5	1

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Laboratory Data
Report: 572745

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

Samples Received on:
02/17/2016 1120

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	109	%	5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Benzene	105	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Bromobenzene	102	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Bromochloromethane	104	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Bromodichloromethane	102	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Bromoethane	104	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Bromoform	104	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	120	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Carbon disulfide	110	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Carbon Tetrachloride	109	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Chlorobenzene	102	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Chlorodibromomethane	104	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Chloroethane	111	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Chloroform (Trichloromethane)	124	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	106	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	108	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	cis-1,3-Dichloropropene	114	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Dibromomethane	104	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Dichlorodifluoromethane	101	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Dichloromethane	104	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Di-isopropyl ether	109	%	3	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Ethyl benzene	107	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Hexachlorobutadiene	102	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Isopropylbenzene	106	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	m,p-Xylenes	112	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	101	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	104	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Naphthalene	104	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	n-Butylbenzene	106	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	n-Propylbenzene	110	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	o-Chlorotoluene	104	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	99	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	o-Xylene	112	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	p-Chlorotoluene	109	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	103	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	p-Isopropyltoluene	116	%	0.5	1

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02/17/2016 1120

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	sec-Butylbenzene	116	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Styrene	96	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	tert-amyl Methyl Ether	106	%	3	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	108	%	3	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	tert-Butylbenzene	116	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	105	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Toluene	106	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Total 1,3-Dichloropropene	110	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Total THM	108	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Total xylenes	110	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	107	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	trans-1,3-Dichloropropene	109	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Trichloroethylene (TCE)	105	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Trichlorofluoromethane	117	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	110	%	0.5	1
2/19/2016	02/19/2016	19:39	892554	(EPA 524.2)	Vinyl chloride (VC)	112	%	0.3	1
2016-PW-11-02D (201601260318)							**Sampled on**	**02/16/2016 1104**	
		EPA 200.8 - ICPMS Metals							
2/18/2016	02/18/2016	17:33	891734	(EPA 200.8)	Chromium Total ICAP/MS	8.3	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/21/2016	02/22/2016	23:02	892896	(EPA 522)	1,4-Dioxane	1.2	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1

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Samples Received on:
02/17/2016 1120

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	20:01	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1

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2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	Trichloroethylene (TCE)	1.7	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 20:01	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

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QC Summary: 572745

Pima County DEQ

QC Ref # 891734 - ICPMS Metals — **Analysis Date: 02/18/2016**

201601260314	2016-PW-07-01	Analyzed by: CYP
201601260315	2016-PW-07-02	Analyzed by: CYP
201601260316	2016-PW-07-02 MS	Analyzed by: CYP
201601260317	2016-PW-07-02 MSD	Analyzed by: CYP
201601260318	2016-PW-11-02D	Analyzed by: CYP

QC Ref # 891963 - Volatile Organics by GCMS — **Analysis Date: 02/18/2016**

201601260309	2016-TB-01	Analyzed by: KAM

QC Ref # 892554 - Volatile Organics by GCMS — **Analysis Date: 02/19/2016**

201601260314	2016-PW-07-01	Analyzed by: MCB
201601260315	2016-PW-07-02	Analyzed by: MCB
201601260316	2016-PW-07-02 MS	Analyzed by: MCB
201601260317	2016-PW-07-02 MSD	Analyzed by: MCB
201601260318	2016-PW-11-02D	Analyzed by: MCB

QC Ref # 892896 - UCMR3 1,4-Dioxane by EPA 522 — **Analysis Date: 02/22/2016**

201601260314	2016-PW-07-01	Analyzed by: JYH
201601260318	2016-PW-11-02D	Analyzed by: JYH

QC Ref # 895213 - UCMR3 1,4-Dioxane by EPA 522 — **Analysis Date: 03/03/2016**

201601260315	2016-PW-07-02	Analyzed by: JYH
201601260316	2016-PW-07-02 MS	Analyzed by: JYH
201601260317	2016-PW-07-02 MSD	Analyzed by: JYH

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 891734 - ICPMS Metals by EPA 200.8						**Analysis Date: 02/18/2016**			
LCS1	Chromium Total ICAP/MS		100	99.2	ug/L	99	(85-115)		
LCS2	Chromium Total ICAP/MS		100	102	ug/L	102	(85-115)	20	2.8
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1	0.954	ug/L	95	(50-150)		
MS_201602160274	Chromium Total ICAP/MS	5.8	100	116	ug/L	110	(70-130)		
MS2_201601260315	Chromium Total ICAP/MS	ND	100	102	ug/L	102	(70-130)		
MSD_201602160274	Chromium Total ICAP/MS	5.8	100	105	ug/L	99	(70-130)	20	9.9
MSD2_201601260315	Chromium Total ICAP/MS	ND	100	96.5	ug/L	96	(70-130)	20	5.5
QC Ref# 891963 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/18/2016**			
LCS1	1,1,1,2-Tetrachloroethane		5	4.58	ug/L	92	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	4.69	ug/L	94	(70-130)	20	2.4
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,1,1-Trichloroethane		5	4.78	ug/L	96	(70-130)		
LCS2	1,1,1-Trichloroethane		5	4.80	ug/L	96	(70-130)	20	0.42
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5	4.65	ug/L	93	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5	4.62	ug/L	92	(70-130)	20	0.65
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	4.78	ug/L	96	(70-130)		
LCS2	1,1,2-Trichloroethane		5	4.86	ug/L	97	(70-130)	20	1.7
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	4.99	ug/L	100	(70-130)		
LCS2	1,1-Dichloroethane		5	5.08	ug/L	102	(70-130)	20	1.8
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.520	ug/L	104	(50-150)		
LCS1	1,1-Dichloroethylene		5	5.29	ug/L	106	(70-130)		
LCS2	1,1-Dichloroethylene		5	5.23	ug/L	105	(70-130)	20	1.1
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,1-Dichloropropene		5	4.82	ug/L	96	(70-130)		
LCS2	1,1-Dichloropropene		5	4.86	ug/L	97	(70-130)	20	0.83
MBLK	1,1-Dichloropropene			<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).
(S) - Indicates surrogate compound.
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Laboratory QC
Report: 572745

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,1-Dichloropropene		0.5	0.510	ug/L	102	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5	5.04	ug/L	101	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	4.73	ug/L	95	(70-130)	20	6.3
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.590	ug/L	118	(50-150)		
LCS1	1,2,3-Trichloropropane		5	4.72	ug/L	94	(70-130)		
LCS2	1,2,3-Trichloropropane		5	4.67	ug/L	93	(70-130)	20	1.1
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5	4.90	ug/L	98	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	4.76	ug/L	95	(70-130)	20	2.9
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5	4.50	ug/L	90	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	4.42	ug/L	88	(70-130)	20	1.8
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,2-Dichloroethane		5	4.89	ug/L	98	(70-130)		
LCS2	1,2-Dichloroethane		5	5.08	ug/L	102	(70-130)	20	3.8
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)			102	%	102	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			105	%	105	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			106	%	106	(70-130)		
LCS1	1,2-Dichloropropane		5	4.74	ug/L	95	(70-130)		
LCS2	1,2-Dichloropropane		5	4.91	ug/L	98	(70-130)	20	3.5
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5	4.42	ug/L	88	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	4.24	ug/L	85	(70-130)	20	4.2
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,3-Dichloropropane		5	4.83	ug/L	97	(70-130)		
LCS2	1,3-Dichloropropane		5	4.97	ug/L	99	(70-130)	20	2.9
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.510	ug/L	102	(50-150)		

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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%
LCS1	2,2-Dichloropropane		5	4.55	ug/L	91	(70-130)		
LCS2	2,2-Dichloropropane		5	4.54	ug/L	91	(70-130)	20	0.22
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.460	ug/L	92	(50-150)		
LCS1	2-Butanone (MEK)		50	50.1	ug/L	100	(70-130)		
LCS2	2-Butanone (MEK)		50	51.7	ug/L	103	(70-130)	20	3.1
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	6.05	ug/L	121	(50-150)		
LCS1	4-Bromofluorobenzene (S)			97.4	%	97	(70-130)		
LCS2	4-Bromofluorobenzene (S)			96.2	%	96	(70-130)		
MBLK	4-Bromofluorobenzene (S)			99.2	%	99	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			98.6	%	99	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			97.4	%	97	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	51.2	ug/L	102	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	51.8	ug/L	104	(70-130)	20	1.4
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	4.94	ug/L	99	(50-150)		
LCS1	Benzene		5	4.76	ug/L	95	(70-130)		
LCS2	Benzene		5	4.85	ug/L	97	(70-130)	20	1.9
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Bromobenzene		5	4.52	ug/L	90	(70-130)		
LCS2	Bromobenzene		5	4.51	ug/L	90	(70-130)	20	0.22
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Bromochloromethane		5	5.00	ug/L	100	(70-130)		
LCS2	Bromochloromethane		5	5.21	ug/L	104	(70-130)	20	4.1
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromodichloromethane		5	4.73	ug/L	95	(70-130)		
LCS2	Bromodichloromethane		5	4.80	ug/L	96	(70-130)	20	1.5
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	Bromoethane		5	4.71	ug/L	94	(70-130)		
LCS2	Bromoethane		5	4.89	ug/L	98	(70-130)	20	3.8
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.570	ug/L	114	(50-150)		
LCS1	Bromoform		5	4.34	ug/L	87	(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	Bromoform		5	4.02	ug/L	80	(70-130)	20	7.7
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.390	ug/L	78	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5	5.51	ug/L	110	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	5.65	ug/L	113	(70-130)	20	2.5
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.640	ug/L	128	(50-150)		
LCS1	Carbon disulfide		5	4.88	ug/L	98	(70-130)		
LCS2	Carbon disulfide		5	4.73	ug/L	95	(70-130)	20	3.1
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.540	ug/L	108	(50-150)		
LCS1	Carbon Tetrachloride		5	4.76	ug/L	95	(70-130)		
LCS2	Carbon Tetrachloride		5	4.66	ug/L	93	(70-130)	20	2.1
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.470	ug/L	94	(50-150)		
LCS1	Chlorobenzene		5	4.69	ug/L	94	(70-130)		
LCS2	Chlorobenzene		5	4.77	ug/L	95	(70-130)	20	1.7
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Chlorodibromomethane		5	4.77	ug/L	95	(70-130)		
LCS2	Chlorodibromomethane		5	4.68	ug/L	94	(70-130)	20	1.9
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.420	ug/L	84	(50-150)		
LCS1	Chloroethane		5	5.31	ug/L	106	(70-130)		
LCS2	Chloroethane		5	5.23	ug/L	105	(70-130)	20	1.5
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.620	ug/L	124	(50-150)		
LCS1	Chloroform (Trichloromethane)		5	5.40	ug/L	108	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	5.61	ug/L	112	(70-130)	20	3.8
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.550	ug/L	110	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5	4.80	ug/L	96	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	4.84	ug/L	97	(70-130)	20	0.83
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.520	ug/L	104	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5	4.94	ug/L	99	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	4.94	ug/L	99	(70-130)	20	0.0
MBLK	cis-1,2-Dichloroethylene			<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%
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.550	ug/L	110	(50-150)		
LCS1	cis-1,3-Dichloropropene		5	4.59	ug/L	92	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.67	ug/L	93	(70-130)	20	1.7
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Dibromomethane		5	4.77	ug/L	95	(70-130)		
LCS2	Dibromomethane		5	4.95	ug/L	99	(70-130)	20	3.7
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Dichlorodifluoromethane		5	5.11	ug/L	102	(70-130)		
LCS2	Dichlorodifluoromethane		5	4.82	ug/L	96	(70-130)	20	5.8
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Dichloromethane		5	4.83	ug/L	97	(70-130)		
LCS2	Dichloromethane		5	5.12	ug/L	102	(70-130)	20	5.8
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.610	ug/L	122	(50-150)		
LCS1	Di-isopropyl ether		5	4.98	ug/L	100	(70-130)		
LCS2	Di-isopropyl ether		5	5.16	ug/L	103	(70-130)	20	3.5
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.550	ug/L	110	(50-150)		
LCS1	Ethyl benzene		5	4.82	ug/L	96	(70-130)		
LCS2	Ethyl benzene		5	4.76	ug/L	95	(70-130)	20	1.3
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	Hexachlorobutadiene		5	5.03	ug/L	101	(70-130)		
LCS2	Hexachlorobutadiene		5	4.46	ug/L	89	(70-130)	20	12
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.590	ug/L	118	(50-150)		
LCS1	Isopropylbenzene		5	4.50	ug/L	90	(70-130)		
LCS2	Isopropylbenzene		5	4.37	ug/L	87	(70-130)	20	2.9
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.440	ug/L	88	(50-150)		
LCS1	m,p-Xylenes		10	9.08	ug/L	91	(70-130)		
LCS2	m,p-Xylenes		10	9.12	ug/L	91	(70-130)	20	0.44
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.850	ug/L	85	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.410	ug/L	82	(50-150)		

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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%
LCS1	m-Dichlorobenzene (1,3-DCB)		5	4.64	ug/L	93	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	4.57	ug/L	91	(70-130)	20	1.5
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5	4.98	ug/L	100	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	5.02	ug/L	100	(70-130)	20	0.80
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.600	ug/L	120	(50-150)		
LCS1	Naphthalene		5	5.19	ug/L	104	(70-130)		
LCS2	Naphthalene		5	4.93	ug/L	99	(70-130)	20	5.1
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.580	ug/L	116	(50-150)		
LCS1	n-Butylbenzene		5	4.96	ug/L	99	(70-130)		
LCS2	n-Butylbenzene		5	4.72	ug/L	94	(70-130)	20	5.0
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	n-Propylbenzene		5	4.58	ug/L	92	(70-130)		
LCS2	n-Propylbenzene		5	4.42	ug/L	88	(70-130)	20	3.6
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	o-Chlorotoluene		5	4.55	ug/L	91	(70-130)		
LCS2	o-Chlorotoluene		5	4.57	ug/L	91	(70-130)	20	0.44
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.480	ug/L	96	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5	4.76	ug/L	95	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.72	ug/L	94	(70-130)	20	0.84
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	4.60	ug/L	92	(70-130)		
LCS2	o-Xylene		5	4.56	ug/L	91	(70-130)	20	0.87
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.430	ug/L	86	(50-150)		
LCS1	p-Chlorotoluene		5	4.38	ug/L	88	(70-130)		
LCS2	p-Chlorotoluene		5	4.34	ug/L	87	(70-130)	20	0.92
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.430	ug/L	86	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5	4.48	ug/L	90	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	4.38	ug/L	88	(70-130)	20	2.3

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Laboratory QC
Report: 572745

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
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)		
LCS1	p-Isopropyltoluene		5	4.42	ug/L	88	(70-130)		
LCS2	p-Isopropyltoluene		5	4.20	ug/L	84	(70-130)	20	5.1
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.430	ug/L	86	(50-150)		
LCS1	sec-Butylbenzene		5	4.61	ug/L	92	(70-130)		
LCS2	sec-Butylbenzene		5	4.32	ug/L	86	(70-130)	20	6.5
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Styrene		5	4.50	ug/L	90	(70-130)		
LCS2	Styrene		5	4.63	ug/L	93	(70-130)	20	2.9
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.420	ug/L	84	(50-150)		
LCS1	tert-amyl Methyl Ether		5	4.72	ug/L	94	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.77	ug/L	95	(70-130)	20	1.1
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.510	ug/L	102	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5	4.96	ug/L	99	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	5.09	ug/L	102	(70-130)	20	2.6
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	4.43	ug/L	89	(70-130)		
LCS2	tert-Butylbenzene		5	4.25	ug/L	85	(70-130)	20	4.2
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5	4.65	ug/L	93	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.52	ug/L	90	(70-130)	20	2.8
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.480	ug/L	96	(50-150)		
LCS1	Toluene		5	4.66	ug/L	93	(70-130)		
LCS2	Toluene		5	4.72	ug/L	94	(70-130)	20	1.3
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.460	ug/L	92	(50-150)		
LCS1	Toluene-d8 (S)			99.0	%	99	(70-130)		
LCS2	Toluene-d8 (S)			103	%	103	(70-130)		
MBLK	Toluene-d8 (S)			94.4	%	94	(70-130)		
MRL_CHK	Toluene-d8 (S)			93.8	%	94	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRLLW	Toluene-d8 (S)			95.6	%	96	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	4.80	ug/L	96	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	4.88	ug/L	98	(70-130)	20	1.6
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
LCS1	trans-1,3-Dichloropropene		5	4.50	ug/L	90	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	4.46	ug/L	89	(70-130)	20	0.89
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.390	ug/L	78	(50-150)		
LCS1	Trichloroethylene (TCE)		5	4.85	ug/L	97	(70-130)		
LCS2	Trichloroethylene (TCE)		5	4.82	ug/L	96	(70-130)	20	0.62
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Trichlorofluoromethane		5	5.07	ug/L	101	(70-130)		
LCS2	Trichlorofluoromethane		5	4.85	ug/L	97	(70-130)	20	4.4
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5	5.06	ug/L	101	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	4.77	ug/L	95	(70-130)	20	5.9
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.520	ug/L	104	(50-150)		
LCS1	Vinyl chloride (VC)		5	5.18	ug/L	104	(70-130)		
LCS2	Vinyl chloride (VC)		5	5.07	ug/L	101	(70-130)	20	2.1
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.540	ug/L	108	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.280	ug/L	112	(50-150)		
QC Ref# 892554 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/19/2016**			
LCS1	1,1,1,2-Tetrachloroethane		5	4.77	ug/L	95	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	4.80	ug/L	96	(70-130)	20	0.63
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.440	ug/L	88	(50-150)		
MS_201601260328	1,1,1,2-Tetrachloroethane	ND	10	10.1	ug/L	101	(70-130)		
MS_201601260315	1,1,1,2-Tetrachloroethane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260315	1,1,1,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201601260328	1,1,1,2-Tetrachloroethane	ND	10	10.0	ug/L	100	(70-130)	20	1
LCS1	1,1,1-Trichloroethane		5	4.11	ug/L	82	(70-130)		
LCS2	1,1,1-Trichloroethane		5	4.71	ug/L	94	(70-130)	20	14
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	1,1,1-Trichloroethane		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	1,1,1-Trichloroethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260328	1,1,1-Trichloroethane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260315	1,1,1-Trichloroethane	ND	10	11.0	ug/L	110	(70-130)	20	3.7
MSD_201601260328	1,1,1-Trichloroethane	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	1,1,2,2-Tetrachloroethane		5	4.80	ug/L	96	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5	4.98	ug/L	100	(70-130)	20	3.7
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.490	ug/L	98	(50-150)		
MS_201601260315	1,1,2,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	1,1,2,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260328	1,1,2,2-Tetrachloroethane	ND	10	10.1	ug/L	101	(70-130)	20	2.9
MSD_201601260315	1,1,2,2-Tetrachloroethane	ND	10	10.0	ug/L	100	(70-130)	20	3.9
LCS1	1,1,2-Trichloroethane		5	4.85	ug/L	97	(70-130)		
LCS2	1,1,2-Trichloroethane		5	4.83	ug/L	97	(70-130)	20	0.41
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.470	ug/L	94	(50-150)		
MS_201601260315	1,1,2-Trichloroethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	1,1,2-Trichloroethane	ND	10	9.64	ug/L	96	(70-130)		
MSD_201601260328	1,1,2-Trichloroethane	ND	10	10.1	ug/L	101	(70-130)	20	4.7
MSD_201601260315	1,1,2-Trichloroethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
LCS1	1,1-Dichloroethane		5	4.85	ug/L	97	(70-130)		
LCS2	1,1-Dichloroethane		5	5.08	ug/L	102	(70-130)	20	4.6
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.520	ug/L	104	(50-150)		
MS_201601260328	1,1-Dichloroethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201601260315	1,1-Dichloroethane	ND	10	10.8	ug/L	109	(70-130)		
MSD_201601260328	1,1-Dichloroethane	ND	10	10.8	ug/L	108	(70-130)	20	0.93
MSD_201601260315	1,1-Dichloroethane	ND	10	11.0	ug/L	110	(70-130)	20	0.91
LCS1	1,1-Dichloroethylene		5	4.45	ug/L	89	(70-130)		
LCS2	1,1-Dichloroethylene		5	4.90	ug/L	98	(70-130)	20	9.6
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
MS_201601260315	1,1-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)		
MS_201601260328	1,1-Dichloroethylene	ND	10	10.8	ug/L	107	(70-130)		
MSD_201601260328	1,1-Dichloroethylene	ND	10	10.8	ug/L	107	(70-130)	20	0.0
MSD_201601260315	1,1-Dichloroethylene	ND	10	10.8	ug/L	109	(70-130)	20	0.92
LCS1	1,1-Dichloropropene		5	4.26	ug/L	85	(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	1,1-Dichloropropene		5	4.62	ug/L	92	(70-130)	20	8.1
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	1,1-Dichloropropene	ND	10	10.9	ug/L	109	(70-130)		
MS_201601260328	1,1-Dichloropropene	ND	10	9.84	ug/L	98	(70-130)		
MSD_201601260315	1,1-Dichloropropene	ND	10	11.0	ug/L	110	(70-130)	20	0.91
MSD_201601260328	1,1-Dichloropropene	ND	10	10.4	ug/L	104	(70-130)	20	5.5
LCS1	1,2,3-Trichlorobenzene		5	5.19	ug/L	104	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	5.15	ug/L	103	(70-130)	20	0.77
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.600	ug/L	120	(50-150)		
MS_201601260315	1,2,3-Trichlorobenzene	ND	10	9.95	ug/L	100	(70-130)		
MS_201601260328	1,2,3-Trichlorobenzene	ND	10	9.95	ug/L	100	(70-130)		
MSD_201601260328	1,2,3-Trichlorobenzene	ND	10	9.85	ug/L	99	(70-130)	20	1.0
MSD_201601260315	1,2,3-Trichlorobenzene	ND	10	10.2	ug/L	102	(70-130)	20	2.5
LCS1	1,2,3-Trichloropropane		5	4.77	ug/L	95	(70-130)		
LCS2	1,2,3-Trichloropropane		5	4.88	ug/L	98	(70-130)	20	2.3
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.540	ug/L	108	(50-150)		
MS_201601260328	1,2,3-Trichloropropane	ND	10	10.3	ug/L	103	(70-130)		
MS_201601260315	1,2,3-Trichloropropane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260328	1,2,3-Trichloropropane	ND	10	10.1	ug/L	101	(70-130)	20	2.0
MSD_201601260315	1,2,3-Trichloropropane	ND	10	10.3	ug/L	103	(70-130)	20	0.97
LCS1	1,2,4-Trichlorobenzene		5	4.94	ug/L	99	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	5.02	ug/L	100	(70-130)	20	1.6
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.560	ug/L	112	(50-150)		
MS_201601260315	1,2,4-Trichlorobenzene	ND	10	9.97	ug/L	100	(70-130)		
MS_201601260328	1,2,4-Trichlorobenzene	ND	10	9.80	ug/L	98	(70-130)		
MSD_201601260315	1,2,4-Trichlorobenzene	ND	10	10.2	ug/L	102	(70-130)	20	3.3
MSD_201601260328	1,2,4-Trichlorobenzene	ND	10	10.1	ug/L	101	(70-130)	20	3.0
LCS1	1,2,4-Trimethylbenzene		5	4.72	ug/L	94	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	5.05	ug/L	101	(70-130)	20	6.8
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260315	1,2,4-Trimethylbenzene	ND	10	10.8	ug/L	108	(70-130)		
MS_201601260328	1,2,4-Trimethylbenzene	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260328	1,2,4-Trimethylbenzene	ND	10	10.5	ug/L	105	(70-130)	20	2.8

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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%
MSD_201601260315	1,2,4-Trimethylbenzene	ND	10	10.7	ug/L	107	(70-130)	20	0.93
LCS1	1,2-Dichloroethane		5	4.82	ug/L	96	(70-130)		
LCS2	1,2-Dichloroethane		5	4.92	ug/L	98	(70-130)	20	2.0
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
MS_201601260315	1,2-Dichloroethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	1,2-Dichloroethane	ND	10	9.90	ug/L	99	(70-130)		
MSD_201601260328	1,2-Dichloroethane	ND	10	10.0	ug/L	100	(70-130)	20	1.0
MSD_201601260315	1,2-Dichloroethane	ND	10	10.3	ug/L	103	(70-130)	20	0.97
LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			97.6	%	98	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201601260315	1,2-Dichloroethane-d4 (S)			97.2	%	97	(70-130)		
MS_201601260328	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MSD_201601260328	1,2-Dichloroethane-d4 (S)			97.4	%	97	(70-130)		
MSD_201601260315	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
LCS1	1,2-Dichloropropane		5	4.72	ug/L	94	(70-130)		
LCS2	1,2-Dichloropropane		5	4.82	ug/L	96	(70-130)	20	2.1
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.460	ug/L	92	(50-150)		
MS_201601260328	1,2-Dichloropropane	ND	10	10.2	ug/L	102	(70-130)		
MS_201601260315	1,2-Dichloropropane	ND	10	10.5	ug/L	105	(70-130)		
MSD_201601260315	1,2-Dichloropropane	ND	10	10.5	ug/L	105	(70-130)	20	0.0
MSD_201601260328	1,2-Dichloropropane	ND	10	10.0	ug/L	100	(70-130)	20	2.0
LCS1	1,3,5-Trimethylbenzene		5	4.87	ug/L	97	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	5.43	ug/L	109	(70-130)	20	11
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.440	ug/L	88	(50-150)		
MS_201601260315	1,3,5-Trimethylbenzene	ND	10	12.4	ug/L	124	(70-130)		
MS_201601260328	1,3,5-Trimethylbenzene	ND	10	11.8	ug/L	118	(70-130)		
MSD_201601260328	1,3,5-Trimethylbenzene	ND	10	11.6	ug/L	116	(70-130)	20	1.7
MSD_201601260315	1,3,5-Trimethylbenzene	ND	10	12.3	ug/L	123	(70-130)	20	0.81
LCS1	1,3-Dichloropropane		5	4.62	ug/L	92	(70-130)		
LCS2	1,3-Dichloropropane		5	4.74	ug/L	95	(70-130)	20	2.6
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.470	ug/L	94	(50-150)		

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Laboratory QC
Report: 572745

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201601260315	1,3-Dichloropropane	ND	10	10.2	ug/L	102	(70-130)		
MS_201601260328	1,3-Dichloropropane	ND	10	9.74	ug/L	97	(70-130)		
MSD_201601260328	1,3-Dichloropropane	ND	10	9.97	ug/L	100	(70-130)	20	2.3
MSD_201601260315	1,3-Dichloropropane	ND	10	10.2	ug/L	102	(70-130)	20	0.98
LCS1	2,2-Dichloropropane		5	4.36	ug/L	87	(70-130)		
LCS2	2,2-Dichloropropane		5	4.87	ug/L	97	(70-130)	20	11
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.560	ug/L	112	(50-150)		
MS_201601260328	2,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)		
MS_201601260315	2,2-Dichloropropane	ND	10	11.4	ug/L	114	(70-130)		
MSD_201601260315	2,2-Dichloropropane	ND	10	11.9	ug/L	119	(70-130)	20	4.3
MSD_201601260328	2,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)	20	0.0
LCS1	2-Butanone (MEK)		50	48.5	ug/L	97	(70-130)		
LCS2	2-Butanone (MEK)		50	48.2	ug/L	96	(70-130)	20	0.62
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	5.19	ug/L	104	(50-150)		
MS_201601260328	2-Butanone (MEK)	ND	100	102	ug/L	102	(70-130)		
MS_201601260315	2-Butanone (MEK)	ND	100	107	ug/L	107	(70-130)		
MSD_201601260328	2-Butanone (MEK)	ND	100	104	ug/L	104	(70-130)	20	1.9
MSD_201601260315	2-Butanone (MEK)	ND	100	102	ug/L	101	(70-130)	20	4.8
LCS1	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			99.8	%	100	(70-130)		
MBLK	4-Bromofluorobenzene (S)			99.2	%	99	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			97.8	%	98	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			95.6	%	96	(70-130)		
MS_201601260328	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MS_201601260315	4-Bromofluorobenzene (S)			98.2	%	98	(70-130)		
MSD_201601260315	4-Bromofluorobenzene (S)			94.0	%	94	(70-130)		
MSD_201601260328	4-Bromofluorobenzene (S)			96.0	%	96	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	48.9	ug/L	98	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	47.5	ug/L	95	(70-130)	20	2.9
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	4.29	ug/L	86	(50-150)		
MS_201601260315	4-Methyl-2-Pentanone (MIBK)	ND	100	114	ug/L	114	(70-130)		
MS_201601260328	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	107	(70-130)		
MSD_201601260315	4-Methyl-2-Pentanone (MIBK)	ND	100	109	ug/L	109	(70-130)	20	4.5
MSD_201601260328	4-Methyl-2-Pentanone (MIBK)	ND	100	110	ug/L	110	(70-130)	20	2.8
LCS1	Benzene		5	4.69	ug/L	94	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Benzene		5	4.79	ug/L	96	(70-130)	20	2.1
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.480	ug/L	96	(50-150)		
MS_201601260328	Benzene	ND	10	10.0	ug/L	100	(70-130)		
MS_201601260315	Benzene	ND	10	10.6	ug/L	106	(70-130)		
MSD_201601260315	Benzene	ND	10	10.5	ug/L	105	(70-130)	20	0.95
MSD_201601260328	Benzene	ND	10	10.1	ug/L	101	(70-130)	20	1
LCS1	Bromobenzene		5	4.60	ug/L	92	(70-130)		
LCS2	Bromobenzene		5	5.01	ug/L	100	(70-130)	20	8.5
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.490	ug/L	98	(50-150)		
MS_201601260328	Bromobenzene	ND	10	10.1	ug/L	101	(70-130)		
MS_201601260315	Bromobenzene	ND	10	10.5	ug/L	105	(70-130)		
MSD_201601260328	Bromobenzene	ND	10	10.0	ug/L	101	(70-130)	20	0.0
MSD_201601260315	Bromobenzene	ND	10	10.2	ug/L	102	(70-130)	20	2.9
LCS1	Bromochloromethane		5	4.80	ug/L	96	(70-130)		
LCS2	Bromochloromethane		5	5.01	ug/L	100	(70-130)	20	4.3
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.520	ug/L	104	(50-150)		
MS_201601260328	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260315	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260328	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260315	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
LCS1	Bromodichloromethane		5	4.74	ug/L	95	(70-130)		
LCS2	Bromodichloromethane		5	4.88	ug/L	98	(70-130)	20	2.9
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.450	ug/L	90	(50-150)		
MS_201601260328	Bromodichloromethane	ND	10	9.64	ug/L	96	(70-130)		
MS_201601260315	Bromodichloromethane	ND	10	10.2	ug/L	101	(70-130)		
MSD_201601260315	Bromodichloromethane	ND	10	10.2	ug/L	102	(70-130)	20	0.0
MSD_201601260328	Bromodichloromethane	ND	10	10.1	ug/L	101	(70-130)	20	4.7
LCS1	Bromoethane		5	4.87	ug/L	97	(70-130)		
LCS2	Bromoethane		5	5.32	ug/L	106	(70-130)	20	8.8
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.490	ug/L	98	(50-150)		
MS_201601260328	Bromoethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260315	Bromoethane	ND	10	10.3	ug/L	103	(70-130)		
MSD_201601260328	Bromoethane	ND	10	10.3	ug/L	103	(70-130)	20	0.97

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201601260315	Bromoethane	ND	10	10.4	ug/L	104	(70-130)	20	0.97
LCS1	Bromoform		5	4.33	ug/L	87	(70-130)		
LCS2	Bromoform		5	4.82	ug/L	96	(70-130)	20	11
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	Bromoform	ND	10	10.5	ug/L	105	(70-130)		
MS_201601260328	Bromoform	ND	10	10.6	ug/L	106	(70-130)		
MSD_201601260315	Bromoform	ND	10	10.4	ug/L	104	(70-130)	20	0.96
MSD_201601260328	Bromoform	ND	10	10.8	ug/L	108	(70-130)	20	1.9
LCS1	Bromomethane (Methyl Bromide)		5	5.07	ug/L	101	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	5.40	ug/L	108	(70-130)	20	6.3
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.550	ug/L	110	(50-150)		
MS_201601260315	Bromomethane (Methyl Bromide)	ND	10	11.9	ug/L	119	(70-130)		
MS_201601260328	Bromomethane (Methyl Bromide)	ND	10	12.6	ug/L	126	(70-130)		
MSD_201601260328	Bromomethane (Methyl Bromide)	ND	10	12.3	ug/L	123	(70-130)	20	2.4
MSD_201601260315	Bromomethane (Methyl Bromide)	ND	10	12.0	ug/L	120	(70-130)	20	0.84
LCS1	Carbon disulfide		5	4.31	ug/L	86	(70-130)		
LCS2	Carbon disulfide		5	4.87	ug/L	97	(70-130)	20	12
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.520	ug/L	104	(50-150)		
MS_201601260328	Carbon disulfide	ND	10	10.6	ug/L	107	(70-130)		
MS_201601260315	Carbon disulfide	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260328	Carbon disulfide	ND	10	10.8	ug/L	108	(70-130)	20	0.93
MSD_201601260315	Carbon disulfide	ND	10	11.0	ug/L	110	(70-130)	20	1.8
LCS1	Carbon Tetrachloride		5	4.21	ug/L	84	(70-130)		
LCS2	Carbon Tetrachloride		5	4.83	ug/L	97	(70-130)	20	14
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.420	ug/L	84	(50-150)		
MS_201601260315	Carbon Tetrachloride	ND	10	11.0	ug/L	110	(70-130)		
MS_201601260328	Carbon Tetrachloride	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260328	Carbon Tetrachloride	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260315	Carbon Tetrachloride	ND	10	10.9	ug/L	109	(70-130)	20	0.91
LCS1	Chlorobenzene		5	4.38	ug/L	88	(70-130)		
LCS2	Chlorobenzene		5	4.51	ug/L	90	(70-130)	20	2.9
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.440	ug/L	88	(50-150)		
MS_201601260328	Chlorobenzene	ND	10	9.82	ug/L	98	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201601260315	Chlorobenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	Chlorobenzene	ND	10	10.2	ug/L	102	(70-130)	20	1.9
MSD_201601260328	Chlorobenzene	ND	10	9.96	ug/L	100	(70-130)	20	1.4
LCS1	Chlorodibromomethane		5	4.62	ug/L	92	(70-130)		
LCS2	Chlorodibromomethane		5	4.69	ug/L	94	(70-130)	20	1.5
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.450	ug/L	90	(50-150)		
MS_201601260328	Chlorodibromomethane	ND	10	10.2	ug/L	102	(70-130)		
MS_201601260315	Chlorodibromomethane	ND	10	10.6	ug/L	106	(70-130)		
MSD_201601260315	Chlorodibromomethane	ND	10	10.4	ug/L	105	(70-130)	20	0.95
MSD_201601260328	Chlorodibromomethane	ND	10	10.5	ug/L	105	(70-130)	20	2.9
LCS1	Chloroethane		5	4.72	ug/L	94	(70-130)		
LCS2	Chloroethane		5	4.88	ug/L	98	(70-130)	20	3.3
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.540	ug/L	108	(50-150)		
MS_201601260328	Chloroethane	ND	10	11.3	ug/L	113	(70-130)		
MS_201601260315	Chloroethane	ND	10	11.1	ug/L	110	(70-130)		
MSD_201601260315	Chloroethane	ND	10	11.3	ug/L	111	(70-130)	20	1.8
MSD_201601260328	Chloroethane	ND	10	10.8	ug/L	108	(70-130)	20	4.5
LCS1	Chloroform (Trichloromethane)		5	3.91	ug/L	78	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	3.96	ug/L	79	(70-130)	20	1.3
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	Chloroform (Trichloromethane)	ND	10	9.10	ug/L	87	(70-130)		
MS_201601260328	Chloroform (Trichloromethane)	ND	10	8.73	ug/L	85	(70-130)		
MSD_201601260315	Chloroform (Trichloromethane)	ND	10	12.8	ug/L	124	(70-130)	20	**34**
MSD_201601260328	Chloroform (Trichloromethane)	ND	10	9.98	ug/L	98	(70-130)	20	13
LCS1	Chloromethane(Methyl Chloride)		5	4.84	ug/L	97	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	5.18	ug/L	104	(70-130)	20	6.8
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.490	ug/L	98	(50-150)		
MS_201601260315	Chloromethane(Methyl Chloride)	ND	10	10.3	ug/L	103	(70-130)		
MS_201601260328	Chloromethane(Methyl Chloride)	ND	10	10.3	ug/L	103	(70-130)		
MSD_201601260315	Chloromethane(Methyl Chloride)	ND	10	10.6	ug/L	106	(70-130)	20	2.9
MSD_201601260328	Chloromethane(Methyl Chloride)	ND	10	10.6	ug/L	106	(70-130)	20	2.9
LCS1	cis-1,2-Dichloroethylene		5	4.81	ug/L	96	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	5.12	ug/L	102	(70-130)	20	6.2
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.620	ug/L	124	(50-150)		
MS_201601260315	cis-1,2-Dichloroethylene	ND	10	11.0	ug/L	108	(70-130)		
MS_201601260328	cis-1,2-Dichloroethylene	ND	10	10.7	ug/L	106	(70-130)		
MSD_201601260315	cis-1,2-Dichloroethylene	ND	10	11.0	ug/L	108	(70-130)	20	0.0
MSD_201601260328	cis-1,2-Dichloroethylene	ND	10	10.6	ug/L	105	(70-130)	20	0.94
LCS1	cis-1,3-Dichloropropene		5	4.67	ug/L	93	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.86	ug/L	97	(70-130)	20	4.0
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.470	ug/L	94	(50-150)		
MS_201601260328	cis-1,3-Dichloropropene	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260315	cis-1,3-Dichloropropene	ND	10	11.2	ug/L	112	(70-130)		
MSD_201601260315	cis-1,3-Dichloropropene	ND	10	11.4	ug/L	114	(70-130)	20	1.8
MSD_201601260328	cis-1,3-Dichloropropene	ND	10	10.9	ug/L	109	(70-130)	20	2.8
LCS1	Dibromomethane		5	4.90	ug/L	98	(70-130)		
LCS2	Dibromomethane		5	4.97	ug/L	99	(70-130)	20	1.4
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.510	ug/L	102	(50-150)		
MS_201601260315	Dibromomethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	Dibromomethane	ND	10	10.0	ug/L	100	(70-130)		
MSD_201601260315	Dibromomethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260328	Dibromomethane	ND	10	10.4	ug/L	104	(70-130)	20	3.9
LCS1	Dichlorodifluoromethane		5	4.36	ug/L	87	(70-130)		
LCS2	Dichlorodifluoromethane		5	5.26	ug/L	105	(70-130)	20	19
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.390	ug/L	78	(50-150)		
MS_201601260328	Dichlorodifluoromethane	ND	10	9.12	ug/L	91	(70-130)		
MS_201601260315	Dichlorodifluoromethane	ND	10	9.67	ug/L	97	(70-130)		
MSD_201601260328	Dichlorodifluoromethane	ND	10	9.10	ug/L	91	(70-130)	20	0.22
MSD_201601260315	Dichlorodifluoromethane	ND	10	10.1	ug/L	101	(70-130)	20	4.3
LCS1	Dichloromethane		5	4.91	ug/L	98	(70-130)		
LCS2	Dichloromethane		5	5.01	ug/L	100	(70-130)	20	2.0
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.680	ug/L	136	(50-150)		
MS_201601260315	Dichloromethane	ND	10	10.5	ug/L	105	(70-130)		
MS_201601260328	Dichloromethane	ND	10	10.6	ug/L	106	(70-130)		
MSD_201601260328	Dichloromethane	ND	10	10.4	ug/L	104	(70-130)	20	1.9
MSD_201601260315	Dichloromethane	ND	10	10.4	ug/L	104	(70-130)	20	0.96
LCS1	Di-isopropyl ether		5	4.81	ug/L	96	(70-130)		

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Laboratory QC
Report: 572745

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Di-isopropyl ether		5	4.95	ug/L	99	(70-130)	20	2.9
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.520	ug/L	104	(50-150)		
MS_201601260315	Di-isopropyl ether	ND	10	10.8	ug/L	108	(70-130)		
MS_201601260328	Di-isopropyl ether	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260328	Di-isopropyl ether	ND	10	10.8	ug/L	108	(70-130)	20	0.0
MSD_201601260315	Di-isopropyl ether	ND	10	10.9	ug/L	109	(70-130)	20	0.92
LCS1	Ethyl benzene		5	4.37	ug/L	87	(70-130)		
LCS2	Ethyl benzene		5	4.48	ug/L	90	(70-130)	20	2.5
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.410	ug/L	82	(50-150)		
MS_201601260328	Ethyl benzene	ND	10	9.99	ug/L	100	(70-130)		
MS_201601260315	Ethyl benzene	ND	10	10.7	ug/L	107	(70-130)		
MSD_201601260328	Ethyl benzene	ND	10	10.3	ug/L	103	(70-130)	20	3.1
MSD_201601260315	Ethyl benzene	ND	10	10.7	ug/L	107	(70-130)	20	0.0
LCS1	Hexachlorobutadiene		5	4.29	ug/L	86	(70-130)		
LCS2	Hexachlorobutadiene		5	4.73	ug/L	95	(70-130)	20	9.8
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.540	ug/L	108	(50-150)		
MS_201601260328	Hexachlorobutadiene	ND	10	9.53	ug/L	95	(70-130)		
MS_201601260315	Hexachlorobutadiene	ND	10	9.87	ug/L	99	(70-130)		
MSD_201601260328	Hexachlorobutadiene	ND	10	9.66	ug/L	97	(70-130)	20	1.4
MSD_201601260315	Hexachlorobutadiene	ND	10	10.2	ug/L	102	(70-130)	20	3.3
LCS1	Isopropylbenzene		5	4.12	ug/L	82	(70-130)		
LCS2	Isopropylbenzene		5	4.60	ug/L	92	(70-130)	20	11
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.390	ug/L	78	(50-150)		
MS_201601260315	Isopropylbenzene	ND	10	10.9	ug/L	109	(70-130)		
MS_201601260328	Isopropylbenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260328	Isopropylbenzene	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260315	Isopropylbenzene	ND	10	10.6	ug/L	106	(70-130)	20	2.8
LCS1	m,p-Xylenes		10	8.92	ug/L	89	(70-130)		
LCS2	m,p-Xylenes		10	9.26	ug/L	93	(70-130)	20	3.7
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.790	ug/L	79	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.380	ug/L	76	(50-150)		
MS_201601260328	m,p-Xylenes	ND	20	21.1	ug/L	105	(70-130)		
MS_201601260315	m,p-Xylenes	ND	20	22.6	ug/L	113	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201601260315	m,p-Xylenes	ND	20	22.4	ug/L	112	(70-130)	20	1.3
MSD_201601260328	m,p-Xylenes	ND	20	21.2	ug/L	106	(70-130)	20	0.47
LCS1	m-Dichlorobenzene (1,3-DCB)		5	4.50	ug/L	90	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	4.75	ug/L	95	(70-130)	20	5.4
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.480	ug/L	96	(50-150)		
MS_201601260315	m-Dichlorobenzene (1,3-DCB)	ND	10	10.7	ug/L	107	(70-130)		
MS_201601260328	m-Dichlorobenzene (1,3-DCB)	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260328	m-Dichlorobenzene (1,3-DCB)	ND	10	10.1	ug/L	101	(70-130)	20	0.99
MSD_201601260315	m-Dichlorobenzene (1,3-DCB)	ND	10	10.1	ug/L	101	(70-130)	20	5.8
LCS1	Methyl Tert-butyl ether (MTBE)		5	4.93	ug/L	99	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	5.06	ug/L	101	(70-130)	20	2.6
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.520	ug/L	104	(50-150)		
MS_201601260328	Methyl Tert-butyl ether (MTBE)	ND	10	10.4	ug/L	105	(70-130)		
MS_201601260315	Methyl Tert-butyl ether (MTBE)	ND	10	10.6	ug/L	104	(70-130)		
MSD_201601260315	Methyl Tert-butyl ether (MTBE)	ND	10	10.7	ug/L	105	(70-130)	20	0.94
MSD_201601260328	Methyl Tert-butyl ether (MTBE)	ND	10	10.6	ug/L	106	(70-130)	20	0.95
LCS1	Naphthalene		5	5.04	ug/L	101	(70-130)		
LCS2	Naphthalene		5	5.16	ug/L	103	(70-130)	20	2.4
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.530	ug/L	106	(50-150)		
MS_201601260328	Naphthalene	ND	10	10.1	ug/L	101	(70-130)		
MS_201601260315	Naphthalene	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260328	Naphthalene	ND	10	10.2	ug/L	102	(70-130)	20	0.99
MSD_201601260315	Naphthalene	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	n-Butylbenzene		5	4.46	ug/L	89	(70-130)		
LCS2	n-Butylbenzene		5	4.94	ug/L	99	(70-130)	20	10
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.460	ug/L	92	(50-150)		
MS_201601260328	n-Butylbenzene	ND	10	9.63	ug/L	96	(70-130)		
MS_201601260315	n-Butylbenzene	ND	10	10.5	ug/L	105	(70-130)		
MSD_201601260315	n-Butylbenzene	ND	10	10.6	ug/L	106	(70-130)	20	0.95
MSD_201601260328	n-Butylbenzene	ND	10	9.90	ug/L	99	(70-130)	20	2.8
LCS1	n-Propylbenzene		5	4.18	ug/L	84	(70-130)		
LCS2	n-Propylbenzene		5	4.67	ug/L	93	(70-130)	20	11
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.370	ug/L	74	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201601260328	n-Propylbenzene	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260315	n-Propylbenzene	ND	10	11.6	ug/L	116	(70-130)		
MSD_201601260315	n-Propylbenzene	ND	10	11.0	ug/L	110	(70-130)	20	5.3
MSD_201601260328	n-Propylbenzene	ND	10	10.6	ug/L	106	(70-130)	20	1.9
LCS1	o-Chlorotoluene		5	4.52	ug/L	90	(70-130)		
LCS2	o-Chlorotoluene		5	4.88	ug/L	98	(70-130)	20	7.7
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.480	ug/L	96	(50-150)		
MS_201601260328	o-Chlorotoluene	ND	10	10.5	ug/L	105	(70-130)		
MS_201601260315	o-Chlorotoluene	ND	10	10.7	ug/L	107	(70-130)		
MSD_201601260315	o-Chlorotoluene	ND	10	10.4	ug/L	104	(70-130)	20	2.8
MSD_201601260328	o-Chlorotoluene	ND	10	10.4	ug/L	103	(70-130)	20	0.96
LCS1	o-Dichlorobenzene (1,2-DCB)		5	4.73	ug/L	95	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.80	ug/L	96	(70-130)	20	1.5
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.460	ug/L	92	(50-150)		
MS_201601260328	o-Dichlorobenzene (1,2-DCB)	ND	10	9.37	ug/L	94	(70-130)		
MS_201601260315	o-Dichlorobenzene (1,2-DCB)	ND	10	9.95	ug/L	100	(70-130)		
MSD_201601260328	o-Dichlorobenzene (1,2-DCB)	ND	10	9.60	ug/L	96	(70-130)	20	2.4
MSD_201601260315	o-Dichlorobenzene (1,2-DCB)	ND	10	9.94	ug/L	99	(70-130)	20	0.10
LCS1	o-Xylene		5	4.66	ug/L	93	(70-130)		
LCS2	o-Xylene		5	4.79	ug/L	96	(70-130)	20	2.8
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.420	ug/L	84	(50-150)		
MS_201601260328	o-Xylene	ND	10	10.8	ug/L	108	(70-130)		
MS_201601260315	o-Xylene	ND	10	11.2	ug/L	112	(70-130)		
MSD_201601260328	o-Xylene	ND	10	10.6	ug/L	106	(70-130)	20	1.9
MSD_201601260315	o-Xylene	ND	10	11.2	ug/L	112	(70-130)	20	0.0
LCS1	p-Chlorotoluene		5	4.58	ug/L	92	(70-130)		
LCS2	p-Chlorotoluene		5	4.82	ug/L	96	(70-130)	20	5.1
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260315	p-Chlorotoluene	ND	10	11.3	ug/L	113	(70-130)		
MS_201601260328	p-Chlorotoluene	ND	10	10.9	ug/L	109	(70-130)		
MSD_201601260315	p-Chlorotoluene	ND	10	10.9	ug/L	109	(70-130)	20	3.6
MSD_201601260328	p-Chlorotoluene	ND	10	10.5	ug/L	105	(70-130)	20	3.7
LCS1	p-Dichlorobenzene (1,4-DCB)		5	4.38	ug/L	88	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	4.64	ug/L	93	(70-130)	20	5.8

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	p-Dichlorobenzene (1,4-DCB)	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	p-Dichlorobenzene (1,4-DCB)	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260328	p-Dichlorobenzene (1,4-DCB)	ND	10	10.0	ug/L	101	(70-130)	20	0.99
MSD_201601260315	p-Dichlorobenzene (1,4-DCB)	ND	10	10.2	ug/L	102	(70-130)	20	0.97
LCS1	p-Isopropyltoluene		5	4.60	ug/L	92	(70-130)		
LCS2	p-Isopropyltoluene		5	4.99	ug/L	100	(70-130)	20	8.1
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.410	ug/L	82	(50-150)		
MS_201601260328	p-Isopropyltoluene	ND	10	11.4	ug/L	114	(70-130)		
MS_201601260315	p-Isopropyltoluene	ND	10	11.9	ug/L	119	(70-130)		
MSD_201601260328	p-Isopropyltoluene	ND	10	11.2	ug/L	112	(70-130)	20	1.8
MSD_201601260315	p-Isopropyltoluene	ND	10	11.6	ug/L	116	(70-130)	20	2.5
LCS1	sec-Butylbenzene		5	4.51	ug/L	90	(70-130)		
LCS2	sec-Butylbenzene		5	5.05	ug/L	101	(70-130)	20	11
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.400	ug/L	80	(50-150)		
MS_201601260315	sec-Butylbenzene	ND	10	11.7	ug/L	117	(70-130)		
MS_201601260328	sec-Butylbenzene	ND	10	11.6	ug/L	116	(70-130)		
MSD_201601260315	sec-Butylbenzene	ND	10	11.6	ug/L	116	(70-130)	20	0.86
MSD_201601260328	sec-Butylbenzene	ND	10	11.1	ug/L	111	(70-130)	20	4.4
LCS1	Styrene		5	4.75	ug/L	95	(70-130)		
LCS2	Styrene		5	4.75	ug/L	95	(70-130)	20	0.0
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.400	ug/L	80	(50-150)		
MS_201601260328	Styrene	ND	10	7.28	ug/L	73	(70-130)		
MS_201601260315	Styrene	ND	10	9.33	ug/L	93	(70-130)		
MSD_201601260328	Styrene	ND	10	7.88	ug/L	79	(70-130)	20	7.9
MSD_201601260315	Styrene	ND	10	9.58	ug/L	96	(70-130)	20	2.6
LCS1	tert-amyl Methyl Ether		5	4.67	ug/L	93	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.81	ug/L	96	(70-130)	20	3.0
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	tert-amyl Methyl Ether	ND	10	10.3	ug/L	103	(70-130)		
MS_201601260328	tert-amyl Methyl Ether	ND	10	10.1	ug/L	101	(70-130)		
MSD_201601260328	tert-amyl Methyl Ether	ND	10	10.2	ug/L	102	(70-130)	20	0.99
MSD_201601260315	tert-amyl Methyl Ether	ND	10	10.6	ug/L	106	(70-130)	20	2.9

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	tert-Butyl Ethyl Ether		5	4.93	ug/L	99	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	5.11	ug/L	102	(70-130)	20	3.6
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.520	ug/L	104	(50-150)		
MS_201601260328	tert-Butyl Ethyl Ether	ND	10	10.5	ug/L	105	(70-130)		
MS_201601260315	tert-Butyl Ethyl Ether	ND	10	10.6	ug/L	106	(70-130)		
MSD_201601260315	tert-Butyl Ethyl Ether	ND	10	10.8	ug/L	108	(70-130)	20	1.9
MSD_201601260328	tert-Butyl Ethyl Ether	ND	10	10.8	ug/L	108	(70-130)	20	2.8
LCS1	tert-Butylbenzene		5	4.37	ug/L	87	(70-130)		
LCS2	tert-Butylbenzene		5	5.01	ug/L	100	(70-130)	20	14
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	tert-Butylbenzene	ND	10	11.9	ug/L	119	(70-130)		
MS_201601260328	tert-Butylbenzene	ND	10	11.4	ug/L	114	(70-130)		
MSD_201601260315	tert-Butylbenzene	ND	10	11.6	ug/L	116	(70-130)	20	2.5
MSD_201601260328	tert-Butylbenzene	ND	10	11.3	ug/L	113	(70-130)	20	0.88
LCS1	Tetrachloroethylene (PCE)		5	4.23	ug/L	85	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.59	ug/L	92	(70-130)	20	8.2
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.450	ug/L	90	(50-150)		
MS_201601260328	Tetrachloroethylene (PCE)	ND	10	9.65	ug/L	97	(70-130)		
MS_201601260315	Tetrachloroethylene (PCE)	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260315	Tetrachloroethylene (PCE)	ND	10	10.5	ug/L	105	(70-130)	20	2.8
MSD_201601260328	Tetrachloroethylene (PCE)	ND	10	9.75	ug/L	98	(70-130)	20	1.0
LCS1	Toluene		5	4.47	ug/L	89	(70-130)		
LCS2	Toluene		5	4.71	ug/L	94	(70-130)	20	5.2
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260315	Toluene	ND	10	10.7	ug/L	107	(70-130)		
MS_201601260328	Toluene	ND	10	9.79	ug/L	98	(70-130)		
MSD_201601260328	Toluene	ND	10	10.1	ug/L	101	(70-130)	20	3.1
MSD_201601260315	Toluene	ND	10	10.6	ug/L	106	(70-130)	20	0.94
LCS1	Toluene-d8 (S)			99.8	%	100	(70-130)		
LCS2	Toluene-d8 (S)			98.2	%	98	(70-130)		
MBLK	Toluene-d8 (S)			90.6	%	91	(70-130)		
MRL_CHK	Toluene-d8 (S)			92.6	%	93	(70-130)		
MRLLW	Toluene-d8 (S)			89.6	%	90	(70-130)		
MS_201601260328	Toluene-d8 (S)			100	%	100	(70-130)		

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Laboratory QC
Report: 572745

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201601260315	Toluene-d8 (S)			101	%	101	(70-130)		
MSD_201601260328	Toluene-d8 (S)			101	%	101	(70-130)		
MSD_201601260315	Toluene-d8 (S)			99.2	%	99	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	4.76	ug/L	95	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	4.92	ug/L	98	(70-130)	20	3.3
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.520	ug/L	104	(50-150)		
MS_201601260328	trans-1,2-Dichloroethylene	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260315	trans-1,2-Dichloroethylene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260328	trans-1,2-Dichloroethylene	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260315	trans-1,2-Dichloroethylene	ND	10	10.7	ug/L	107	(70-130)	20	2.8
LCS1	trans-1,3-Dichloropropene		5	4.55	ug/L	91	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	4.60	ug/L	92	(70-130)	20	1.1
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260328	trans-1,3-Dichloropropene	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260315	trans-1,3-Dichloropropene	ND	10	11.2	ug/L	112	(70-130)		
MSD_201601260328	trans-1,3-Dichloropropene	ND	10	11.1	ug/L	111	(70-130)	20	4.6
MSD_201601260315	trans-1,3-Dichloropropene	ND	10	10.9	ug/L	109	(70-130)	20	2.7
LCS1	Trichloroethylene (TCE)		5	4.63	ug/L	93	(70-130)		
LCS2	Trichloroethylene (TCE)		5	4.92	ug/L	98	(70-130)	20	6.1
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	Trichloroethylene (TCE)	2.9	10	13.9	ug/L	109	(70-130)		
MS_201601260328	Trichloroethylene (TCE)	0.90	10	11.2	ug/L	102	(70-130)		
MSD_201601260315	Trichloroethylene (TCE)	2.9	10	13.5	ug/L	105	(70-130)	20	2.9
MSD_201601260328	Trichloroethylene (TCE)	0.90	10	11.2	ug/L	103	(70-130)	20	0.0
LCS1	Trichlorofluoromethane		5	4.01	ug/L	80	(70-130)		
LCS2	Trichlorofluoromethane		5	4.85	ug/L	97	(70-130)	20	19
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.470	ug/L	94	(50-150)		
MS_201601260328	Trichlorofluoromethane	ND	10	11.4	ug/L	114	(70-130)		
MS_201601260315	Trichlorofluoromethane	ND	10	11.4	ug/L	114	(70-130)		
MSD_201601260315	Trichlorofluoromethane	ND	10	11.7	ug/L	117	(70-130)	20	2.6
MSD_201601260328	Trichlorofluoromethane	ND	10	11.5	ug/L	115	(70-130)	20	0.87
LCS1	Trichlorotrifluoroethane(Freon		5	3.98	ug/L	80	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	4.70	ug/L	94	(70-130)	20	17
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	Trichlorotrifluoroethane(Freon	ND	10	10.9	ug/L	109	(70-130)		
MS_201601260328	Trichlorotrifluoroethane(Freon	ND	10	10.4	ug/L	103	(70-130)		
MSD_201601260328	Trichlorotrifluoroethane(Freon	ND	10	10.8	ug/L	108	(70-130)	20	3.8
MSD_201601260315	Trichlorotrifluoroethane(Freon	ND	10	11.0	ug/L	110	(70-130)	20	0.91
LCS1	Vinyl chloride (VC)		5	4.74	ug/L	95	(70-130)		
LCS2	Vinyl chloride (VC)		5	5.43	ug/L	109	(70-130)	20	14
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.490	ug/L	98	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.240	ug/L	96	(50-150)		
MS_201601260328	Vinyl chloride (VC)	ND	10	11.0	ug/L	110	(70-130)		
MS_201601260315	Vinyl chloride (VC)	ND	10	11.0	ug/L	110	(70-130)		
MSD_201601260315	Vinyl chloride (VC)	ND	10	11.2	ug/L	112	(70-130)	20	1.8
MSD_201601260328	Vinyl chloride (VC)	ND	10	11.2	ug/L	112	(70-130)	20	1.8
QC Ref# 892896 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 02/22/2016**			
CCCH	1,4-Dioxane		50	47.5	ug/L	95	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0780	ug/L	111	(50-150)		
CCCM	1,4-Dioxane		20	19.5	ug/L	97	(70-130)		
LCS1	1,4-Dioxane		20	19.1	ug/L	96	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0730	ug/L	104	(50-150)		
MS1_201602170756	1,4-Dioxane	ND	0.07	0.0790	ug/L	84	(50-150)		
MSD1_201602170756	1,4-Dioxane	ND	0.07	0.0730	ug/L	76	(50-150)	20	7.9
CCCH	Dioxane-d8			96.4	%	96	(70-130)		
CCCL	Dioxane-d8			98.5	%	99	(70-130)		
CCCM	Dioxane-d8			98.9	%	99	(70-130)		
LCS1	Dioxane-d8			106	%	106	(70-130)		
MBLK	Dioxane-d8			113	%				
MRL_CHK	Dioxane-d8			91.4	%	91	(70-130)		
MS1_201602170756	Dioxane-d8	85		91.1	%	91	(70-130)		
MSD1_201602170756	Dioxane-d8	85		93.8	%	94	(70-130)		
CCCH	THF-d8			103	%	103	(50-150)		
CCCL	THF-d8			105	%	105	(50-150)		
CCCM	THF-d8			108	%	109	(50-150)		
LCS1	THF-d8			110	%	110	(50-150)		
MBLK	THF-d8			109	%				
MRL_CHK	THF-d8			120	%	120	(50-150)		
MS1_201602170756	THF-d8	128		125	%	125	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD1_201602170756	THF-d8	128		106	%	106	(50-150)		
QC Ref# 895213 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 03/03/2016**			
CCCH	1,4-Dioxane		50	48.5	ug/L	97	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0690	ug/L	99	(50-150)		
LCS1	1,4-Dioxane		20	16.3	ug/L	82	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0660	ug/L	94	(50-150)		
MS1_201601260315	1,4-Dioxane	0.10	0.07	0.149	ug/L	69	(50-150)		
MSD1_201601260315	1,4-Dioxane	0.10	0.07	0.164	ug/L	90	(50-150)	20	9.6
CCCH	Dioxane-d8			96.4	%	96	(70-130)		
CCCL	Dioxane-d8			95.2	%	95	(70-130)		
LCS1	Dioxane-d8			83.3	%	83	(70-130)		
MBLK	Dioxane-d8			80.8	%				
MRL_CHK	Dioxane-d8			83.9	%	84	(70-130)		
MS1_201601260315	Dioxane-d8	84		81.5	%	81	(70-130)		
MSD1_201601260315	Dioxane-d8	84		90.6	%	91	(70-130)		
CCCH	THF-d8			103	%	103	(50-150)		
CCCL	THF-d8			104	%	104	(50-150)		
LCS1	THF-d8			106	%	106	(50-150)		
MBLK	THF-d8			111	%				
MRL_CHK	THF-d8			97.6	%	98	(50-150)		
MS1_201601260315	THF-d8	109		99.3	%	99	(50-150)		
MSD1_201601260315	THF-d8	109		105	%	105	(50-150)		

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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
03/14/2016

Eurofins Eaton Analytical

TDF: Thomas.D.French

Project Manager

NELAP ACCREDITED TNI LABORATORY ORELAP 4034

Report: 572747
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
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Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2016
California-Monrovia-ELAP	2813	**New Hampshire ***	2959
California-Colton- ELAP	2812	**New Jersey ***	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
California-Fresno- ELAP	2966	**New York ***	11320
Colorado	Certified	**North Carolina**	06701
Connecticut	PH-0107	**North Dakota**	R-009
Delaware	CA 006	**Oregon (Primary AB) ***	**ORELAP 4034**
Florida *	E871024	**Pennsylvania ***	68-565
Georgia	947	**Rhode Island**	LAO00326
Guam	15-003r	**South Carolina**	87016
Hawaii	Certified	**South Dakota**	Certified
Idaho	Certified	**Tennessee**	TN02839
Illinois *	200033	**Texas ***	T104704230-14-7
Indiana	C-CA-01	**Utah ***	CA000062015-8
Kansas *	E-10268	**Vermont**	VT0114
Kentucky	90107	**Virginia ***	460260
Louisiana *	LA16003	**Washington**	C838
Maine	CA0006	**West Virginia**	9943 C
Maryland	224	**----------**	**----------**
Commonwealth of Northern Marianas Is.	MP0004	**Wyoming**	8TMS-L
Massachusetts	M-CA006	**EPA Region 5**	Certified
Michigan	9906	**Los Angeles County Sanitation Districts**	10264

* NELAP/TNI Recognized Accreditation Bodies

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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/ANAB.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		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	x	
Bicarbonate Alkalinity as HCO3	SM 2320B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	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 Residua	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
Cryptosporidium	EPA 1622, 1623	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 (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		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 (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	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
Giardia	EPA 1623	x		x
Glyphosate	EPA 547	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	CDC Legionella	x		x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	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	x
Ortho Phosphate	SM 4500P E			x
Ortho Phosphorous	SM 4500P E	x		
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	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, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	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
Silica	SM 4500-Si D	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 (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure (2346)	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	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 E		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
VOC	EPA SW 846 8260	x		x
VOC	In House Method (2411)	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 001 Issued: 09/04/2015

Acknowledgement of Samples Received

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

Client ID: PIMA-AZ
Folder #: 572747
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 18, 2016** at **1239**. 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
201601260320	2016-PW-13-01			02/17/2016 0900
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
	Sample Return			
201601260322	2016-PW-13-02			02/17/2016 0926
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260323	2016-PW-13-02F			02/17/2016 0937
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260324	2016-PW-14-01			02/17/2016 1011
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260325	2016-PW-14-02			02/17/2016 1028
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260326	2016-PW-14-02D			02/17/2016 1033
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260327	2016-PW-20-01			02/17/2016 1100
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260328	2016-PW-20-02			02/17/2016 1120
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260329	2016-PW-20-02 MS			02/17/2016 1124
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260330	2016-PW-20-02 MSD			02/17/2016 1130
	@UCMR3 522	@VOASDWA	Chromium Total ICAP/MS	
201601260321	2015-TB-02			02/17/2016 0900
	@VOASDWA TB	Temperature Blank deg C		

Test Description

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

@VOASDWA -- Volatile Organics by GCMS

Acknowledgement of Samples Received

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

Client ID: PIMA-AZ
Folder #: 572747
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 18, 2016** at **1239**. 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
	@VOASDWA TB -- Volatile Organics by GCMS	

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CHAIN OF CUSTODY RECORD

572417

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: W 1506

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 0.4 °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 Envir. 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: PIMA-AZ

COC ID:

SAMPLE GROUP: Groundwater/Day 2

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 EPA200.8	VOC EPA 524.2	1,4-D EPA 522									SAMPLER COMMENTS
2/17	9:00	2016-PW-13-01		RGW			✓	✓	✓									
2/17	9:26	2016-PW-13-02		"			✓	✓	✓									
2/17	9:37	2016-PW-13-02F		"			✓	✓	✓									
2/17	10:11	2016-PW-14-01		"			✓	✓	✓									
2/17	10:28	2016-PW-14-02		"			✓	✓	✓									

FedEx
TRK# 0221 6632 2410 2801
THU – 18 FEB 3:00P
STANDARD OVERNIGHT
XH WHPA
91016
CA-US BUR

*** MATRIX TYPES:** **RSW** = Raw Surface Water **CFW** = Chlor(am)inated Finished Water **SEAW** = Sea W[illegible] **SU** = 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	PCDEQ/Hydrologist	2/17/16	9:00
RELINQUISHED BY:	Marie Light	MARIE LIGHT	PCDEQ/Hydrologist	2/17/16	13:09
RECEIVED BY:	[illegible]	H. Ojeda	EEA	2/18/16	1239
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029 (06/26/2013)

PAGE ____ OF ____

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Kit Order for Pima County DEQ

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

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

Note: Sampler Please return this paper with your samples

Kit #: 130073

Created By: Thomas.D.French - [TDF]
Deliver By: 02/11/2016
STG: Bottle Orders
Ice Type: W
Pre Registered

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 85701-1429

USA
Attn: Marie Light
Phone: 520-724-7457
Fax: 520-838-7432

Send Report to
Pima County DEQ
33 N. Stone Avenue, Suite 700
Tucson, AZ 85701-1429

USA
Attn: Marie Light
Phone: 520-724-7457
Fax: 520-838-7432

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

USA
Attn: Marie Light
Phone: 520-724-7457
Fax: 520-838-7432

# of Sample	Tests	Bottle Qty - Type [preservative information]	UN DOT #
10	@UCMR3 522	3 - 125ml amber glass [6.25 Sulfite +125 mg Bisulfite]	
1	Temperature Blank deg C	1 - 125ml poly [no preservative + H20]	
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 02/12/16.

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

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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: _____

SAMPLES CHECKED AGAINST COC BY: W 1514

SAMPLES LOGGED IN BY: _____

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

SAMPLE TEMP RECEIVED AT:
☐ Colton / No. California / Arizona ____ °C (Compliance: 4 ± 2 °C)
☑ Monrovia 3.3 °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 Enviro Quality

PROJECT CODE: PCDEQ-GW

EEA CLIENT CODE: PIMA-AZ

COC ID:

SAMPLE GROUP: Groundwater / Day 2

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

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)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	G EPA200.8	VOC EPA524.2	HD EPA522	SAMPLER COMMENTS
2/17	10:33	2016-PW-14-02D		RGW			✓	✓	✓	
2/17	11:00	2016-PW-20-01		"			✓	✓	✓	
2/17	11:20	2016-PW-20-02		"			✓	✓	✓	
2/17	11:24	2016-PW-20-02MS		"			✓	✓	✓	
2/17	11:30	2016-PW-20-02MSD		"			✓	✓	✓	

TRK# 0221 6632 2410 3153 RETURNS MON-FRI STANDARD OVERNIGHT

FedEx TRK# 0221 6632 2410 3153 THU - 18 FEB 3:00PM STANDARD OVERNIGHT

XH WHPA 91016 CA-US BUR

* 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	PCDEQ/ Hydrologist	2/17/16	10:33
RELINQUISHED BY:	Marie Light	MARIE LIGHT	PCDEQ/ Hydrologist	2/17/16	13:09
RECEIVED BY:	[illegible]	Victor Hernandez	EEA	2/18/16	1232
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0029 (06/26/2013)

PAGE ____ OF ____

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

Laboratory Comments
Report: 572747

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.

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: 572747

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

Samples Received on:
02/18/2016 1239

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201601260320	**2016-PW-13-01**				
02/22/2016 23:17	1,4-Dioxane		1.6		ug/L	0.07
02/19/2016 11:07	Chromium Total ICAP/MS		5.8	100	ug/L	1
02/20/2016 0:43	Trichloroethylene (TCE)		1.4	5	ug/L	0.5
	201601260321	**2015-TB-02**				
02/18/2016 00:00	Temperature Blank deg C		0.4		DEGC	0.1
	201601260322	**2016-PW-13-02**				
02/22/2016 23:31	1,4-Dioxane		1.4		ug/L	0.07
02/19/2016 11:08	Chromium Total ICAP/MS		5.6	100	ug/L	1
02/19/2016 21:28	Trichloroethylene (TCE)		1.2	5	ug/L	0.5
	201601260323	**2016-PW-13-02F**				
02/19/2016 22:11	Chloroform (Trichloromethane)		1.9		ug/L	0.5
02/19/2016 22:11	Total THM		1.9	80	ug/L	0.5
	201601260324	**2016-PW-14-01**				
03/02/2016 19:49	1,4-Dioxane		2.5		ug/L	0.07
02/19/2016 11:11	Chromium Total ICAP/MS		6.8	100	ug/L	1
02/20/2016 0:00	Trichloroethylene (TCE)		0.64	5	ug/L	0.5
	201601260325	**2016-PW-14-02**				
03/02/2016 20:02	1,4-Dioxane		2.7		ug/L	0.07
02/19/2016 11:12	Chromium Total ICAP/MS		16	100	ug/L	1
02/22/2016 19:04	Trichloroethylene (TCE)		2.1	5	ug/L	0.5
	201601260326	**2016-PW-14-02D**				
03/02/2016 20:16	1,4-Dioxane		2.4		ug/L	0.07
02/19/2016 11:12	Chromium Total ICAP/MS		14	100	ug/L	1
02/20/2016 0:22	Trichloroethylene (TCE)		1.6	5	ug/L	0.5
	201601260327	**2016-PW-20-01**				
03/02/2016 20:30	1,4-Dioxane		1.0		ug/L	0.07
02/19/2016 21:49	Bromoform		1.1		ug/L	0.5
02/19/2016 11:13	Chromium Total ICAP/MS		1.5	100	ug/L	1
02/19/2016 21:49	Total THM		1.1	80	ug/L	0.5
02/19/2016 21:49	Trichloroethylene (TCE)		0.81	5	ug/L	0.5
	201601260328	**2016-PW-20-02**				
03/02/2016 20:44	1,4-Dioxane		1.2		ug/L	0.07
02/19/2016 16:11	Chromium Total ICAP/MS		4.1	100	ug/L	1

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 Hits
Report: 572747

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

Samples Received on:
02/18/2016 1239

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
02/19/2016 22:33	Trichloroethylene (TCE)		0.90	5	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: 572747

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

Samples Received on:
02/18/2016 1239

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2016-PW-13-01 (201601260320)						**Sampled on 02/17/2016 0900**		
		EPA 200.8 - ICPMS Metals						
2/19/2016	02/19/2016 11:07	892048	(EPA 200.8)	Chromium Total ICAP/MS	5.8	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
2/21/2016	02/22/2016 23:17	892896	(EPA 522)	1,4-Dioxane	1.6	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS						
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016 0:43	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1

Rounding on totals after summation.
(c) - indicates calculated 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 Data
Report: 572747

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

Samples Received on:
02/18/2016 1239

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 572747

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

Samples Received on:
02/18/2016 1239

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Trichloroethylene (TCE)	1.4	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:43	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

2015-TB-02 (201601260321) **Sampled on 02/17/2016 0900**

EPA 524.2 - Volatile Organics by GCMS

2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1

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Samples Received on:
02/18/2016 1239

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 23:38	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1

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02/18/2016 1239

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	23:38	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2016-PW-13-02 (201601260322)							**Sampled on**	**02/17/2016 0926**	
		EPA 200.8 - ICPMS Metals							
2/19/2016	02/19/2016	11:08	892048	(EPA 200.8)	Chromium Total ICAP/MS	5.6	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/21/2016	02/22/2016	23:31	892896	(EPA 522)	1,4-Dioxane	1.4	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1

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2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:28	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 572747

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

Samples Received on:
02/18/2016 1239

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Trichloroethylene (TCE)	1.2	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:28	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2016-PW-13-02F (201601260323)							**Sampled on**	**02/17/2016 0937**	
		EPA 200.8 - ICPMS Metals							
2/19/2016	02/19/2016	11:10	892048	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/21/2016	02/22/2016	23:45	892896	(EPA 522)	1,4-Dioxane	ND	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1

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2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Chloroform (Trichloromethane)	1.9	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016 22:11	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1

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2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Total THM	1.9	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:11	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2016-PW-14-01 (201601260324)							**Sampled on**	**02/17/2016 1011**	
		EPA 200.8 - ICPMS Metals							
2/19/2016	02/19/2016	11:11	892048	(EPA 200.8)	Chromium Total ICAP/MS	6.8	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/29/2016	03/02/2016	19:49	895004	(EPA 522)	1,4-Dioxane	2.5	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1

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2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 572747

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

Samples Received on:
02/18/2016 1239

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Trichloroethylene (TCE)	0.64	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:00	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2016-PW-14-02 (201601260325)							**Sampled on**	**02/17/2016 1028**	
		EPA 200.8 - ICPMS Metals							
2/19/2016	02/19/2016	11:12	892048	(EPA 200.8)	Chromium Total ICAP/MS	16	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/29/2016	03/02/2016	20:02	895004	(EPA 522)	1,4-Dioxane	2.7	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(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
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Bromoethane	ND (L3)	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND (L3)	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1

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02/18/2016 1239

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Trichloroethylene (TCE)	2.1	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/22/2016	02/22/2016	19:04	892804	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1
2016-PW-14-02D (201601260326)							**Sampled on**	**02/17/2016 1033**	
		EPA 200.8 - ICPMS Metals							
2/19/2016	02/19/2016	11:12	892048	(EPA 200.8)	Chromium Total ICAP/MS	14	ug/L	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522							
2/29/2016	03/02/2016	20:16	895004	(EPA 522)	1,4-Dioxane	2.4	ug/L	0.07	1
		EPA 524.2 - Volatile Organics by GCMS							
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1

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2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1

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Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Trichloroethylene (TCE)	1.6	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/20/2016	0:22	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

2016-PW-20-01 (201601260327) **Sampled on 02/17/2016 1100**

EPA 200.8 - ICPMS Metals

2/19/2016	02/19/2016	11:13	892048	(EPA 200.8)	Chromium Total ICAP/MS	1.5	ug/L	1	1

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

2/29/2016	03/02/2016	20:30	895004	(EPA 522)	1,4-Dioxane	1.0	ug/L	0.07	1

EPA 524.2 - Volatile Organics by GCMS

2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 572747

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

Samples Received on:
02/18/2016 1239

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Bromoform	1.1	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 21:49	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1

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Laboratory Data
Report: 572747

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

Samples Received on:
02/18/2016 1239

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Total THM	1.1	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Trichloroethylene (TCE)	0.81	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	21:49	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

2016-PW-20-02 (201601260328) **Sampled on 02/17/2016 1120**

EPA 200.8 - ICPMS Metals

2/19/2016	02/19/2016	16:11	892076	(EPA 200.8)	Chromium Total ICAP/MS	4.1	ug/L	1	1

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

2/29/2016	03/02/2016	20:44	895004	(EPA 522)	1,4-Dioxane	1.2	ug/L	0.07	1

EPA 524.2 - Volatile Organics by GCMS

2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1

Rounding on totals after summation.
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Laboratory Data
Report: 572747

Pima County DEQ
Marie Light
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Tucson, AZ 85701-1429

Samples Received on:
02/18/2016 1239

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Bromobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Bromodichloromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Bromoethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Bromoform	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Carbon disulfide	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Chlorodibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Chloroethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Dibromomethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016 22:33	892554	(EPA 524.2)	Dichloromethane	ND	ug/L	0.5	1

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Samples Received on:
02/18/2016 1239

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Naphthalene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	o-Xylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Styrene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Toluene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Total THM	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Total xylenes	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Trichloroethylene (TCE)	0.90	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.5	1
2/19/2016	02/19/2016	22:33	892554	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.3	1

2016-PW-20-02 MS (201601260329) **Sampled on 02/17/2016 1124**

EPA 200.8 - ICPMS Metals

2/19/2016	02/19/2016	16:14	892076	(EPA 200.8)	Chromium Total ICAP/MS	107	%	1	1

Rounding on totals after summation.
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Laboratory Data
Report: 572747

Pima County DEQ
Marie Light
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Tucson, AZ 85701-1429

Samples Received on:
02/18/2016 1239

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
2/29/2016	03/02/2016 19:21	895004	(EPA 522)	1,4-Dioxane	88	%	0.07	1
		EPA 524.2 - Volatile Organics by GCMS						
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	101	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,1,1-Trichloroethane	102	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	104	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,1,2-Trichloroethane	96	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,1-Dichloroethane	107	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,1-Dichloroethylene	107	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,1-Dichloropropene	98	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	100	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,2,3-Trichloropropane	103	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	98	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	108	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,2-Dichloroethane	99	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,2-Dichloropropane	102	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	118	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	1,3-Dichloropropane	97	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	2,2-Dichloropropane	110	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	2-Butanone (MEK)	102	%	5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	107	%	5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Benzene	100	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Bromobenzene	101	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Bromochloromethane	104	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Bromodichloromethane	96	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Bromoethane	104	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Bromoform	106	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	126	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Carbon disulfide	106	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Carbon Tetrachloride	104	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Chlorobenzene	98	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Chlorodibromomethane	102	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Chloroethane	113	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Chloroform (Trichloromethane)	85	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	103	%	0.5	1
2/19/2016	02/19/2016 22:54	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	106	%	0.5	1

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Samples Received on:
02/18/2016 1239

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	cis-1,3-Dichloropropene	106	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Dibromomethane	100	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Dichlorodifluoromethane	91	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Dichloromethane	106	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Di-isopropyl ether	108	%	3	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Ethyl benzene	100	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Hexachlorobutadiene	95	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Isopropylbenzene	104	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	m,p-Xylenes	105	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	102	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	104	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Naphthalene	101	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	n-Butylbenzene	96	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	n-Propylbenzene	104	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	o-Chlorotoluene	105	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	94	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	o-Xylene	108	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	p-Chlorotoluene	109	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	102	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	p-Isopropyltoluene	114	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	sec-Butylbenzene	116	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Styrene	73	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	tert-amyl Methyl Ether	101	%	3	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	105	%	3	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	tert-Butylbenzene	114	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	97	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Toluene	98	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Total 1,3-Dichloropropene	100	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Total THM	96	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Total xylenes	107	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	104	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	trans-1,3-Dichloropropene	106	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Trichloroethylene (TCE)	103	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Trichlorofluoromethane	114	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	104	%	0.5	1
2/19/2016	02/19/2016	22:54	892554	(EPA 524.2)	Vinyl chloride (VC)	110	%	0.3	1

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Report: 572747

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Samples Received on:
02/18/2016 1239

2016-PW-20-02 MSD (201601260330) **Sampled on 02/17/2016 1130**

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
		EPA 200.8 - ICPMS Metals						
2/19/2016	02/19/2016 16:17	892076	(EPA 200.8)	Chromium Total ICAP/MS	101	%	1	1
		EPA 522 - UCMR3 1,4-Dioxane by EPA 522						
2/29/2016	03/02/2016 19:35	895004	(EPA 522)	1,4-Dioxane	106	%	0.07	1
		EPA 524.2 - Volatile Organics by GCMS						
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,1,1,2-Tetrachloroethane	100	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,1,1-Trichloroethane	104	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,1,2,2-Tetrachloroethane	101	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,1,2-Trichloroethane	101	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,1-Dichloroethane	108	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,1-Dichloroethylene	107	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,1-Dichloropropene	104	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,2,3-Trichlorobenzene	99	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,2,3-Trichloropropane	101	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,2,4-Trichlorobenzene	101	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,2,4-Trimethylbenzene	105	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,2-Dichloroethane	100	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,2-Dichloropropane	100	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,3,5-Trimethylbenzene	116	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	1,3-Dichloropropane	100	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	2,2-Dichloropropane	110	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	2-Butanone (MEK)	104	%	5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	110	%	5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Benzene	101	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Bromobenzene	101	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Bromochloromethane	104	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Bromodichloromethane	101	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Bromoethane	103	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Bromoform	108	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Bromomethane (Methyl Bromide)	123	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Carbon disulfide	108	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Carbon Tetrachloride	104	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Chlorobenzene	100	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Chlorodibromomethane	105	%	0.5	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Chloroethane	108	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Chloroform (Trichloromethane)	98	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Chloromethane(Methyl Chloride)	106	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	cis-1,2-Dichloroethylene	105	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	cis-1,3-Dichloropropene	109	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Dibromomethane	104	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Dichlorodifluoromethane	91	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Dichloromethane	104	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Di-isopropyl ether	108	%	3	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Ethyl benzene	103	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Hexachlorobutadiene	97	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Isopropylbenzene	104	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	m,p-Xylenes	106	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	101	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	106	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Naphthalene	102	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	n-Butylbenzene	99	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	n-Propylbenzene	106	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	o-Chlorotoluene	104	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	96	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	o-Xylene	106	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	p-Chlorotoluene	105	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	101	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	p-Isopropyltoluene	112	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	sec-Butylbenzene	111	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Styrene	79	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	tert-amyl Methyl Ether	102	%	3	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	tert-Butyl Ethyl Ether	108	%	3	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	tert-Butylbenzene	113	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Tetrachloroethylene (PCE)	98	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Toluene	101	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Total 1,3-Dichloropropene	110	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Total THM	103	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	Total xylenes	107	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	trans-1,2-Dichloroethylene	104	%	0.5	1
2/19/2016	02/19/2016 23:16	892554	(EPA 524.2)	trans-1,3-Dichloropropene	111	%	0.5	1

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

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Laboratory Data
Report: 572747

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

Samples Received on:
02/18/2016 1239

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
2/19/2016	02/19/2016	23:16	892554	(EPA 524.2)	Trichloroethylene (TCE)	103	%	0.5	1
2/19/2016	02/19/2016	23:16	892554	(EPA 524.2)	Trichlorofluoromethane	115	%	0.5	1
2/19/2016	02/19/2016	23:16	892554	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	108	%	0.5	1
2/19/2016	02/19/2016	23:16	892554	(EPA 524.2)	Vinyl chloride (VC)	112	%	0.3	1

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

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QC Summary: 572747

Pima County DEQ

QC Ref # 892048 - ICPMS Metals **Analysis Date: 02/19/2016**

201601260320	2016-PW-13-01	Analyzed by: DTN
201601260322	2016-PW-13-02	Analyzed by: DTN
201601260323	2016-PW-13-02F	Analyzed by: DTN
201601260324	2016-PW-14-01	Analyzed by: DTN
201601260325	2016-PW-14-02	Analyzed by: DTN
201601260326	2016-PW-14-02D	Analyzed by: DTN
201601260327	2016-PW-20-01	Analyzed by: DTN

QC Ref # 892076 - ICPMS Metals **Analysis Date: 02/19/2016**

201601260328	2016-PW-20-02	Analyzed by: CYP
201601260329	2016-PW-20-02 MS	Analyzed by: CYP
201601260330	2016-PW-20-02 MSD	Analyzed by: CYP

QC Ref # 892554 - Volatile Organics by GCMS **Analysis Date: 02/20/2016**

201601260320	2016-PW-13-01	Analyzed by: MCB
201601260321	2015-TB-02	Analyzed by: MCB
201601260322	2016-PW-13-02	Analyzed by: MCB
201601260323	2016-PW-13-02F	Analyzed by: MCB
201601260324	2016-PW-14-01	Analyzed by: MCB
201601260326	2016-PW-14-02D	Analyzed by: MCB
201601260327	2016-PW-20-01	Analyzed by: MCB
201601260328	2016-PW-20-02	Analyzed by: MCB
201601260329	2016-PW-20-02 MS	Analyzed by: MCB
201601260330	2016-PW-20-02 MSD	Analyzed by: MCB

QC Ref # 892804 - Volatile Organics by GCMS **Analysis Date: 02/22/2016**

201601260325	2016-PW-14-02	Analyzed by: KCP

QC Ref # 892896 - UCMR3 1,4-Dioxane by EPA 522 **Analysis Date: 02/22/2016**

201601260320	2016-PW-13-01	Analyzed by: JYH
201601260322	2016-PW-13-02	Analyzed by: JYH
201601260323	2016-PW-13-02F	Analyzed by: JYH

QC Ref # 895004 - UCMR3 1,4-Dioxane by EPA 522 **Analysis Date: 03/02/2016**

201601260324	2016-PW-14-01	Analyzed by: JYH
201601260325	2016-PW-14-02	Analyzed by: JYH
201601260326	2016-PW-14-02D	Analyzed by: JYH
201601260327	2016-PW-20-01	Analyzed by: JYH
201601260328	2016-PW-20-02	Analyzed by: JYH
201601260329	2016-PW-20-02 MS	Analyzed by: JYH
201601260330	2016-PW-20-02 MSD	Analyzed by: JYH

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 892048 - ICPMS Metals by EPA 200.8						**Analysis Date: 02/19/2016**			
LCS1	Chromium Total ICAP/MS		100	100	ug/L	100	(85-115)		
LCS2	Chromium Total ICAP/MS		100	99.5	ug/L	100	(85-115)	20	0.50
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1	0.950	ug/L	95	(50-150)		
MS_201602180257	Chromium Total ICAP/MS	10	100	104	ug/L	94	(70-130)		
MS2_201601260322	Chromium Total ICAP/MS	5.6	100	108	ug/L	103	(70-130)		
MSD_201602180257	Chromium Total ICAP/MS	10	100	106	ug/L	96	(70-130)	20	1.9
MSD2_201601260322	Chromium Total ICAP/MS	5.6	100	108	ug/L	103	(70-130)	20	0.0
QC Ref# 892076 - ICPMS Metals by EPA 200.8						**Analysis Date: 02/19/2016**			
LCS1	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)		
LCS2	Chromium Total ICAP/MS		100	103	ug/L	103	(85-115)	20	0.0
MBLK	Chromium Total ICAP/MS			<1	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1	1.10	ug/L	110	(50-150)		
MS2_201601260328	Chromium Total ICAP/MS	4.1	100	115	ug/L	111	(70-130)		
MSD2_201601260328	Chromium Total ICAP/MS	4.1	100	109	ug/L	105	(70-130)	20	5.4
QC Ref# 892554 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/19/2016**			
LCS1	1,1,1,2-Tetrachloroethane		5	4.77	ug/L	95	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	4.80	ug/L	96	(70-130)	20	0.63
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.440	ug/L	88	(50-150)		
MS_201601260328	1,1,1,2-Tetrachloroethane	ND	10	10.1	ug/L	101	(70-130)		
MS_201601260315	1,1,1,2-Tetrachloroethane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260328	1,1,1,2-Tetrachloroethane	ND	10	10.0	ug/L	100	(70-130)	20	1
MSD_201601260315	1,1,1,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	1,1,1-Trichloroethane		5	4.11	ug/L	82	(70-130)		
LCS2	1,1,1-Trichloroethane		5	4.71	ug/L	94	(70-130)	20	14
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	1,1,1-Trichloroethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260328	1,1,1-Trichloroethane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260315	1,1,1-Trichloroethane	ND	10	11.0	ug/L	110	(70-130)	20	3.7
MSD_201601260328	1,1,1-Trichloroethane	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	1,1,2,2-Tetrachloroethane		5	4.80	ug/L	96	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5	4.98	ug/L	100	(70-130)	20	3.7
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.490	ug/L	98	(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).
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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201601260328	1,1,2,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260315	1,1,2,2-Tetrachloroethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260328	1,1,2,2-Tetrachloroethane	ND	10	10.1	ug/L	101	(70-130)	20	2.9
MSD_201601260315	1,1,2,2-Tetrachloroethane	ND	10	10.0	ug/L	100	(70-130)	20	3.9
LCS1	1,1,2-Trichloroethane		5	4.85	ug/L	97	(70-130)		
LCS2	1,1,2-Trichloroethane		5	4.83	ug/L	97	(70-130)	20	0.41
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.470	ug/L	94	(50-150)		
MS_201601260328	1,1,2-Trichloroethane	ND	10	9.64	ug/L	96	(70-130)		
MS_201601260315	1,1,2-Trichloroethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260328	1,1,2-Trichloroethane	ND	10	10.1	ug/L	101	(70-130)	20	4.7
MSD_201601260315	1,1,2-Trichloroethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
LCS1	1,1-Dichloroethane		5	4.85	ug/L	97	(70-130)		
LCS2	1,1-Dichloroethane		5	5.08	ug/L	102	(70-130)	20	4.6
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.520	ug/L	104	(50-150)		
MS_201601260328	1,1-Dichloroethane	ND	10	10.7	ug/L	107	(70-130)		
MS_201601260315	1,1-Dichloroethane	ND	10	10.8	ug/L	109	(70-130)		
MSD_201601260328	1,1-Dichloroethane	ND	10	10.8	ug/L	108	(70-130)	20	0.93
MSD_201601260315	1,1-Dichloroethane	ND	10	11.0	ug/L	110	(70-130)	20	0.91
LCS1	1,1-Dichloroethylene		5	4.45	ug/L	89	(70-130)		
LCS2	1,1-Dichloroethylene		5	4.90	ug/L	98	(70-130)	20	9.6
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.510	ug/L	102	(50-150)		
MS_201601260315	1,1-Dichloroethylene	ND	10	10.8	ug/L	108	(70-130)		
MS_201601260328	1,1-Dichloroethylene	ND	10	10.8	ug/L	107	(70-130)		
MSD_201601260328	1,1-Dichloroethylene	ND	10	10.8	ug/L	107	(70-130)	20	0.0
MSD_201601260315	1,1-Dichloroethylene	ND	10	10.8	ug/L	109	(70-130)	20	0.92
LCS1	1,1-Dichloropropene		5	4.26	ug/L	85	(70-130)		
LCS2	1,1-Dichloropropene		5	4.62	ug/L	92	(70-130)	20	8.1
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.460	ug/L	92	(50-150)		
MS_201601260328	1,1-Dichloropropene	ND	10	9.84	ug/L	98	(70-130)		
MS_201601260315	1,1-Dichloropropene	ND	10	10.9	ug/L	109	(70-130)		
MSD_201601260315	1,1-Dichloropropene	ND	10	11.0	ug/L	110	(70-130)	20	0.91
MSD_201601260328	1,1-Dichloropropene	ND	10	10.4	ug/L	104	(70-130)	20	5.5
LCS1	1,2,3-Trichlorobenzene		5	5.19	ug/L	104	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	5.15	ug/L	103	(70-130)	20	0.77

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.600	ug/L	120	(50-150)		
MS_201601260328	1,2,3-Trichlorobenzene	ND	10	9.95	ug/L	100	(70-130)		
MS_201601260315	1,2,3-Trichlorobenzene	ND	10	9.95	ug/L	100	(70-130)		
MSD_201601260328	1,2,3-Trichlorobenzene	ND	10	9.85	ug/L	99	(70-130)	20	1.0
MSD_201601260315	1,2,3-Trichlorobenzene	ND	10	10.2	ug/L	102	(70-130)	20	2.5
LCS1	1,2,3-Trichloropropane		5	4.77	ug/L	95	(70-130)		
LCS2	1,2,3-Trichloropropane		5	4.88	ug/L	98	(70-130)	20	2.3
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.540	ug/L	108	(50-150)		
MS_201601260328	1,2,3-Trichloropropane	ND	10	10.3	ug/L	103	(70-130)		
MS_201601260315	1,2,3-Trichloropropane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	1,2,3-Trichloropropane	ND	10	10.3	ug/L	103	(70-130)	20	0.97
MSD_201601260328	1,2,3-Trichloropropane	ND	10	10.1	ug/L	101	(70-130)	20	2.0
LCS1	1,2,4-Trichlorobenzene		5	4.94	ug/L	99	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	5.02	ug/L	100	(70-130)	20	1.6
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.560	ug/L	112	(50-150)		
MS_201601260328	1,2,4-Trichlorobenzene	ND	10	9.80	ug/L	98	(70-130)		
MS_201601260315	1,2,4-Trichlorobenzene	ND	10	9.97	ug/L	100	(70-130)		
MSD_201601260328	1,2,4-Trichlorobenzene	ND	10	10.1	ug/L	101	(70-130)	20	3.0
MSD_201601260315	1,2,4-Trichlorobenzene	ND	10	10.2	ug/L	102	(70-130)	20	3.3
LCS1	1,2,4-Trimethylbenzene		5	4.72	ug/L	94	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	5.05	ug/L	101	(70-130)	20	6.8
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260328	1,2,4-Trimethylbenzene	ND	10	10.8	ug/L	108	(70-130)		
MS_201601260315	1,2,4-Trimethylbenzene	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260328	1,2,4-Trimethylbenzene	ND	10	10.5	ug/L	105	(70-130)	20	2.8
MSD_201601260315	1,2,4-Trimethylbenzene	ND	10	10.7	ug/L	107	(70-130)	20	0.93
LCS1	1,2-Dichloroethane		5	4.82	ug/L	96	(70-130)		
LCS2	1,2-Dichloroethane		5	4.92	ug/L	98	(70-130)	20	2.0
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
MS_201601260315	1,2-Dichloroethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	1,2-Dichloroethane	ND	10	9.90	ug/L	99	(70-130)		
MSD_201601260315	1,2-Dichloroethane	ND	10	10.3	ug/L	103	(70-130)	20	0.97
MSD_201601260328	1,2-Dichloroethane	ND	10	10.0	ug/L	100	(70-130)	20	1.0

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			97.6	%	98	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			103	%	103	(70-130)		
MS_201601260315	1,2-Dichloroethane-d4 (S)			97.2	%	97	(70-130)		
MS_201601260328	1,2-Dichloroethane-d4 (S)			100	%	100	(70-130)		
MSD_201601260328	1,2-Dichloroethane-d4 (S)			97.4	%	97	(70-130)		
MSD_201601260315	1,2-Dichloroethane-d4 (S)			98.8	%	99	(70-130)		
LCS1	1,2-Dichloropropane		5	4.72	ug/L	94	(70-130)		
LCS2	1,2-Dichloropropane		5	4.82	ug/L	96	(70-130)	20	2.1
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	1,2-Dichloropropane	ND	10	10.5	ug/L	105	(70-130)		
MS_201601260328	1,2-Dichloropropane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260328	1,2-Dichloropropane	ND	10	10.0	ug/L	100	(70-130)	20	2.0
MSD_201601260315	1,2-Dichloropropane	ND	10	10.5	ug/L	105	(70-130)	20	0.0
LCS1	1,3,5-Trimethylbenzene		5	4.87	ug/L	97	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	5.43	ug/L	109	(70-130)	20	11
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.440	ug/L	88	(50-150)		
MS_201601260328	1,3,5-Trimethylbenzene	ND	10	11.8	ug/L	118	(70-130)		
MS_201601260315	1,3,5-Trimethylbenzene	ND	10	12.4	ug/L	124	(70-130)		
MSD_201601260315	1,3,5-Trimethylbenzene	ND	10	12.3	ug/L	123	(70-130)	20	0.81
MSD_201601260328	1,3,5-Trimethylbenzene	ND	10	11.6	ug/L	116	(70-130)	20	1.7
LCS1	1,3-Dichloropropane		5	4.62	ug/L	92	(70-130)		
LCS2	1,3-Dichloropropane		5	4.74	ug/L	95	(70-130)	20	2.6
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.470	ug/L	94	(50-150)		
MS_201601260328	1,3-Dichloropropane	ND	10	9.74	ug/L	97	(70-130)		
MS_201601260315	1,3-Dichloropropane	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260315	1,3-Dichloropropane	ND	10	10.2	ug/L	102	(70-130)	20	0.98
MSD_201601260328	1,3-Dichloropropane	ND	10	9.97	ug/L	100	(70-130)	20	2.3
LCS1	2,2-Dichloropropane		5	4.36	ug/L	87	(70-130)		
LCS2	2,2-Dichloropropane		5	4.87	ug/L	97	(70-130)	20	11
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.560	ug/L	112	(50-150)		
MS_201601260315	2,2-Dichloropropane	ND	10	11.4	ug/L	114	(70-130)		

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Laboratory QC
Report: 572747

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201601260328	2,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)		
MSD_201601260315	2,2-Dichloropropane	ND	10	11.9	ug/L	119	(70-130)	20	4.3
MSD_201601260328	2,2-Dichloropropane	ND	10	11.0	ug/L	110	(70-130)	20	0.0
LCS1	2-Butanone (MEK)		50	48.5	ug/L	97	(70-130)		
LCS2	2-Butanone (MEK)		50	48.2	ug/L	96	(70-130)	20	0.62
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	5.19	ug/L	104	(50-150)		
MS_201601260315	2-Butanone (MEK)	ND	100	107	ug/L	107	(70-130)		
MS_201601260328	2-Butanone (MEK)	ND	100	102	ug/L	102	(70-130)		
MSD_201601260328	2-Butanone (MEK)	ND	100	104	ug/L	104	(70-130)	20	1.9
MSD_201601260315	2-Butanone (MEK)	ND	100	102	ug/L	101	(70-130)	20	4.8
LCS1	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS2	4-Bromofluorobenzene (S)			99.8	%	100	(70-130)		
MBLK	4-Bromofluorobenzene (S)			99.2	%	99	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			97.8	%	98	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			95.6	%	96	(70-130)		
MS_201601260328	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MS_201601260315	4-Bromofluorobenzene (S)			98.2	%	98	(70-130)		
MSD_201601260315	4-Bromofluorobenzene (S)			94.0	%	94	(70-130)		
MSD_201601260328	4-Bromofluorobenzene (S)			96.0	%	96	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	48.9	ug/L	98	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	47.5	ug/L	95	(70-130)	20	2.9
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	4.29	ug/L	86	(50-150)		
MS_201601260328	4-Methyl-2-Pentanone (MIBK)	ND	100	106	ug/L	107	(70-130)		
MS_201601260315	4-Methyl-2-Pentanone (MIBK)	ND	100	114	ug/L	114	(70-130)		
MSD_201601260315	4-Methyl-2-Pentanone (MIBK)	ND	100	109	ug/L	109	(70-130)	20	4.5
MSD_201601260328	4-Methyl-2-Pentanone (MIBK)	ND	100	110	ug/L	110	(70-130)	20	2.8
LCS1	Benzene		5	4.69	ug/L	94	(70-130)		
LCS2	Benzene		5	4.79	ug/L	96	(70-130)	20	2.1
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.480	ug/L	96	(50-150)		
MS_201601260315	Benzene	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260328	Benzene	ND	10	10.0	ug/L	100	(70-130)		
MSD_201601260315	Benzene	ND	10	10.5	ug/L	105	(70-130)	20	0.95
MSD_201601260328	Benzene	ND	10	10.1	ug/L	101	(70-130)	20	1
LCS1	Bromobenzene		5	4.60	ug/L	92	(70-130)		
LCS2	Bromobenzene		5	5.01	ug/L	100	(70-130)	20	8.5

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.490	ug/L	98	(50-150)		
MS_201601260315	Bromobenzene	ND	10	10.5	ug/L	105	(70-130)		
MS_201601260328	Bromobenzene	ND	10	10.1	ug/L	101	(70-130)		
MSD_201601260315	Bromobenzene	ND	10	10.2	ug/L	102	(70-130)	20	2.9
MSD_201601260328	Bromobenzene	ND	10	10.0	ug/L	101	(70-130)	20	0.0
LCS1	Bromochloromethane		5	4.80	ug/L	96	(70-130)		
LCS2	Bromochloromethane		5	5.01	ug/L	100	(70-130)	20	4.3
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.520	ug/L	104	(50-150)		
MS_201601260328	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260315	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260328	Bromochloromethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
LCS1	Bromodichloromethane		5	4.74	ug/L	95	(70-130)		
LCS2	Bromodichloromethane		5	4.88	ug/L	98	(70-130)	20	2.9
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	Bromodichloromethane	ND	10	10.2	ug/L	101	(70-130)		
MS_201601260328	Bromodichloromethane	ND	10	9.64	ug/L	96	(70-130)		
MSD_201601260315	Bromodichloromethane	ND	10	10.2	ug/L	102	(70-130)	20	0.0
MSD_201601260328	Bromodichloromethane	ND	10	10.1	ug/L	101	(70-130)	20	4.7
LCS1	Bromoethane		5	4.87	ug/L	97	(70-130)		
LCS2	Bromoethane		5	5.32	ug/L	106	(70-130)	20	8.8
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.490	ug/L	98	(50-150)		
MS_201601260315	Bromoethane	ND	10	10.3	ug/L	103	(70-130)		
MS_201601260328	Bromoethane	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	Bromoethane	ND	10	10.4	ug/L	104	(70-130)	20	0.97
MSD_201601260328	Bromoethane	ND	10	10.3	ug/L	103	(70-130)	20	0.97
LCS1	Bromoform		5	4.33	ug/L	87	(70-130)		
LCS2	Bromoform		5	4.82	ug/L	96	(70-130)	20	11
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.460	ug/L	92	(50-150)		
MS_201601260328	Bromoform	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260315	Bromoform	ND	10	10.5	ug/L	105	(70-130)		
MSD_201601260315	Bromoform	ND	10	10.4	ug/L	104	(70-130)	20	0.96
MSD_201601260328	Bromoform	ND	10	10.8	ug/L	108	(70-130)	20	1.9

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Bromomethane (Methyl Bromide)		5	5.07	ug/L	101	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	5.40	ug/L	108	(70-130)	20	6.3
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.550	ug/L	110	(50-150)		
MS_201601260328	Bromomethane (Methyl Bromide)	ND	10	12.6	ug/L	126	(70-130)		
MS_201601260315	Bromomethane (Methyl Bromide)	ND	10	11.9	ug/L	119	(70-130)		
MSD_201601260328	Bromomethane (Methyl Bromide)	ND	10	12.3	ug/L	123	(70-130)	20	2.4
MSD_201601260315	Bromomethane (Methyl Bromide)	ND	10	12.0	ug/L	120	(70-130)	20	0.84
LCS1	Carbon disulfide		5	4.31	ug/L	86	(70-130)		
LCS2	Carbon disulfide		5	4.87	ug/L	97	(70-130)	20	12
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.520	ug/L	104	(50-150)		
MS_201601260328	Carbon disulfide	ND	10	10.6	ug/L	107	(70-130)		
MS_201601260315	Carbon disulfide	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260328	Carbon disulfide	ND	10	10.8	ug/L	108	(70-130)	20	0.93
MSD_201601260315	Carbon disulfide	ND	10	11.0	ug/L	110	(70-130)	20	1.8
LCS1	Carbon Tetrachloride		5	4.21	ug/L	84	(70-130)		
LCS2	Carbon Tetrachloride		5	4.83	ug/L	97	(70-130)	20	14
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.420	ug/L	84	(50-150)		
MS_201601260328	Carbon Tetrachloride	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260315	Carbon Tetrachloride	ND	10	11.0	ug/L	110	(70-130)		
MSD_201601260328	Carbon Tetrachloride	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260315	Carbon Tetrachloride	ND	10	10.9	ug/L	109	(70-130)	20	0.91
LCS1	Chlorobenzene		5	4.38	ug/L	88	(70-130)		
LCS2	Chlorobenzene		5	4.51	ug/L	90	(70-130)	20	2.9
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.440	ug/L	88	(50-150)		
MS_201601260328	Chlorobenzene	ND	10	9.82	ug/L	98	(70-130)		
MS_201601260315	Chlorobenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	Chlorobenzene	ND	10	10.2	ug/L	102	(70-130)	20	1.9
MSD_201601260328	Chlorobenzene	ND	10	9.96	ug/L	100	(70-130)	20	1.4
LCS1	Chlorodibromomethane		5	4.62	ug/L	92	(70-130)		
LCS2	Chlorodibromomethane		5	4.69	ug/L	94	(70-130)	20	1.5
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	Chlorodibromomethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260328	Chlorodibromomethane	ND	10	10.2	ug/L	102	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201601260328	Chlorodibromomethane	ND	10	10.5	ug/L	105	(70-130)	20	2.9
MSD_201601260315	Chlorodibromomethane	ND	10	10.4	ug/L	105	(70-130)	20	0.95
LCS1	Chloroethane		5	4.72	ug/L	94	(70-130)		
LCS2	Chloroethane		5	4.88	ug/L	98	(70-130)	20	3.3
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.540	ug/L	108	(50-150)		
MS_201601260328	Chloroethane	ND	10	11.3	ug/L	113	(70-130)		
MS_201601260315	Chloroethane	ND	10	11.1	ug/L	110	(70-130)		
MSD_201601260315	Chloroethane	ND	10	11.3	ug/L	111	(70-130)	20	1.8
MSD_201601260328	Chloroethane	ND	10	10.8	ug/L	108	(70-130)	20	4.5
LCS1	Chloroform (Trichloromethane)		5	3.91	ug/L	78	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	3.96	ug/L	79	(70-130)	20	1.3
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	Chloroform (Trichloromethane)	ND	10	9.10	ug/L	87	(70-130)		
MS_201601260328	Chloroform (Trichloromethane)	ND	10	8.73	ug/L	85	(70-130)		
MSD_201601260328	Chloroform (Trichloromethane)	ND	10	9.98	ug/L	98	(70-130)	20	13
MSD_201601260315	Chloroform (Trichloromethane)	ND	10	12.8	ug/L	124	(70-130)	20	**34**
LCS1	Chloromethane(Methyl Chloride)		5	4.84	ug/L	97	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	5.18	ug/L	104	(70-130)	20	6.8
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.490	ug/L	98	(50-150)		
MS_201601260315	Chloromethane(Methyl Chloride)	ND	10	10.3	ug/L	103	(70-130)		
MS_201601260328	Chloromethane(Methyl Chloride)	ND	10	10.3	ug/L	103	(70-130)		
MSD_201601260315	Chloromethane(Methyl Chloride)	ND	10	10.6	ug/L	106	(70-130)	20	2.9
MSD_201601260328	Chloromethane(Methyl Chloride)	ND	10	10.6	ug/L	106	(70-130)	20	2.9
LCS1	cis-1,2-Dichloroethylene		5	4.81	ug/L	96	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	5.12	ug/L	102	(70-130)	20	6.2
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.620	ug/L	124	(50-150)		
MS_201601260315	cis-1,2-Dichloroethylene	ND	10	11.0	ug/L	108	(70-130)		
MS_201601260328	cis-1,2-Dichloroethylene	ND	10	10.7	ug/L	106	(70-130)		
MSD_201601260328	cis-1,2-Dichloroethylene	ND	10	10.6	ug/L	105	(70-130)	20	0.94
MSD_201601260315	cis-1,2-Dichloroethylene	ND	10	11.0	ug/L	108	(70-130)	20	0.0
LCS1	cis-1,3-Dichloropropene		5	4.67	ug/L	93	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.86	ug/L	97	(70-130)	20	4.0
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.470	ug/L	94	(50-150)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201601260328	cis-1,3-Dichloropropene	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260315	cis-1,3-Dichloropropene	ND	10	11.2	ug/L	112	(70-130)		
MSD_201601260315	cis-1,3-Dichloropropene	ND	10	11.4	ug/L	114	(70-130)	20	1.8
MSD_201601260328	cis-1,3-Dichloropropene	ND	10	10.9	ug/L	109	(70-130)	20	2.8
LCS1	Dibromomethane		5	4.90	ug/L	98	(70-130)		
LCS2	Dibromomethane		5	4.97	ug/L	99	(70-130)	20	1.4
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.510	ug/L	102	(50-150)		
MS_201601260315	Dibromomethane	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	Dibromomethane	ND	10	10.0	ug/L	100	(70-130)		
MSD_201601260328	Dibromomethane	ND	10	10.4	ug/L	104	(70-130)	20	3.9
MSD_201601260315	Dibromomethane	ND	10	10.4	ug/L	104	(70-130)	20	0.0
LCS1	Dichlorodifluoromethane		5	4.36	ug/L	87	(70-130)		
LCS2	Dichlorodifluoromethane		5	5.26	ug/L	105	(70-130)	20	19
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.390	ug/L	78	(50-150)		
MS_201601260315	Dichlorodifluoromethane	ND	10	9.67	ug/L	97	(70-130)		
MS_201601260328	Dichlorodifluoromethane	ND	10	9.12	ug/L	91	(70-130)		
MSD_201601260328	Dichlorodifluoromethane	ND	10	9.10	ug/L	91	(70-130)	20	0.22
MSD_201601260315	Dichlorodifluoromethane	ND	10	10.1	ug/L	101	(70-130)	20	4.3
LCS1	Dichloromethane		5	4.91	ug/L	98	(70-130)		
LCS2	Dichloromethane		5	5.01	ug/L	100	(70-130)	20	2.0
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.680	ug/L	136	(50-150)		
MS_201601260328	Dichloromethane	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260315	Dichloromethane	ND	10	10.5	ug/L	105	(70-130)		
MSD_201601260315	Dichloromethane	ND	10	10.4	ug/L	104	(70-130)	20	0.96
MSD_201601260328	Dichloromethane	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	Di-isopropyl ether		5	4.81	ug/L	96	(70-130)		
LCS2	Di-isopropyl ether		5	4.95	ug/L	99	(70-130)	20	2.9
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.520	ug/L	104	(50-150)		
MS_201601260315	Di-isopropyl ether	ND	10	10.8	ug/L	108	(70-130)		
MS_201601260328	Di-isopropyl ether	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260328	Di-isopropyl ether	ND	10	10.8	ug/L	108	(70-130)	20	0.0
MSD_201601260315	Di-isopropyl ether	ND	10	10.9	ug/L	109	(70-130)	20	0.92
LCS1	Ethyl benzene		5	4.37	ug/L	87	(70-130)		
LCS2	Ethyl benzene		5	4.48	ug/L	90	(70-130)	20	2.5

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Laboratory QC
Report: 572747

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.410	ug/L	82	(50-150)		
MS_201601260315	Ethyl benzene	ND	10	10.7	ug/L	107	(70-130)		
MS_201601260328	Ethyl benzene	ND	10	9.99	ug/L	100	(70-130)		
MSD_201601260328	Ethyl benzene	ND	10	10.3	ug/L	103	(70-130)	20	3.1
MSD_201601260315	Ethyl benzene	ND	10	10.7	ug/L	107	(70-130)	20	0.0
LCS1	Hexachlorobutadiene		5	4.29	ug/L	86	(70-130)		
LCS2	Hexachlorobutadiene		5	4.73	ug/L	95	(70-130)	20	9.8
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.540	ug/L	108	(50-150)		
MS_201601260315	Hexachlorobutadiene	ND	10	9.87	ug/L	99	(70-130)		
MS_201601260328	Hexachlorobutadiene	ND	10	9.53	ug/L	95	(70-130)		
MSD_201601260328	Hexachlorobutadiene	ND	10	9.66	ug/L	97	(70-130)	20	1.4
MSD_201601260315	Hexachlorobutadiene	ND	10	10.2	ug/L	102	(70-130)	20	3.3
LCS1	Isopropylbenzene		5	4.12	ug/L	82	(70-130)		
LCS2	Isopropylbenzene		5	4.60	ug/L	92	(70-130)	20	11
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.390	ug/L	78	(50-150)		
MS_201601260315	Isopropylbenzene	ND	10	10.9	ug/L	109	(70-130)		
MS_201601260328	Isopropylbenzene	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260328	Isopropylbenzene	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260315	Isopropylbenzene	ND	10	10.6	ug/L	106	(70-130)	20	2.8
LCS1	m,p-Xylenes		10	8.92	ug/L	89	(70-130)		
LCS2	m,p-Xylenes		10	9.26	ug/L	93	(70-130)	20	3.7
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.790	ug/L	79	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.380	ug/L	76	(50-150)		
MS_201601260328	m,p-Xylenes	ND	20	21.1	ug/L	105	(70-130)		
MS_201601260315	m,p-Xylenes	ND	20	22.6	ug/L	113	(70-130)		
MSD_201601260328	m,p-Xylenes	ND	20	21.2	ug/L	106	(70-130)	20	0.47
MSD_201601260315	m,p-Xylenes	ND	20	22.4	ug/L	112	(70-130)	20	1.3
LCS1	m-Dichlorobenzene (1,3-DCB)		5	4.50	ug/L	90	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	4.75	ug/L	95	(70-130)	20	5.4
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.480	ug/L	96	(50-150)		
MS_201601260315	m-Dichlorobenzene (1,3-DCB)	ND	10	10.7	ug/L	107	(70-130)		
MS_201601260328	m-Dichlorobenzene (1,3-DCB)	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260328	m-Dichlorobenzene (1,3-DCB)	ND	10	10.1	ug/L	101	(70-130)	20	0.99

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201601260315	m-Dichlorobenzene (1,3-DCB)	ND	10	10.1	ug/L	101	(70-130)	20	5.8
LCS1	Methyl Tert-butyl ether (MTBE)		5	4.93	ug/L	99	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	5.06	ug/L	101	(70-130)	20	2.6
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.520	ug/L	104	(50-150)		
MS_201601260328	Methyl Tert-butyl ether (MTBE)	ND	10	10.4	ug/L	105	(70-130)		
MS_201601260315	Methyl Tert-butyl ether (MTBE)	ND	10	10.6	ug/L	104	(70-130)		
MSD_201601260315	Methyl Tert-butyl ether (MTBE)	ND	10	10.7	ug/L	105	(70-130)	20	0.94
MSD_201601260328	Methyl Tert-butyl ether (MTBE)	ND	10	10.6	ug/L	106	(70-130)	20	0.95
LCS1	Naphthalene		5	5.04	ug/L	101	(70-130)		
LCS2	Naphthalene		5	5.16	ug/L	103	(70-130)	20	2.4
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.530	ug/L	106	(50-150)		
MS_201601260328	Naphthalene	ND	10	10.1	ug/L	101	(70-130)		
MS_201601260315	Naphthalene	ND	10	10.2	ug/L	102	(70-130)		
MSD_201601260328	Naphthalene	ND	10	10.2	ug/L	102	(70-130)	20	0.99
MSD_201601260315	Naphthalene	ND	10	10.4	ug/L	104	(70-130)	20	1.9
LCS1	n-Butylbenzene		5	4.46	ug/L	89	(70-130)		
LCS2	n-Butylbenzene		5	4.94	ug/L	99	(70-130)	20	10
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.460	ug/L	92	(50-150)		
MS_201601260328	n-Butylbenzene	ND	10	9.63	ug/L	96	(70-130)		
MS_201601260315	n-Butylbenzene	ND	10	10.5	ug/L	105	(70-130)		
MSD_201601260315	n-Butylbenzene	ND	10	10.6	ug/L	106	(70-130)	20	0.95
MSD_201601260328	n-Butylbenzene	ND	10	9.90	ug/L	99	(70-130)	20	2.8
LCS1	n-Propylbenzene		5	4.18	ug/L	84	(70-130)		
LCS2	n-Propylbenzene		5	4.67	ug/L	93	(70-130)	20	11
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.370	ug/L	74	(50-150)		
MS_201601260328	n-Propylbenzene	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260315	n-Propylbenzene	ND	10	11.6	ug/L	116	(70-130)		
MSD_201601260315	n-Propylbenzene	ND	10	11.0	ug/L	110	(70-130)	20	5.3
MSD_201601260328	n-Propylbenzene	ND	10	10.6	ug/L	106	(70-130)	20	1.9
LCS1	o-Chlorotoluene		5	4.52	ug/L	90	(70-130)		
LCS2	o-Chlorotoluene		5	4.88	ug/L	98	(70-130)	20	7.7
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.480	ug/L	96	(50-150)		
MS_201601260315	o-Chlorotoluene	ND	10	10.7	ug/L	107	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MS_201601260328	o-Chlorotoluene	ND	10	10.5	ug/L	105	(70-130)		
MSD_201601260315	o-Chlorotoluene	ND	10	10.4	ug/L	104	(70-130)	20	2.8
MSD_201601260328	o-Chlorotoluene	ND	10	10.4	ug/L	103	(70-130)	20	0.96
LCS1	o-Dichlorobenzene (1,2-DCB)		5	4.73	ug/L	95	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.80	ug/L	96	(70-130)	20	1.5
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.460	ug/L	92	(50-150)		
MS_201601260328	o-Dichlorobenzene (1,2-DCB)	ND	10	9.37	ug/L	94	(70-130)		
MS_201601260315	o-Dichlorobenzene (1,2-DCB)	ND	10	9.95	ug/L	100	(70-130)		
MSD_201601260328	o-Dichlorobenzene (1,2-DCB)	ND	10	9.60	ug/L	96	(70-130)	20	2.4
MSD_201601260315	o-Dichlorobenzene (1,2-DCB)	ND	10	9.94	ug/L	99	(70-130)	20	0.10
LCS1	o-Xylene		5	4.66	ug/L	93	(70-130)		
LCS2	o-Xylene		5	4.79	ug/L	96	(70-130)	20	2.8
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.420	ug/L	84	(50-150)		
MS_201601260315	o-Xylene	ND	10	11.2	ug/L	112	(70-130)		
MS_201601260328	o-Xylene	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260328	o-Xylene	ND	10	10.6	ug/L	106	(70-130)	20	1.9
MSD_201601260315	o-Xylene	ND	10	11.2	ug/L	112	(70-130)	20	0.0
LCS1	p-Chlorotoluene		5	4.58	ug/L	92	(70-130)		
LCS2	p-Chlorotoluene		5	4.82	ug/L	96	(70-130)	20	5.1
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260315	p-Chlorotoluene	ND	10	11.3	ug/L	113	(70-130)		
MS_201601260328	p-Chlorotoluene	ND	10	10.9	ug/L	109	(70-130)		
MSD_201601260328	p-Chlorotoluene	ND	10	10.5	ug/L	105	(70-130)	20	3.7
MSD_201601260315	p-Chlorotoluene	ND	10	10.9	ug/L	109	(70-130)	20	3.6
LCS1	p-Dichlorobenzene (1,4-DCB)		5	4.38	ug/L	88	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	4.64	ug/L	93	(70-130)	20	5.8
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.460	ug/L	92	(50-150)		
MS_201601260328	p-Dichlorobenzene (1,4-DCB)	ND	10	10.2	ug/L	102	(70-130)		
MS_201601260315	p-Dichlorobenzene (1,4-DCB)	ND	10	10.4	ug/L	104	(70-130)		
MSD_201601260315	p-Dichlorobenzene (1,4-DCB)	ND	10	10.2	ug/L	102	(70-130)	20	0.97
MSD_201601260328	p-Dichlorobenzene (1,4-DCB)	ND	10	10.0	ug/L	101	(70-130)	20	0.99
LCS1	p-Isopropyltoluene		5	4.60	ug/L	92	(70-130)		
LCS2	p-Isopropyltoluene		5	4.99	ug/L	100	(70-130)	20	8.1
MBLK	p-Isopropyltoluene			<0.5	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	p-Isopropyltoluene		0.5	0.410	ug/L	82	(50-150)		
MS_201601260315	p-Isopropyltoluene	ND	10	11.9	ug/L	119	(70-130)		
MS_201601260328	p-Isopropyltoluene	ND	10	11.4	ug/L	114	(70-130)		
MSD_201601260315	p-Isopropyltoluene	ND	10	11.6	ug/L	116	(70-130)	20	2.5
MSD_201601260328	p-Isopropyltoluene	ND	10	11.2	ug/L	112	(70-130)	20	1.8
LCS1	sec-Butylbenzene		5	4.51	ug/L	90	(70-130)		
LCS2	sec-Butylbenzene		5	5.05	ug/L	101	(70-130)	20	11
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.400	ug/L	80	(50-150)		
MS_201601260315	sec-Butylbenzene	ND	10	11.7	ug/L	117	(70-130)		
MS_201601260328	sec-Butylbenzene	ND	10	11.6	ug/L	116	(70-130)		
MSD_201601260315	sec-Butylbenzene	ND	10	11.6	ug/L	116	(70-130)	20	0.86
MSD_201601260328	sec-Butylbenzene	ND	10	11.1	ug/L	111	(70-130)	20	4.4
LCS1	Styrene		5	4.75	ug/L	95	(70-130)		
LCS2	Styrene		5	4.75	ug/L	95	(70-130)	20	0.0
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.400	ug/L	80	(50-150)		
MS_201601260328	Styrene	ND	10	7.28	ug/L	73	(70-130)		
MS_201601260315	Styrene	ND	10	9.33	ug/L	93	(70-130)		
MSD_201601260328	Styrene	ND	10	7.88	ug/L	79	(70-130)	20	7.9
MSD_201601260315	Styrene	ND	10	9.58	ug/L	96	(70-130)	20	2.6
LCS1	tert-amyl Methyl Ether		5	4.67	ug/L	93	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.81	ug/L	96	(70-130)	20	3.0
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.450	ug/L	90	(50-150)		
MS_201601260315	tert-amyl Methyl Ether	ND	10	10.3	ug/L	103	(70-130)		
MS_201601260328	tert-amyl Methyl Ether	ND	10	10.1	ug/L	101	(70-130)		
MSD_201601260328	tert-amyl Methyl Ether	ND	10	10.2	ug/L	102	(70-130)	20	0.99
MSD_201601260315	tert-amyl Methyl Ether	ND	10	10.6	ug/L	106	(70-130)	20	2.9
LCS1	tert-Butyl Ethyl Ether		5	4.93	ug/L	99	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	5.11	ug/L	102	(70-130)	20	3.6
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.520	ug/L	104	(50-150)		
MS_201601260315	tert-Butyl Ethyl Ether	ND	10	10.6	ug/L	106	(70-130)		
MS_201601260328	tert-Butyl Ethyl Ether	ND	10	10.5	ug/L	105	(70-130)		
MSD_201601260328	tert-Butyl Ethyl Ether	ND	10	10.8	ug/L	108	(70-130)	20	2.8
MSD_201601260315	tert-Butyl Ethyl Ether	ND	10	10.8	ug/L	108	(70-130)	20	1.9
LCS1	tert-Butylbenzene		5	4.37	ug/L	87	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	tert-Butylbenzene		5	5.01	ug/L	100	(70-130)	20	14
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.450	ug/L	90	(50-150)		
MS_201601260328	tert-Butylbenzene	ND	10	11.4	ug/L	114	(70-130)		
MS_201601260315	tert-Butylbenzene	ND	10	11.9	ug/L	119	(70-130)		
MSD_201601260328	tert-Butylbenzene	ND	10	11.3	ug/L	113	(70-130)	20	0.88
MSD_201601260315	tert-Butylbenzene	ND	10	11.6	ug/L	116	(70-130)	20	2.5
LCS1	Tetrachloroethylene (PCE)		5	4.23	ug/L	85	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.59	ug/L	92	(70-130)	20	8.2
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.450	ug/L	90	(50-150)		
MS_201601260328	Tetrachloroethylene (PCE)	ND	10	9.65	ug/L	97	(70-130)		
MS_201601260315	Tetrachloroethylene (PCE)	ND	10	10.8	ug/L	108	(70-130)		
MSD_201601260315	Tetrachloroethylene (PCE)	ND	10	10.5	ug/L	105	(70-130)	20	2.8
MSD_201601260328	Tetrachloroethylene (PCE)	ND	10	9.75	ug/L	98	(70-130)	20	1.0
LCS1	Toluene		5	4.47	ug/L	89	(70-130)		
LCS2	Toluene		5	4.71	ug/L	94	(70-130)	20	5.2
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260315	Toluene	ND	10	10.7	ug/L	107	(70-130)		
MS_201601260328	Toluene	ND	10	9.79	ug/L	98	(70-130)		
MSD_201601260328	Toluene	ND	10	10.1	ug/L	101	(70-130)	20	3.1
MSD_201601260315	Toluene	ND	10	10.6	ug/L	106	(70-130)	20	0.94
LCS1	Toluene-d8 (S)			99.8	%	100	(70-130)		
LCS2	Toluene-d8 (S)			98.2	%	98	(70-130)		
MBLK	Toluene-d8 (S)			90.6	%	91	(70-130)		
MRL_CHK	Toluene-d8 (S)			92.6	%	93	(70-130)		
MRLLW	Toluene-d8 (S)			89.6	%	90	(70-130)		
MS_201601260328	Toluene-d8 (S)			100	%	100	(70-130)		
MS_201601260315	Toluene-d8 (S)			101	%	101	(70-130)		
MSD_201601260315	Toluene-d8 (S)			99.2	%	99	(70-130)		
MSD_201601260328	Toluene-d8 (S)			101	%	101	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	4.76	ug/L	95	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	4.92	ug/L	98	(70-130)	20	3.3
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.520	ug/L	104	(50-150)		
MS_201601260315	trans-1,2-Dichloroethylene	ND	10	10.4	ug/L	104	(70-130)		
MS_201601260328	trans-1,2-Dichloroethylene	ND	10	10.4	ug/L	104	(70-130)		

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Laboratory QC
Report: 572747

Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201601260328	trans-1,2-Dichloroethylene	ND	10	10.4	ug/L	104	(70-130)	20	0.0
MSD_201601260315	trans-1,2-Dichloroethylene	ND	10	10.7	ug/L	107	(70-130)	20	2.8
LCS1	trans-1,3-Dichloropropene		5	4.55	ug/L	91	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	4.60	ug/L	92	(70-130)	20	1.1
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
MS_201601260315	trans-1,3-Dichloropropene	ND	10	11.2	ug/L	112	(70-130)		
MS_201601260328	trans-1,3-Dichloropropene	ND	10	10.6	ug/L	106	(70-130)		
MSD_201601260328	trans-1,3-Dichloropropene	ND	10	11.1	ug/L	111	(70-130)	20	4.6
MSD_201601260315	trans-1,3-Dichloropropene	ND	10	10.9	ug/L	109	(70-130)	20	2.7
LCS1	Trichloroethylene (TCE)		5	4.63	ug/L	93	(70-130)		
LCS2	Trichloroethylene (TCE)		5	4.92	ug/L	98	(70-130)	20	6.1
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.460	ug/L	92	(50-150)		
MS_201601260328	Trichloroethylene (TCE)	0.90	10	11.2	ug/L	102	(70-130)		
MS_201601260315	Trichloroethylene (TCE)	2.9	10	13.9	ug/L	109	(70-130)		
MSD_201601260315	Trichloroethylene (TCE)	2.9	10	13.5	ug/L	105	(70-130)	20	2.9
MSD_201601260328	Trichloroethylene (TCE)	0.90	10	11.2	ug/L	103	(70-130)	20	0.0
LCS1	Trichlorofluoromethane		5	4.01	ug/L	80	(70-130)		
LCS2	Trichlorofluoromethane		5	4.85	ug/L	97	(70-130)	20	19
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.470	ug/L	94	(50-150)		
MS_201601260315	Trichlorofluoromethane	ND	10	11.4	ug/L	114	(70-130)		
MS_201601260328	Trichlorofluoromethane	ND	10	11.4	ug/L	114	(70-130)		
MSD_201601260315	Trichlorofluoromethane	ND	10	11.7	ug/L	117	(70-130)	20	2.6
MSD_201601260328	Trichlorofluoromethane	ND	10	11.5	ug/L	115	(70-130)	20	0.87
LCS1	Trichlorotrifluoroethane(Freon		5	3.98	ug/L	80	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	4.70	ug/L	94	(70-130)	20	17
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.460	ug/L	92	(50-150)		
MS_201601260315	Trichlorotrifluoroethane(Freon	ND	10	10.9	ug/L	109	(70-130)		
MS_201601260328	Trichlorotrifluoroethane(Freon	ND	10	10.4	ug/L	103	(70-130)		
MSD_201601260315	Trichlorotrifluoroethane(Freon	ND	10	11.0	ug/L	110	(70-130)	20	0.91
MSD_201601260328	Trichlorotrifluoroethane(Freon	ND	10	10.8	ug/L	108	(70-130)	20	3.8
LCS1	Vinyl chloride (VC)		5	4.74	ug/L	95	(70-130)		
LCS2	Vinyl chloride (VC)		5	5.43	ug/L	109	(70-130)	20	14
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.490	ug/L	98	(50-150)		

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRLLW	Vinyl chloride (VC)		0.25	0.240	ug/L	96	(50-150)		
MS_201601260315	Vinyl chloride (VC)	ND	10	11.0	ug/L	110	(70-130)		
MS_201601260328	Vinyl chloride (VC)	ND	10	11.0	ug/L	110	(70-130)		
MSD_201601260328	Vinyl chloride (VC)	ND	10	11.2	ug/L	112	(70-130)	20	1.8
MSD_201601260315	Vinyl chloride (VC)	ND	10	11.2	ug/L	112	(70-130)	20	1.8
QC Ref# 892804 - Volatile Organics by GCMS by EPA 524.2						**Analysis Date: 02/22/2016**			
LCS1	1,1,1,2-Tetrachloroethane		5	5.36	ug/L	107	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	5.48	ug/L	110	(70-130)	20	2.2
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	1,1,1-Trichloroethane		5	4.65	ug/L	93	(70-130)		
LCS2	1,1,1-Trichloroethane		5	4.74	ug/L	95	(70-130)	20	1.9
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane		5	5.11	ug/L	102	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5	5.14	ug/L	103	(70-130)	20	0.59
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,1,2-Trichloroethane		5	5.09	ug/L	102	(70-130)		
LCS2	1,1,2-Trichloroethane		5	5.10	ug/L	102	(70-130)	20	0.20
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	1,1-Dichloroethane		5	5.17	ug/L	103	(70-130)		
LCS2	1,1-Dichloroethane		5	5.18	ug/L	104	(70-130)	20	0.19
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.590	ug/L	118	(50-150)		
LCS1	1,1-Dichloroethylene		5	5.18	ug/L	104	(70-130)		
LCS2	1,1-Dichloroethylene		5	4.95	ug/L	99	(70-130)	20	4.5
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,1-Dichloropropene		5	4.69	ug/L	94	(70-130)		
LCS2	1,1-Dichloropropene		5	4.83	ug/L	97	(70-130)	20	2.9
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.560	ug/L	112	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5	4.94	ug/L	99	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	5.02	ug/L	100	(70-130)	20	1.6
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.540	ug/L	108	(50-150)		

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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	1,2,3-Trichloropropane		5	4.97	ug/L	99	(70-130)		
LCS2	1,2,3-Trichloropropane		5	5.08	ug/L	102	(70-130)	20	2.2
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.610	ug/L	122	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5	5.00	ug/L	100	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	5.06	ug/L	101	(70-130)	20	1.2
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.580	ug/L	116	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5	4.91	ug/L	98	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	5.20	ug/L	104	(70-130)	20	5.7
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	1,2-Dichloroethane		5	5.10	ug/L	102	(70-130)		
LCS2	1,2-Dichloroethane		5	5.04	ug/L	101	(70-130)	20	1.2
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)			97.8	%	98	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			104	%	104	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)			108	%	108	(70-130)		
LCS1	1,2-Dichloropropane		5	5.17	ug/L	103	(70-130)		
LCS2	1,2-Dichloropropane		5	5.03	ug/L	101	(70-130)	20	2.8
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.570	ug/L	114	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5	5.26	ug/L	105	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	5.42	ug/L	108	(70-130)	20	3.0
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,3-Dichloropropane		5	4.94	ug/L	99	(70-130)		
LCS2	1,3-Dichloropropane		5	4.97	ug/L	99	(70-130)	20	0.61
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	2,2-Dichloropropane		5	4.99	ug/L	100	(70-130)		
LCS2	2,2-Dichloropropane		5	4.86	ug/L	97	(70-130)	20	2.6
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.540	ug/L	108	(50-150)		
LCS1	2-Butanone (MEK)		50	50.9	ug/L	102	(70-130)		

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	2-Butanone (MEK)		50	50.2	ug/L	100	(70-130)	20	1.4
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	7.27	ug/L	145	(50-150)		
LCS1	4-Bromofluorobenzene (S)			98.6	%	99	(70-130)		
LCS2	4-Bromofluorobenzene (S)			95.4	%	95	(70-130)		
MBLK	4-Bromofluorobenzene (S)			101	%	101	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)			103	%	103	(70-130)		
MRLLW	4-Bromofluorobenzene (S)			100	%	100	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	55.0	ug/L	110	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	53.3	ug/L	107	(70-130)	20	3.1
MBLK	4-Methyl-2-Pentanone (MIBK)			<5	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	5.23	ug/L	105	(50-150)		
LCS1	Benzene		5	5.06	ug/L	101	(70-130)		
LCS2	Benzene		5	5.07	ug/L	101	(70-130)	20	0.20
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.570	ug/L	114	(50-150)		
LCS1	Bromobenzene		5	4.92	ug/L	98	(70-130)		
LCS2	Bromobenzene		5	5.29	ug/L	106	(70-130)	20	7.3
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromochloromethane		5	5.28	ug/L	106	(70-130)		
LCS2	Bromochloromethane		5	5.16	ug/L	103	(70-130)	20	2.3
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	Bromodichloromethane		5	4.80	ug/L	96	(70-130)		
LCS2	Bromodichloromethane		5	4.95	ug/L	99	(70-130)	20	3.1
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.520	ug/L	104	(50-150)		
LCS1	Bromoethane		5	6.63	ug/L	**133**	(70-130)		
LCS2	Bromoethane		5	6.06	ug/L	121	(70-130)	20	9.0
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	Bromoform		5	4.84	ug/L	97	(70-130)		
LCS2	Bromoform		5	4.77	ug/L	95	(70-130)	20	1.5
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.390	ug/L	78	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5	5.52	ug/L	110	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	5.96	ug/L	119	(70-130)	20	7.7

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.710	ug/L	142	(50-150)		
LCS1	Carbon disulfide		5	4.73	ug/L	95	(70-130)		
LCS2	Carbon disulfide		5	4.82	ug/L	96	(70-130)	20	1.9
MBLK	Carbon disulfide			<0.5	ug/L				
MRL_CHK	Carbon disulfide		0.5	0.590	ug/L	118	(50-150)		
LCS1	Carbon Tetrachloride		5	4.75	ug/L	95	(70-130)		
LCS2	Carbon Tetrachloride		5	4.73	ug/L	95	(70-130)	20	0.42
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.430	ug/L	86	(50-150)		
LCS1	Chlorobenzene		5	4.96	ug/L	99	(70-130)		
LCS2	Chlorobenzene		5	4.99	ug/L	100	(70-130)	20	0.60
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.560	ug/L	112	(50-150)		
LCS1	Chlorodibromomethane		5	5.09	ug/L	102	(70-130)		
LCS2	Chlorodibromomethane		5	4.96	ug/L	99	(70-130)	20	2.6
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	Chloroethane		5	5.15	ug/L	103	(70-130)		
LCS2	Chloroethane		5	5.62	ug/L	112	(70-130)	20	8.7
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.630	ug/L	126	(50-150)		
LCS1	Chloroform (Trichloromethane)		5	5.11	ug/L	102	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	5.11	ug/L	102	(70-130)	20	0.0
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.610	ug/L	122	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5	6.77	ug/L	**135**	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	6.84	ug/L	**137**	(70-130)	20	1.0
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.710	ug/L	142	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5	4.98	ug/L	100	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	5.04	ug/L	101	(70-130)	20	1.2
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.670	ug/L	134	(50-150)		
LCS1	cis-1,3-Dichloropropene		5	5.00	ug/L	100	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	5.03	ug/L	101	(70-130)	20	0.60
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.510	ug/L	102	(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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Pima County DEQ

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Dibromomethane		5	5.31	ug/L	106	(70-130)		
LCS2	Dibromomethane		5	5.13	ug/L	103	(70-130)	20	3.5
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.600	ug/L	120	(50-150)		
LCS1	Dichlorodifluoromethane		5	6.40	ug/L	128	(70-130)		
LCS2	Dichlorodifluoromethane		5	6.37	ug/L	127	(70-130)	20	0.47
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Dichloromethane		5	5.32	ug/L	106	(70-130)		
LCS2	Dichloromethane		5	5.13	ug/L	103	(70-130)	20	3.6
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.380	ug/L	76	(50-150)		
LCS1	Di-isopropyl ether		5	4.92	ug/L	98	(70-130)		
LCS2	Di-isopropyl ether		5	4.93	ug/L	99	(70-130)	20	0.20
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.590	ug/L	118	(50-150)		
LCS1	Ethyl benzene		5	4.98	ug/L	100	(70-130)		
LCS2	Ethyl benzene		5	4.93	ug/L	99	(70-130)	20	1.0
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.550	ug/L	110	(50-150)		
LCS1	Hexachlorobutadiene		5	4.87	ug/L	97	(70-130)		
LCS2	Hexachlorobutadiene		5	4.87	ug/L	97	(70-130)	20	0.0
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.710	ug/L	142	(50-150)		
LCS1	Isopropylbenzene		5	4.73	ug/L	95	(70-130)		
LCS2	Isopropylbenzene		5	5.01	ug/L	100	(70-130)	20	5.8
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	m,p-Xylenes		10	10.6	ug/L	106	(70-130)		
LCS2	m,p-Xylenes		10	10.6	ug/L	106	(70-130)	20	0.0
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	1.00	ug/L	100	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.590	ug/L	118	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5	5.15	ug/L	103	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	5.17	ug/L	103	(70-130)	20	0.39
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.600	ug/L	120	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5	5.14	ug/L	103	(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	Methyl Tert-butyl ether (MTBE)		5	4.89	ug/L	98	(70-130)	20	5.0
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.570	ug/L	114	(50-150)		
LCS1	Naphthalene		5	5.12	ug/L	102	(70-130)		
LCS2	Naphthalene		5	5.02	ug/L	100	(70-130)	20	2.0
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.490	ug/L	98	(50-150)		
LCS1	n-Butylbenzene		5	4.88	ug/L	98	(70-130)		
LCS2	n-Butylbenzene		5	4.99	ug/L	100	(70-130)	20	2.2
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	n-Propylbenzene		5	4.58	ug/L	92	(70-130)		
LCS2	n-Propylbenzene		5	4.59	ug/L	92	(70-130)	20	0.22
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	o-Chlorotoluene		5	5.07	ug/L	101	(70-130)		
LCS2	o-Chlorotoluene		5	5.19	ug/L	104	(70-130)	20	2.3
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.490	ug/L	98	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5	5.14	ug/L	103	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	5.15	ug/L	103	(70-130)	20	0.19
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.590	ug/L	118	(50-150)		
LCS1	o-Xylene		5	5.05	ug/L	101	(70-130)		
LCS2	o-Xylene		5	5.13	ug/L	103	(70-130)	20	1.6
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.490	ug/L	98	(50-150)		
LCS1	p-Chlorotoluene		5	5.08	ug/L	102	(70-130)		
LCS2	p-Chlorotoluene		5	5.41	ug/L	108	(70-130)	20	6.3
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.570	ug/L	114	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5	5.08	ug/L	102	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	5.11	ug/L	102	(70-130)	20	0.59
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	5.07	ug/L	101	(70-130)		
LCS2	p-Isopropyltoluene		5	5.01	ug/L	100	(70-130)	20	1.2
MBLK	p-Isopropyltoluene			<0.5	ug/L				

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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%
MRL_CHK	p-Isopropyltoluene		0.5	0.450	ug/L	90	(50-150)		
LCS1	sec-Butylbenzene		5	4.94	ug/L	99	(70-130)		
LCS2	sec-Butylbenzene		5	5.14	ug/L	103	(70-130)	20	4.0
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	Styrene		5	5.26	ug/L	105	(70-130)		
LCS2	Styrene		5	5.40	ug/L	108	(70-130)	20	2.6
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.460	ug/L	92	(50-150)		
LCS1	tert-amyl Methyl Ether		5	4.95	ug/L	99	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.94	ug/L	99	(70-130)	20	0.20
MBLK	tert-amyl Methyl Ether			<3	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.520	ug/L	104	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5	5.13	ug/L	103	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	4.96	ug/L	99	(70-130)	20	3.4
MBLK	tert-Butyl Ethyl Ether			<3	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.670	ug/L	134	(50-150)		
LCS1	tert-Butylbenzene		5	4.72	ug/L	94	(70-130)		
LCS2	tert-Butylbenzene		5	4.88	ug/L	98	(70-130)	20	3.3
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5	5.00	ug/L	100	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	5.11	ug/L	102	(70-130)	20	2.2
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.560	ug/L	112	(50-150)		
LCS1	Toluene		5	5.07	ug/L	101	(70-130)		
LCS2	Toluene		5	4.96	ug/L	99	(70-130)	20	2.2
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.550	ug/L	110	(50-150)		
LCS1	Toluene-d8 (S)			101	%	101	(70-130)		
LCS2	Toluene-d8 (S)			97.2	%	97	(70-130)		
MBLK	Toluene-d8 (S)			94.0	%	94	(70-130)		
MRL_CHK	Toluene-d8 (S)			97.0	%	97	(70-130)		
MRLLW	Toluene-d8 (S)			97.8	%	98	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	5.43	ug/L	109	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	5.24	ug/L	105	(70-130)	20	3.6
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.650	ug/L	130	(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	trans-1,3-Dichloropropene		5	5.36	ug/L	107	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	5.34	ug/L	107	(70-130)	20	0.37
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Trichloroethylene (TCE)		5	4.85	ug/L	97	(70-130)		
LCS2	Trichloroethylene (TCE)		5	5.02	ug/L	100	(70-130)	20	3.4
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Trichlorofluoromethane		5	4.76	ug/L	95	(70-130)		
LCS2	Trichlorofluoromethane		5	4.86	ug/L	97	(70-130)	20	2.1
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.410	ug/L	82	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5	5.12	ug/L	102	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	5.11	ug/L	102	(70-130)	20	0.20
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	5.50	ug/L	110	(70-130)		
LCS2	Vinyl chloride (VC)		5	5.51	ug/L	110	(70-130)	20	0.18
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	0.180	ug/L	72	(50-150)		
QC Ref# 892896 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 02/22/2016**			
CCCH	1,4-Dioxane		50	47.5	ug/L	95	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0780	ug/L	111	(50-150)		
CCCM	1,4-Dioxane		20	19.5	ug/L	97	(70-130)		
LCS1	1,4-Dioxane		20	19.1	ug/L	96	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0730	ug/L	104	(50-150)		
MS1_201602170756	1,4-Dioxane	ND	0.07	0.0790	ug/L	84	(50-150)		
MSD1_201602170756	1,4-Dioxane	ND	0.07	0.0730	ug/L	76	(50-150)	20	7.9
CCCH	Dioxane-d8			96.4	%	96	(70-130)		
CCCL	Dioxane-d8			98.5	%	99	(70-130)		
CCCM	Dioxane-d8			98.9	%	99	(70-130)		
LCS1	Dioxane-d8			106	%	106	(70-130)		
MBLK	Dioxane-d8			113	%				
MRL_CHK	Dioxane-d8			91.4	%	91	(70-130)		
MS1_201602170756	Dioxane-d8	85		91.1	%	91	(70-130)		
MSD1_201602170756	Dioxane-d8	85		93.8	%	94	(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%
CCCH	THF-d8			103	%	103	(50-150)		
CCCL	THF-d8			105	%	105	(50-150)		
CCCM	THF-d8			108	%	109	(50-150)		
LCS1	THF-d8			110	%	110	(50-150)		
MBLK	THF-d8			109	%				
MRL_CHK	THF-d8			120	%	120	(50-150)		
MS1_201602170756	THF-d8	128		125	%	125	(50-150)		
MSD1_201602170756	THF-d8	128		106	%	106	(50-150)		
QC Ref# 895004 - UCMR3 1,4-Dioxane by EPA 522 by EPA 522						**Analysis Date: 03/02/2016**			
CCCH	1,4-Dioxane		50	47.8	ug/L	96	(70-130)		
CCCL	1,4-Dioxane		0.07	0.0740	ug/L	106	(50-150)		
CCCM	1,4-Dioxane		20	19.4	ug/L	97	(70-130)		
LCS1	1,4-Dioxane		20	18.7	ug/L	94	(70-130)		
MBLK	1,4-Dioxane			<0.023	ug/L				
MRL_CHK	1,4-Dioxane		0.07	0.0600	ug/L	86	(50-150)		
MS_201601260328	1,4-Dioxane	1.2	20	22.4	ug/L	106	(70-130)		
MSD_201601260328	1,4-Dioxane	1.2	20	18.8	ug/L	88	(70-130)	20	18
CCCH	Dioxane-d8			95.5	%	95	(70-130)		
CCCL	Dioxane-d8			99.8	%	100	(70-130)		
CCCM	Dioxane-d8			96.6	%	97	(70-130)		
LCS1	Dioxane-d8			91.0	%	91	(70-130)		
MBLK	Dioxane-d8			86.5	%				
MRL_CHK	Dioxane-d8			87.1	%	87	(70-130)		
MS_201601260328	Dioxane-d8	86		96.0	%	96	(70-130)		
MSD_201601260328	Dioxane-d8	86		85.2	%	85	(70-130)		
CCCH	THF-d8			98.9	%	99	(50-150)		
CCCL	THF-d8			109	%	109	(50-150)		
CCCM	THF-d8			108	%	108	(50-150)		
LCS1	THF-d8			113	%	113	(50-150)		
MBLK	THF-d8			106	%				
MRL_CHK	THF-d8			112	%	112	(50-150)		
MS_201601260328	THF-d8	131		98.2	%	98	(50-150)		
MSD_201601260328	THF-d8	131		106	%	106	(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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PIMA COUNTY DEPARTMENT OF ENVIRONMENTAL QUALITY

DATA VALIDATION REPORT

SOUTH-SIDE PRIVATE WELL MONITORING PROGRAM

June 2016

DATA VALIDATION REPORT

SOUTH-SIDE PRIVATE WELL MONITORING PROGRAM

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DATA VALIDATION REPORT
SOUTH-SIDE PRIVATE WELL MONITORING PROGRAM

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APPENDICES

A. Data Validation Worksheets

1 INTRODUCTION

Arcadis performed data validation on three Level IV 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 12 groundwater and drinking water samples were collected during February 2016. Six quality control (QC) samples, consisting of two trip blanks, two field blanks, and two field duplicates, were also submitted to the laboratory for analysis. 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 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;
- Field Duplicates; and
- Other applicable QC parameters (calibration, quantitation check, internal standards, and instrument tune check).

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.

Results from this sampling event that required qualification based on the data verification are summarized in Table 3. Data validation worksheets are included in Appendix A.

2.1 Chain-of-Custody

The chain-of-custody forms included sample identification numbers, date and time of collection, requested parameters, and relinquished/received signatures. The chain-of-custody documentation associated with project samples was found to be complete with the following exceptions:

- The trip blank sample associated with work order #572745 did not have matching sample IDs between the chain-of-custody and laboratory login.
- The trip blank sample associated with work order #572747 was not listed on the chain-of-custody, and was designated 2015-TB-02 by laboratory login.

2.2 Sample Preservation and Temperature Upon Laboratory Receipt

Samples were received by the laboratory intact and were properly preserved. The samples submitted to the project laboratory received at the correct temperature (4±2 °Celsius) with the following exceptions:

- Coolers associated with work orders #572745, #572747 (one cooler), and #576312 were received at 0.5, 0.6, and 0.3 degrees Celsius, respectively. The temperature outliers did not impact sample results; therefore data qualification was not required.

2.3 Holding Times

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

2.4 Blank Contamination

2.4.1 Method Blank

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 Blank

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 Blank

Field blanks were performed at the appropriate frequency as specified in the PDEQ Sampling and Analysis Plan (PDEQ, 2002). Target compounds were not detected in the two field blanks collected during this sampling event except for the following:

- Chloroform was detected in field blanks collected on February 16 and 17, 2016. Data qualification was not required because chloroform was not detected in associated samples.

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 except for the following:

- The LCS recovery for bromoethane (133 percent) was above acceptance limits (70 to 130 percent) for analytical batch 892804. Data qualification was not required because the associated samples were non-detect for this analyte.
- The LCS and LCS duplicate recovery for chloromethane (135 and 137 percent) were above acceptance limits (70 to 130 percent) for analytical batch 892804. Data qualification was not required because the associated samples were non-detect for this analyte.
- The LCS and LCS duplicate RPD (31 percent) exceeded acceptance limits (0 to 20 percent) for chloromethane in analytical batch 892504. Data qualification was not required because the LCS and LCS duplicate 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 exception:

- The MS/MSD for sample 2016-PW-07-02 had high RPD values for chloroform (34 percent) which exceeded the acceptance limits (0 to 20 percent). Data qualification was not required since the MS and MSD recoveries were within acceptance limits.

2.8 Field Duplicates

Three field duplicates were collected and analyzed during this monitoring event. The results and calculated RPDs are presented in Table 4. The field duplicate RPDs were evaluated by the following criteria:

- If an analyte was detected at a concentration greater than five times the method reporting limit, the RPD should be less than 30 percent.

- If an analyte was detected at a concentration that is less than five times the method reporting limit, then the difference between the sample and the field duplicate should not exceed the method reporting limit.
- Duplicate RPDs are calculated by dividing the difference of the concentrations by the average of the concentrations.

Field duplicate RPD values were within acceptance criteria except for the following:

- The RPD values between 2016-PW-11-02 and 2016-PW-11-02D for chromium (37 percent) were above the acceptance limit. Data qualification "J" was assigned to indicate a potential bias.

2.9 Other Applicable QC Parameters

2.9.1 Calibration

Initial and continuing calibration standards were evaluated for all analyses and were found to be acceptable. Instrument tune checks were also evaluated for methods 524.2 and 522 were found to be acceptable. 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 for all methods.

2.9.2 Quantitation Check

Result quantitation checks were performed for methods 524.2 and 522 were found to be acceptable.

3 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 97 percent. The technical completeness attained for this sampling event was 100 percent. The completeness results are provided in Table 5.

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 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

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

April 18, 2016

[redacted]

Subject: Laboratory Results for Water Samples Collected on February 16, 2016 at Well #07

Dear [redacted],

Enclosed are laboratory results for the water samples that Pima County Department of Environmental Quality (PDEQ) collected from the outdoor tap on February 16, 2016 located at Well #7 located at [redacted].

The data are currently being validated and you will be notified if the laboratory values change as a result of this validation process. The following table summarizes the analytical results from the attached laboratory report and shows the maximum contaminant level (MCL) or the target risk range for each of the contaminants established by the United States Environmental Protection Agency (EPA).

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	Target Risk Range*
16-PW07-01 outdoor Tap	02/16/16	**3.2**	5	**ND @ 1.0**	100	**0.096**	0.35 - 35
16-PW07-02 outdoor Tap	02/16/16	**2.9**	5	**ND @ 1.0**	100	**0.10**	0.35 - 35

µg/L = micrograms per liter
TCE = trichloroethene = trichloroethylene
MCL= maximum contaminant level
ND = non-detectable concentration at the identified reporting limit
*Target Risk Range has a low level called the Regional Screening Level and is equal to 0.35µg/L

EPA's MCL values for trichloroethene (or trichloroethylene or TCE) and chromium establish the highest permissible concentrations in drinking water. The EPA has not yet established an enforceable drinking water standard for 1,4-dioxane. Consequently, EPA established a target

risk range of 1 in 1,000,000 and 1 in 10,000 for hazardous waste sites. This range is used to determine if additional safeguards are needed. The lower end of the 1,4-dioxane target risk range is called a Regional Screening Level (RSL) and is equivalent to 0.35 µg/L. The upper end of the 1,4-dioxane target risk range is 35 µg/L.

The water samples contained low levels of TCE and chromium both of which are below the MCL. The water samples also contained low levels of 1,4-dioxane, which is below the RSL. Based on the sampling results for TCE, chromium and 1,4-dioxane, water from your well may be used for drinking, cooking and bathing purposes.

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

Sincerely,

Marie Light

Marie Light
Principal Hydrologist

Attachment: Laboratory reports

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

Notification Letter - Private Well 07

Attachment Included

Refer to Appendix D. Laboratory Analytical Results

Pages 50-68, 71-95

PIMA COUNTY
ENVIRONMENTAL QUALITY

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Ursula Nelson, P.E.
Director FAX

(520) 724-7400
(520) 838-7432

April 18, 2016

[redacted]

Subject: Laboratory Results for Water Samples Collected on February 16, 2016 at Well #11

Dear [redacted]:

Enclosed are laboratory results for the water samples that Pima County Department of Environmental Quality (PDEQ) collected from the outdoor tap and well head on February 16, 2016 at Well #11 located at [redacted].

The data are currently being validated and you will be notified if the laboratory values change as a result of this validation process. The following table summarizes the analytical results from the attached laboratory report and shows the maximum contaminant level (MCL) or the target risk range for each of the contaminants established by the Unites States Environmental Protection Agency (EPA).

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	Target Risk Range*
16-PW11-01 outdoor tap	02/16/16	**1.5**	5	**5.8**	100	**1.0**	0.35 - 35
16-PW11-02 well head	02/16/16	**1.5**	5	**12**	100	**1.0**	0.35 - 35
16-PW11-02 duplicate	02/16/16	**1.7**	5	**8.3**	100	**1.2**	0.35 - 35

µg/L = micrograms per liter
TCE = trichloroethene = trichloroethylene
MCL= maximum contaminant level
*Target Risk Range has a low level called the Regional Screening Level and is equal to 0.35µg/L

EPA's MCL values for trichloroethene (or trichloroethylene or TCE) and chromium establish the highest permissible concentrations in drinking water. The EPA has not yet established an

enforceable drinking water standard for 1,4-dioxane. Consequently, EPA established a target risk range between 1 in 1,000,000 and 1 in 10,000 for hazardous waste sites. This range is used to determine if additional safeguards are needed. The lower end of the 1,4-dioxane target risk range is called a Regional Screening Level (RSL) and is equivalent to 0.35 µg/L. The upper end of the 1,4-dioxane target risk range is 35 µg/L.

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 are within EPA's target risk range. The Arizona Department of Health Services recommends regular monitoring of the water to verify that the concentration does not rise above 35 µg/L. PDEQ plans to sample this well next year, with your permission. Based on the sampling results for TCE, chromium and 1,4-dioxane, the well water may be used for drinking, cooking and bathing.

Please call if you have any questions or if you would like to discuss the laboratory report. 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

Notification Letter - Private Well 11

Attachment Included

Refer to Appendix D. Laboratory Analytical Results

Pages 1-8, 15-41, 48-59, 69-95

PIMA COUNTY
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Ursula Nelson, P.E.
Director FAX

(520) 724-7400
(520) 838-7432

April 18, 2016

[redacted]

Subject: Laboratory Results for Water Samples Collected on February 16, 2016 @ Well #12

Dear [redacted]:

Enclosed are laboratory results for the water samples that Pima County Department of Environmental Quality (PDEQ) collected from an outdoor tap and well head on February 16, 2016 at Well #12 located at [redacted].

The data are currently being validated and you will be notified if the laboratory values change as a result of this validation process. The following table summarizes the analytical results from the attached laboratory report and shows the maximum contaminant level (MCL) or the target risk range for each of the contaminants established by the Unites States Environmental Protection Agency (EPA).

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	Target Risk Range*
16-PW12-01 outdoor tap	02/16/16	**ND @ .5**	5	**6.0**	100	**ND @ .07**	0.35 - 35
16-PW12-02 well head	02/16/16	**0.53**	5	**6.1**	100	**ND @ .07**	0.35 - 35

µg/L = micrograms per liter
TCE = trichloroethene = trichloroethylene
MCL= maximum contaminant level
ND = non-detectable at the identified reporting limit
*Target Risk Range has a low level called the Regional Screening Level and is equal to 0.35µg/L

EPA's MCL values for trichloroethene (or trichloroethylene or TCE) and chromium establish the highest permissible concentrations in drinking water. The EPA has not yet established an enforceable drinking water standard for 1,4-dioxane. Consequently, EPA established a target

risk range of 1 in 1,000,000 and 1 in 10,000 for hazardous waste sites. This range is used to determine if additional safeguards are needed. The lower end of the 1,4-dioxane target risk range is called a Regional Screening Level (RSL) and is equivalent to 0.35 µg/L. The upper end of the 1,4-dioxane target risk range is 35 µg/L.

The samples contained low levels of TCE and chromium both of which are below the MCL. The water samples had no detectable concentrations of 1,4-dioxane. Based on the sampling results for TCE, chromium and 1,4-dioxane, water from your well may be used for drinking, cooking and bathing.

Please call if you have any questions or if you would like to discuss the laboratory report. 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
Mary Vasquez / Emery Park Mobile Homes

Notification Letter - Private Well 12

Attachment Included

Refer to Appendix D. Laboratory Analytical Results

Pages 1-15, 20-49

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

April 18, 2016

[redacted]

Subject: Laboratory Results for Water Samples Collected on February 17, 2016 at Well #13

Dear [redacted]:

Enclosed are laboratory results for the water samples that Pima County Department of Environmental Quality (PDEQ) collected from the indoor tap and well head on February 17, 2106 at Well #13 located at [redacted].

The data are currently being validated and you will be notified if the laboratory values change as a result of this validation process. The following table summarizes the analytical results from the attached laboratory report and shows the maximum contaminant level (MCL) or the target risk range for each of the contaminants established by the United States Environmental Protection Agency (EPA).

sample number / sample source	sample date	concentration (µg/L or parts per billion)					
		TCE		chromium		1,4-dioxane	
		lab results	MCL	lab results	MCL	lab results	Target Risk Range*
16-PW13-01 bathroom sink tap	02/17/16	**1.4**	5	**5.8**	100	**1.6**	0.35 – 35
16-PW13-02 well head	02/17/16	**1.2**	5	**5.6**	100	**1.4**	0.35 - 35

µg/L = micrograms per liter
TCE = trichloroethene = trichloroethylene
MCL= maximum contaminant level
*Target Risk Range has a low level called the Regional Screening Level and is equal to 0.35µg/L

EPA's MCL values for trichloroethene (or trichloroethylene or TCE) and chromium establish the highest permissible concentrations in drinking water. The EPA has not yet established an

enforceable drinking water standard for 1,4-dioxane. Consequently, EPA established a target risk range of 1 in 1,000,000 and 1 in 10,000 for hazardous waste sites. This range is used to determine if additional safeguards are needed. The lower end of the 1,4-dioxane target risk range is called a Regional Screening Level and is equivalent to 0.35 µg/L. The upper end of the 1,4-dioxane target risk range is 35 µg/L.

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 indoor tap and well head are within EPA's target risk range. The Arizona Department of Health Services recommends regular monitoring of the water to verify the concentration does not rise above 35 µg/L.

The well was disconnected from the distribution system in March, 2016 and the City of Tucson Water Department is delivering water to the residents. Therefore PDEQ will no longer collect samples from the well.

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

Notification Letter - Private Well 13

Attachment Included

Refer to Appendix D. Laboratory Analytical Results

Pages 96-102, 105-115, 130-155

PIMA COUNTY
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Director FAX (520) 838-7432

April 18, 2016

[redacted]

Subject: Laboratory Results for Water Samples Collected on February 17, 2016 at Well #14

Dear [redacted]:

Enclosed are laboratory results for the water samples that Pima County Department of Environmental Quality (PDEQ) collected from the well head on February 17, 2016 at Well #14 located at [redacted]

The data are currently being validated and you will be notified if the laboratory values change as a result of this validation process. The following table summarizes the analytical results from the attached laboratory reports and shows the maximum contaminant level (MCL) or the target risk range for each of the contaminants established by the Unites States Environmental Protection Agency (EPA).

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	Target Risk Range*
16-PW14-01 well head	02/17/16	**0.64**	5	**6.8**	100	**2.5**	0.35 – 35
16-PW14-02 well head	02/17/16	**2.1**	5	**16**	100	**2.7**	0.35 – 35
16-PW14-02 duplicate	02/17/16	**1.6**	5	**14**	100	**2.4**	0.35 – 35

µg/L = micrograms per liter
TCE = trichloroethene = trichloroethylene
MCL= maximum contaminant level
*Target Risk Range has a low level called the Regional Screening Level and is equal to 0.35µg/L

EPA's MCL values for trichloroethene (or trichloroethylene or TCE) and chromium establish the

highest permissible concentrations in drinking water. The EPA has not yet established an enforceable drinking water standard for 1,4-dioxane. Consequently, EPA established a target risk range between 1 in 1,000,000 and 1 in 10,000 for hazardous waste sites. This range is used to determine if additional safeguards are needed. The lower end of the 1,4-dioxane target risk range is called a Regional Screening Level (RSL) and is equivalent to 0.35 µg/L. The upper end of the 1,4-dioxane target risk range is 35 µg/L.

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 well head are within EPA's target risk range. The Arizona Department of Health Services recommends regular monitoring of the water to verify the concentration does not rise above 35 µg/L. PDEQ plans to sample this well next year, with your permission. Based on the sampling results for TCE, chromium and 1,4-dioxane, the well water may be used for drinking, cooking and bathing.

Please call if you have any questions or if you would like to discuss the laboratory report. 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

Notification Letter - Private Well 14

Attachment Included

Refer to Appendix D. Laboratory Analytical Results

Pages 96-106, 115-121, 130-155

PIMA COUNTY
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Director FAX

(520) 724-7400
(520) 838-7432

April 18, 2016

[redacted]

Subject: Laboratory Results for Water Samples Collected on February 17, 2016 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 17, 2016 at Well #20 located at [redacted].

The data are currently being validated and you will be notified if the laboratory values change as a result of this validation process. The following table summarizes the analytical results from the attached laboratory report and shows the maximum contaminant level (MCL) or the target risk range for each of the contaminants established by the United States Environmental Protection Agency (EPA).

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	Target Risk Range*
16-PW20-01 bathroom sink tap	02/17/16	**0.81**	5	**1.5**	100	**1.0**	0.35 - 35
16-PW20-02 well head	02/17/16	**ND @ 0.5**	5	**4.1**	100	**1.2**	0.35 - 35

µg/L = micrograms per liter
TCE = trichloroethene = trichloroethylene
MCL= maximum contaminant level
ND = non-detectable concentration at the identified reporting limit
*Target Risk Range has a low level called the Regional Screening Level and is equal to 0.35µg/L

EPA's MCL values for trichloroethene (or trichloroethylene or TCE) and chromium establish the highest permissible concentrations in drinking water. The EPA has not yet established an

enforceable drinking water standard for 1,4-dioxane. Consequently, EPA established a target risk range between 1 in 1,000,000 and 1 in 10,000 for hazardous waste sites. This range is used to determine if additional safeguards are needed. The lower end of the 1,4-dioxane target risk range is called a Regional Screening Level (RSL) and is equivalent to 0.35 µg/L. The upper end of the 1,4-dioxane target risk range is 35 µg/L.

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 bathroom sink tap and well head are within EPA's target risk range. The Arizona Department of Health Services recommends regular monitoring of the water to verify the concentration does not rise above 35 µg/L. PDEQ plans to sample this well next year, with your permission. Based on the sampling results for TCE, chromium and 1,4-dioxane, the well water may be used for drinking, cooking and bathing.

Please call if you have any questions or if you would like to discuss the laboratory report. 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

Notification Letter - Private Well 20

Attachment Included

Refer to Appendix D. Laboratory Analytical Results

Pages 96-100, 102-106, 121-155

PIMA COUNTY
ENVIRONMENTAL QUALITY

MEMORANDUM

DATE: July 18, 2016

TO: Honorable Richard Elias
Supervisor, District 5

FROM: Ursula Nelson, P.E.
Director

RE: **2016** Private Drinking Water Well Monitoring in District 5

This memorandum provides the sampling results for residential 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 funded under contract to the Tucson Airport Authority (TAA). The United States Environmental Protection Agency (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, Arizona Department of Environmental Quality (ADEQ), and TAA receive the water quality sampling results. A description of the sampling results is provided for both districts.

In February, 2016, six of seven residential water wells were sampled, two of which are located within District 5 (Figure 1). Water samples from all six wells had low concentrations of TCE and chromium. All TCE concentrations were below 3.2 µg/L, which is below the Maximum Contaminant level (MCL) of 5 µg/L. All chromium concentrations were below 16 µg/L, which is below the chromium MCL of 100 µg/L. The seventh well owner declined to participate this year.

The trend for 1,4-dioxane concentrations falls into two patterns: remaining non-detect or close to non-detect and remaining within EPA's target risk range with a recent declining trend. . EPA has not yet established an enforceable drinking water standard for 1,4-dioxane. Their common practice for hazardous waste sites is to establish a target risk range for increased cancer over a lifetime between 1 in 1,000,000 (10^{-6}) and 1 in 10,000 (10^{-4}). This range is used to determine if additional safeguards are needed. The lower level of the 1,4-dioxane target risk range is called a Regional Screening Level (RSL) and is equivalent to 0.35 µg/L. The upper level of the 1,4-dioxane target risk range is 35 µg/L. The Arizona Department of Health Services (ADHS) recommends regular water quality monitoring of wells that are within EPA's target risk range. The monitoring program functions to identify when well water use is safe for drinking, cooking and bathing as well as when the well water should be replaced by bottled water for drinking and cooking purposes or directed to landscape irrigation only.

Within your district, two private wells had concentrations of 1,4-dioxane ranging between 1.0 and

1.1 μg/L. Concentrations at both wells are within EPA's target risk range of 0.35 to 35 μg/L for 1,4-dioxane. Based on the results for TCE, chromium and 1,4-dioxane, the well owners have been advised the water is safe for drinking, cooking and bathing though they may choose bottled water as an alternative. The conclusion is based on the ADHS's 2014 *Health Consultation Evaluation of 1,4-Dioxane Water Sampling Results from a Groundwater Well* that found the risk was very low. 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.

The new property owner of PW-13 decided to stop using the well due to the presence of 1,4-dioxane. The property owner established a connection to Tucson Water's Public Water System. PDEQ assisted in the disconnection of PW-13 to verify an air gap existed between the well and the mobile home park's distribution system. The total number of residential wells remaining within this sampling program is now six.

PDEQ will continue to monitor the residential wells for the next three years, at a minimum, given we receive the well owner's permission. 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.

cc: C. H. Huckelberry, County Administrator
John Bernal, Deputy County Administrator for Public Works

Memorandum to Supervisor Elias
RE: 2016 Private Drinking Water Well Monitoring in District 5
July 18, 2016
Page 3

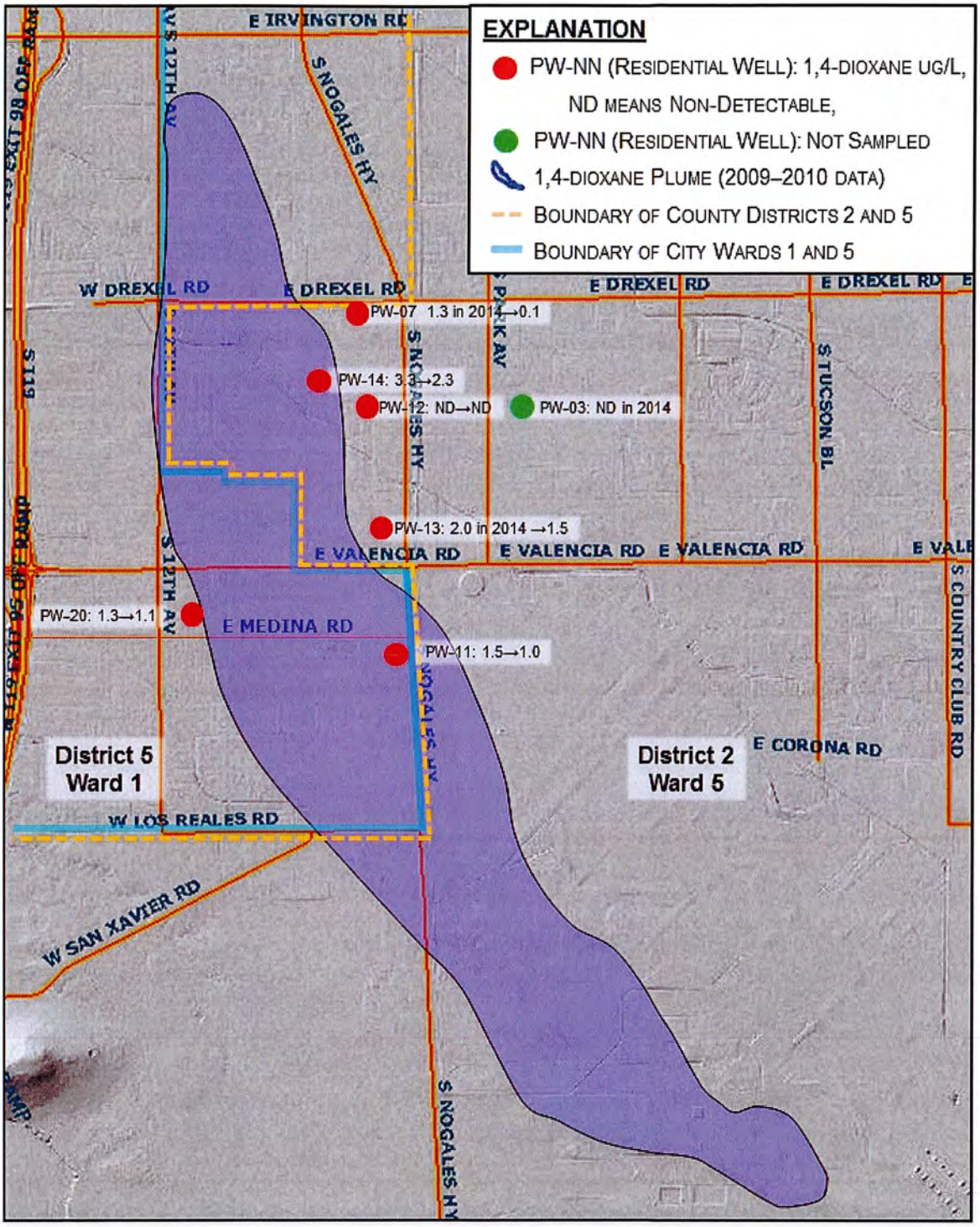

Figure 1. Private Well Data Showing the Change in 1,4-Dioxane Concentrations from Most Recent Sample to 2016. (Most recent sample is 2015, unless specified otherwise.)

PIMA COUNTY
ENVIRONMENTAL QUALITY

MEMORANDUM

DATE: July 18, 2016

TO: Honorable Ramón Valadez
Supervisor, District 2

FROM: Ursula Nelson, P.E.
Director

RE: **2016** Private Drinking Water Well Monitoring in District 2

This memorandum provides the sampling results for residential 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 funded under contract to the Tucson Airport Authority (TAA). The United Stated Environmental Protection Agency (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, Arizona Department of Environmental Quality (ADEQ), and TAA receive the water quality sampling results. A description of the sampling results is provided for both districts.

In February, 2016, six of seven residential water wells were sampled, four of which are located within District 2 (Figure 1). Water samples from all six wells had low concentrations of TCE and chromium. All TCE concentrations were below 3.2 µg/L, which is below the Maximum Contaminant level (MCL) of 5 µg/L. All chromium concentrations were below 16 µg/L, which is below the chromium MCL of 100 µg/L. The seventh well owner declined to participate this year.

The trend for 1,4-dioxane concentrations falls into two patterns: remaining non-detect or close to non-detect and remaining within EPA's target risk range with a recent declining trend. EPA has not yet established an enforceable drinking water standard for 1,4-dioxane. Their common practice for hazardous waste sites is to establish a target risk range for increased cancer over a lifetime between 1 in 1,000,000 (10^{-6}) and 1 in 10,000 (10^{-4}). This range is used to determine if additional safeguards are needed. The lower level of the 1,4-dioxane target risk range is called a Regional Screening Level (RSL) and is equivalent to 0.35 µg/L. The upper level of the 1,4-dioxane target risk range is 35 µg/L. The Arizona Department of Health Services (ADHS) recommends regular water quality monitoring of wells that are within EPA's target risk range. The monitoring program functions to identify when well water use is safe for drinking, cooking and bathing as well as when the well water should be replaced by bottled water for drinking, cooking and bathing and when the well water should be replace by bottled water for drinking and cooking purposes or directed to landscape irrigation only.

Within your district, one well remained non-detect for 1,4-dioxane and a second had a concentration of 0.1 μg/L. The other two residential wells had concentrations of 1,4-dioxane ranging between 1.5 and 2.3 μg/L. Concentrations at these two wells are within EPA's target risk range of 0.35 and 35 μg/L. Based on the results for TCE, chromium and 1,4-dioxane, the well owners have been advised the water is safe for drinking, cooking and bathing though they may choose bottled water as an alternative. The conclusion is based on ADHS's 2014 *Health Consultation Evaluation of 1,4-Dioxane Water Sampling Results from a Groundwater Well* that found the risk was very low. 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.

The new property owner of PW-13 decided to stop using the well due to the presence of 1,4-dioxane. The property owner established a connection to Tucson Water's Public Water System. PDEQ assisted in the disconnection of PW-13 to verify an air gap existed between the well and the mobile home park's distribution system. The total number of residential wells remaining within this sampling program is now six.

PDEQ will continue to monitor the residential wells for the next four years, at a minimum, given we receive the well owner's permission. 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.

cc: C. H. Huckelberry, County Administrator
John Bernal, Deputy County Administrator for Public Works

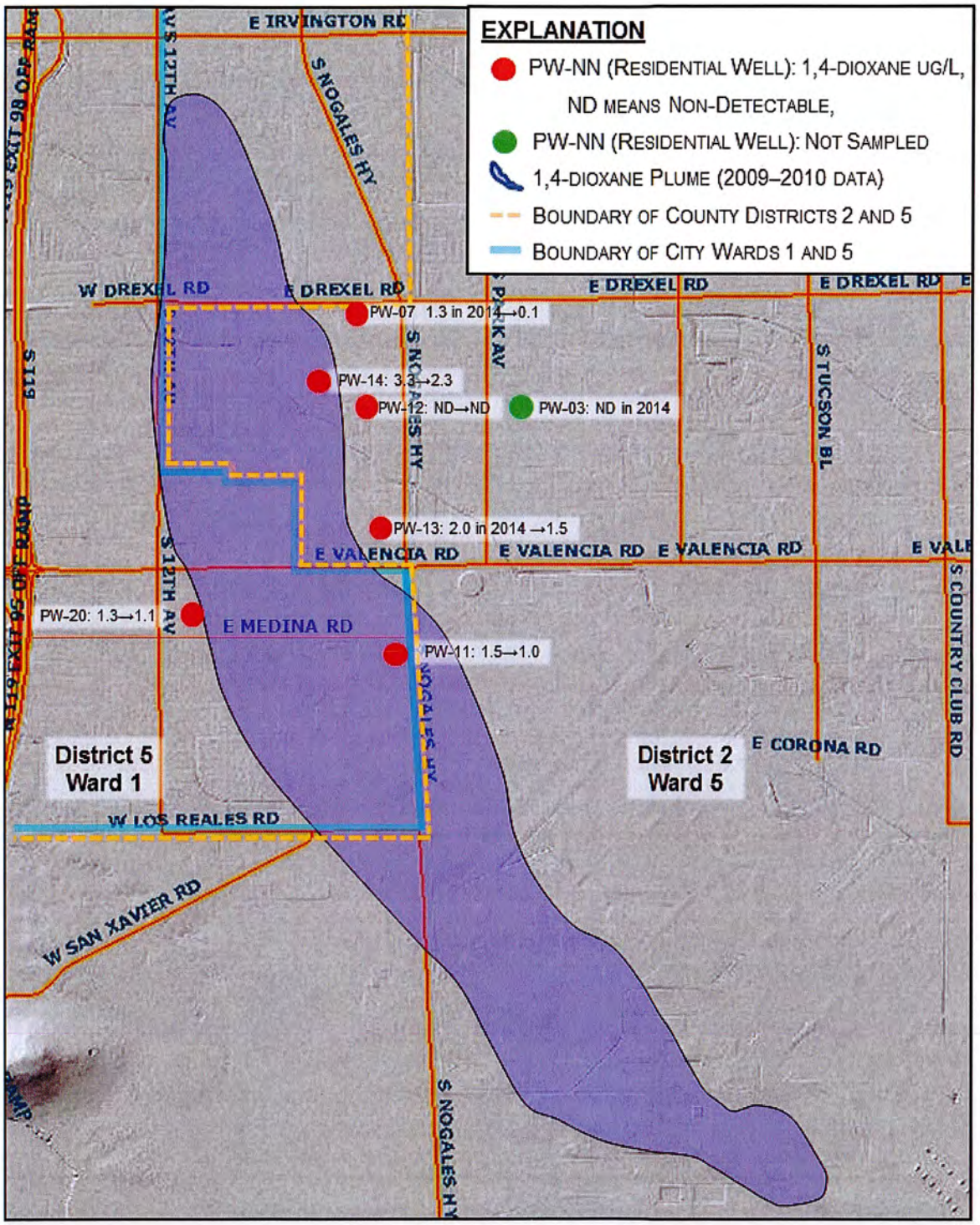

Figure 1. Private Well Data Showing the Change in 1,4-Dioxane Concentrations from Most Recent Sample to 2016. (Most recent sample is 2015, unless specified otherwise.)

PIMA COUNTY
ENVIRONMENTAL QUALITY
33 N. Stone Avenue, Suite 700
Tucson, Arizona 85701-1429
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Ursula Nelson, P.E.
Director

(520) 724-7400
FAX (520) 838-7432

July 18, 2016

Honorable Richard Fimbres
Tucson City Council Member
Southside Ward 5
4300 S. Park Avenue
Tucson, AZ 85714

Re: **2016** Private Well Water Monitoring Program

Dear Council Member Fimbres:

This letter provides the sampling results for residential 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 under contract to the Tucson Airport Authority (TAA). The United States Environmental Protection Agency (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, Arizona Department of Environmental Quality (ADEQ) and TAA receive the water quality sampling results. A description of sample results is provided for both wards.

In February, 2016, six residential water wells were sampled, four of which are located within Ward 5 (Figure 1). Water samples from all six wells had low concentrations of TCE and chromium. All TCE concentrations were below 3.2 µg/L, which is below the Maximum Contaminant level (MCL) of 5 µg/L. All chromium concentrations were below 16 µg/L, which is below the chromium MCL of 100 µg/L.

The trend for 1,4-dioxane falls into two patterns: remaining non-detect or close to non-detect and remaining within EPA's target risk range with a recent declining trend. EPA has not yet established an enforceable drinking water standard for 1,4-dioxane. Their common practice for hazardous waste sites is to establish a target risk range for increased cancer over a lifetime between 1 in 1,000,000 (10^{-6}) and 1 in 10,000 (10^{-4}). This range is used to determine if additional safeguards are needed. The lower level of the 1,4-dioxane target risk range is called a Regional Screening Level (RSL) and is equivalent to 0.35 µg/L. The upper level of the 1,4-dioxane target risk range is 35 µg/L. The Arizona Department of Health Services (ADHS) recommends regular water quality monitoring of wells that are within EPA's target risk range. The monitoring program functions to identify when well water use is safe for drinking, cooking and bathing as

well as when the well water should be replaced by bottled water for drinking and cooking purposes or directed to landscape irrigation only.

Within your ward, one well remained non-detect for 1,4-dioxane and a second well had a concentration of 0.1 µg/L. The other two residential wells had concentrations of 1,4-dioxane ranging between 1.5 and 2.3 µg/L. Concentrations at these two wells are within EPA's target risk range of 0.35 and 35 µg/L. Based on the results for TCE, chromium and 1,4-dioxane, the well owners have been advised the water is safe for drinking, cooking and bathing though they may choose bottled water as an alternative. The conclusion is based on ADHS's 2014 *Health Consultation Evaluation of 1,4-Dioxane Water Sampling Results from a Groundwater Well* that found the risk was very low. 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.

The new property owner of PW-13 decided to stop using the well due to the presence of 1,4-dioxane. The property owner established a connection to Tucson Water's Public Water System. PDEQ assisted in the disconnection of PW-13 to verify an air gap existed between the well and the mobile home park's distribution system. The total number of residential wells remaining within this sampling program is now six.

PDEQ will continue to monitor the privately-owned wells for the next three years, at a minimum, given we receive the well owner's permission. 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

cc: C. H. Huckelberry, County Administrator
John Bernal, Deputy County Administrator for Public Works
Michael Ortega, City Manager

Letter to Council Member Fimbres
RE: 2016 Private Drinking Water Well Monitoring
July 18, 2016
Page 3

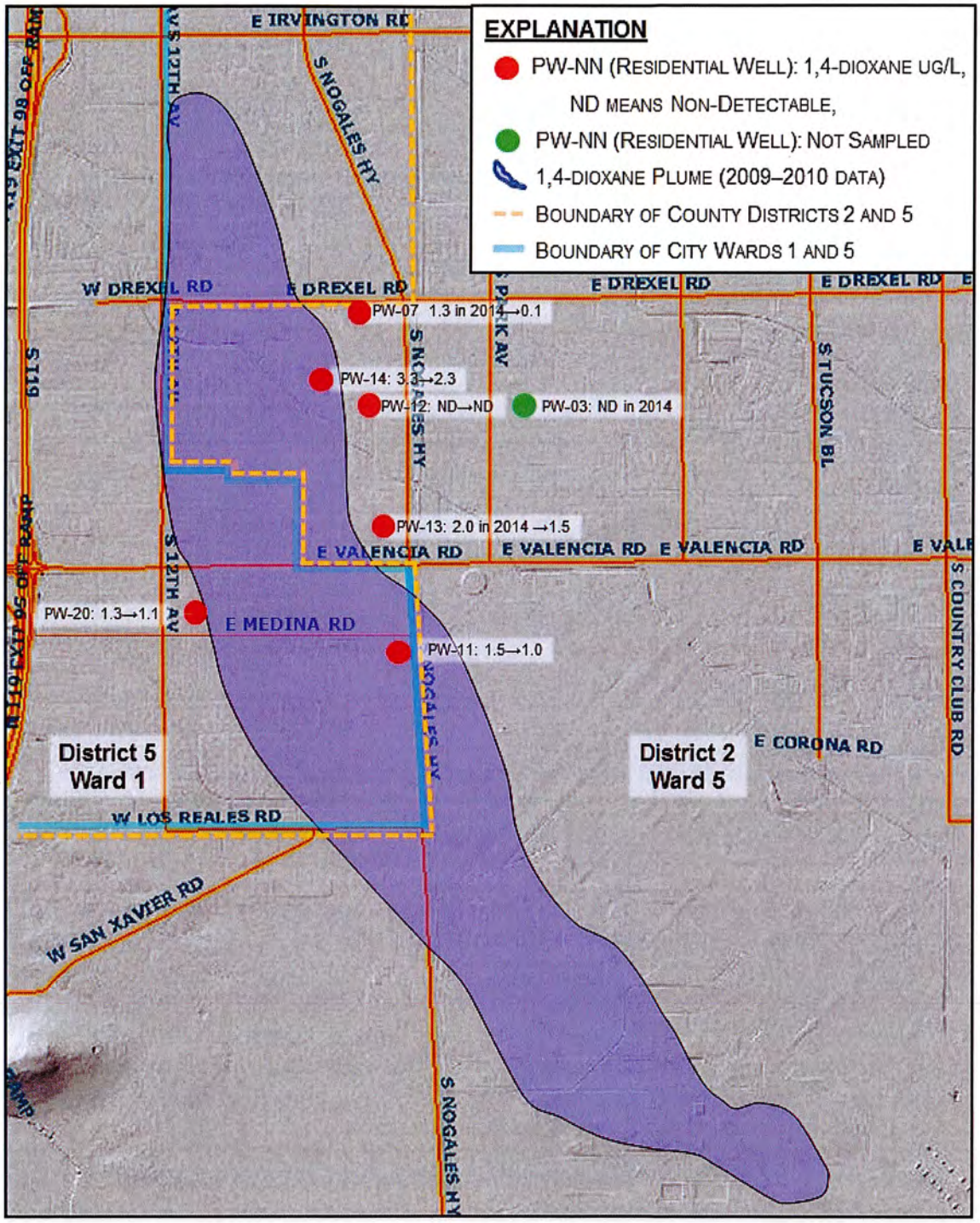

Figure 1. Private Well Data Showing the Change in 1,4-Dioxane Concentrations from Most Recent Sample to 2016. (Most recent sample is 2015, unless specified otherwise.)

PIMA COUNTY
ENVIRONMENTAL QUALITY
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Ursula Nelson, P.E.
Director

(520) 724-7400
FAX (520) 838-7432

July 18, 2016

Honorable Regina Romero
Tucson City Council Member
Southside Ward 1
940 West Alameda Street
Tucson, AZ 85745

Re: **2016** Private Well Water Monitoring Program

Dear Council Member Romero:

This letter provides the sampling results for residential 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 under contract to the Tucson Airport Authority (TAA). The United States Environmental Protection Agency (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, Arizona Department of Environmental Quality (ADEQ) and TAA receive the water quality sampling results. A description of sample results is provided for both wards.

In February, 2016, six residential water wells were sampled, two of which are located within Ward 1 (Figure 1). Water samples from all six wells had low concentrations of TCE and chromium. All TCE concentrations were below 3.2 µg/L, which is below the Maximum Contaminant level (MCL) of 5 µg/L. All chromium concentrations were below 16 µg/L, which is below the chromium MCL of 100 µg/L. The seventh well owner declined to participate this year.

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the well water should be replaced by bottled water for drinking and cooking purposes or directed to landscape irrigation only.

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Sincerely,

Ursula Nelson

Ursula Nelson, P.E., Director
Department of Environmental Quality

cc: C. H. Huckelberry, County Administrator
John Bernal, Deputy County Administrator for Public Works
Michael Ortega, City Manager

Letter Council Member Romero
RE: 2016 Private Drinking Water Well Monitoring
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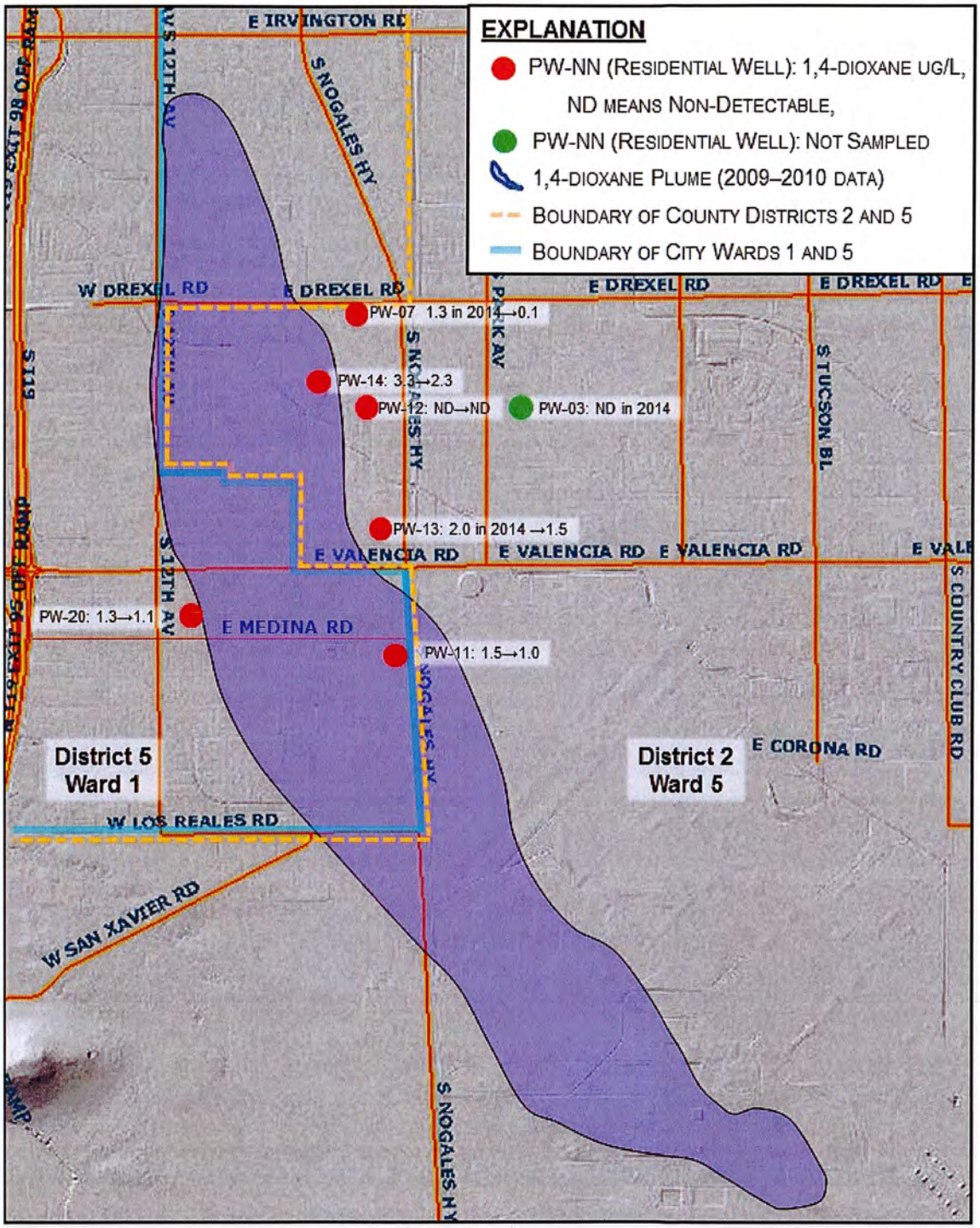

Figure 1. Private Well Data Showing the Change in 1,4-Dioxane Concentrations from Most Recent Sample to 2016. (Most recent sample is 2015, unless specified otherwise.)