Arizona Water Protection Fund
Application Cover Page
FY 2019

Title of Project: Rio Salado Habitat Restoration Area Invasive Species, Fire and Erosion Mitigation Project

Type of Project:
- ☒ Capital or Other
- ☐ Water Conservation
- ☐ Research

Stream Type:
- ☐ Perennial
- ☐ Intermittent
- ☒ Ephemeral

Your level of commitment to maintenance of project benefits and capital improvements:
☐ < 5 years ☐ 5-10 years ☐ 11-15 years ☒ 16-20 years

Applicant Information:

Name/Organization: City of Phoenix Parks and Recreation Department
Address 1: 200 W. Washington 16th Floor
Address 2: 2705 N. 15th Avenue
City: Phoenix
State: Arizona
ZIP Code: 85007
Phone: 602.495.5458
Fax: 602.534.9918
Tax ID No.: [redacted]

Inside an AMA: Yes ☒ No ☐

If yes, which AMA:
- ☒ Phoenix
- ☐ Tucson
- ☐ Prescott
- ☐ Pinal
- ☐ Santa Cruz

Type of Application:
- ☒ New
- ☐ Continuation

Contact Person:

Name: Cassandra A. Castellanos
Title: Park Ranger III
Phone: 602.262.6863
Fax: 602.534.9918
e-mail: Cassandra.Castellanos@phoenix.gov

Any Previous AWPF Grants:
☒ Yes ☐ No

If yes, please provide Grant #(s):
99-098WPF-05

Arizona Water Protection Fund Grant Amount Requested:

$150,000.00

If the application is funded, will the Grantee intend to request an advance:
☒ **Yes** ☐ **No**

Matching Funds Obtained and Secured:

Applicant/Agency/Organization:	Amount ($):
1. Applicant	
2. Arizona Center for Nature Conservation	10,000.00
3. Audubon Arizona	11,850.00
Total:	21,850.00

Has your legal counsel or contracting authority reviewed and accepted the Grant Award Contract General Provisions?
☒Yes ☐No ☐N/A

Signature of the undersigned certifies understanding and compliance with all terms, conditions and specifications in the attached application. Additionally, signature certifies that all information provided by the applicant is true and accurate. The undersigned acknowledges that intentional presentation of any false or fraudulent information, or knowingly concealing a material fact regarding this application is subject to criminal penalties as provided in A.R.S. Title 13. The Arizona Water Protection Fund Commission may approve Grant Awards with modifications to scope items, methodology, schedule, final products and/or budget.

Alonso Avitia	Natural Resources Deputy Director 602.495.5458
Typed Name of Applicant or Applicant's Authorized Representative	**Title and Telephone Number**
Alonso Avitia	8-31-18
Signature	**Date Signed**

Executive Summary

The City of Phoenix's Rio Salado Habitat Restoration Area (RSHRA) aims to restore the native wetland and riparian habitats of the historic Salt River, which once flowed year-round through Phoenix. Rio Salado is a popular location for hikers hoping to spot one of the hundreds of species of birds that use the area as a seasonal migratory path. RSHRA is a 5-mile long riparian area with 600 acres of open space, an aquatic strand, monarch butterfly station, desert terrain, various outlooks, wetland ponds and demonstration ponds.

A study, *Human Values and Perceptions of Water in Arid Landscapes* by Burmil, Daniel, and Hertherington (1999), cites the importance of human perceptions and values regarding water in arid landscapes as being multi-faceted with water being "the most important and most attractive visual elements of the landscape." In other words, public support and stewardship for riparian environments builds on the aesthetics of watershed landscapes (*Meeting Public Expectations with Ecological Innovation in Riparian Landscapes*). Therefore, the City of Phoenix seeks funding to mitigate erosion which exposes infrastructure, remove invasive species which hinder public view of the river flow and to minimize fire risk by removing visually displeasing ladder fuels. In addition, the City seeks to educate the public about Rio Salado Habitat Restoration and its relationship with stormwater drains located within park patrons' neighborhoods.

Rio Salado Habitat Restoration Area (RSHRA) is requesting funding in the amount of $150,000.00. A youth-based conservation team, Arizona Conservation Experience (ACE), will dedicate 12 weeks to invasive species removal over the course of 36 months for $69,120.00. Erosion mitigation will take place by a locally-owned business, Poco Verde Pools and Landscape, Inc. at $50,000.00. Bilingual public education messaging installation will cost $7,044.53 to Valley Rain Construction Corporation. The City of Phoenix will dedicate park rangers to mitigate herpetofauna with estimated costs for equipment being $4,313.26. Additionally, the City of Phoenix is dedicated to providing Labor Costs at 5% of $150,000.00 based on the Arizona Water Protection Fund grant limitations. Match is provided, from non-profit partners, in the amounts of $11,850.00 from Arizona Audubon and Arizona Center for Nature Conservation in the amount of $10,000.00.

The overarching goal of this projects is to improve riparian function and habitat within Rio Salado Habitat Restoration Area, educate the public and provide young adults with job skills and experience.

Project Overview

Project Name: Rio Salado Habitat Restoration Area Invasive Species, Fire and Erosion Mitigation Project

Rio Salado Habitat Restoration Area (RSHRA), owned by the City of Phoenix, seeks to improve the Habitat by mitigating invasive species, minimizing the risk of wildfire, preventing and repairing erosion and educating park patrons. The Habitat is a Salt River 5-mile stretch which encompasses 39 acres of wetland marsh, 38 acres of aquatic strand, 160 acres of open space and 14 acres of cottonwood/willow habitat, "1000 Tree Forest". Since its inception in 2005, the Habitat has been unable to implement and engage in a large scale invasive species removal and native habitat restoration to both increase native habitat and minimize wildfire risk/damage due to ongoing budgetary constraints.

Common invasive species observed in the Rio Salado Habitat Restoration Area include saltcedar *(Tamarix spp.)*, water primrose *(Ludwigia spp.)*, giant reed *(Arundo spp.)*, pepper tree *(Vitex agnus-castus)*, white lead tree *(Leucaena leucocephala)*, buffelgrass *(Pennisetum ciliare)* and fountaingrass *(Pennisetum spp.).* These species are rapidly expanding in the riparian area, inhibiting the growth of native species and impacting habitat quality. Salt cedars are fire resistant, rarely incur death after a fire and known to sprout vigorously after fires compared to native cottonwoods and willow. Additionally, the invasive grass species such as buffelgrass and fountain grass are competing with native species for essential resources. Invasive grasses and trees recover more quickly from fire than native grasses and increase fire risk. The aforementioned invasive species are located in varying degrees of density throughout the 5-mile aquatic strand.

RSHRA has experienced two fires in the recent past that have affected the habitat for monarch butterflies (Southwest Monarch Butterfly Study Sanctuary Area) and potential habitat for western yellow-billed cuckoo (a threatened species), Yuma Ridgway's rail, and southwestern willow flycatcher (both endangered species). Audubon Arizona's 2017 Safe Harbor Agreement and 2018 Safe Harbor Agreement (pending publication) describe RSHRA series of wetland ponds as potential habitat for Yuma's Ridgway's Rail and southwestern willow flycatcher- "the dense vegetation encroaching on the wetland ponds may provide habitat for predators, discouraging use" and "available marsh vegetation is extremely dense, and may be too over-decadent for marshbirds to use."

The "1,000 Tree Forest," is a unique component of RSHRA with the 14 acres of cottonwoods and willows. Together, the City of Phoenix and the United States Army Corps of Engineers set forth the intention to provide as close to a natural habitat area as possible as summarized in the RSHRA Conceptual Design phases. Snags and fell trees provide viable habitat for birds, insects, mammals and reptiles. Consistently, the cottonwoods shed their leaves in the fall season. Throughout the year, willows shed their leaves depending on environmental stressors. Natural leaf litter collects at the base of the trees and throughout the Forest. Depending on monsoon activity the leaf litter is naturally removed by flooding waters. Unfortunately, the monsoon activity is unpredictable and leaf litter compounds on a yearly basis and can cause a fire risk. The City, as a municipal steward, seeks to pro-actively address potential for fire within the Habitat. Therefore, based on the natural presence of ladder fuels, the City aims to remove the fuels and thin the cottonwood and willow trees' understory layers. The City does not seek to remove fell trees unless a public or safety issue exists (i.e. a dead/dying cottonwood/willow is located alongside a trail/road). Every effort will be made to determine if the tree, in question, is salvageable or replaceable through volunteer efforts.

The removal of invasive species (ie.buffelgrass, fountain grass, tamarisk, water primrose, giant reed), ladder fuels and 1000 Tree Forest thinning, within RSHRA, will be facilitated by Arizona Conservation Experience (ACE). ACE is a non-profit program for participants aged 18-35 who serve in professionally supervised teams and are afforded opportunities to learn and serve federal, state and city public lands with fuel reduction, invasive species removal, trail maintenance and restoration techniques. The majority of funds Rio Salado Habitat Restoration Area is requesting from Arizona Water Protection are dedicated towards contracting with ACE to remove aforementioned invasive species over the course of 36 months in three 4-week increments.

Erosion mitigation is the second priority RSHRA seeks to implement through Arizona Water Protection funding. Erosion is present within RSHRA and threatens to destabilize soils dismantle maintenance roads and damage RSHRA's water quality. Erosion mitigation, further, prevents contaminants from entering waterways and minimizes unpredictable waterway shifts and flood plain expansions. Currently, erosion is deepening alongside an asphalt trail and Habitat infrastructure is exposed; landfill liners are exposed, inert landfill contents are visible and the erosion is located along a maintenance road.

The herpetofauna invasives, are red-eared sliders and soft shell turtles. The effect of red-eared sliders and soft shell turtles include competing with native Sonoran Desert species such as the mud turtle and box turtle. Red-eared sliders are an international environmental threat to native species and a threat to public health. Arizona Game and Fish Departments' (AZGFD) State Turtles Project Coordinator will train, on-site, City of Phoenix Park Rangers to trap and remove red-eared sliders, establish a baseline inventory of native species and tag/release native species into RSHRA. Rio Salado Habitat Restoration Area, on a yearly basis, will trap turtles at on-site reservoirs, demonstration ponds and wetland ponds during regular park hours in order to educate the public regarding the impact of releasing nonnative turtles into public waterways/lands. The non-profit Turtle and Tortoise Preservation Group has agreed to accept the captured nonnative turtles into their program for the City of Phoenix Park Ranger training day and subsequent yearly trappings, at RSHRA, for the first 2 years. Rio Salado Habitat Restoration Area is requesting funding for equipment to aid in the mitigation of nonnative turtles.

Lastly, the City of Phoenix is requesting funding to educate the public about the relationship between stormwater and the Salt River's water quality. Most recently, the City of Phoenix Stormwater Program sandblasted bilingual messaging onto two pedestrian bridges located within the Habitat. The purpose of the public messaging is to educate and attempt to control what goes into the storm drain system upstream of the river to improve the habitat and recreational value of RSHRA. Commonly, trash and debris make it through the storm drain system into RSHRA. Rio Salado Habitat Restoration Area envisions strategically placed bilingual messaging at key outfalls that are visible to a park visitor's view from a parking lot, trail and/or overlook. It is important to note that RSHRA's main source of water is groundwater via wells and NOT stormwater water. The City feels this is an important piece of information to understand being that the trash and debris, presently, in RSHRA is due to storm drain systems upstream which clearly indicates a need to implement public messaging about what goes into the storm drains and how they can affect the Salt River's water quality. Despite the intermittent deposits of trash and debris, the City remains compliant with the conditions set forth within the AZPDES permit for that discharge into the Salt River.

This funding will provide vital monies to help Rio Salado maintain and increase native habitat, which supports native wildlife diversity. Key collaborations with Audubon Arizona, Arizona Center for Nature Conservation, Arizona Game and Fish Department, Liberty Wildlife will allow Rio Salado Habitat Restoration Area to continue to make Rio Salado a valuable wildlife and recreation destination to

benefit residents, visitors, and increase educational opportunities not only for stormwater but also for our native river ecosystems. City of Phoenix estimates the benefits of the erosion mitigation and the public education message to exceed 15 years. Invasive species removal will benefit RSHRA between 5 to 10 years. The removal of ladder fuels within the 1,000 Tree Forest is estimated at 10 years. The City will maintain all funded efforts and budget, accordingly, with volunteers and administration support.

Scope of Work
Two to Three Year Project Period

Task 1: Finalize Permits, Authorizations, Clearances

Task Description: RSHRA shall work with the City of Phoenix Archeologist and the Contract Associate housed in Pueblo Grande Museum to obtain and submit an archeological assessment for the State Historic Preservation Office (SHPO). This task will begin with completing a City Archeology Assessment Request. Based on the City Archeologist recommendation, the SHPO Review Form will be completed.
Task Purpose/Objective: To establish cultural resources in parcels, if any. To comply with SHPO regulations, policies and laws.
Responsible Personnel: Laurene Montero- City of Phoenix Archeologist, Rebecca Hill- Contract Associate Archaeologist, Winston Lyons- Park Ranger III and Cassandra Castellanos- Park Ranger II
Deliverable Description: Formal archeological assessment with recommendations. Completed SHPO Clearance form.
Deliverable Due Date: Within 60 days of finalization of grant agreement
Task Cost: $465.00

Task 2: Erosion Mitigation

Task Description: RSHRA shall secure a contract with Poco Verde Pools and Landscaping, Inc. or other comparable company, based on City procurement regulations, to mitigate erosion from 1st Avenue to 5th Avenue on north side of riverbank.
Task Purpose/Objective: Begin/finalize quote from Poco Verde Pools and Landscaping, Inc. to stabilize soils under an asphalt maintenance road located within RSHRA. Stabilizing soils near riparian zones allows for an increase in water quality, prevents contaminants from entering waterways, minimizes unpredictable waterway shifts and flood plain expansions. Flora and fauna habitats are protected further with dirt that is certified as "clean."
Responsible Personnel: Guadalupe Gomez- Contracts Specialist Lead, Emmett Boyd- Park Manager, Park Ranger III and Park Ranger II
Deliverable Description: Include written report to the Arizona Water Protection Fund Commission with pictures as part of the Final Report.
Deliverable Due Date: Within 24 months.
Task Cost: $50,000.00

Task 3: Native/Invasive Turtle Baseline Inventory/Monitoring

Task Description: Finalize dates for 1st native/invasive turtle baseline inventory/monitoring training with Arizona Game and Fish Department's (AZGFD) Turtle Coordinator. Purchase items listed in Other Direct Costs, based on City procurement regulations. Facilitate turtle baseline inventory/monitoring and training (City of Phoenix Park Rangers) and public education event at RSHRA.

Task Purpose/Objective: Remove non-native turtles. Establish native turtle baseline inventory with consideration to carrying capacity. Under the tutelage of AZGFD, train City of Phoenix Park Rangers to trap and remove nonnative turtles. Whilst trapping and removing turtles, educate RSHRA's park visitors about releasing pet turtles into waterways, ponds and reservoirs.
Responsible Personnel: Contracts Specialist Lead, Park Manager, Park Ranger III, Park Ranger II
Deliverable Description: Implement a yearly turtle trapping/inventory event**.** Provide native turtle baseline inventory data and invasive turtle report to Commission as part of the final report.
Deliverable Due Date: Within 180 days.
Task Cost: $4,313.26

Task 4: Arizona Conservation Experience (ACE)- Removal of Invasive Flora

Task Description: Contract with Arizona Conservation Experience, 8 person crew for a total of 12 weeks over the course of 24 months, to remove invasive flora. Invasive species removal will take place during the fall/spring periods per Flagstaff-based Arizona Conservation Experience administration.
Task Purpose/Objective: Remove invasive flora along aquatic strand, demonstration ponds, wetland ponds. Minimally thin and remove ladder fuels in 1,000 Tree Forest. Improve and restore Rio Salado waterways for endangered/threatened waterfowl, marsh and song birds.
Responsible Personnel: Arizona Conservation Experience corps members, Contracts Specialist Lead, Mike Francis- Park Supervisor, Park Manager, Park Ranger III and Park Ranger II
Deliverable Description:
Deliverable Due Date: Within first 24 months.
Task Cost: $69,120.00

Task 5: Stormwater Public Education Messaging

Task Description: Stormwater Public Education Message at RSHRA Outfalls
Task Purpose/Objective: To increase awareness, in English and Spanish of the relationship between stormwater pollution and Rio's habitat/recreation opportunities. To minimize entry of trash and debris in storm drains that proves harmful to Rio Salado Habitat Restoration Area and corresponding watershed.
Responsible Personnel: Valley Rain Construction Corporation, Lisa Mac Designer, Leigh Padgitt-City of Phoenix Environmental Quality Specialist, Park Manager, Park Ranger III and Park Ranger II.
Deliverable Description: Sandblasted bilingual messaging on two outfalls.
Deliverable Due Date: Within a 36 month period.
Task Cost: $8,744.53

Task 6: Arizona Audubon Conservation Days

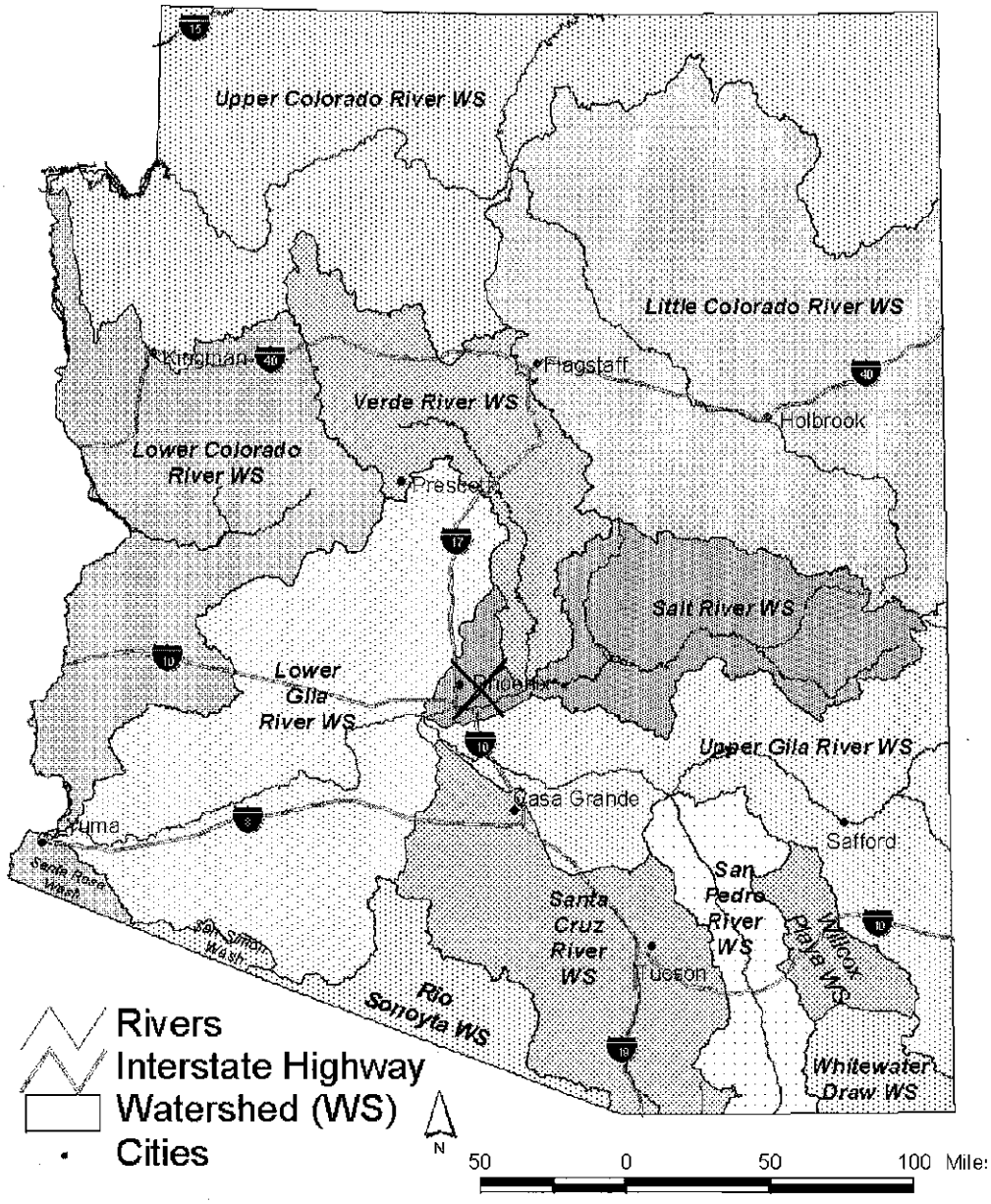
Task Description: Plan three 4-hour Conservation Workdays with Arizona Audubon.

Task Purpose/Objective: To educate the public about Arizona's riparian areas, motivate volunteers towards conservation action and to improve the habitat for birds and diverse wildlife.
Responsible Personnel: Steve Prager- Audubon Arizona's Important Bird Area Associate and Park Ranger III, Park Ranger II.
Deliverable Description:
Deliverable Due Date: Within a 36 month period to coincide with Audubon Conservation Workdays (late summer to spring).
Task Cost: $11,850.00

Task 7: Arizona Center for Nature Conservation

Task Description: Establish monitoring network of diverse fauna within Rio Salado Habitat Restoration Area using camera "traps."
Task Purpose/Objective: To monitor diverse fauna within RSHRA and quantify results before and after invasive species removal mitigation. To enhance Arizona State University undergraduate and graduate biology students' understanding of urban waterways and provide opportunity for publication in form of peer-reviewed article, conference poster or conference presentation. Share camera data with various public land agency partners with management implications. Share camera data with local recreation centers to increase awareness of valuable urban waterways.
Responsible Personnel: Arizona Center for Nature Conservation staff, Park Ranger III, Park Ranger II
Deliverable Description:
Deliverable Due Date: Within 36 months and within Final Report
Task Cost: $10,000.00

Arizona Watershed Map
FY 2019



Title of Project: **<u>Rio Salado Habitat Restoration Area Invasive Species, Fire and Erosion Mitigation Project</u>**

Location (include UTM's & Township/Range/Section): **<u>12S 399300mE 3697911mN Township 1N, Range 3E and Sections 17, 19, 20, 22 and 23.</u>**
(Location must include at least one Section delineation for large scale projects)

Project Location & Environmental Contaminant Information
FY 2019

Project Location Information			
1. County: Maricopa	2. Section(s): 17, 19, 20, 22, 23	3. Township: 1N	4. Range: 3E

5. Watershed: Salt River WS

6. 8 or 10 Digit Hydrologic Unit Code (HUC): 15060106

7. Name of USGS Topographic Map where project area is located: Phoenix Quad

8. State Legislative District: 27

(Information available at: http://azredistricting.org/districtlocator/

9. Land ownership of project area: City of Phoenix

10. Current land use of project area: Habitat Restoration Area

11. Size of project area (in acres): 595 DIRECT

12. Stream Name: Salt River

13. Length of stream through project area: 5 miles

14. Miles of stream benefited: 3.0 miles

15. Acres of riparian habitat: 75 acres will be:

- ☐ Enhanced
- ☒ Maintained
- ☒ Restored
- ☐ Created

16. General description and/or delineation for the area of impact of the project within the watershed.
The project is located in a 5-mile section fo the Alt River within the City of Phoenix. The total site is 580 acres and extends from the I-10 crossing on the east (upstream end) to the 19th Avenue on the west (downstream). The project scope sites include the slopes of the banks to the terrace level (demonstration pond, wetland ponds and area slated for erosion mitigation- Central Avenue to 7th Avenue north bank), terrace level (refered to as "1,000 Tree Forest") and Low Flow Channel (referred to as "aquatic strand)."

17. Provide directions to the project site from the nearest city or town. List any special access requirements:
Rio Salado Habitat Restoration Area is located at 641 W. Lower Buckeye Road. We are 2 miles south of Central Phoenix. RSHRA stretches from 19th Avenue west to 28th Street east.

Environmental Contaminant Location Information

1. Does your project site contain known environmental contaminants? ☒**YES** ☐**NO** If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants: Please see attached Discharge Monitoring Reports in Excel format for wells 2, 4 and 6. Wells 3 and 5 are not in use. An ADEQ Fact Sheet is provided to show compliance with Water Quality Standards.

2. Are there known environmental contaminants in the project vicinity? ☒**YES** ☐**NO** If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants: Please see attached Existing Landfill Information.

3. Are you asking for Arizona Water Protection Fund monies to identify whether or not environmental contaminants are present? ☐**YES** ☒**NO**

ADEQ Arizona Department of Environmental Quality

FACT SHEET

ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM (AZPDES)

This document gives pertinent information concerning the reissuance of the AZPDES permit listed below. This facility is a riparian habitat restoration area which requires the discharge of up to approximately 3.62 MGD of groundwater. Based on the National Pollutant Discharge Elimination System (NPDES) Permit Rating Criteria, the facility scored 20 points which is below the maximum 80 points allowed for minor dischargers. As a result, this facility is considered to be a minor industrial discharger under the NPDES program. The discharge limitations contained in this permit will maintain the Water Quality Standards listed in Arizona Administrative Code (A.A.C.) R18-11-101 et. seq. This permit is proposed to be issued for a period of 5 years.

Permittee's Name:	City of Phoenix – Parks and Recreation Department
Permittee's Mailing Address:	200 W. Washington Street, 16th Floor Phoenix, Arizona 85003
Facility Name:	Rio Salado Habitat Restoration Area
Facility Address or Location:	Salt River, Between Interstate 10 crossing and 19th Avenue, Phoenix, Arizona
County:	Maricopa County
Contact Person(s): Phone/e-mail address	Mr. Alonso Avitia, Deputy Parks and Recreation Director (602) 495-5486 / alonso.avitia@phoenix.gov
AZPDES Permit Number:	AZ0024554
Inventory Number:	105483

I. STATUS OF PERMIT(s)	
AZPDES permit applied for:	Renewal
Date application received:	**April 3, 2018**
Date application was determined administratively complete:	May 2, 2018
Previous permit number (if different):	N/A
Previous permit expiration date:	September 30, 2018

208 Consistency:

208 Plan consistency is not required for industrial facilities.

II. GENERAL FACILITY INFORMATION

Type of Facility:	Riparian Habitat Restoration Area
Facility Location Description:	The Rio Salado Habitat Restoration Area is a 595-acre ecosystem restoration area located along a 5-mile section of the Salt River from the Interstate 10 Bridge to 19th Avenue south of downtown Phoenix in Maricopa County, Arizona. The facility boundaries extend to the 100-year flood mark beyond the north and south banks of the river.
Nature of facility discharge:	The water source for the facility consists of five non-potable groundwater production wells: RSSW-2, RSSW-3, RSSW-4, RSSW-5, and RSSW-6. These wells are drilled approximately 220 to 360 feet below ground surface (bgs) and are screened into the upper alluvial unit of the aquifer. The wells pump groundwater to three geotextile lined reservoirs: 7th Avenue Reservoir (supplied by RSSW-5 and RSSW-6), Central Avenue Reservoir (supplied by RSSW-2) and 7th Street Reservoir (supplied by RSSW-3 and RSSW-4). The water in the reservoirs is supplied to the Rio Salado Habitat either by gravity via a canal system or by three dedicated booster pump stations which draw water from the reservoirs and pump to a pressurized irrigation piping grid for distribution to the habitat.
Average flow per discharge:	The maximum daily water demand through the life of the habitat was estimated to be 3.62 mgd during a drought year. The typical demand during a non-drought year is 2.67 mgd. These demands would be met by a combination of wells operating. Each well has the following maximum flow and Average flow rates based on data from the years 20013 to 2017.

Discharge Flow Rates (2013 – 2017)

Well Number	Maximum Flow (mgd)	Average Flow (mgd)
RSSW-2	4.599	0.190
RSSW-3	No discharge	No discharge
RSSW-4	1.750	0.054
RSSW-5	No discharge	No discharge
RSSW-6	3.790	0.058

Continuous or intermittent discharge:	Continuous

There are inactive landfills within and active landfills outside the project boundaries. Based on previously submitted data and the City of Phoenix Treatment Contingency Plan, it was determined that some level of treatment may be needed for certain volatile organic compounds (VOCs). In April 2009, construction of a VOC water treatment facility was completed at 7th Avenue and Lower Buckeye Road. The facility uses air strippers to remove VOCs from RSSW-5 and RSSW-6, but has never been needed. RSSW-5 was taken out of service on March 4, 2009 and remains out of service due to elevated levels of copper and lead detected in February 2009. RSSW-3 was taken out of service on April 3, 2013 due to elevated levels of copper and lead in November 2012. Both RSSW-3 and RSSW-5 are included in the renewal permit to allow for the future use of these wells with the understanding that the City of Phoenix will be in contact with ADEQ prior to bringing the well back on-line and after proper mitigation has occurred.

III. RECEIVING WATER

The State of Arizona has adopted water quality standards to protect the designated uses of its surface waters. Streams have been divided into segments and designated uses assigned to these segments. The water quality standards vary by designated use depending on the level of protection required to maintain that use.

Receiving Water :	The receiving water for the Rio Salado Habitat Restoration Area is the Salt River (from the I-10 Bridge to the 23rd Avenue Wastewater Treatment Plant)
River Basin:	Middle Gila River Basin
Outfall Location(s):	Outfall 002: Township 1 N, Range 3 E, Section 17 Latitude 33° 25' 28" N, Longitude 112° 04' 20" W Outfall 003: Township 1 N, Range 3 E, Section 22 Latitude 33° 25' 11" N, Longitude 112° 02' 46" W Outfall 004: Township 1 N, Range 3 E, Section 22 Latitude 33° 24' 56" N, Longitude 112° 02' 46" W Outfall 005: Township 1 N, Range 3 E, Section 20 Latitude 33° 25' 19" N, Longitude 112° 04' 44" W Outfall 006: Township 1 N, Range 3 E, Section 19 Latitude 33° 24' 60" N, Longitude 112° 04' 55" W
The outfall discharges to, or the discharge may reach, a surface water listed in Appendix B of A.A.C. Title 18, Chapter 11, Article 1.	
Designated uses for the receiving water listed above:	Aquatic and Wildlife warm water (A&Ww) Partial Body Contact (PBC) Fish Consumption (FC)
Is the receiving water on the 303(d) list?	No, and there are no TMDL issues associated.

Given the uses stated above, the applicable narrative water quality standards are described in A.A.C. R18-11-108, and the applicable numeric water quality standards are listed in A.A.C. R18-11-109 and in Appendix A thereof. There are two standards for the Aquatic and Wildlife uses, acute and chronic. In developing AZPDES permits, the standards for all applicable designated uses are compared and limits that will protect for all applicable designated uses are developed based on the standards.

IV. DESCRIPTION OF DISCHARGE

The groundwater is not treated prior to discharge and is generally expected to meet the surface water quality standards. A summary of lab data was submitted with the renewal AZPDES application for the years 2013 through 2017. Data was also obtained from Discharge Monitoring Reports (DMRs) during the renewal process.

V. STATUS OF COMPLIANCE WITH THE EXISTING AZPDES PERMIT

Date of most recent inspection:	09/30/2013; no potential violations were noted as a result of this inspection.
DMR files reviewed:	10/2013 through 12/2017
Lab reports reviewed:	10/2013 through 12/2017
DMR Exceedances:	None
NOVs issued:	None
NOVs closed:	N/A
Compliance orders:	None

VI. PROPOSED PERMIT CHANGES

The following table lists the major changes from the previous permit in this draft permit.

Parameter	Existing Permit	Proposed permit	Reason for change
Reporting Location	Mail in hard copies of DMRs and other attachments	DMRs and other reports to be submitted electronically through myDEQ portal	Language added to support the NPDES electronic DMR reporting rule that became effective on December 21, 2015.
Copper	Limited at Outfalls 003, 004, 005 and 006	Limits removed at Outfalls 004, and 006	Data submitted indicated no reasonable potential (RP) for an exceedance of a standard.

Lead	Limited at Outfalls 002, 003,004, 005, and 006	Limits removed at Outfalls 002, 004, and 006	Data submitted indicated no reasonable potential (RP) for an exceedance of a standard.
Iron	Assessment Level at Outfalls 002, 003, 004, 005, and 006	Limited at Outfall 004	Data submitted indicated reasonable potential (RP) for an exceedance of a standard.
Sampling Frequency for Selenium	1 x / month at outfalls 002 and 006	1 x / quarter at Outfalls 002 and 006	All detected concentrations were below the monthly average and daily maximum limits.
Sampling Frequency for Oil and Grease	1 x / quarter at outfalls 002, 003, 004, 005 and 006	1 x / year at Outfalls 002, 004, and 006	All results from the permit term were non-detects and below the monthly average and daily maximum limits.
Sampling Frequency for pH	1 x / month at outfalls 002, 003, 004, 005 and 006	1 x / quarter at Outfalls 002, 004, and 006	pH values from the permit term have been stable and have not approached upper or lower limits.
Sampling Frequency for WET Testing – Table 3: WET Testing	1 x / year	1 x / Permit Term	Consistent with frequencies required for minor facilities to adequately determine compliance.

Anti-backsliding considerations – "Anti-backsliding" refers to statutory (Section 402(o) of the Clean Water Act) and regulatory (40 CFR 122.44(l)) requirements that prohibit the renewal, reissuance, or modification of an existing NPDES permit that contains effluent limits, permit conditions, or standards that are less stringent than those established in the previous permit. The rules and statutes do identify exceptions to these circumstances where backsliding is acceptable. This permit has been reviewed and drafted with consideration of anti-backsliding concerns.

Limits for the following parameter have been removed from the permit because evaluation of current data allows the conclusion that no reasonable potential (RP) for an exceedance of a standard exists:

- Lead (Outfall 002)
- Copper and Lead (Outfall 004)
- Copper and Lead (Outfall 006)

This is considered allowable backsliding under 303(d)(4). The effluent limitations in the current permit for these two parameters were based on state standards, the respective receiving waters are in attainment for

these parameters, and the revisions are consistent with antidegradation requirements. See Section XII for information regarding antidegradation requirements.

Limits are retained in the draft permit for parameters where reasonable potential (RP) for an exceedance of a standard continues to exist or is indeterminate. In these cases, limits have been recalculated using the most current Arizona Water Quality Standards (WQS) and the method for calculating limits described in Section VII below. In some cases, based on changes in the WQS, this results in less stringent limits; this is considered allowable backsliding. No limits were increased in this permit due to changes in the WQS.

VII. DETERMINATION OF EFFLUENT LIMITATIONS and ASSESSMENT LEVELS

When determining what parameters need monitoring and/or limits included in the draft Rio Salado Habitat Restoration Area permit, Water Quality-based criteria were applied.

Technology-based Limitations: As outlined in 40 CFR Part 133:
There are no promulgated technology-based limits for discharges of groundwater to riparian habitat restoration areas. Therefore, no technology-based standards were applied.

Numeric Water Quality Standards: As outlined in A.A.C. R18-11-109 and Appendix A:
Per 40 CFR 122.44(d)(1)(ii), (iii) and (iv), discharge limits must be included in the permit for parameters with "reasonable potential" (RP), that is, those known to be or expected to be present in the effluent at a level that could potentially cause any applicable numeric water quality standard to be exceeded. RP refers to the possibility, based on the statistical calculations using the data submitted, or consideration of other factors to determine whether the discharge may exceed the Water Quality Standards. The procedures used to determine RP are outlined in the *Technical Support Document for Water Quality-based Toxics Control (TSD)* (EPA/505/2-90-001). In most cases, the highest reported value for a parameter is multiplied by a factor (determined from the variability of the data and number of samples) to determine a "highest estimated value". This value is then compared to the lowest applicable Water Quality Standard for the receiving water. If the value is greater than the standard, RP exists and a water quality-based effluent limitation (WQBEL) is required in the permit for that parameter. RP may also be determined from BPJ based on knowledge of the treatment facilities and other factors. The basis for the RP determination for each parameter with a WQBEL is shown in the table below.

The proposed permit limits were established using a methodology developed by EPA. Long Term Averages (LTA) were calculated for each designated use and the lowest LTA was used to calculate the average monthly limit (AML) and maximum daily limit (MDL) necessary to protect all uses. This methodology takes into account criteria, effluent variability, and the number of observations taken to determine compliance with the limit and is described in Chapter 5 of the TSD. Limits based on A&W criteria were developed using the "two-value steady state wasteload allocation" described on page 99 of the TSD. When the limit is based on human health criteria, the monthly average was set at the level of the applicable standard and a daily maximum limit was determined as specified in Section 5.4.4 of the TSD.

Mixing Zone: The limits in this permit were determined without the use of a mixing zone. Arizona state water quality rules require that water quality standards be achieved without mixing zones unless the permittee applies for and is approved for a mixing zone. Since a mixing zone was not applied for or granted, all water quality criteria are applied at end-of-pipe.

Assessment Levels (ALs): ALs are listed in Part I.B of the permit. An AL differs from a discharge limit in that an exceedance of an AL is not a permit violation. Instead, ALs serve as triggers, alerting the permitting authority when there is cause for re-evaluation of RP for exceeding a water quality standard, which may result in new permit limitations. The AL numeric values also serve to advise the permittee of the analytical sensitivity needed for meaningful data collection. Trace substance monitoring is required when there is uncertain RP (based on non-detect values or limited datasets) or a need to collect additional data or monitor treatment efficacy on some minimal basis. A reopener clause is included in the draft permit should future monitoring data indicate water quality standards are being exceeded.

The requirement to monitor for these parameters is included in the draft permit according to A.A.C. R18-11-104(C) and Appendix A. ALs listed for each parameter were calculated in the same manner that a limit would have been calculated (see Numeric Water Quality Standards Section above).

The following trace substances were not included as limits or assessment levels in the draft permit due to a lack of RP based on best professional judgment (BPJ): barium, boron, nitrates, and manganese. The numeric standards for these pollutants are well above what would be expected from the discharge. In addition, hydrogen sulfide and TRC are not included based on BPJ; hydrogen sulfide and TRC are not expected to be present in groundwater.

Hardness: The permittee is required to sample hardness as $CaCO_3$ at the same time the trace metals are sampled because the water quality standards for some metals are calculated using the water hardness values. The hardness value of 208 mg/L (Outfall 002), 201 mg/L (Outfall 003 - previous permit term average discharge hardness value), 193 mg/L (Outfall 004), 337 mg/L (Outfall 005 - previous permit term average discharge hardness value) and 298 mg/L (Outfall 006), the average hardness of each discharge as supplied in laboratory reports, were used to calculate the limits for copper and lead.

Whole Effluent Toxicity (WET): WET testing is required in the draft permit (Parts I.C and III) to evaluate the discharge according to the narrative toxic standard in A.A.C. R18-11-108(A)(5), as well as whether the discharge has RP for WET per 40 CFR 122.44(d)(iv).

WET testing for chronic toxicity shall be conducted using the following three surrogate species:

- *Ceriodaphnia dubia* (water flea) – for evaluating toxicity to invertebrates
- *Pimephales promelas* (fathead minnow) – for evaluating toxicity to vertebrates
- *Pseudokirchneriella subcapitata* (formerly known as *Selenastrum capricornutum or Raphidocelis subcapitata)* (a green alga) – for evaluating toxicity to plant life

ADEQ does not have a numeric standard for Whole Effluent Toxicity. However, ADEQ adopted the EPA recommended chronic toxicity benchmark of 1.0 TUc for a four day exposure period. Using this benchmark, the action levels for WET included in the draft permit were calculated in accordance with the methods specified in the *TSD*. The species chosen for WET testing are as recommended in the *TSD* and in *Regions 9 & 10 Guidance for Implementing Whole Effluent Toxicity Testing Programs*.

An exceedance of action level will trigger follow-up testing to determine if effluent toxicity is persistent. In previous permit terms a successful TRE was conducted and failures are believed to be due to bacterial contamination. The bacteria are expected to die off and be non-toxic once exposed to the environment. The follow-up retest samples(s) may be treated with ultraviolet (UV) light prior to running the retest(s) to determine if the failure is due to bacteria that may be destroyed by exposure to sunlight. If toxicity above action level is found in a follow-up test, the permittee will be required to conduct a Toxicity Reduction Evaluation (TRE) and possibly a Toxicity Identification Evaluation (TIE) to identify the source of toxicity and reduce toxicity. These conditions are required to ensure that toxicants are not discharged in amounts that are toxic to organisms [A.A.C. R18-11-108(A)(5)]. A reopener clause is included in accordance with 40 CFR Parts 122 and 124 and AAC R18-9-B906.

WET sampling must coincide with testing for all the parameters in Parts I.A and B of the draft permit, when testing of those parameters is required, to aid in the determination of the cause of toxicity if toxicity is detected. Additional procedural requirements for the WET test are included in the proposed permit.

WET testing for chronic toxicity shall be conducted once per year at Outfalls 002, 003, 004, 005, and 006.The draft permit requires WET test results to be reported on discharge monitoring reports and submittal of the full WET lab report to ADEQ.

Discharge Characterization Testing: In addition to monitoring for parameters assigned either a limit or an AL, sampling is required to assess the presence of pollutants in the discharge at certain minimum frequencies for additional suites of parameters, if the well is operational within the monitoring period. This monitoring is specified in Tables 4.a. through 4.e., *Discharge Characterization Testing,* as follows:

- Table 4.a. – General Chemistry and Microbiology: *E. coli*, total Kjeldahl nitrogen (TKN), nitrate/nitrite, phosphorus, temperature, total dissolved solids (TDS), and total suspended solids (TSS)
- Table 4.b. – Selected Metals, Trace Substances, and WET
- Table 4.c. – Selected Volatile Organic Compounds
- Table 4. d. – Selected Acid-Extractible Compounds
- Table 4. e. – Selected Base-Neutral Compounds

NOTE: Some parameters listed in Table 4.b. are also listed in Tables 1 or 2. In this case, the data from monitoring under Tables 1 or 2 may be used to satisfy the requirements of Table 4.b., provided the specified sample types are the same. In the event the facility does not discharge to a water of the U.S. during the life of the permit, EC monitoring of representative samples of the effluent is still required.

The purpose of Discharge Characterization Testing is to characterize the discharge and determine if the parameters of concern are present in the discharge and at what levels. This monitoring will be used to assess RP per 40 CFR 122.44(d)(1)(iii)). Discharge characterization monitoring is required in accordance with 40 CFR 122.43(a), 40 CFR 122.44(i), and 40 CFR 122.48(b) as well as A.R.S. §49-203(A)(7). If pollutants are noted at levels of concern during the permit term, this permit may also be reopened to add related limits or conditions.

Permit Limitations and Monitoring Requirements:
The table that follows summarizes the parameters that are limited in the permit and the rationale for that decision. Also included are the parameters that require monitoring without any limitations or that have not been included in the permit at all and the basis for those decisions. The corresponding monitoring requirements are shown for each parameter. In general, the regulatory basis for monitoring requirements is per 40 CFR §122.44(i) *Monitoring requirements,* and 40 CFR §122.48(b), *Required monitoring*; all of which have been adopted by reference in A.A.C. R18-9-A905, *AZPDES Program Standards*.

Parameter	Lowest Standard / Designated Use	Maximum Reported Daily Value	No. of Samples	Estimated Maximum Value	RP Determination	Proposed Monitoring Requirement/ Rationale (1)
Flow	---	---	---	---	---	Discharge flow is to be monitored on a continual basis using a flow meter.
Chlorine, Total Residual (TRC)	11 µg/L/ A&Ww chronic	No Data	0	N/A	N/A	Monitoring not required except when chlorine is used as part of the mitigation program – see Part IV B. of the permit.
E. coli	30-day geometric mean: 126 cfu /100 mL (4 sample minimum) Single sample maximum: 575 cfu /100 mL/ PBC	<1 cfu /100 ml	15	N/A	N/A	*E. coli* is to be monitored for discharge characterization at outfalls 002, 003, 004, 005 and 006 as a discrete sample.
pH	Minimum: 6.5 Maximum: 9.0 A&Ww and PBC A.A.C. R18-11-109(B)	7.6 S.U.	162	N/A	WQBEL is always included	pH is to be monitored at Outfalls 002, 003, 004, 005, and 006 using a discrete sample of the discharge and a WQBEL remains in the permit. 40 CFR Part 136 specifies that grab samples must be collected for pH. At least one sample must coincide with WET testing to aid in the determination of the cause of toxicity if toxicity is detected.
Temperature	No applicable numeric standard	24.1°C (Winter) 29.0°C (Summer)	3 (Winter) 3 (Summer)	N/A	N/A	Discharge temperature is to be monitored once during summer and once during winter for discharge characterization by discrete sample. 40 CFR Part 136 specifies that discrete samples must be collected for temperature. At least one sample must coincide with WET sampling to aid in the determination of the cause of toxicity, if toxicity is detected.
Total Dissolved Solids (TDS)	No applicable standard	No Data	0	N/A	N/A	Monitoring required at Outfalls 002, 003, 004, 005, and 006 for discharge characterization.
Nutrients (Total Nitrogen and Total Phosphorus)	No applicable standards	N/A	N/A	N/A	N/A	Monitoring required at Outfalls 002, 003, 004, 005, and 006 for discharge characterization.
Oil & Grease	Narrative standard A.A.C. R18-11-108(B).	**002:** < 6.3 mg/L	17	N/A	N/A	Monitoring required at Outfalls 002, 003, 004 005, and 006 and a WQBEL (based on BPJ) remains in the permit.
		003: No Data	0			
		004: < 6.2 mg/L	17			
		005: No Data	0			
		006: < 6.3 mg/L	17			

Parameter	Lowest Standard / Designated Use	Maximum Reported Daily Value	No. of Samples	Estimated Maximum Value	RP Determination	Proposed Monitoring Requirement/ Rationale (1)
Antimony	30 µg/L/ A&Ww chronic	**002:** < 0.15 µg/L	1	N/A	No RP	Monitoring required at Outfalls 002, 003, 004, 005, and 006 for discharge characterization.
		003: No Data	0	N/A	RP Indeterminate (No Data)	
		004: < 0.15 µg/L	1	N/A	No RP	
		005: No Data	0	N/A	RP Indeterminate (No Data)	
		006: < 0.15 µg/L	1	N/A	No RP	
Arsenic	80 µg/L/ FC	**002**: 6.2 µg/L	1	82 µg/L	RP Indeterminate (Insufficient Data)	Monitoring required at Outfalls 003, 004, 005, and 006 for discharge characterization.
		003: No Data	0	N/A	RP Indeterminate (No Data)	
		004: 5.8 µg/L	1	77 µg/L	No RP	
		005: No Data	0	N/A	RP Indeterminate (No Data)	
		006: 4.9 µg/L	1	65 µg/L	No RP	
Beryllium	5.3 µg/L/ A&Ww chronic	**002:** < 0.1 µg/L	1	N/A	No RP	Monitoring required at Outfalls 002, 003, 004, 005, and 006 for discharge characterization.
		003: No Data	0	N/A	RP Indeterminate (No Data)	
		004: < 0.1 µg/L	1	N/A	No RP	
		005: No Data	0	N/A	RP Indeterminate (No Data)	
		006: < 0.1 µg/L	1	N/A	No RP	
Cadmium (2)	**002:** 3.84 µg/L/ A&Ww chronic	< 0.15 µg/L	1	N/A	No RP	Monitoring required at Outfalls 002, 003, 004, 005, and 006 for discharge characterization.
	003: 3.7 µg/L/ A&Ww chronic (3)	No Data	0	N/A	RP Indeterminate (No Data)	
	004: 3.64 µg/L/ A&Ww chronic	< 0.15 µg/L	1	N/A	No RP	
	005: 5.4 µg/L/ A&Ww chronic (3)	No Data	0	N/A	RP Indeterminate (No Data)	
	006: 5.01 µg/L/ A&Ww chronic	< 0.15 µg/L	1	N/A	No RP	

Parameter	Lowest Standard / Designated Use	Maximum Reported Daily Value	No. of Samples	Estimated Maximum Value	RP Determination	Proposed Monitoring Requirement/ Rationale (1)
Chromium (Total)	No applicable standard	**002:** < 1.2 µg/L	1	N/A	N/A	Monitoring required as an indicator parameter for Chromium VI at Outfalls 002, 003, 004, 005, and 006 for discharge characterization.
		003: No Data	0	N/A	N/A	
		004: < 1.2 µg/L	1	N/A	N/A	
		005: No Data	0	N/A	N/A	
		006: < 1.2 µg/L	1	N/A	N/A	
Chromium VI	11 µg/L/ A&Ww chronic	**002:** No Data	0	N/A	RP Indeterminate for 003 and 005 (No Data) No RP for 002, 004 and 006 (Based on total chromium data)	Monitoring required at Outfalls 002, 003, 004, 005, and 006 for discharge characterization.
		003: No Data				
		004: No Data				
		005: No Data				
		006: No Data				
Copper (2)	**002:** 16.7 µg/L/ A&Ww chronic	< 6 µg/L	50	N/A	No RP	Monitoring required at Outfall 003 and 005 and a WQBEL remains in the permit. Monitoring required at Outfalls 002, 004, and 006 for discharge characterization.
	003: 16.3 µg/L/ A&Ww chronic (3)	No Data	0	N/A	RP Indeterminate (No Data)	
	004: 15.7 µg/L/ A&Ww chronic	< 6 µg/L	51	N/A	No RP	
	005: 25.3 µg/L/ A&Ww chronic (3)	No Data	0	N/A	RP Indeterminate (No Data)	
	006: 22.8 µg/L/ A&Ww chronic	< 6 µg/L	51	N/A	No RP	
Cyanide	9.7 µg/L/ A&Ww chronic	**002:** < 5 µg/L	1	N/A	RP Indeterminate (Insufficient Data)	Monitoring required at Outfalls 002, 003, 004, 005, and 006 for discharge characterization.
		003: No Data	0	N/A	RP Indeterminate (No Data)	
		004: < 5 µg/L	1	N/A	RP Indeterminate (Insufficient Data)	
		005: No Data	0	N/A	RP Indeterminate (No Data)	
		006: < 5 µg/L	1	N/A	RP Indeterminate (Insufficient Data)	

Parameter	Lowest Standard / Designated Use	Maximum Reported Daily Value	No. of Samples	Estimated Maximum Value	RP Determination	Proposed Monitoring Requirement/ Rationale (1)
Hardness	No applicable standard. Hardness is used to determine standards for specific metal parameters.	**002:** 208 mg/L	51	N/A	N/A	A&W standards for cadmium, chromium III, copper, lead, nickel, silver and zinc used for RP determinations were based on the average discharge hardness value of 208 mg/L for Outfall 002, 201 mg/L for Outfall 003, 193 mg/L for Outfall 004, 337 mg/L for Outfall 005 and 298 mg/L for Outfall 006. Monitoring for hardness is required whenever monitoring for hardness dependent metals is required.
		003: No Data	0			
		004: 193 mg/L	51			
		005: No Data	0			
		006: 298 mg/L	51			
Hydrogen Sulfide	2 µg/L/ A&Ww chronic	No Data	0	N/A	No RP (BPJ)	Monitoring not required. Hydrogen sulfide is not expected to be present in the discharge
Iron	1,000 ug/L / A&Ww chronic	**002:** 75 µg/L	17	180 µg/L	No RP	Monitoring required at Outfalls 002, and 006 for discharge characterization. Monitoring required at Outfall 004 and a WQBEL is set. Monitoring required at Outfall 003 and 005 and an assessment level remains in the permit
		003: No Data	0	N/A	RP Indeterminate (No Data)	
		004: 610 µg/L	17	1464 µg/L	RP Exists	
		005: No Data	0	N/A	RP Indeterminate (No Data)	
		006: 159 µg/L	16	382 µg/L	No RP	
Lead (2)	**002:** 5.53 µg/L/ A&Ww chronic	1.1 µg/L	51	1.87 µg/L	No RP	Monitoring required at Outfalls 002, 004 and 006 for discharge characterization. Monitoring required at Outfall 003 and 005 and a WQBEL remains in the permit
	003: 5.3 µg/L/ A&Ww chronic (3)	No Data	0	N/A	RP Indeterminate (No Data)	
	004: 5.11 µg/L/ A&Ww chronic	1.5 µg/L	51	2.52 µg/L	No RP	
	005: 9.2 µg/L/ A&Ww chronic (3)	No Data	0	N/A	RP Indeterminate (No Data)	
	006: 8.07 µg/L/ A&Ww chronic	0.91 µg/L	51	1.55 µg/L	No RP	

Parameter	Lowest Standard / Designated Use	Maximum Reported Daily Value	No. of Samples	Estimated Maximum Value	RP Determination	Proposed Monitoring Requirement/ Rationale (1)
Mercury	0.01 µg/L/ A&Ww chronic	**002:** < 0.068 µg/L	1	N/A	RP Indeterminate (Insufficient Data)	Monitoring required at Outfalls 002, 003, 004, 005 and 006 for discharge characterization.
		003: No Data	0	N/A	RP Indeterminate (No Data)	
		004: < 0.068 µg/L	1	N/A	RP Indeterminate (Insufficient Data)	
		005: No Data	0	N/A	RP Indeterminate (No Data)	
		006: < 0.068 µg/L	1	N/A	RP Indeterminate (Insufficient Data)	
Nickel (2)	**002**: 96.6 µg/L/ A&Ww chronic	<1 µg/L	1	N/A	No RP	Monitoring required at Outfalls 002, 003, 004, 005 and 006 for discharge characterization.
	003: 93.9 µg/L/ A&Ww chronic (3)	No Data	0	N/A	RP Indeterminate (no Data)	
	004: 90.7 µg/L/ A&Ww chronic	<1 µg/L	1	N/A	No RP	
	005: 145 µg/L/ A&Ww chronic (3)	No Data	0	N/A	RP Indeterminate (no Data)	
	006: 131 µg/L/ A&Ww chronic	<1 µg/L	1	N/A	No RP	
Selenium	2 µg/L/ A&Ww chronic	**002:** < 4 µg/L	51	N/A	RP Indeterminate (High LOQ)	Monitoring required at Outfalls 002, 005 and 006 and a WQBEL remains in the permit. Monitoring required at Outfalls 003, and 004 for discharge characterization.
		003: No Data	0	N/A	RP Indeterminate (No Data)	
		004: 0.42 µg/L	51	0.714 µg/L	No RP	
		005: No Data	0	N/A	RP Indeterminate (No Data)	
		006: 1.6 µg/L	51	2.72 µg/L	RP Exists	
Silver (2)	**002:** 11.3 µg/L/ A&Ww acute	< 0.3 µg/L	1	N/A	No RP	Monitoring required at Outfalls 002, 003, 004, 005 and 006 for discharge characterization.
	003: 11 µg/L/ A&Ww acute (3)	No Data	0	N/A	RP Indeterminate (No Data)	
	004: 9.97 µg/L/ A&Ww acute	< 0.3 µg/L	1	N/A	No RP	
	005: 26 µg/L/ A&Ww acute (3)	No Data	0	N/A	RP Indeterminate (No Data)	
	006: 21 µg/L/ A&Ww acute	0.49 µg/L	1	6.47 µg/L	No RP	
Sulfides	No applicable standard	No Data	0	N/A	N/A	Indicator parameter for hydrogen sulfide. No Monitoring required

Parameter	Lowest Standard / Designated Use		Maximum Reported Daily Value	No. of Samples	Estimated Maximum Value	RP Determination	Proposed Monitoring Requirement/ Rationale (1)
Thallium	7.2 µg/L/ FC		**002:** < 0.15 µg/L	1	N/A	No RP	Monitoring required at Outfalls 002, 003, 004, 005 and 006 for discharge characterization.
			003: No Data	0	N/A	RP Indeterminate (No Data)	
			004: < 0.15 µg/L	1	N/A	No RP	
			005: No Data	0	N/A	RP Indeterminate (No Data)	
			004: < 0.15 µg/L	1	N/A	No RP	
Zinc (2)	**002**: 218 µg/L/ A&Ww chronic& acute		< 2 µg/L	1	N/A	No RP	Monitoring required at Outfalls 002, 003, 004, 005 and 006 for discharge characterization.
	003: 212 µg/L/ A&Ww chronic& acute (3)		No Data	0	N/A	RP Indeterminate (No Data)	
	004: 205µg/L/ A&Ww chronic& acute		< 2 µg/L	1	N/A	No RP	
	005: 328 µg/L/ A&Ww chronic& acute (3)		No Data	0	N/A	RP Indeterminate (No Data)	
	006: 131 µg/L/ A&Ww chronic& acute		5 µg/L	1	5 µg/L	No RP	
Whole Effluent Toxicity (WET)	No toxicity (A.A.C. R18-11-108(A)(6)	*Pseudo-kirchneriella subcapitata (4)*	**002:** 1.0 TUc	5	N/A	RP Indeterminate	Monitoring required at Outfalls 002, 003, 004, 005 and 006 and an action level remains in the permit.
			003: No Data	0			
			004: 1.0 TUc	5			
			005: No Data	0			
			006: 1.0 TUc	5			
		Pimephales promelas	**002:** 1.0 TUc	5	N/A	RP Indeterminate	Monitoring required at Outfalls 002, 003, 004, 005 and 006 and an action level remains in the permit.
			003: No Data	0			
			004: 1.0 TUc	5			
			005: No Data	0			
			006: 1.0 TUc	5			
		Ceriodaphnia dubia	**002:** 1.0 TUc	5	N/A	RP Indeterminate	Monitoring required at Outfalls 002, 003, 004, 005 and 006 and an action level remains in the permit.
			003: No Data	0			
			004: 1.0 TUc	5			
			005: No Data	0			
			006: 1.0 TUcL	5			

Footnotes:

(1) The monitoring frequencies are as specified in the permit.
(2) Hardness-dependent metal - the standard for this parameter is based on the average discharge hardness value of 208 mg/L for Outfall 002, 193 mg/L for Outfall 004, and 298 mg/L for Outfall 006.
(3) Hardness-dependent metal - the standard for this parameter is based on the previous permit term average discharge hardness value of 201 mg/L for Outfall 003, and 337 mg/L for Outfall 005.
(4) Formerly known as *Selenastrum capricornutum or Raphidocelis subcapitata.*

VIII. NARRATIVE WATER QUALITY STANDARDS

All narrative limitations in A.A.C. R18-11-108 that are applicable to the receiving water are included in Part I, Sections E and F of the draft permit.

IX. MONITORING AND REPORTING REQUIREMENTS (Part II of Permit)

Section 308 of the Clean Water Act and 40 CFR Part 122.44(i) require that monitoring be included in permits to determine compliance with discharge limitations. Additionally, monitoring may be required to gather data for future effluent limitations or to monitor effluent impacts on receiving water quality.

Monitoring frequencies are based on the nature and effect of the pollutant, as well as a determination of the minimum sampling necessary to adequately monitor the facility's performance. Monitoring frequencies for some parameters may be reduced in second term permits if all monitoring requirements have been met and the limits or ALs for those parameters have not been exceeded during the first permit term.

Discrete (i.e., grab) samples are specified in the permit for all parameters. The quality of the discharge is not expected to be highly variable.

Monitoring locations are specified in the permit (Part I.A and Part I.J) in order to ensure that representative samples of the influent and effluent are consistently obtained.

The requirements in the permit pertaining to Part II, Monitoring and Reporting, are included to ensure that the monitoring data submitted under this permit is accurate in accordance with 40 CFR 122.41(e). The permittee has the responsibility to determine that all data collected for purposes of this permit meet the requirements specified in this permit and is collected, analyzed, and properly reported to ADEQ.

The permit (Part II.A.2) requires the permittee to keep a Quality Assurance (QA) manual at the facility, describing sample collection and analysis processes; the required elements of the QA manual are outlined.

Reporting requirements for monitoring results are detailed in Part II, Sections B.1 and 2 of the permit, including completion and submittal of Discharge Monitoring Reports (DMRs).

The permittee is responsible for conducting all required monitoring and reporting the results to ADEQ on DMRs or as otherwise specified in the permit.

Electronic reporting. The US EPA has published a final regulation that requires electronic reporting and sharing of Clean Water Act National Pollutant Discharge Elimination System (NPDES) program information instead of the current paper-based reporting (Federal Register, Vol. 80, No. 204, October 22, 2015). Beginning December 21, 2016 (one year after the effective date of the regulation), the Federal rule requires permittees to make electronic submittals of any monitoring reports and forms called for in their permits. ADEQ has created an online portal called myDEQ that allows users to submit their discharge monitoring reports and other applicable reports required in the permit.

Requirements for retention of monitoring records are detailed in Part II.D of the permit.

X. SPECIAL CONDITIONS (Part IV in Permit)

Best Management Practices (BMP) Plan

A BMP Plan was prepared and is being implemented by the permittee. A copy of the Plan was previously submitted to ADEQ. The permittee shall update or amend the Plan, as appropriate, prior to a change in design, construction, operation or maintenance activity, which could have a significant effect on the quality of discharge or if the Plan proves ineffective in achieving compliance with this permit. The permittee shall retain a copy of the BMP Plan and this permit language at the discharge site for use by all operators.

Mitigation Prior to Discharge

In order to prevent discharge of pumped water that exceeds the applicable permit limits for any of the metals, the permittee is required to implement, when necessary, a mitigation program which may include blending water from two or more wells before discharge or removing wells from service.

The permit requires the permittee to initiate a mitigation program when concentration of any of the parameters exceeds the corresponding limit/assessment level two consecutive times. If concentration of a parameter in the pumped water exceeds the monthly average permit limit or assessment level, the permittee shall initiate additional sampling within five (5) calendar days of becoming aware of the exceedance. If the additional sampling results within any calendar month also exceeds the permit limit or assessment level, discharge from the affected supply well shall be stopped until the mitigation program is implemented and further samplings show no additional exceedances. Once the mitigation program has been initiated, frequency of monitoring for the affected parameter(s) will be increased to once every two weeks until a minimum of three consecutive monthly averages show no more exceedances. The permittee may then return to the original monitoring frequency as required in the permit. To resume pumping the affected supply well(s) directly (without treatment or blending) to any of the reservoirs, a minimum of three consecutive monthly averages at wellhead(s) must show no exceedance of the permit limit or assessment level for the affected parameter. In addition, if chlorine is used as part of the mitigation program, a groundwater sample must be collected from the well(s) and analyzed for TRC prior to discharging from the outfall(s). Discharge from the outfall(s) shall not occur if TRC is detected above the reporting limit using an Arizona Department of Health Services (ADHS) approved analytical method (use of an ultra-low level method is not required). The TRC monitoring results shall be provided as a part of the mitigation report. The address where mitigation reports shall be sent to is provided in the permit.

Permit Reopener

This permit may be modified based on newly available information; to add conditions or limits to address demonstrated effluent toxicity; to implement any EPA-approved new Arizona water quality standard; or to re-evaluate reasonable potential (RP), if assessment levels in this permit are exceeded [A.A.C. R18-9-B906 and 40 CFR Part 122.62 (a) and (b)].

XI. ANTIDEGRADATION

Antidegradation rules have been established under A.A.C. R18-11-107 to ensure that existing surface water quality is maintained and protected. The discharge from the Rio Salado Habitat Restpration Area will be to a perennial water with Tier 2 antidegradation protection. This is a renewal permit for an existing facility with no new or expanded discharge, and the existing uses have been maintained. Therefore, an antidegradation review is not required at this time. Discharge quality limitations and monitoring requirements have been

established under the proposed permit to ensure that the discharge will meet the applicable water quality standards. As long as the permittee maintains consistent compliance with these provisions, the designated uses of the receiving water will be presumed protected, and the facility will be deemed to meet currently applicable antidegradation requirements under A.A.C. R18-11-107.

XII. STANDARD CONDITIONS

Conditions applicable to all NPDES permits in accordance with 40 CFR, Part 122 are attached as an appendix to this permit.

XIII. ADMINISTRATIVE INFORMATION

Public Notice (A.A.C. R18-9-A907)
The public notice is the vehicle for informing all interested parties and members of the general public of the contents of a draft AZPDES permit or other significant action with respect to an AZPDES permit or application. The basic intent of this requirement is to ensure that all interested parties have an opportunity to comment on significant actions of the permitting agency with respect to a permit application or permit. This permit will be public noticed in a local newspaper after a pre-notice review by the applicant and other affected agencies.

Public Comment Period (A.A.C. R18-9-A908)
Rules require that permits be public noticed in a newspaper of general circulation within the area affected by the facility or activity and provide a minimum of 30 calendar days for interested parties to respond in writing to ADEQ. After the closing of the public comment period, ADEQ is required to respond to all significant comments at the time a final permit decision is reached or at the same time a final permit is actually issued.

Public Hearing (A.A.C R18-9-A908(B))
A public hearing may be requested in writing by any interested party. The request should state the nature of the issues proposed to be raised during the hearing. A public hearing will be held if the Director determines there is a significant amount of interest expressed during the 30-day public comment period, or if significant new issues arise that were not considered during the permitting process.

EPA Review (A.A.C. R18-9-A908(C))
A copy of this draft permit and any revisions made to this draft as a result of public comments received will be sent to EPA Region 9 for review. If EPA objects to a provision of the draft, ADEQ will not issue the permit until the objection is resolved.

XIV. ADDITIONAL INFORMATION

Additional information relating to this proposed permit may be obtained from:

Arizona Department of Environmental Quality
Water Quality Division – AZPDES Individual Permits Unit
Attn: Swathi Kasanneni
1110 West Washington Street
Phoenix, Arizona 85007

Or by contacting Swathi Kasanneni at (602) 771 – 4577 or by e-mail at sk5@azdeq.gov.

XV. INFORMATION SOURCES

While developing effluent limitations, monitoring requirements, and special conditions for the draft permit, the following information sources were used:

1. AZPDES Permit Application Form 1 and Form 2C, received April 3, 2018, along with supporting data, facility diagram, and maps submitted by the applicant with the application forms.

2. ADEQ files on Rio Salado Habitat Restoration Area.

3. ADEQ Geographic Information System (GIS) Web site

4. Arizona Administrative Code (AAC) Title 18, Chapter 11, Article 1, *Water Quality Standards for Surface Waters,* adopted December 31, 2016.

5. A.A.C. Title 18, Chapter 9, Article 9. *Arizona Pollutant Discharge Elimination System* rules.

6. Code of Federal Regulations (CFR) Title 40:
   Part 122, *EPA Administered Permit Programs: The National Pollutant Discharge Elimination System.*
   Part 124, *Procedures for Decision Making.*
   Part 133. *Secondary Treatment Regulation.*
   Part 503. *Standards for the Use or Disposal of Sewage Sludge.*

7. EPA Technical Support Document for Water Quality-based Toxics Control dated March 1991.

8. *Regions 9 & 10 Guidance for Implementing Whole Effluent Toxicity Testing Programs*, US EPA, May 31, 1996.

9. *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA /821-R-02-013).

10. U.S. EPA NPDES Permit Writers' Manual, September 2010.

STATE HISTORIC PRESERVATION OFFICE
Review Form

In accordance with the State Historic Preservation Act (SHPO), A.R.S. 41-861 *et seq*, effective July 24, 1982, each State agency must consider the potential of activities or projects to impact significant cultural resources. Also, each State agency is required to consult with the State Historic Preservation Officer with regard to those activities or projects that may impact cultural resources. Therefore, it is understood that **recipients of state funds are required to comply with this law** throughout the project period. All projects that affect the ground-surface that are funded by AWPF require SHPO clearance, **including those on private and federal lands.**

The State Historic Preservation Office (SHPO) must review each grant application recommended for funding in order to determine the effect, if any, a proposed project may have on archaeological or cultural resources. To assist the SHPO in this review, the following information MUST be submitted with each application for funding assistance:

- A completed copy of this form, and
- A United States Geological Survey (USGS) 7.5 minute map
- A copy of the cultural resources survey report if a survey of the property has been conducted, and
- A copy of any comments of the land managing agency/landowner (i.e., state, federal, county, municipal) on potential impacts of the project on historic properties.
  NOTE: If a federal agency is involved, the agency must consult with SHPO pursuant to the National Historic Preservation Act (NHPA); a state agency must consult with SHPO pursuant to the State Historic Preservation Act (SHPA),
  OR
- A copy of SHPO comments if the survey report has already been reviewed by SHPO.

Please answer the following questions:

1. Grant Program: Arizona Water Protection Fund
2. Project Title: Rio Salado Habitat Restoration Area Invasive Species, Fire and Erosion Mitigation Project
3. Applicant Name and Address: City of Phoenix Parks and Recreation Department
4. Current Land Owner/Manager(s): City of Phoenix
5. Project Location, including Township, Range, Section: 19 1N 3E, 20 1N 3E, 20 1N 3E, 17 1N 3E, 20 1N 3E, 22 1N 3E, 23 1N 3E

6. Total Project Area in Acres (or total miles if trail): 75

7. Does the proposed project have the potential to disturb the surface and/or subsurface of the ground?
   ☒ YES ☐ NO

8. Please provide a brief description of the proposed project and specifically identify any surface or subsurface impacts that are expected: The City does not expect any subsurface impacts. Surface impact is limited to the removal of invasives through non-mechanized means.

9. Describe the condition of the current ground surface within the entire project boundary area (for example, is the ground in a natural undisturbed condition, or has it been bladed, paved, graded, etc.). Estimate horizontal and vertical extent of existing disturbance. Also, attach photographs of project area to document condition: A maintenance road exists within Rio Salado Habitat Restoration Area. Parts of an overbank are paved for maintenance purposes. Closer to the Low Flow Channel or aquatic strand are constructed dirt roads to accomodate maintenance and emergency vehicles. Park visitors are not allowed within the Low Flow Channel. Therefore, the aquatic strand remains undisturbed sand and rocky.

10. Are there any known prehistoric and/or historic archaeological sites in or near the project area? ☐ YES ☒ NO

11. Has the project area been previously surveyed for cultural resources by a qualified archaeologist? ☐ YES ☐ NO ☒ UNKOWN

    If YES, submit a copy of the survey report. Please attach any comments on the survey report made by the managing agency and/or SHPO

12. Are there any buildings or structures (including mines, bridges, dams, canals, etc.), which are 50-years or older in or adjacent to the project area? ☐ YES ☒ NO

    If YES, complete an Arizona Historic Property Inventory Form for each building or structure, attach it to this form and submit it with your application.

13. Is your project area within or near a historic district? ☐YES ☒ NO

    If YES, name of the district:

Please sign on the line below certifying all information provided for this application is accurate to the best of your knowledge.

C. Castellanos 8/30/18 Cassandra A. Castellanos

Applicant Signature /Date Applicant Printed Name

FOR SHPO USE ONLY

SHPO Finding: ☐ Funding this project will not affect historic properties. ☐ Survey necessary – further GRANTS/SHPO consultation required (*grant funds will not be released until consultation has been completed*) ☐ Cultural resources present – further GRANTS/SHPO consultation required (*grant funds will not be released until consultation has been completed*)
SHPO Comments:
For State Historic Preservation Office: Date:

Arizona Water Protection Fund For Rio Salado
Budget Detail

Direct Labor Costs						
Position Title / Classification	Hourly Salary Rate	# of Hours Devoted to Project	Salary	Fringe Benefit Rate	Fringe Benefit Cost	Total Personnel Budget for This Position
Park Ranger II	$ 24.91	96	$ 2,391.36	86.65%	$ 2,072.11	$ 4,463.47
Park Ranger III	$ 27.54	60	$ 1,652.40	86.65%	$ 1,431.80	$ 3,084.20
Park Manager	$ 35.41	30	$ 1,062.30	86.65%	$ 920.48	$ 1,982.78
Park Supervisor	$ 39.06	24	$ 937.44	86.65%	$ 812.29	$ 1,749.73
TOTAL DIRECT LABOR BUDGET REQUESTED						$ 11,280.19

Outside Services						
Consultant be Purchased	Description		Grant Funds Requested	Matching Funds		Total Consultant Budget
City of Phoenix	Archeology Assessment		$ 465.00			$ 465.00
Arizona Center for Nature Conservation/Arizona State University-			$ -	$ 10,000.00		
American Conservation Experience Crew	$18/person X 8 person crew	1 Week/$5760,00 x 12 Weeks	$ 69,120.00			$ 69,120.00
Audubon Conservation Days Volunteers			$ -	$ 11,850.00		$ -
Poco Verde Pools and Landscape, Inc.			$ 50,000.00			$ 50,000.00
Valley Rain Construction Corporation			$ 7,044.53			$ 7,044.53
Lisa Mac Designer			$ 1,700.00			$ 1,700.00
TOTAL OUTSIDE SERVICES BUDGET REQUESTED				$ 21,850.00		$ 128,329.53

Other Direct Costs						
Equipment Item to be Purchased	Unit Price	Quantity	Grant Funds Requested			Total Equipment Budget
Pond King Floating Turtle Trap	$ 269.99	$ 2.00	$ 586.42			$ 586.42
Tomhawk Live Trap	$ 209.00	$ 1.00	$ 226.97			$ 226.97
Solar Turtle Trap	$ 86.95	$ 2.00	$ 188.86			$ 188.86
Pullerbear Grip XL	$ 134.99	$ 2.00	$ 293.20			$ 293.20
Pullerbear Pro XL	$ 159.99	$ 2.00	$ 347.50			$ 347.50
Rubbermaid Black Stock Tank (70 gallon)	$ 99.99	12	$ 1,303.07			$ 1,303.07
6' Oars (1 pair)	$ 75.00	1	$ 81.45			$ 81.45
Sun Dolphin 12 Jon Boat	$ 599.99	1	$ 651.59			$ 651.59
8430 Frabill Turtle Net Power Catch Landing Net	$ 99.99	2	$ 217.18			$ 217.18
Small Boat Canopy	$ 224.00	1	$ 243.26			$ 243.26
Mooring Cover	$ 160.00	1	$ 173.76			$ 173.76
TOTAL OTHER DIRECT COSTS BUDGET REQUESTED				$ -		$ 4,313.26

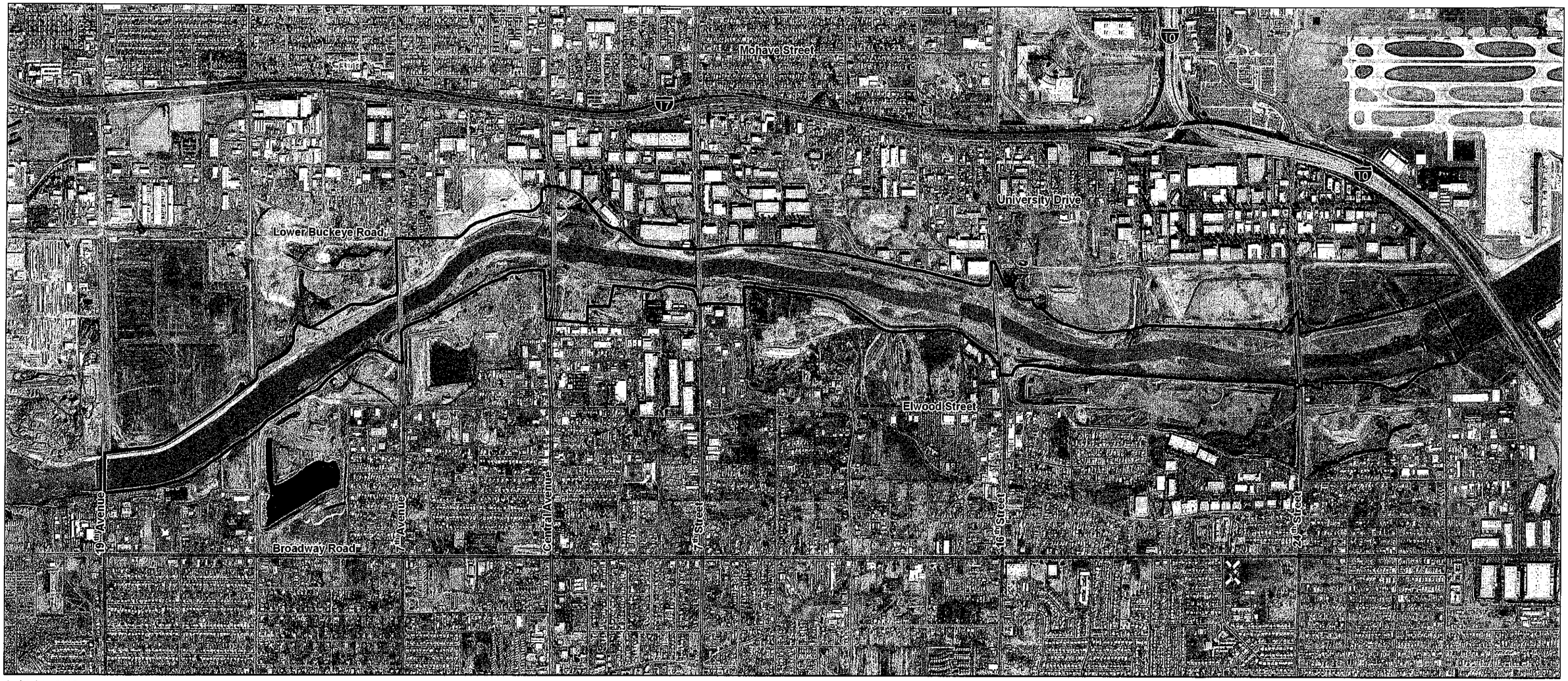
Capital Outlay & Equipment						
Supply Item to be Purchased	Unit Price	Quantity	Grant Funds Requested			Total Supply Budget
			$ -			$ -

			$ -			$ -
			$ -			$ -
TOTAL CAPITAL OUTLAY & EQUIPMENT BUDGET REQUESTED				**$ -**		**$ -**

Administrative Costs						
Position Title / Classification	**Hourly Salary Rate**	**# of Hours Devoted to Project**	**Salary**	**Fringe Benefit Rate**	**Fringe Benefit Cost**	**Total Personnel Budget for This Position**
Management Assistant I	$ 30.44	6	$ 182.64	86.65%	$ 158.26	**$ 340.90**
Budget Analyst II	$ 33.63	40	$ 1,345.20	86.65%	$ 1,165.62	**$ 2,510.82**
Contracts Specialist Lead	43.2	40	$ 1,728.00	86.65%	$ 1,497.31	**$ 3,225.31**
TOTAL ADMINISTRATIVE COTS BUDGET REQUESTED						**$ 6,077.03**

Arizona Water Protection Fund For Rio Salado
Budget Detail

Budget Category	Matching Funds	Grant Funds Requested	Total Program Costs	
Direct Labor Costs		$ 11,280.19	$ 11,280.19	
Outside Services	$ 21,850.00	$ 128,329.53	$ 150,179.53	
Other Direct Costs		$ 4,313.26	$ 4,313.26	
Capital Outlay & Equipment Costs		$ -	$ -	
Administrative Costs		$ 6,077.03		
TOTAL PROGRAM COSTS	$ 21,850.00	$ 150,000.00	$ 171,850.00	4.05%



Aerial date: 2005

Key

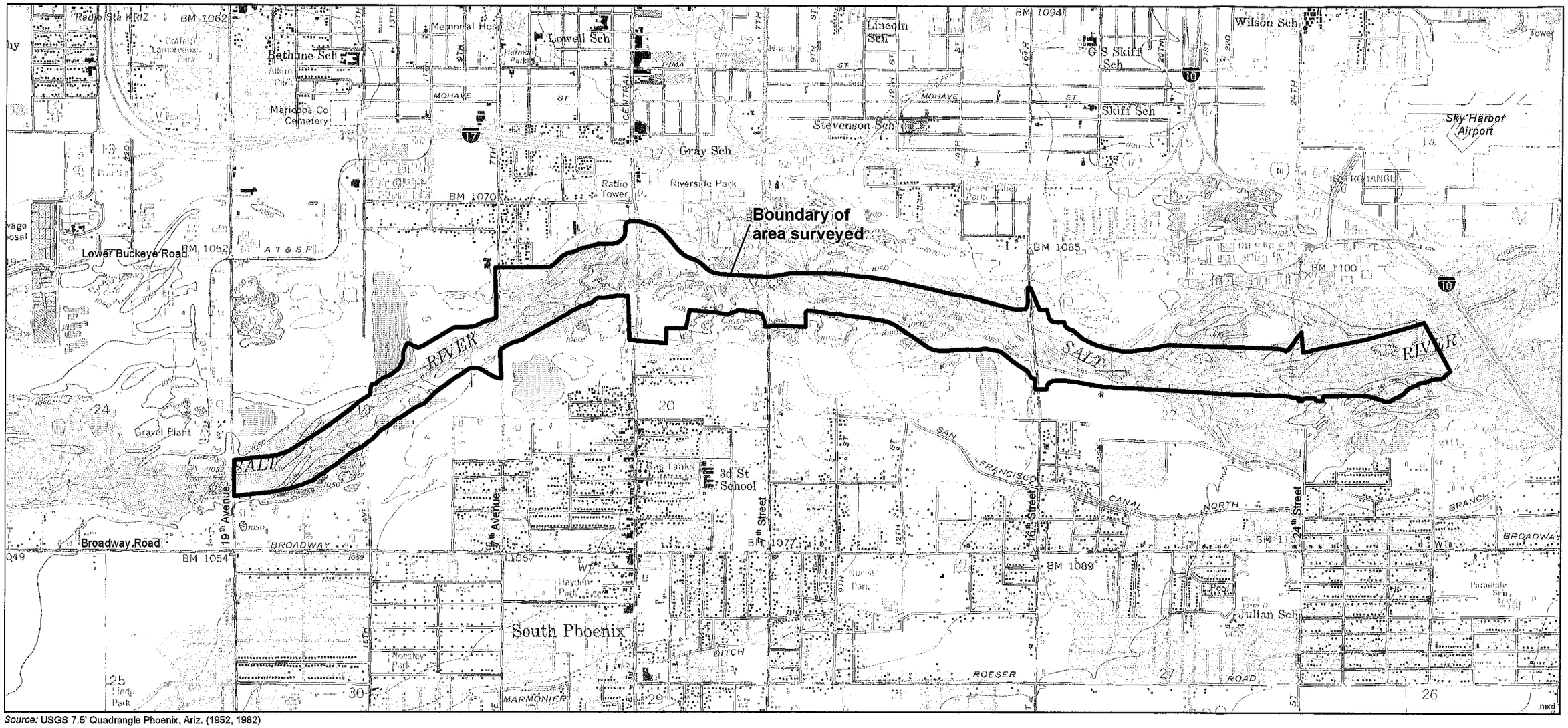
Boundary of area surveyed

Mile

0 1

NORTH

Figure 5. February 2005 Aerial



Source: USGS 7.5' Quadrangle Phoenix, Ariz. (1952, 1982)

Key

Boundary of area surveyed

Figure 4. Topographic Illustration


Bushnell
84°F28°C
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Maricopa County Assessor's Office

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Feature Information

(1 of 1) Clear

112-47-002M

Owner Information

Owner Name:	PHOENIX CITY OF
Property Address:	
Mailing Address:	251 W WASHINGTON ST 8TH FL PHOENIX AZ 85003
Deed Number:	011137810
Sale Date:	
Sale Price:	$

Property Information

Lat/Long:	33.422712, -112.071293
S/T/R:	17 1N 3E
Jurisdiction:	PHOENIX
Zoning:	A-1
PUC:	9700
Lot Size (sq ft):	422,706
MCR #:	
Subdivision:	
Lot #:	
Floor:	1
Construction Year:	
Living Space (sq ft):	

Valuation Information

Tax Year:	2019	2018
FCV:	$149,200	$149,200

East of 7th Avenue- Aquatic Strand and Wetland Ponds 2, 3, 4 and 5

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Feature Information

(1 of 1) Clear

113-01-001F

Owner Information

Owner Name:	PHOENIX CITY OF
Property Address:	2801 S 7TH AVE PHOENIX 85003
Mailing Address:	251 W WASHINGTON ST 8TH FL PHOENIX AZ 85003
Deed Number:	NOD-06560
Sale Date:	
Sale Price:	$

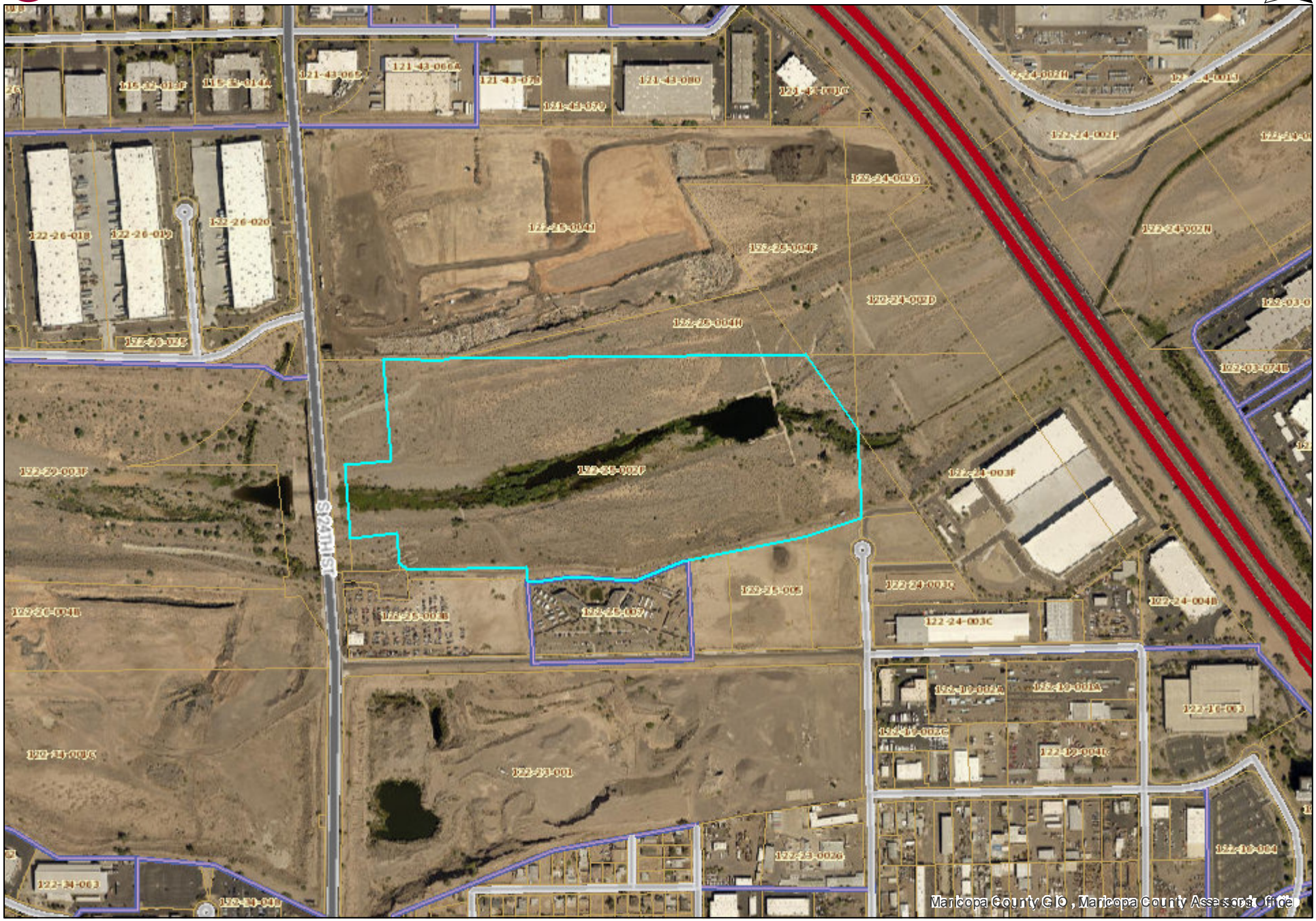
Property Information

Lat/Long:	33.420476, -112.080064
S/T/R:	20 1N 3E
Jurisdiction:	PHOENIX
Zoning:	A-2
PUC:	9750
Lot Size (sq ft):	1,280,007
MCR #:	
Subdivision:	
Lot #:	
Floor:	1
Construction Year:	
Living Space (sq ft):	

Valuation Information

Tax Year:	2019	2018
FCV:	$1,410,900	$1,444,900

East of 24th Street- Aquatic Strand



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Feature Information

(1 of 1) Clear

122-25-002P

Owner Information

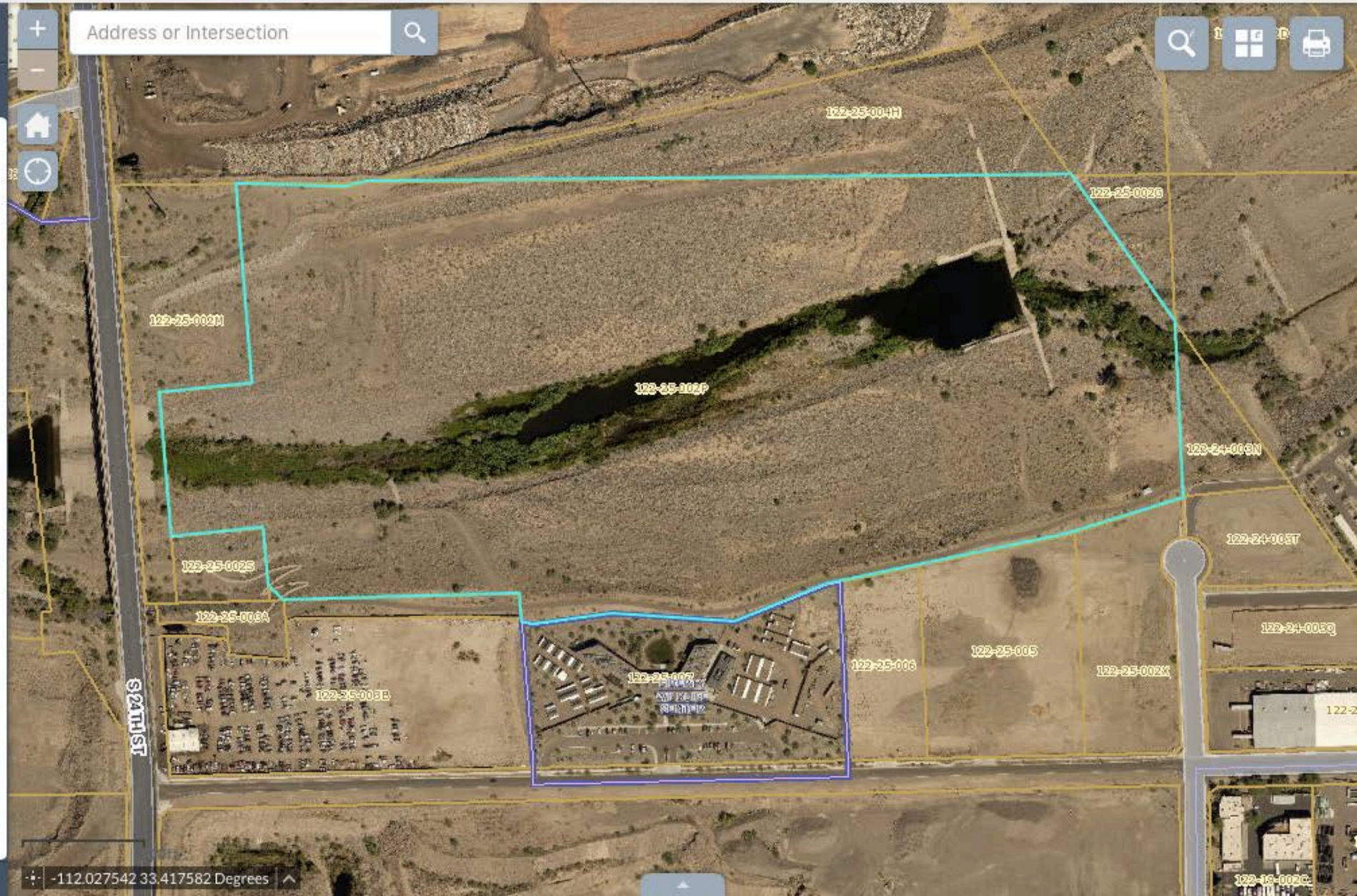
Owner Name:	PHOENIX CITY OF
Property Address:	3333 S 24TH ST PHOENIX 85040
Mailing Address:	251 W WASHINGTON ST 8TH FL PHOENIX AZ 85003
Deed Number:	011137810
Sale Date:	
Sale Price:	$

Property Information

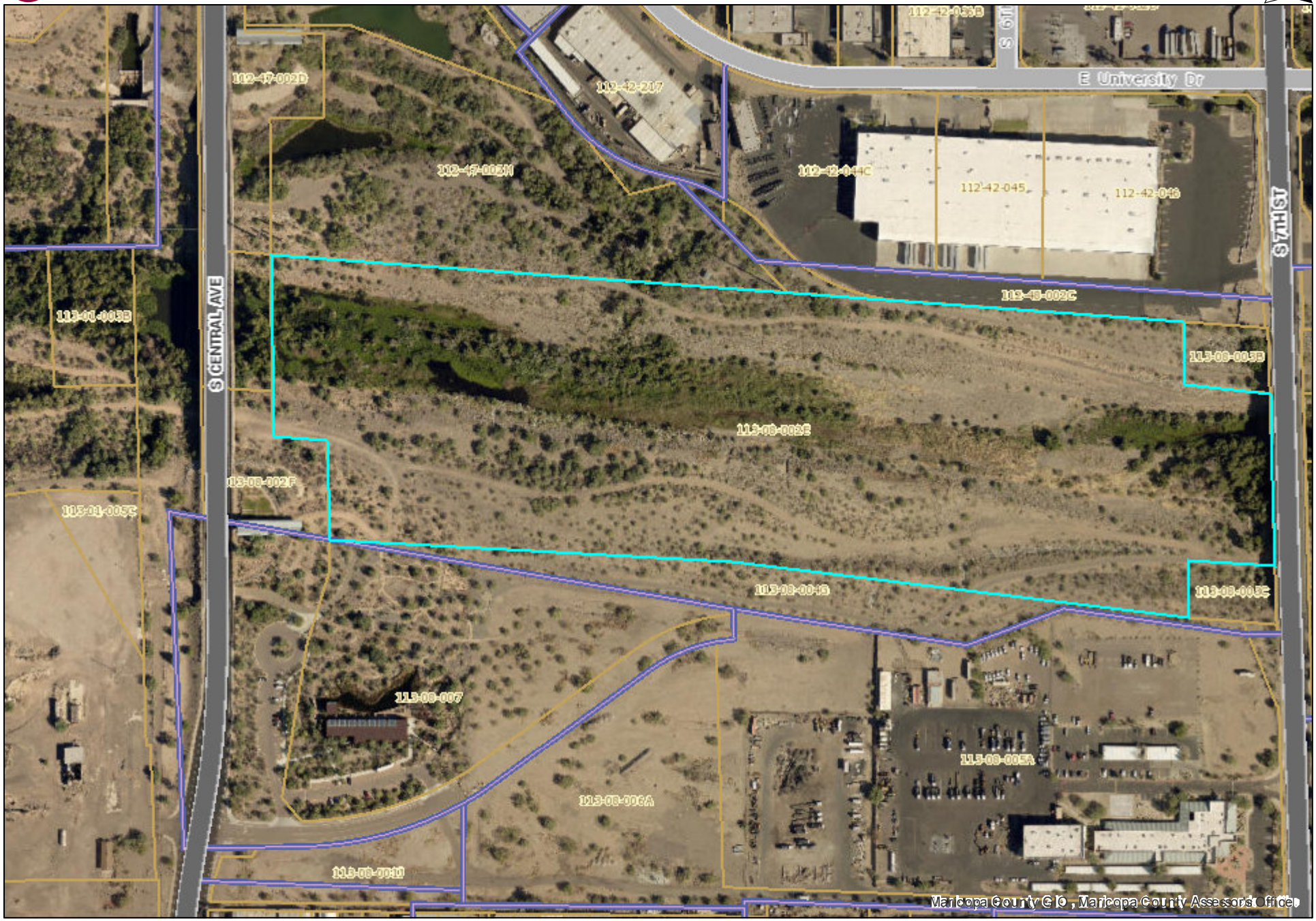
Lat/Long:	33.416868, -112.025450
S/T/R:	23 1N 3E
Jurisdiction:	PHOENIX
Zoning:	A-2
PUC:	9700
Lot Size (sq ft):	2,226,009
MCR #:	
Subdivision:	
Lot #:	
Floor:	1
Construction Year:	
Living Space (sq ft):	

Valuation Information

Tax Year:	2019	2018
FCV:	$795,400	$795,400



East of Central Avenue- Aquatic Strand



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Feature Information

(1 of 1) Clear

113-08-002E

Owner Information

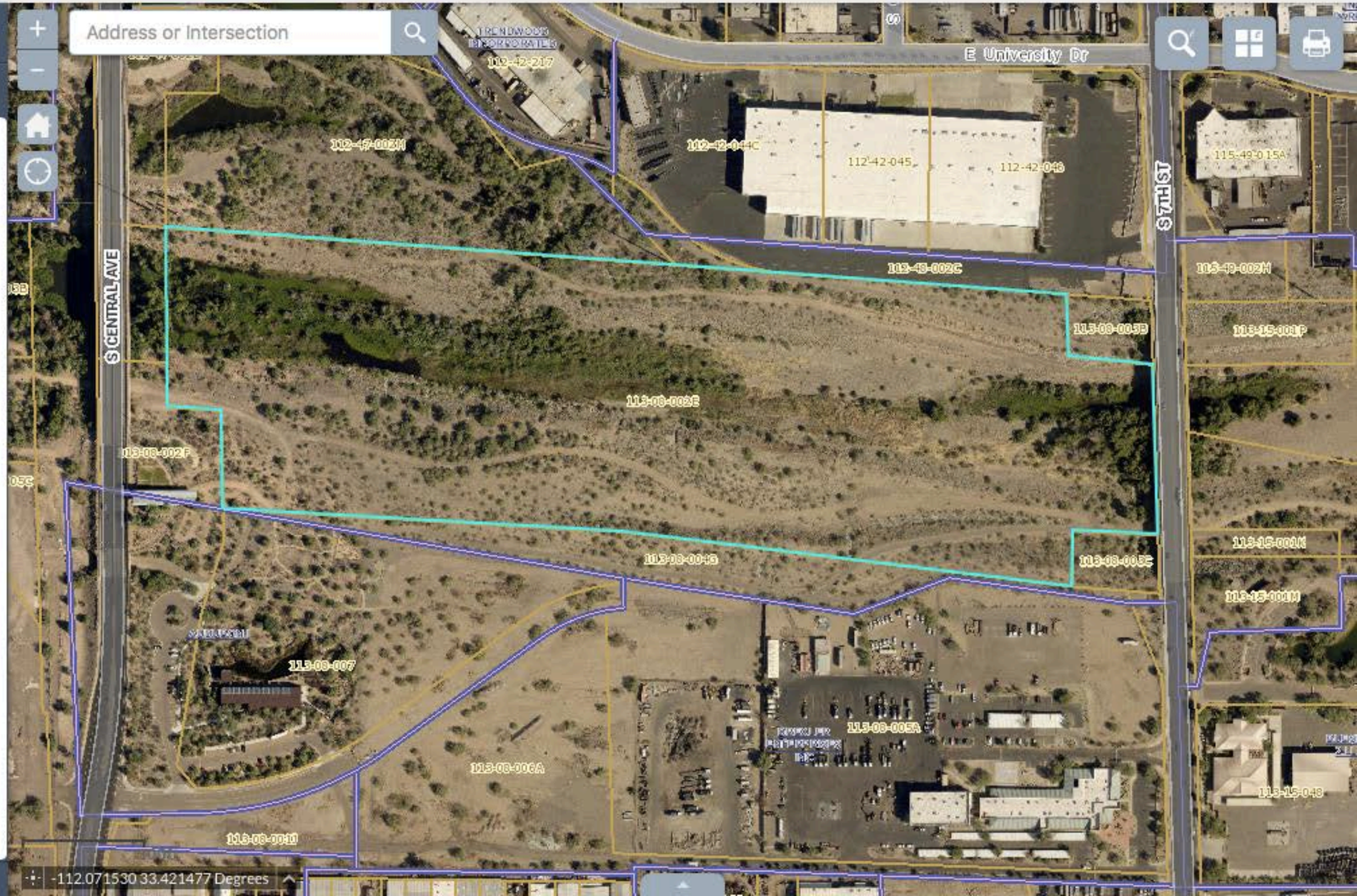
Owner Name:	PHOENIX CITY OF
Property Address:	
Mailing Address:	251 W WASHINGTON ST 8TH FL PHOENIX AZ 85003
Deed Number:	011137810
Sale Date:	
Sale Price:	$

Property Information

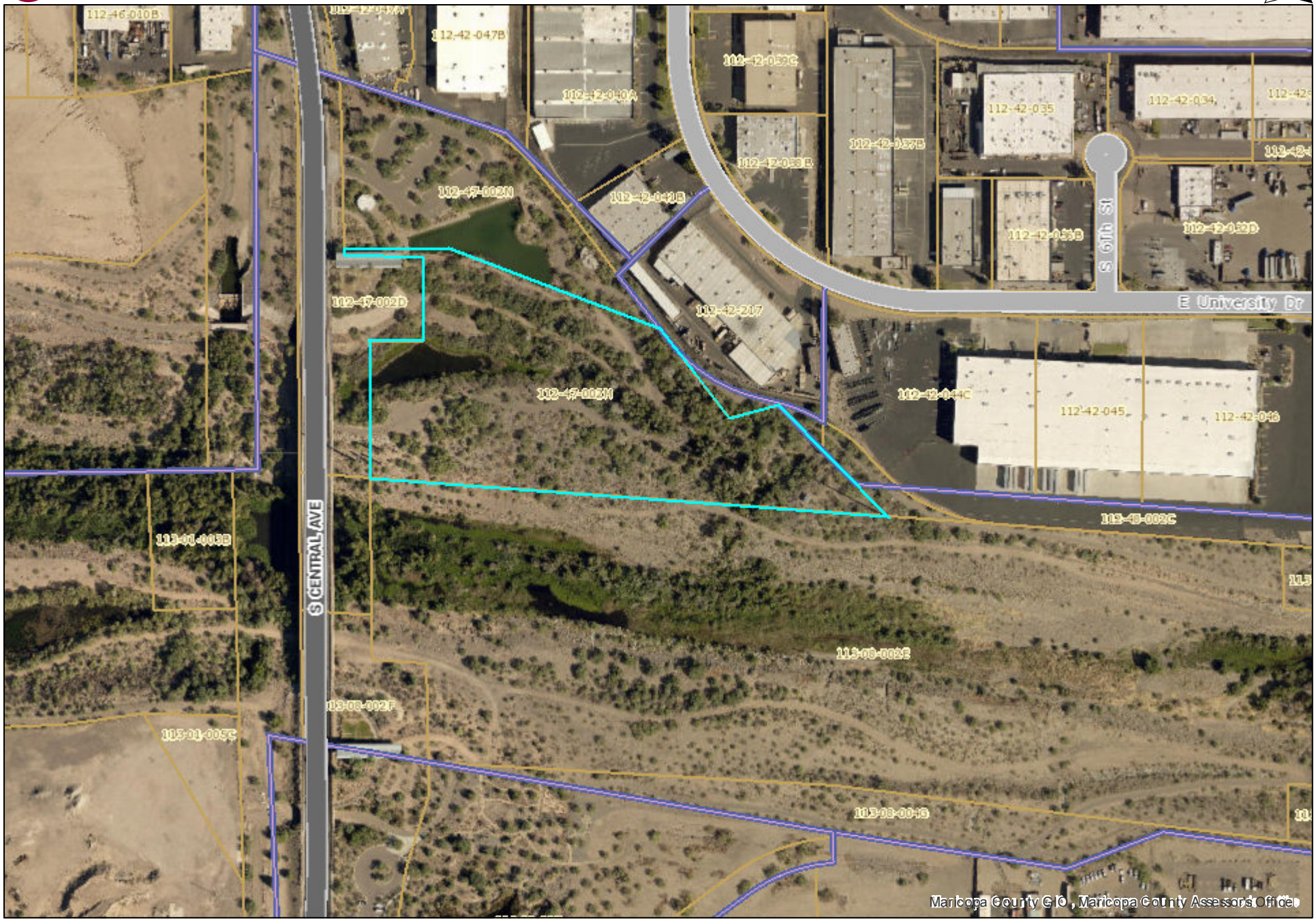
Lat/Long:	33.421070, -112.068960
S/T/R:	20 1N 3E
Jurisdiction:	PHOENIX
Zoning:	A-2
PUC:	9700
Lot Size (sq ft):	1,562,513
MCR #:	
Subdivision:	
Lot #:	
Floor:	1
Construction Year:	
Living Space (sq ft):	

Valuation Information

Tax Year:	2019	2018
FCV:	$565,000	$565,000



East of Central Avenue- Demonstration Pond



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WATER starts with love

¡SOLO LLUVIA por la ALCANTARILLA!

ONLY **RAIN** in the **STORM DRAIN!**

¡SOLO **LLUVIA** por la **ALCANTARILLA!**

¡EL AGUA limpia comienza con TODOS!

ONLY RAIN in the STORM DRAIN!

CLEAN WATER starts with **YOU!**

ONLY **RAIN** in the **STORM DRAIN!**

West of 7th Avenue Aquatic Strand

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Assessor Paul D. Petersen
Maricopa County Assessor's Office

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Feature Information

(1 of 1) Clear

105-38-004

Owner Information

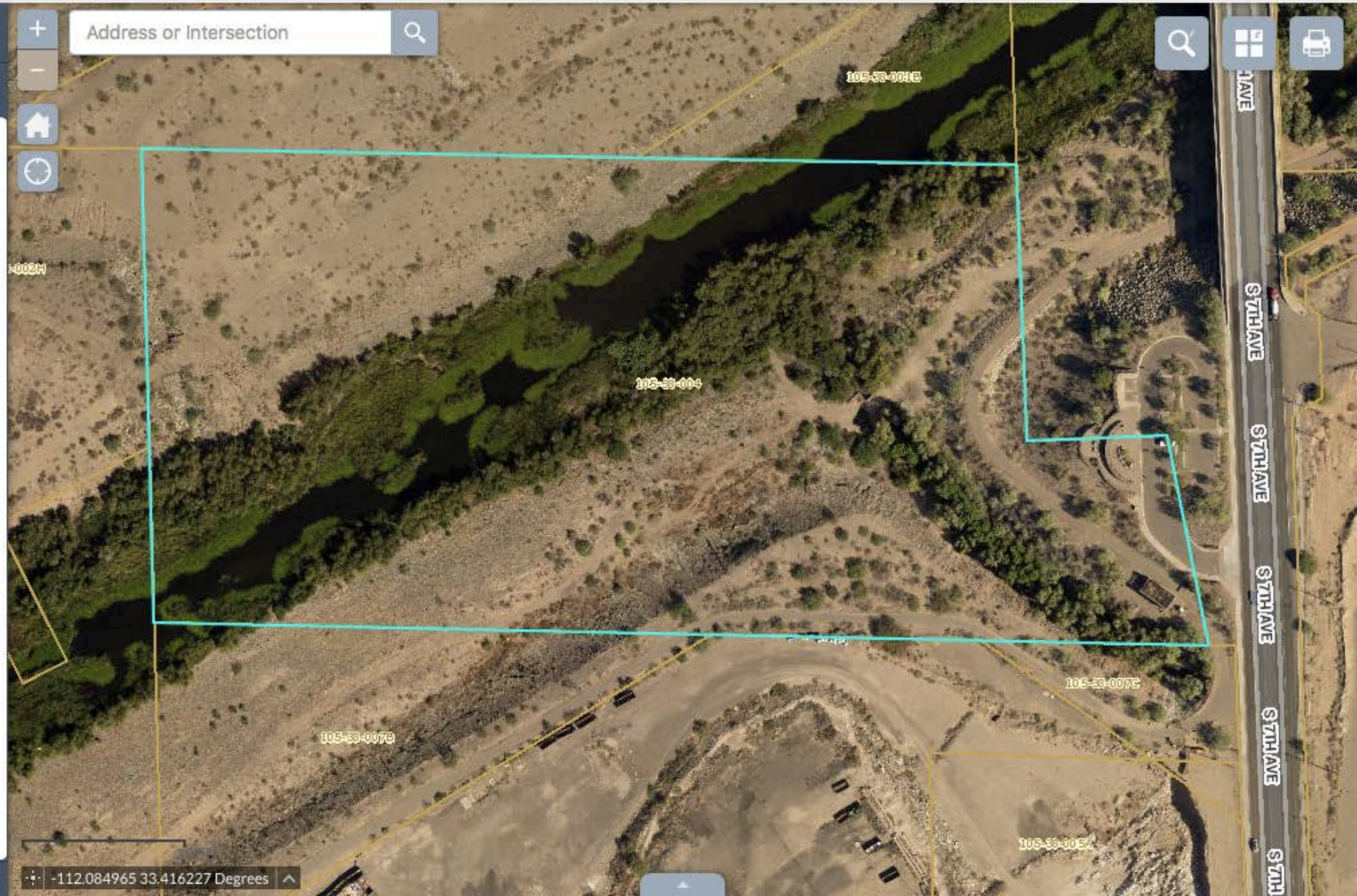
Owner Name:	PHOENIX CITY OF
Property Address:	3000 S 7TH AVE PHOENIX 85041
Mailing Address:	251 W WASHINGTON ST 8TH FL PHOENIX AZ 85003
Deed Number:	NOD-03321
Sale Date:	
Sale Price:	$

Property Information

Lat/Long:	33.417289, -112.084688
S/T/R:	19 1N 3E
Jurisdiction:	PHOENIX
Zoning:	A-2
PUC:	9700
Lot Size (sq ft):	634,146
MCR #:	
Subdivision:	
Lot #:	
Floor:	1
Construction Year:	
Living Space (sq ft):	

Valuation Information

Tax Year:	2019	2018
FCV:	$211,900	$211,900



West of 24th Street- Aquatic Strand

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Maricopa County Assessor's Office

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Feature Information

(1 of 1) Clear

122-29-003F

Owner Information

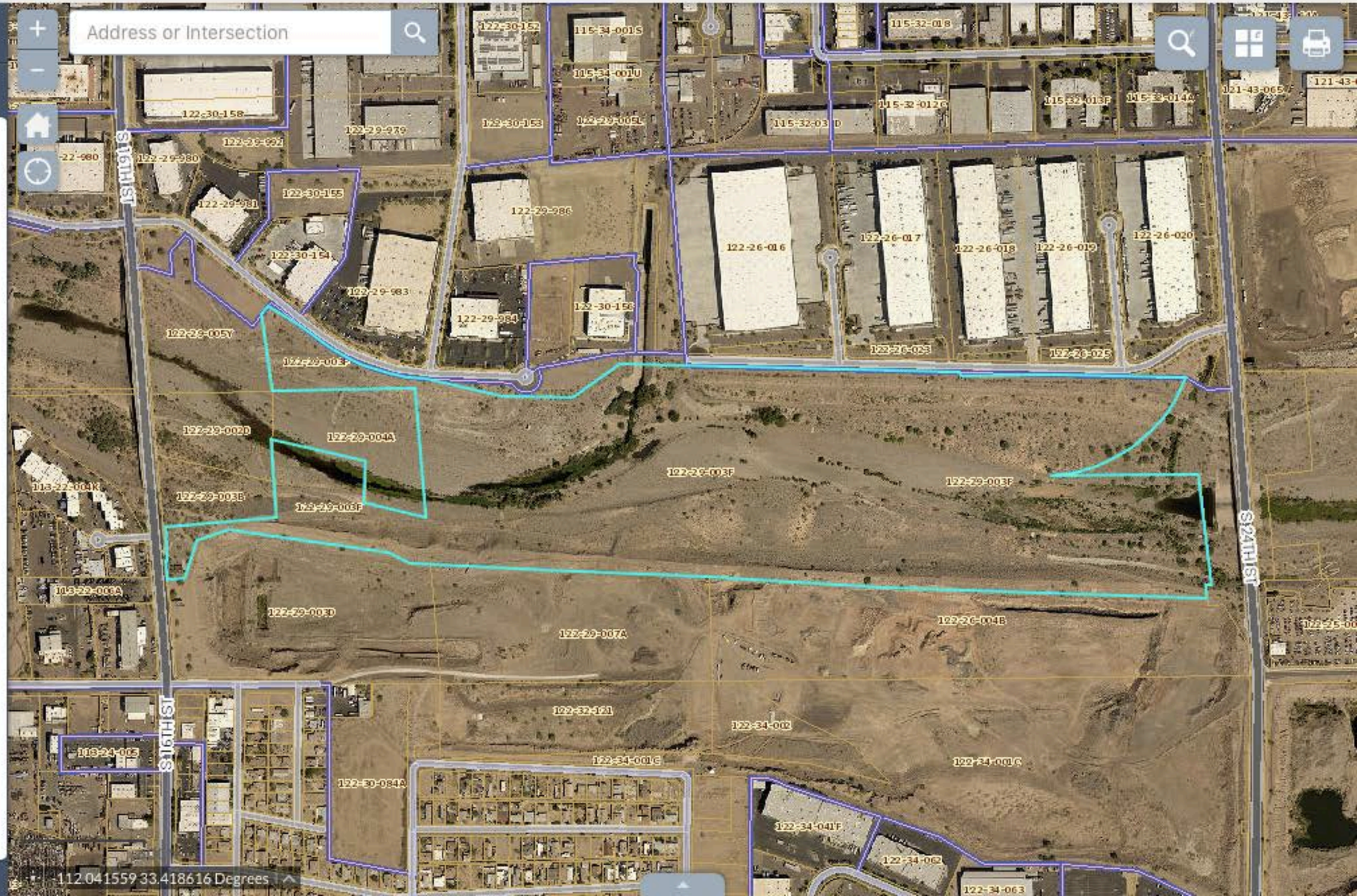
Owner Name:	PHOENIX CITY OF
Property Address:	3180 S 24TH ST PHOENIX 85040
Mailing Address:	251 W WASHINGTON ST 8TH FL PHOENIX AZ 85003
Deed Number:	011137810
Sale Date:	
Sale Price:	$

Property Information

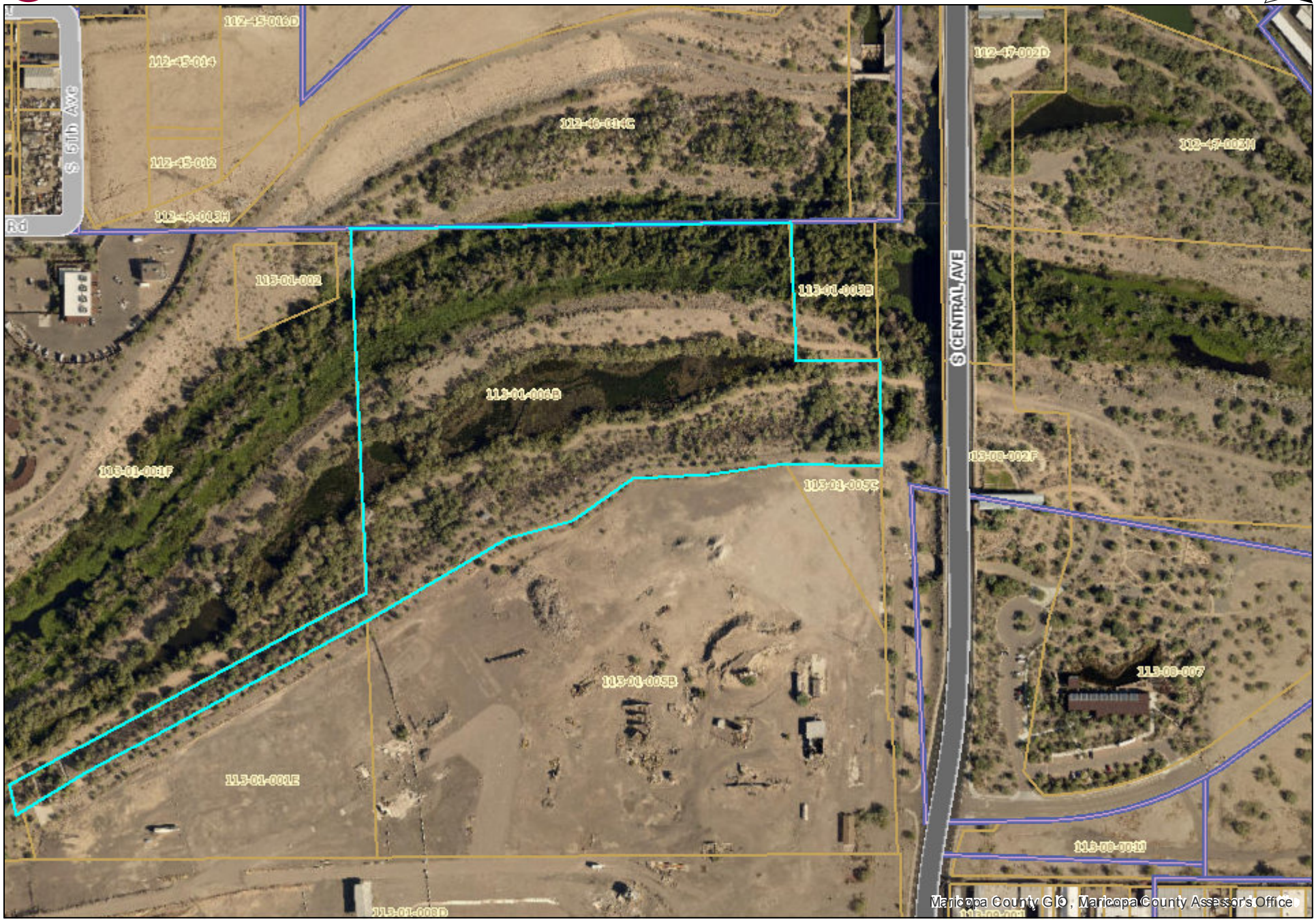
Lat/Long:	33.416784, -112.037592
S/T/R:	22 1N 3E
Jurisdiction:	PHOENIX
Zoning:	A-2
PUC:	9700
Lot Size (sq ft):	4,131,919
MCR #:	
Subdivision:	
Lot #:	
Floor:	1
Construction Year:	
Living Space (sq ft):	

Valuation Information

Tax Year:	2019	2018
FCV:	$5,806,700	$4,590,400



West of Central Avenue- Aquatic Strand and Wetland Ponds 1 and 2.



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Maricopa County Assessor's Office

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Feature Information

(1 of 1) Clear

113-01-006B

Owner Information

Owner Name:	PHOENIX CITY OF
Property Address:	
Mailing Address:	251 W WASHINGTON ST 8TH FL PHOENIX AZ 85003
Deed Number:	000346580
Sale Date:	
Sale Price:	$

Property Information

Lat/Long:	33.421091, -112.076545
S/T/R:	20 1N 3E
Jurisdiction:	PHOENIX
Zoning:	A-1
PUC:	9700
Lot Size (sq ft):	873,030
MCR #:	
Subdivision:	
Lot #:	
Floor:	1
Construction Year:	
Living Space (sq ft):	

Valuation Information

Tax Year:	2019	2018
FCV:	$297,600	$297,600


Bushnell
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Rio Salado Habitat Restoration Area
2017 Safe Harbor Report

Yuma Ridgway's Rail, Western Yellow-billed Cuckoo, & Southwestern Willow Flycatcher

Audubon Arizona
3131 S. Central Avenue
Phoenix, Arizona 85040
602.468.6470

Black-crowned Night Heron. Photo: Steve Prager, 2017

Table of Contents

Yuma Ridgway's Rail (RIRA)

Rallus obsoletus yumanensis

Ridgway's (Yuma clapper) rail habitat potential exists in the low flow channel between the Central Avenue and 7th Avenue bridges and the ponds on the south bank in this same reach. The sporadic to no flow in the river makes the quality of habitat inconsistent for clapper rail in the river channel. The south bank ponds provide suitable habitat and are being managed to have water during the time of year when rails would select the ponds for stop over or nesting habitat between the months of February-June.

Secretive marshbird surveys using the protocols developed by Courtney Conway and associates (North American Secretive Marshbird Survey) are conducted each spring with three survey visits during the months of April and May. The survey area is on the south bank between the ponds and the river and begins west of Central Avenue and ends at 15th Avenue. Surveys began in the spring of 2005 as a part of the annual Arizona marshbird surveys coordinated by the U.S. Fish and Wildlife Service and the Arizona Game and Fish Department. All data is on file with Arizona Game and Fish Department Region VI office, U.S. Fish and Wildlife Service Ecological Services Office, and at Audubon Arizona.

The lead biologist for the Rio Salado marshbird surveys is Steven Prager, Audubon Arizona Important Bird Area Program Associate. He has a B.S. in Conservation Biology & Ecological Sustainability and attended the National Marshbird Survey Protocol training in March 2016.

Mortalities, Injuries, and Diseases:

No mortalities, injuries, or diseases were observed for RIRA.

Verification of Baseline Maintenance:

A baseline of zero was established for the RIRA.

Authorized or Unauthorized Take:

No authorized or unauthorized take of the RIRA was observed.

Habitat Description:

The habitat between Central Avenue and 7th avenue continues to be marginal for Ridgway's rail (RIRA), but improves as you move westward.

The four ponds on the south side of the River beginning near Central Avenue are characterized by patches of emergent cattail and bulrush, dense adjacent cover comprised of mesquite, accacia, quailbush, tamarisk, and native bunchgrass, and a steep gradient from vegetated shallows to open, deep water. While City of Phoenix's parks maintenance staff has been proactive in keeping these ponds filled appropriately during secretive marshbird survey season, maintenance requiring their draining conducted during other times of year may be effecting

prey availability for RIRA and other marshbirds. In addition, the dense vegetation encroaching the ponds may provide habitat for predators, discouraging use. Lastly, available marsh vegetation is extremely dense, and may be too over-decadent for marshbirds to use.

Near Central Avenue, the low-flow channel of the Salt River is narrow and dominated by riparian vegetation (cottonwood, willow, and tamarisk). As you approach 7th avenue, the low-flow channel begins to widen and, historically, this area has contained significant marsh habitat that could potentially support RIRA. However, extreme flow events this year have resulted in significant scouring. The dense riparian vegetation clustered on the east side of the 7th avenue bridge remains, but much of the cattail, both east and west of 7th avenue, was lost. Regeneration of emergent vegetation was noted during this year's surveys and, with time, this area may still prove supportive of RIRA.

Survey Effort:

During the 2017 survey season, surveys were conducted by Steven Prager and Cathy Wise on March 23, April 13, and May 4. During each survey, nine ten-minute point counts were conducted between Central and 15th avenue. Surveys began 30 minutes before sunrise at the call-point nearest Central Avenue.

Table 1: Rio Salado Secretive Marshbird Survey Timing and Effort

Year	Survey Dates	# of Callpoints
2017	March 23, April 13, & May 4	9
2016	April 18 & May 6	9
2015	March 28 & May 15	9
2014	April 18 &May 14	9
2013	April 23 & May 17	9
2012	not surveyed	0
2011	March 29 & May 12	9
2010	April 6 & May 27	8
2009	April 12 & May 10	7
2008	April 8 & April 27	7

Table 2: Rio Salado Secretive Marshbird Survey Point Count Locations

#	Lat/Long	UTM
1	N33.42147° W112.07417°	12 S 400134 3698530
2	N33.42127° W112.07707°	12 S 399863 3698509
3	N33.42067° W112.07813°	12 S 399764 3698444
4	N33.41986° W112.07958°	12 S 399628 3698355
5	N33.41910° W112.08035°	12 S 399556 3698272
6	N33.41855° W112.08152°	12 S 399446 3698212
7	N33.41714° W112.08483°	12 S 399137 3698059
8	N33.41506° W112.08876°	12 S 398769 3697832
9	N33.41162° W112.09391°	12 S 398286 3697455

Figure 1: Rio Salado Secretive Marshbird Survey Route

Survey Results:

No RIRA were detected during the 2017 survey season, but other species were noted at each survey point. Of the nine focal species for this region, four were detected – Virginia's Rail, American Coot, Common Gallinule, and Pied-billed Grebe.

Table 3: 2017 Rio Salado Secretive Marshbird Survey Focal Species Detections

Survey #	Date	Species	# Detected
1	23-Mar-17	American Coot	15
		Common Gallinule	6
		Pied-billed Grebe	5
		Virginia's Rail	1
2	13-Apr-17	American Coot	10
		Common Gallinule	5
		Pied-billed Grebe	7
3	4-May-17	American Coot	2
		Common Gallinule	5
		Pied-billed Grebe	6

APPENDIX F

Existing Landfill Information

MIXED WASTE LANDFILLS

A listing of the 11 mixed waste landfills is as follows:

1. 19th Avenue Landfill
2. 7th Avenue North
3. Rio Salado #33
4. Rio Salado #32
5. Central Avenue North
6. United Metro Plant #1
7. North Bank, Central to 7th Street
8. Central Avenue South
9. Del Rio, West of Del Rio
10. Gibson Land/Rio Salado #30
11. Rio Salado #26

Information obtained for the 11 mixed waste landfills of concern is presented below.

6.3.4.1 19th Avenue Landfill

Information related to the 19th Avenue Landfill was obtained from City of Phoenix files, ADEQ Files, and various documents contained in available data for the Rio Salado Project. Extensive historic information is available for this landfill.

Location:

The 19th Avenue Landfill comprises two cells, Cell A and Cell A-1. Cell A is located adjacent to the north bank of the Salt River on the east side of 19th Avenue. Cell A-1 is located adjacent to the south bank of the Salt River on the west side of the 15th Avenue alignment.

Boundaries:

Cell A is bounded to the north by Southern Pacific Rail Road, to the south by the north bank of the Salt River, to the east by the alignment of 15th Avenue, and to the west by 19th Avenue.

Cell A-1 is bounded to the north by the south bank of the Salt River, to the south by the approximate alignment of River Side Street, to the east by the alignment of 15th Avenue, and to the west by the approximate alignment of 16th Avenue.

Current Status:

The landfill is Inactive and a listed Federal Superfund Site as of 1983.

Wastes Received:

Cell A received municipal solid waste, liquid waste including septage and industrial waste, medical waste including low-level radioactive waste, and hazardous waste. It is estimated that approximately 3.36 million tons (9 million cubic yards) of solid waste and 306,400 tons of liquid waste were disposed in Cell A. The aerial extent of waste along the north side of the Salt River is not well documented but is believed to have progressed toward and very close to the river

CH2M HILL Rio Salado Project drawings for a hand drawn depiction of the approximate locations of the groundwater monitoring wells located in close proximity to proposed Rio Salado Project boundaries.

Landfill Gas Monitoring:

Landfill gas monitoring probes exist as previously described. Quarterly monitoring results for the 2nd Quarter 2001 indicate that most of the monitoring probes located immediately adjacent to or within the proposed Rio Salado Project boundaries contain methane gas. Most of these typically contain low levels of methane gas ranging from 0.0 to 0.5 percent.

Several, however, typically contain much higher methane gas levels. Probe D-11 located near the south bank of the Salt River at the northeast corner of Cell A-1 reportedly contained methane gas levels ranging from 33 to 41 percent. Probe SR-2 located along the north side of the Salt River channel adjacent to the southwest portion of Cell A reportedly contained methane gas levels ranging from 40 to 47 percent. Probe SR-1 located along the north side of the Salt River channel adjacent to the southwest corner of Cell A reportedly contained methane gas levels ranging from 9 to 25 percent.

Surface emissions monitoring of the Salt River channel adjacent to the landfill has recently been implemented by the City of Phoenix. Results obtained during monitoring activities conducted in May and June 2000 indicated that total organic compound levels were detected at the surface of the river bottom at several locations and ranged from 0.45 to 2.47 parts per million.

Based on the results of landfill gas probe and surface emissions monitoring, it appears that methane gas migrating from the 19th Avenue Landfill may be impacting the Rio Salado Project. However, should the City of Phoenix provide additional engineering control including expanded LFG extraction wells or other methods adjacent to the Salt River, this may not be a factor.

Contamination:

Historical groundwater monitoring indicates that VOCs (including 1,1-DCE) and metals (including nickel) contamination of groundwater exists. VOCs and metals are detected in groundwater wells at the landfill and up gradient and down gradient of the landfill. It is not known if the landfill is contributing to the contamination.

6.3.4.2 7th Avenue North

Information related to the 7th Avenue North Landfill was obtained from ADEQ Files, and various documents contained in available data for the Rio Salado Project. Very little historic information was available for this landfill. According to information contained in the ADEQ's file for the landfill, no regulatory files were kept or known to exist.

Location:

The 7th Avenue Landfill is located adjacent to the north bank of the Salt River on the west side of 7th Avenue.

Boundaries:

The landfill is bounded to the north by the alignment of Lower Buckeye Road, to the south by the north bank of the Salt River, to the east by 7th Avenue, and to the west by the approximate alignment of 13th Avenue.

Current Status:

The landfill is currently "Inactive", capped with fill, and vacant.

Boundaries:

The landfill is bounded to the north by the south bank of the Salt River, to the south by the alignment of Elwood Street, to the east by 7th Avenue, and to the west by the approximate alignment of 13th Avenue.

Current Status:

The current status is not certain. Maps reviewed from available data only indicate that it is a landfill. The USACE Feasibility report (identifying it as Rio Salado #8) lists the landfill as active accepting inert construction debris. The above referenced conceptual design report lists the landfill as inactive previously accepting concrete, metal debris, and vegetative debris.

Wastes Received:

The landfill reportedly received metal debris, vegetative debris, and/or inert construction debris

Seven trenches were excavated at the site. Waste was detected in three of the seven trenches and included concrete, metal debris, and vegetative debris (SCS Engineers, 2/29/00).

Cover Material:

Seven trenches excavated at the landfill indicated that cover at the site consists primarily of coarse-grained soil one to two feet thick. Waste was detected below the cover in three of the seven trenches (SCS Engineers, 2/29/00).

Features Adjacent to the Rio Salado Project Boundary:

No information related to physical features of the landfill, other than its general location, was obtained through research of available documents for the landfill. It is assumed that wastes disposed at the landfill exist adjacent to the south side of the Rio Salado Project boundaries and could potentially exist within these boundaries.

Planned End Use:

The planned end use of the landfill is not known.

Groundwater Monitoring:

It does not appear that groundwater monitoring of the landfill is in effect. No information related to groundwater monitoring was obtained though research of available documents for the landfill.

Landfill Gas Monitoring:

It does not appear that landfill gas monitoring of the landfill is in effect. No information related to landfill gas monitoring was obtained though research of available documents for the landfill.

Contamination:

No information related to contamination of the landfill or its immediate vicinity was obtained though research of available documents for the landfill.

6.3.4.4 Rio Salado #32

Very little historic information was available for Rio Salado Landfill #32. No regulatory files were available. Information related to the landfill was obtained from documents contained in Available data for the Rio Salado Project.

6.3.4.5 Central Avenue North

Information related to the Central Avenue North Landfill was obtained from ADEQ Files, and various documents contained in available data for the Rio Salado Project. Very little historic information was available for this landfill.

Location:

The Central Avenue North Landfill is located adjacent to the north bank of the Salt River on the west side of Central Avenue.

Boundaries:

The landfill is bounded to the north by Watkins Street, to the south by the north bank of the Salt River, to the east by Central Avenue, and to the west by 5th Avenue.

Current Status:

The landfill is currently inactive. Documentation from 1998 contained in the ADEQ files indicates that the site is undergoing capping and final closure. The landfill received an Aquifer Protection Permit & Solid Waste Facility Closure/Post-Closure Plan (APP Permit No. P-103989) from the ADEQ dated April 5, 2000.

According to Mr. Cliff Pollock, P.E. with Seacor International (the landfill closure consultant) the landfill final cover was completed in early January 2002. A final closure report is being prepared for submittal to the ADEQ. Once the closure report is approved the landfill will receive "Closed" status.

Wastes Received:

The landfill reportedly received a variety of wastes including automobile shredder waste, automotive batteries, construction rubble, paper, tires, glass, sanitary waste, and sand/gravel/cobble fill during its operational period from approximately 1966 through 1988. It is estimated that the landfill received approximately 710,000 tons (1.4 million cubic yards) of waste and that the waste was placed up to and immediately adjacent to the north bank of the Salt River. Waste materials were reportedly placed via the push-over method of fill resulting in low compaction and that, at times, no mechanical compaction of waste was performed during operation.

Two trenches were excavated at the site. Waste was detected in both of the two trenches and included metal debris, glass, vinyl floor tiles, wood/lumber, and household waste (SCS Engineers, 2/29/00).

Cover Material:

Under the APP for the landfill, final closure cover for the landfill calls for a base soil layer at least 12 inches thick with a designed permeability of 1.0×10^{-5} cm/sec overlain by an infiltration barrier layer at least 12 inches thick with a permeability no greater than 1.0×10^{-5} cm/sec overlain by a one-foot thick erosion protection layer at least 12 inches thick with a permeability of approximately 1.0×10^{-5} cm/sec. According to the APP, the landfill final cover is to be completed within 36 months of the effective date of the permit, which would be April 2003.

Two trenches excavated at the landfill indicated that cover at the site consists primarily of coarse-grained soil two to three feet thick. Waste was detected below the cover in both trenches.

Features Adjacent to the Rio Salado Project Boundary:

The final closure cap previously described will be placed over the entire landfill including the area adjacent to the north bank of the Salt River. Two groundwater monitoring wells are located within

Wastes received reportedly included concrete and brick, metal debris, glass, tires, and household waste.

Fourteen trenches were excavated at the site. Waste was detected in 10 of the 14 trenches and included concrete, metal debris, glass, brick, tires, and household waste (SCS Engineers, 2/29/00).

Cover Material:

Fourteen trenches excavated indicated that cover at the site consists primarily of coarse grained and fine-grained soil one-half to four feet thick. Waste was detected below the cover in 10 of the 14 trenches.

Features Adjacent to the Rio Salado Project Boundary:

No information related to physical features of the landfill, other than its general location, was obtained through research of available documents for the landfill. It is assumed that wastes disposed at the landfill exist adjacent to the south side of the Rio Salado Project boundaries and could potentially exist within these boundaries.

Planned End Use:

The planned end use of the landfill is not known.

Groundwater Monitoring:

It does not appear that groundwater monitoring of the landfill is in effect. No information related to groundwater monitoring was obtained though research of available documents for the landfill.

Landfill Gas Monitoring:

It does not appear that landfill gas monitoring of the landfill is in effect. No information related to landfill gas monitoring was obtained though research of available documents for the landfill.

Contamination:

Surface soil sampling at the landfill in August of 1999 indicated the presence of petroleum hydrocarbons, VOCs, and PAHs. Petroleum hydrocarbons were detected at levels above the Residential Soil Remediation Level (RSRL) but below the Non-Residential Soil Remediation Level (NRSRL) in one soil sample. Petroleum hydrocarbons, VOCs, and PAHs detected in other soil samples were all below RSRL (SCS Engineers, 2/29/00).

6.3.4.7 North Bank, Central to 7th Street

Very little historic information was available for the North Bank, Central to 7th Street Landfill. No regulatory files were available. Information related to the landfill was obtained from documents contained in Available data for the Rio Salado Project.

Location:

The North Bank, Central to 7th Street Landfill is located adjacent to the north bank of the Salt River between Central Avenue and 7th Street.

Boundaries:

The landfill is bounded to the north by the approximate alignment of Magnolia Street, to the south by the north bank of the Salt River, to the east by 7th Street, and to the west by Central Avenue.

Current Status:

The landfill is currently "Inactive".

Wastes Received:

Wastes reportedly received at the landfill include concrete, metal debris, brick, vegetative debris, tires, glass, floor tiles, automotive batteries, and household waste.

Twelve trenches were excavated at the site. Waste was detected in 11 of the 12 trenches and included concrete, metal debris, brick, vegetative debris, tires, glass, floor tiles, and household waste (SCS Engineers, 2/29/00).

Cover Material:

Twelve trenches excavated indicated that cover at the site consists primarily of coarse-grained soil one to four feet thick. Waste was detected below the cover in 11 of the 12 trenches.

Features Adjacent to the Rio Salado Project Boundary:

No information related to physical features of the landfill, other than its general location, was obtained through research of available documents for the landfill. Based on trenching results, wastes disposed at the landfill exist within the Rio Salado project boundaries.

Planned End Use:

The planned end use of the landfill is not known.

Groundwater Monitoring:

It does not appear that groundwater monitoring of the landfill is in effect. No information related to groundwater monitoring was obtained though research of available documents for the landfill.

Landfill Gas Monitoring:

It does not appear that landfill gas monitoring of the landfill is in effect. No information related to landfill gas monitoring was obtained though research of available documents for the landfill.

Contamination:

No information related to contamination of the landfill or its immediate vicinity was obtained through research of available documents for the landfill.

6.3.4.9 Del Rio

Information related to the Del Rio Landfill was obtained from City of Phoenix files, ADEQ Files, and various documents contained in available data for the Rio Salado Project.

Location:

The Del Rio Landfill is located adjacent to the south bank of the Salt River between 7th Street and 16th Street.

Boundaries:

The landfill is bounded to the north by the south bank of the Salt River, to the south by Elwood Street, to the east by the approximate alignment of 15th Street, and to the west by the approximate alignment of 8th Street.

nearby the proposed Rio Salado Project boundaries or elsewhere at the landfill contain methane gas.

Contamination:

Historical groundwater monitoring indicates that VOCs contamination of groundwater exists. VOCs are detected in groundwater wells at the landfill and up gradient and down gradient of the landfill. It is not known if the landfill is contributing to the contamination.

6.3.4.10 Gibson Lane/Rio Salado #30

Information related to the Gibson Lane/Rio Salado #30 Landfill was obtained from ADEQ Files and various documents contained in available data for the Rio Salado Project. Very little information related to the landfill was available. According to information contained in the ADEQ's file for the landfill, no regulatory files were kept and no enforcement history or inspections records are known to exist.

Location:

The Gibson Lane/Rio Salado #30 Landfill is located on the east side of 12th Street just north of the north bank of the Salt River.

Boundaries:

The landfill is bounded to the north by the Southern Pacific Rail Road and the alignment of Magnolia Street, to the south by the alignment of Lower Buckeye Road, to the east by the approximate alignment of 14th Street, and to the west by the alignment of 12th Street.

Current Status:

The current status of the landfill is "Inactive". It ceased operations in 1969 and buildings are reportedly constructed over portions of the landfill.

Wastes Received:

The landfill reportedly accepted municipal solid waste including tires, white goods, construction debris, and vegetative waste.

Cover Material:

The thickness and type of cover material used at the landfill is not known.

Features Adjacent to the Rio Salado Project Boundary:

The Gibson Lane/Rio Salado #30 Landfill is not located immediately adjacent to the Salt River or the Rio Salado Project boundaries.

Planned End Use:

The planned end use is not known. Commercial/industrial buildings reportedly occupy portions of the landfill.

Groundwater Monitoring:

It does not appear that groundwater monitoring of the landfill is in effect. No information related to groundwater monitoring was obtained though research of available documents for the landfill.

Landfill Gas Monitoring:

It does not appear that groundwater monitoring of the landfill is in effect. No information related to groundwater monitoring was obtained though research of available documents for the landfill.

Landfill Gas Monitoring:

It does not appear that landfill gas monitoring of the landfill is in effect. No information related to landfill gas monitoring was obtained though research of available documents for the landfill.

Contamination:

Surface soil sampling at the landfill in August of 1999 indicated the presence of VOCs, PCBs, PAHs, and RCRA Metals. All were detected below RSRLs except lead detected in one sample at a level of 400 mg/kg, a level that is equal to the RSRL for lead (SCS Engineers, 2/29/00).

6.3.5 INERT DEBRIS LANDFILLS

Several active and inactive inert debris landfills are located along the proposed boundaries of the Rio Salado Project. Very little historic information was available for these landfills. No regulatory files were available. Information related to the inert debris landfills was obtained from documents contained in Available data for the Rio Salado Project. The active and inactive inert debris landfills are discussed separately below.

Active Inert Debris Landfills

Three active inert debris landfills exist adjacent to the Rio Salado Project.

The McDonald Wilhelm active landfill is located adjacent to the north bank of the Salt River on the east side of the 15th Avenue alignment between the 19th Avenue Landfill and the 7th Avenue North Landfill. The landfill appears to be active currently accepting only inert debris. Sources disagree on the types of materials that were historically disposed with some reporting only inert debris and some reporting mixed waste including concrete, tires, vegetative debris, automotive batteries, floor tiles, wood and lumber, and household trash.

The United Metro active landfill is located adjacent to the south bank of the Salt River on the east side of 7th Avenue. Only the northwest corner of this landfill is adjacent to the Rio Salado Project. The landfill is active accepting only inert debris.

The CalMat active landfill is located adjacent to the north bank of the Salt River on the west side of 24th Street. This landfill reportedly used to contain mixed waste that was removed. The landfill is active currently receiving only inert debris.

Inactive Inert Debris Landfills

Three inactive inert debris landfills exist adjacent to the Rio Salado Project.

One CalMat inactive landfill is located adjacent to the north bank of the Salt River between 7th Street and 16th Street adjacent to the west and south sides of the Gibson Lane/Rio Salado #30 Landfill. This landfill reportedly received only inert debris.

One CalMat active landfill is located adjacent to the south bank of the Salt River on the west side of I-10. Reportedly, this landfill was used for disposal of inert debris.

An additional small inert debris landfill is located adjacent to the north bank of the Salt River on the east side of Central Avenue immediately adjacent to the North Bank, Central to 7th Street Landfill.

LIMS	Sample Date/Time	Sample ID	Method
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022347	5/4/2016 9:34	21030.RSPW2	EPA 515.4
2016022347	5/4/2016 9:34	21030.RSPW2	EPA 515.4
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022347	5/4/2016 9:34	21030.RSPW2	EPA 515.4
2016022347	5/4/2016 9:34	21030.RSPW2	EPA 515.4
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022350	5/4/2016 9:34	21030.RSPW2	EPA 624 ¤
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022347	5/4/2016 9:34	21030.RSPW2	EPA 515.4
2016022349	5/4/2016 9:34	21030.RSPW2	EPA 525.2 ¤
2016022349	5/4/2016 9:34	21030.RSPW2	EPA 525.2 ¤
2016022349	5/4/2016 9:34	21030.RSPW2	EPA 525.2 ¤
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625

2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022347	5/4/2016 9:34	21030.RSPW2	EPA 515.4
2016022350	5/4/2016 9:34	21030.RSPW2	EPA 624 ¤
2016022350	5/4/2016 9:34	21030.RSPW2	EPA 624 ¤
2016022349	5/4/2016 9:34	21030.RSPW2	EPA 525.2 ¤
2016022349	5/4/2016 9:34	21030.RSPW2	EPA 525.2 ¤
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022357	5/4/2016 9:34	21030.RSPW2	EPA 200.8
2016022357	5/4/2016 9:34	21030.RSPW2	EPA 200.8
2016022349	5/4/2016 9:34	21030.RSPW2	EPA 525.2 ¤
2016022357	5/4/2016 9:34	21030.RSPW2	EPA 200.7
2016022347	5/4/2016 9:34	21030.RSPW2	EPA 515.4
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022349	5/4/2016 9:34	21030.RSPW2	EPA 525.2 ¤
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
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2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016026658	5/2/2016 8:43	21030.RSPW2	EPA 1000.0
2017025951	4/3/2017 8:24	21030.RSPW2	EPA 1000.0
2018021521	4/2/2018 8:00	21030.RSPW2	EPA 1000.0
2016022347	5/4/2016 9:34	21030.RSPW2	EPA 515.4
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016002293	1/14/2016 8:53	21030.RSPW2	PH § ¤
2016007062	2/4/2016 8:55	21030.RSPW2	PH § ¤
2016012771	3/3/2016 8:45	21030.RSPW2	PH § ¤
2016023142	4/15/2016 9:15	21030.RSPW2	PH § ¤
2016022362	5/4/2016 9:34	21030.RSPW2	PH § ¤
2016035522	6/2/2016 7:24	21030.RSPW2	PH § ¤
2016042611	7/8/2016 9:08	21030.RSPW2	PH § ¤
2016053235	8/19/2016 8:17	21030.RSPW2	PH § ¤
2016059887	9/8/2016 8:06	21030.RSPW2	PH § ¤
2016066218	10/6/2016 8:25	21030.RSPW2	PH § ¤
2016072148	11/3/2016 8:28	21030.RSPW2	PH § ¤
2016081477	12/9/2016 9:40	21030.RSPW2	PH § ¤
2017002659	1/12/2017 7:43	21030.RSPW2	PH § ¤
2017009140	2/6/2017 8:43	21030.RSPW2	PH § ¤
2017016276	3/9/2017 7:56	21030.RSPW2	PH § ¤
2017024657	4/5/2017 7:53	21030.RSPW2	PH § ¤
2017035552	5/4/2017 8:22	21030.RSPW2	PH § ¤
2017044868	6/15/2017 8:27	21030.RSPW2	PH § ¤
2017050048	7/6/2017 7:44	21030.RSPW2	PH § ¤
2017061364	8/11/2017 8:25	21030.RSPW2	PH § ¤
2017070307	9/7/2017 8:25	21030.RSPW2	PH § ¤
2017079539	10/13/2017 7:52	21030.RSPW2	PH § ¤
2017083314	11/3/2017 8:20	21030.RSPW2	PH § ¤
2017093063	12/8/2017 8:58	21030.RSPW2	PH § ¤
2018000596	1/5/2018 7:55	21030.RSPW2	PH § ¤
2018007047	2/9/2018 7:46	21030.RSPW2	PH § ¤
2018016056	3/8/2018 7:48	21030.RSPW2	PH § ¤
2018022176	4/4/2018 7:55	21030.RSPW2	PH § ¤
2018029249	5/1/2018 8:14	21030.RSPW2	PH § ¤
2018037733	6/8/2018 7:34	21030.RSPW2	PH § ¤
2018044618	7/3/2018 7:42	21030.RSPW2	PH § ¤
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016022356	5/4/2016 9:34	21030.RSPW2	SM 4500 P E
2016022347	5/4/2016 9:34	21030.RSPW2	EPA 515.4
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022352	5/4/2016 9:34	21030.RSPW2	EPA 625
2016026658	5/2/2016 8:43	21030.RSPW2	EPA 1003.0
2017025951	4/3/2017 8:24	21030.RSPW2	EPA 1003.0

2018021521	4/2/2018 8:00	21030.RSPW2	EPA 1003.0
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016002292	1/14/2016 8:53	21030.RSPW2	EPA 200.8
2016007061	2/4/2016 8:55	21030.RSPW2	EPA 200.8
2016012770	3/3/2016 8:45	21030.RSPW2	EPA 200.8
2016023141	4/15/2016 9:15	21030.RSPW2	EPA 200.8
2016022357	5/4/2016 9:34	21030.RSPW2	EPA 200.8
2016035521	6/2/2016 7:24	21030.RSPW2	EPA 200.8
2016042610	7/8/2016 9:08	21030.RSPW2	EPA 200.8
2016053234	8/19/2016 8:17	21030.RSPW2	EPA 200.8
2016059886	9/8/2016 8:06	21030.RSPW2	EPA 200.8
2016066217	10/6/2016 8:26	21030.RSPW2	EPA 200.8
2016072147	11/3/2016 8:28	21030.RSPW2	EPA 200.8
2016081476	12/9/2016 9:40	21030.RSPW2	EPA 200.8
2017002658	1/12/2017 7:43	21030.RSPW2	EPA 200.8
2017009139	2/6/2017 8:48	21030.RSPW2	EPA 200.8
2017016275	3/9/2017 7:56	21030.RSPW2	EPA 200.8
2017024656	4/5/2017 7:53	21030.RSPW2	EPA 200.8
2017035551	5/4/2017 8:22	21030.RSPW2	EPA 200.8
2017044867	6/15/2017 8:27	21030.RSPW2	EPA 200.8
2017050047	7/6/2017 7:44	21030.RSPW2	EPA 200.8
2017061363	8/11/2017 8:25	21030.RSPW2	EPA 200.8
2017070306	9/7/2017 8:25	21030.RSPW2	EPA 200.8
2017079538	10/13/2017 7:52	21030.RSPW2	EPA 200.8
2017083313	11/3/2017 8:20	21030.RSPW2	EPA 200.8
2017093062	12/8/2017 8:59	21030.RSPW2	EPA 200.8
2018000595	1/5/2018 7:55	21030.RSPW2	EPA 200.8
2018007046	2/9/2018 7:46	21030.RSPW2	EPA 200.8
2018016055	3/8/2018 7:48	21030.RSPW2	EPA 200.8
2018022175	4/4/2018 7:48	21030.RSPW2	EPA 200.8
2018029248	5/1/2018 8:14	21030.RSPW2	EPA 200.8
2018037732	6/8/2018 7:34	21030.RSPW2	EPA 200.8
2018044617	7/3/2018 7:42	21030.RSPW2	EPA 200.8
2016022357	5/4/2016 9:34	21030.RSPW2	EPA 200.7
2016022349	5/4/2016 9:34	21030.RSPW2	EPA 525.2 ¤
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022358	5/4/2016 9:34	21030.RSPW2	SM20 2540 D
2016012772	3/3/2016 8:45	21030.RSPW2	Temp § ¤
2016022360	5/4/2016 9:34	21030.RSPW2	Temp § ¤
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022357	5/4/2016 9:34	21030.RSPW2	EPA 200.8
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022361	5/4/2016 9:34	21030.RSPW2	SM20 9223 B
2017024655	4/5/2017 7:53	21030.RSPW2	SM22 9223 B
2018022174	4/4/2018 8:04	21030.RSPW2	SM22 9223 B
2016022347	5/4/2016 9:34	21030.RSPW2	EPA 515.4
2016022358	5/4/2016 9:34	21030.RSPW2	SM20 2540 C
2016022359	5/4/2016 9:34	21030.RSPW2	ASTM D3590 A,B ¤
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2

2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022349	5/4/2016 9:34	21030.RSPW2	EPA 525.2 ¤
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022351	5/4/2016 9:34	21030.RSPW2	EPA 624
2016022348	5/4/2016 9:34	21030.RSPW2	EPA 524.2
2016022357	5/4/2016 9:34	21030.RSPW2	EPA 200.7

Parameter	Results	Units	Dilution	Data Set
1,1,1-Trichloroethane	<0.27	ug/L	1	1
1,1,1-Trichloroethane	<0.34	ug/L	1	1
1,1,2,2-Tetrachloroethane	<0.80	ug/L	1	1
1,1,2-Trichloroethane	<0.15	ug/L	1	1
1,1,2-Trichloroethane	<0.60	ug/L	1	1
1,1-Dichloroethane	<0.42	ug/L	1	1
1,1-Dichloroethylene	<0.32	ug/L	1	1
1,1-Dichloroethylene	<0.34	ug/L	1	1
1,2,3-Trichlorobenzene	<0.29	ug/L	1	1
1,2,4-Trichlorobenzene	<0.29	ug/L	1	1
1,2,4-Trichlorobenzene	<1.04	ug/L	1	1
1,2,4-Trimethylbenzene	<0.20	ug/L	1	1
1,2-Dibromo-3-chloropropane (DBCP)	<0.22	ug/L	1	1
1,2-Dibromoethane (EDB)	<0.16	ug/L	1	1
1,2-Dichlorobenzene	<0.22	ug/L	1	1
1,2-Dichlorobenzene	<0.64	ug/L	1	1
1,2-Dichlorobenzene	<1.04	ug/L	1	1
1,2-Dichloroethane	<0.18	ug/L	1	1
1,2-Dichloroethane	<0.51	ug/L	1	1
1,2-Dichloropropane	<0.19	ug/L	1	1
1,2-Dichloropropane	<0.49	ug/L	1	1
1,2-Diphenyl hydrazine (as azobenzene)	<1.06	ug/L	1	1
1,3,5-Trimethylbenzene	<0.20	ug/L	1	1
1,3-Dichlorobenzene	<0.60	ug/L	1	1
1,3-Dichlorobenzene	<0.47	ug/L	1	1
1,4-Dichlorobenzene	<0.24	ug/L	1	1
1,4-Dichlorobenzene	<0.59	ug/L	1	1
1,4-Dichlorobenzene	<1.28	ug/L	1	1
2,4,5-T	<0.2	ug/L	1	1
2,4,5-TP (Silvex)	<0.2	ug/L	1	1
2,4,6-Trichlorophenol	<2.60	ug/L	1	1
2,4-D	<0.1	ug/L	1	1
2,4-DB	<2	ug/L	1	1
2,4-Dichlorophenol	<2.81	ug/L	1	1
2,4-Dimethylphenol	<2.64	ug/L	1	1
2,4-Dinitrophenol	<2.21	ug/L	1	1
2,4-Dinitrotoluene	<0.26	ug/L	1	1
2,6-Dinitrotoluene	<0.38	ug/L	1	1
2-Chloroethyl vinyl ether	<0.43	ug/L	1	1
2-Chloronaphthalene	<0.43	ug/L	1	1
2-Chlorophenol	<3.10	ug/L	1	1
2-Methyl-4,6-dinitrophenol	<1.49	ug/L	1	1
2-Nitrophenol	<2.84	ug/L	1	1
3,3'-Dichlorobenzidine	<11.60	ug/L	1	1
3,5-Dichlorobenzoic Acid	<0.5	ug/L	1	1
4,4'-DDD	<0.05	ug/L	10	1
4,4'-DDE	<0.05	ug/L	10	1
4,4'-DDT	<0.11	ug/L	10	1
4-Bromophenyl phenyl ether	<0.38	ug/L	1	1
4-Chloro-3-methylphenol	<1.87	ug/L	1	1
4-Chlorophenyl phenyl ether	<4.19	ug/L	1	1

4-Nitrophenol	<2.98	ug/L	1	1
Acenaphthene	<0.35	ug/L	1	1
Acenaphthylene	<1.23	ug/L	1	1
Acifluorfen	<0.2	ug/L	1	1
Acrolein	<0.41	ug/L	1	1
Acrylonitrile	<0.42	ug/L	1	1
Alachlor	<0.05	ug/L	10	1
alpha-Chlordane	<0.13	ug/L	10	1
Anthracene	<0.44	ug/L	1	1
Antimony - Total Recoverable	<0.00015	mg/L	5	1
Arsenic - Total Recoverable	0.0062	mg/L	5	1
Atrazine	0.12	ug/L	10	1
Barium - Total Recoverable	0.0564	mg/L	1	1
Bentazon	<0.5	ug/L	1	1
Benzene	<0.17	ug/L	1	1
Benzene	<0.46	ug/L	1	1
Benzidine	<26.95	ug/L	1	1
Benzo(a)anthracene	<0.38	ug/L	1	1
Benzo(a)pyrene	<0.07	ug/L	10	1
Benzo(a)pyrene	<1.41	ug/L	1	1
Benzo(b)fluoranthene	<1.06	ug/L	1	1
Benzo(ghi)perylene	<0.72	ug/L	1	1
Benzo(k)fluoranthene	<0.35	ug/L	1	1
Benzyl butyl phthalate	<1.02	ug/L	1	1
Beryllium - Total Recoverable	<0.0001	mg/L	1	1
Bis(2-chloroethoxy)methane	<1.15	ug/L	1	1
Bis(2-chloroethyl)ether	<1.12	ug/L	1	1
Bis(2-chloroisopropyl)ether	<1.10	ug/L	1	1
Bis(2-ethylhexyl) adipate	<2.87	ug/L	10	1
Bis(2-ethylhexyl) phthalate	<2.50	ug/L	10	1
Bis(2-ethylhexyl) phthalate	<1.11	ug/L	1	1
Boron - Total Recoverable	0.198	mg/L	1	1
Bromochloromethane	<0.20	ug/L	1	1
Bromodichloromethane	<0.16	ug/L	1	1
Bromodichloromethane	<0.49	ug/L	1	1
Bromoform	<0.19	ug/L	1	1
Bromoform	<0.68	ug/L	1	1
Bromomethane	<0.46	ug/L	1	1
Cadmium - Total Recoverable	<0.00015	mg/L	5	1
Calcium - Total Recoverable	51.1	mg/L	1	1
Calcium - Total Recoverable	51.6	mg/L	1	1
Calcium - Total Recoverable	52.8	mg/L	1	1
Calcium - Total Recoverable	51.1	mg/L	1	1
Calcium - Total Recoverable	52.0	mg/L	1	1
Calcium - Total Recoverable	51.5	mg/L	1	1
Calcium - Total Recoverable	53.2	mg/L	1	1
Calcium - Total Recoverable	51.7	mg/L	1	1
Calcium - Total Recoverable	54.4	mg/L	1	1
Calcium - Total Recoverable	55.6	mg/L	1	1
Calcium - Total Recoverable	53.7	mg/L	1	1
Calcium - Total Recoverable	50.5	mg/L	1	1
Calcium - Total Recoverable	52.0	mg/L	1	1

Calcium - Total Recoverable	52.0	mg/L	1	1
Calcium - Total Recoverable	51.8	mg/L	1	1
Calcium - Total Recoverable	52.4	mg/L	1	1
Calcium - Total Recoverable	52.3	mg/L	1	1
Calcium - Total Recoverable	53.4	mg/L	1	1
Calcium - Total Recoverable	52.5	mg/L	1	1
Calcium - Total Recoverable	52.6	mg/L	1	1
Calcium - Total Recoverable	54.1	mg/L	1	1
Calcium - Total Recoverable	54.7	mg/L	1	1
Calcium - Total Recoverable	55.4	mg/L	1	1
Calcium - Total Recoverable	53.7	mg/L	1	1
Calcium - Total Recoverable	52.6	mg/L	1	1
Calcium - Total Recoverable	51.5	mg/L	1	1
Calcium - Total Recoverable	55.3	mg/L	1	1
Calcium - Total Recoverable	53.9	mg/L	1	1
Calcium - Total Recoverable	53.2	mg/L	1	1
Calcium - Total Recoverable	52.4	mg/L	1	1
Calcium - Total Recoverable	51.5	mg/L	1	1
Calcium Hardness	128	mg/L	1	1
Calcium Hardness	129	mg/L	1	1
Calcium Hardness	132	mg/L	1	1
Calcium Hardness	128	mg/L	1	1
Calcium Hardness	130	mg/L	1	1
Calcium Hardness	129	mg/L	1	1
Calcium Hardness	133	mg/L	1	1
Calcium Hardness	129	mg/L	1	1
Calcium Hardness	136	mg/L	1	1
Calcium Hardness	139	mg/L	1	1
Calcium Hardness	134	mg/L	1	1
Calcium Hardness	126	mg/L	1	1
Calcium Hardness	130	mg/L	1	1
Calcium Hardness	130	mg/L	1	1
Calcium Hardness	129	mg/L	1	1
Calcium Hardness	131	mg/L	1	1
Calcium Hardness	131	mg/L	1	1
Calcium Hardness	133	mg/L	1	1
Calcium Hardness	131	mg/L	1	1
Calcium Hardness	131	mg/L	1	1
Calcium Hardness	135	mg/L	1	1
Calcium Hardness	137	mg/L	1	1
Calcium Hardness	138	mg/L	1	1
Calcium Hardness	134	mg/L	1	1
Calcium Hardness	131	mg/L	1	1
Calcium Hardness	129	mg/L	1	1
Calcium Hardness	138	mg/L	1	1
Calcium Hardness	135	mg/L	1	1
Calcium Hardness	133	mg/L	1	1
Calcium Hardness	131	mg/L	1	1
Calcium Hardness	129	mg/L	1	1
Carbon Tetrachloride	<0.24	ug/L	1	1
Carbon Tetrachloride	<0.31	ug/L	1	1
Chlorobenzene	<0.18	ug/L	1	1

Chlorobenzene	<0.50	ug/L	1	1
Chloroethane	<0.40	ug/L	1	1
Chloroform	<0.19	ug/L	1	1
Chloroform	<0.49	ug/L	1	1
Chloromethane	<0.46	ug/L	1	1
Chromium - Total Recoverable	<0.0012	mg/L	1	1
Chronic Ceriodaphnia	1	T.U.c	1	1
Chronic Ceriodaphnia	1	T.U.c	1	1
Chronic Ceriodaphnia	1.0	T.U.c	1	1
Chrysene	<0.46	ug/L	1	1
cis-1,2-Dichloroethene	<0.17	ug/L	1	1
cis-1,3-Dichloropropene	<0.16	ug/L	1	1
cis-1,3-Dichloropropene	<0.51	ug/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Cyanide	<0.005	mg/L	1	1
Dalapon	<1	ug/L	1	1
Dibenzo(a,h)anthracene	<0.47	ug/L	1	1
Dibromochloromethane	<0.16	ug/L	1	1
Dibromochloromethane	<0.61	ug/L	1	1
Dicamba	<0.1	ug/L	1	1
Dichlorodifluoromethane	<0.42	ug/L	1	1
Dichlorprop	<0.5	ug/L	1	1

Diethyl phthalate	<0.36	ug/L	1	1
Dimethyl phthalate	<0.47	ug/L	1	1
Di-n-butyl phthalate	<0.31	ug/L	1	1
Di-n-octyl phthalate	<1.28	ug/L	1	1
Dinoseb	<0.2	ug/L	1	1
E. coli	<1	MPN/100mL	1	1
E. coli	<1	MPN/100mL	1	1
E. coli	<1	MPN/100mL	1	1
Endrin	<0.15	ug/L	10	1
Ethylbenzene	<0.20	ug/L	1	1
Ethylbenzene	<0.46	ug/L	1	1
Fluoranthene	<0.27	ug/L	1	1
Fluorene	<0.29	ug/L	1	1
Fluoride	0.3	mg/L	1	1
gamma-BHC	<0.05	ug/L	10	1
gamma-Chlordane	<0.05	ug/L	10	1
Hardness - Total	208	mg/L	1	1
Hardness - Total	209	mg/L	1	1
Hardness - Total	214	mg/L	1	1
Hardness - Total	207	mg/L	1	1
Hardness - Total	212	mg/L	1	1
Hardness - Total	208	mg/L	1	1
Hardness - Total	216	mg/L	1	1
Hardness - Total	211	mg/L	1	1
Hardness - Total	227	mg/L	1	1
Hardness - Total	227	mg/L	1	1
Hardness - Total	226	mg/L	1	1
Hardness - Total	211	mg/L	1	1
Hardness - Total	218	mg/L	1	1
Hardness - Total	218	mg/L	1	1
Hardness - Total	217	mg/L	1	1
Hardness - Total	220	mg/L	1	1
Hardness - Total	220	mg/L	1	1
Hardness - Total	225	mg/L	1	1
Hardness - Total	221	mg/L	1	1
Hardness - Total	221	mg/L	1	1
Hardness - Total	226	mg/L	1	1
Hardness - Total	230	mg/L	1	1
Hardness - Total	232	mg/L	1	1
Hardness - Total	225	mg/L	1	1
Hardness - Total	221	mg/L	1	1
Hardness - Total	218	mg/L	1	1
Hardness - Total	232	mg/L	1	1
Hardness - Total	226	mg/L	1	1
Hardness - Total	223	mg/L	1	1
Hardness - Total	221	mg/L	1	1
Hardness - Total	218	mg/L	1	1
Heptachlor	<0.06	ug/L	10	1
Heptachlor Epoxide	<0.14	ug/L	10	1
Hexachlorobenzene	<0.04	ug/L	10	1
Hexachlorobenzene	<0.34	ug/L	1	1
Hexachlorobutadiene	<0.29	ug/L	1	1

Hexachlorobutadiene	<1.67	ug/L	1	1
Hexachlorocyclopentadiene	<0.15	ug/L	10	1
Hexachlorocyclopentadiene	<1.53	ug/L	1	1
Hexachloroethane	<1.23	ug/L	1	1
Hexane Extractable Material	<5.7	mg/L	1	1
Hexane Extractable Material	<5.4	mg/L	1	1
Hexane Extractable Material	<5.5	mg/L	1	1
Hexane Extractable Material	<4.5	mg/L	1	1
Hexane Extractable Material	<4.2	mg/L	1	1
Hexane Extractable Material	<4.4	mg/L	1	1
Hexane Extractable Material	<4.2	mg/L	1	1
Hexane Extractable Material	<4.1	mg/L	1	1
Hexane Extractable Material	<5.4	mg/L	1	1
Hexane Extractable Material	<4.0	mg/L	1	1
Hexane Extractable Material	<5.8	mg/L	1	1
Hexavalent Chromium - Dissolved	<0.0050	mg/L	1	1
Indeno(1,2,3-cd)pyrene	<0.62	ug/L	1	1
Iron - Total Recoverable	0.024	mg/L	1	1
Iron - Total Recoverable	<0.003	mg/L	1	1
Iron - Total Recoverable	<0.003	mg/L	1	1
Iron - Total Recoverable	0.031	mg/L	1	1
Iron - Total Recoverable	0.075	mg/L	1	1
Iron - Total Recoverable	0.007	mg/L	1	1
Iron - Total Recoverable	<0.005	mg/L	1	1
Iron - Total Recoverable	0.043	mg/L	1	1
Iron - Total Recoverable	0.060	mg/L	1	1
Iron - Total Recoverable	0.017	mg/L	1	1
Iron - Total Recoverable	0.019	mg/L	1	1
Isophorone	<0.37	ug/L	1	1
Isopropylbenzene	<0.22	ug/L	1	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	0.00086	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	0.0011	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1

Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
m- & p-Xylene	<0.38	ug/L	1	1
Magnesium - Total Recoverable	19.6	mg/L	1	1
Magnesium - Total Recoverable	19.5	mg/L	1	1
Magnesium - Total Recoverable	19.9	mg/L	1	1
Magnesium - Total Recoverable	19.4	mg/L	1	1
Magnesium - Total Recoverable	20.0	mg/L	1	1
Magnesium - Total Recoverable	19.4	mg/L	1	1
Magnesium - Total Recoverable	20.2	mg/L	1	1
Magnesium - Total Recoverable	19.8	mg/L	1	1
Magnesium - Total Recoverable	22.1	mg/L	1	1
Magnesium - Total Recoverable	21.3	mg/L	1	1
Magnesium - Total Recoverable	22.2	mg/L	1	1
Magnesium - Total Recoverable	20.7	mg/L	1	1
Magnesium - Total Recoverable	21.3	mg/L	1	1
Magnesium - Total Recoverable	21.5	mg/L	1	1
Magnesium - Total Recoverable	21.3	mg/L	1	1
Magnesium - Total Recoverable	21.7	mg/L	1	1
Magnesium - Total Recoverable	21.6	mg/L	1	1
Magnesium - Total Recoverable	22.2	mg/L	1	1
Magnesium - Total Recoverable	21.8	mg/L	1	1
Magnesium - Total Recoverable	21.7	mg/L	1	1
Magnesium - Total Recoverable	22.1	mg/L	1	1
Magnesium - Total Recoverable	22.7	mg/L	1	1
Magnesium - Total Recoverable	22.8	mg/L	1	1
Magnesium - Total Recoverable	22.0	mg/L	1	1
Magnesium - Total Recoverable	21.8	mg/L	1	1
Magnesium - Total Recoverable	21.7	mg/L	1	1
Magnesium - Total Recoverable	22.7	mg/L	1	1
Magnesium - Total Recoverable	22.1	mg/L	1	1
Magnesium - Total Recoverable	21.9	mg/L	1	1
Magnesium - Total Recoverable	22.0	mg/L	1	1
Magnesium - Total Recoverable	21.8	mg/L	1	1
Manganese - Total Recoverable	0.0040	mg/L	1	1
Mercury - Total	<0.000068	mg/L	2	1
Methoxychlor	<0.15	ug/L	10	1
Methyl Tert-Butyl Ether	<0.20	ug/L	1	1
Methyl Tert-Butyl Ether	<0.47	ug/L	1	1
Methylene chloride	<0.23	ug/L	1	1
Methylene chloride	<0.81	ug/L	1	1
Naphthalene	<0.32	ug/L	1	1
Naphthalene	<0.36	ug/L	1	1
n-Butylbenzene	<0.26	ug/L	1	1
Nickel - Total Recoverable	<0.001	mg/L	1	1

Nitrate-N	1.2	mg/L	1	1
Nitrite-N	<0.1	mg/L	1	1
Nitrobenzene	<1.26	ug/L	1	1
N-Nitrosodimethylamine	<1.13	ug/L	1	1
N-Nitrosodi-n-propylamine	<1.17	ug/L	1	1
N-Nitrosodiphenylamine	<1.15	ug/L	1	1
o-Xylene	<0.18	ug/L	1	1
P. promelas Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1
P. promelas Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1
P. promelas Chronic Toxicity (100/Chronic NOEC)	1.0	T.U.c	1	1
Pentachlorophenol	<0.04	ug/L	1	1
Pentachlorophenol	<1.47	ug/L	1	1
pH Field Read	7.5	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.2	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.6	SU	1	1
pH Field Read	7.5	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.51	SU	1	1
pH Field Read	6.9	SU	1	1
pH Field Read	7.6	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.2	SU	1	1
pH Field Read	6.9	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.2	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.2	SU	1	1
pH Field Read	7.2	SU	1	1
pH Field Read	7.2	SU	1	1
pH Field Read	7.0	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.2	SU	1	1
pH Field Read	7.4	SU	1	1
Phenanthrene	<0.31	ug/L	1	1
Phenol	<2.30	ug/L	1	1
Phosphorus - Total	<0.10	mg/L	1	1
Picloram	<0.1	ug/L	1	1
p-Isopropyltoluene	<0.22	ug/L	1	1
Propylbenzene	<0.24	ug/L	1	1
Pyrene	<0.67	ug/L	1	1
S. capricornutum Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1
S. capricornutum Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1

S. capricornutum Chronic Toxicity (100/Chronic NOEC)	1.0	T.U.c	1	1
sec-Butylbenzene	<0.25	ug/L	1	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	0.00027	mg/L	5	1
Selenium - Total Recoverable	0.00025	mg/L	5	1
Selenium - Total Recoverable	0.00041	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	0.00042	mg/L	5	1
Selenium - Total Recoverable	0.00040	mg/L	5	1
Selenium - Total Recoverable	0.00030	mg/L	5	1
Selenium - Total Recoverable	0.00044	mg/L	5	1
Selenium - Total Recoverable	0.00028	mg/L	5	1
Selenium - Total Recoverable	0.00046	mg/L	5	1
Selenium - Total Recoverable	0.00039	mg/L	5	1
Selenium - Total Recoverable	0.00026	mg/L	5	1
Silver - Total Recoverable	<0.0003	mg/L	1	1
Simazine	<0.07	ug/L	10	1
Styrene	<0.15	ug/L	1	1
Suspended Solids	<1.0	mg/L	1	1
Temp Field Read	22.6	Deg. C	1	1
Temp Field Read	25.0	Deg. C	1	1
tert-Butylbenzene	<0.22	ug/L	1	1
Tetrachloroethylene	<0.27	ug/L	1	1
Tetrachloroethylene	<0.35	ug/L	1	1
Thallium - Total Recoverable	<0.00015	mg/L	5	1
Toluene	<0.19	ug/L	1	1
Toluene	<0.43	ug/L	1	1
Total Coliform	<1	MPN/100mL	1	1
Total Coliform	<1	MPN/100mL	1	1
Total Coliform	<1	MPN/100mL	1	1
Total DCPA Mono & Diacid Degradate	<0.1	ug/L	1	1
Total Dissolved Solids	606	mg/L	1	1
Total Kjeldahl Nitrogen	<0.6	mg/L	1	1
Total THM	<0.19	ug/L	1	1

trans-1,2-Dichloroethene	<0.23	ug/L	1	1
trans-1,2-Dichloroethene	<0.38	ug/L	1	1
trans-1,3-Dichloropropene	<0.13	ug/L	1	1
trans-1,3-Dichloropropene	<0.50	ug/L	1	1
Trans-Nonachlor	<0.05	ug/L	10	1
Trichloroethene	<0.48	ug/L	1	1
Trichloroethylene	<0.22	ug/L	1	1
Trichlorofluoromethane	<0.34	ug/L	1	1
Vinyl Chloride	<0.32	ug/L	1	1
Vinyl Chloride	<0.35	ug/L	1	1
Xylene - Total	<0.18	ug/L	1	1
Zinc - Total Recoverable	<0.002	mg/L	1	1

21030.RSPW2 = Well 2

RL	Qualifier
0.27	E8
0.34	E8
0.80	E8
0.15	E8
0.60	E8
0.42	E8
0.32	E8
0.34	E8
0.29	E8
0.29	E8
1.04	E8
0.20	E8
0.22	E8
0.16	E8
0.22	E8
0.64	E8
1.04	T2;E8
0.18	E8
0.51	E8
0.19	E8
0.49	E8
1.06	T2;E8
0.20	E8
0.60	E8
0.47	T2;E8
0.24	E8
0.59	E8
1.28	T2;E8
0.2	
0.2	
2.60	E8
0.1	
2	
2.81	E8
2.64	E8
2.21	E8
0.26	E8
0.38	E8
0.43	E8
0.43	E8
3.10	E8
1.49	E8
2.84	E8
11.60	E8
0.5	
0.05	E8;D1
0.05	E8;D1
0.11	E8;D1
0.38	E8
1.87	E8
4.19	E8

2.98	E8
0.35	E8
1.23	E8
0.2	
0.41	N1;E8
0.42	N1;E8
0.05	E8;D1
0.13	E8;D1
0.44	E8
0.00015	D1;E8
0.00045	D1
0.04	D1;E4
0.0002	
0.5	
0.17	E8
0.46	E8
26.95	T2;E8;N1
0.38	E8
0.07	E8;D1
1.41	E8
1.06	E8
0.72	E8
0.35	E8
1.02	E8
0.0001	E8
1.15	E8
1.12	E8
1.10	E8
2.87	E8;D1
2.50	E8;D1
1.11	E8
0.006	
0.20	E8
0.16	E8
0.49	E8
0.19	E8
0.68	E8
0.46	E8
0.00015	D1;E8
0.016	
0.016	
0.016	B7
0.016	B7
0.016	
0.016	
0.016	
0.016	
0.016	
0.016	
0.016	
0.020	B7
0.020	

0.020	
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0.020	
0.010	B7
0.010	
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0.010	
0.010	B7
0.010	
12.5	
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12.5	
0.24	E8
0.31	E8
0.18	E8

0.50	E8
0.40	E8
0.19	E8
0.49	E8
0.46	E8
0.0012	E8
1	
1	
1	
0.46	E8
0.17	E8
0.16	E8
0.51	E8
0.001	E8
0.001	E8
0.001	E8;B1
0.001	E4;B1
0.001	E8
0.001	E8
0.001	E8
0.001	E8
0.001	E8
0.001	E8
0.001	E8
0.005	E8
0.005	E8
0.005	E8
0.005	E8
0.005	E8
0.005	E8
0.005	E8
0.005	E8
0.005	E8
0.003	E8
0.003	E8
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0.003	E8
0.003	E8
0.005	
1	
0.47	E8
0.16	E8
0.61	E8
0.1	
0.42	E8
0.5	

0.36	E8
0.47	E8
0.31	E8
1.28	E8
0.2	
1	N1
1	
1	
0.15	E8;D1
0.20	E8
0.46	E8
0.27	E8
0.29	E8
0.1	
0.05	E8;D1
0.05	E8;D1
16.6	
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16.6	
0.06	E8;D1
0.14	E8;D1
0.04	E8;D1
0.34	E8
0.29	E8

1.67	E8
0.15	E8;D1
1.53	T2;E8
1.23	E8
5.7	
5.4	
5.5	
4.5	
4.2	
4.4	
4.2	
4.1	
5.4	
4.0	
5.8	
0.0050	
0.62	E8
0.003	E4
0.003	E8
0.003	E8
0.003	E4
0.005	E4
0.005	E4
0.005	E8
0.006	E4
0.006	E4
0.006	E4
0.006	E4
0.37	E8
0.22	E8
0.00080	D1;E8
0.00080	D1;E8
0.00080	D1;E8
0.00080	D1;E8
0.00080	D1;E4
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E4
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8

0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.38	E8
0.014	
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0.028	
0.0003	E4
0.000068	D1;E8
0.15	E8;D1
0.20	E8
0.47	T2;E8
0.23	E8
0.81	E8
0.32	E8
0.36	E8
0.26	E8
0.001	E8

0.1	
0.1	
1.26	E8
1.13	T2;E8
1.17	E8
1.15	T2;E8
0.18	E8
1	
1	
1	
0.04	
1.47	E8;N1

0.31	E8
2.30	E8
0.10	
0.1	
0.22	E8
0.24	E8
0.67	E8
1	
1	

1	
0.25	E8
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
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0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00020	D1;E4
0.00020	D1;E4
0.00020	D1;E4
0.00020	D1;E8
0.00020	D1;E4
0.00020	D1;E4
0.00020	D1;E4
0.00020	D1;E4;B1
0.00020	D1;E4
0.00020	D1;E4
0.00020	D1;E4
0.00020	D1;E4
0.0003	E8
0.07	E8;D1
0.15	E8
1.0	

0.22	E8
0.27	E8
0.35	E8
0.00015	D1;E8
0.19	E8
0.43	E8
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0.1	
10	
0.6	
0.19	E8

0.23	E8
0.38	E8
0.13	E8
0.50	E8
0.05	E8;D1
0.48	E8
0.22	E8
0.34	E8
0.32	E8
0.35	E8
0.18	E8
0.002	E8

LIMS	Sample Date/Time	Sample ID	Method
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2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
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2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
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2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022364	5/4/2016 11:11	21030.RSPW4	EPA 515.4
2016022364	5/4/2016 11:11	21030.RSPW4	EPA 515.4
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022364	5/4/2016 11:11	21030.RSPW4	EPA 515.4
2016022364	5/4/2016 11:11	21030.RSPW4	EPA 515.4
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2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
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2016022367	5/4/2016 11:11	21030.RSPW4	EPA 624 ¤
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2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
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2016022366	5/4/2016 11:11	21030.RSPW4	EPA 525.2 ¤
2016022366	5/4/2016 11:11	21030.RSPW4	EPA 525.2 ¤
2016022366	5/4/2016 11:11	21030.RSPW4	EPA 525.2 ¤
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
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2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625

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2016022367	5/4/2016 11:11	21030.RSPW4	EPA 624 ¤
2016022366	5/4/2016 11:11	21030.RSPW4	EPA 525.2 ¤
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2016022366	5/4/2016 11:11	21030.RSPW4	EPA 525.2 ¤
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2016022366	5/4/2016 11:11	21030.RSPW4	EPA 525.2 ¤
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2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
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2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
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2016022374	5/4/2016 11:11	21030.RSPW4	EPA 200.7
2016035523	6/2/2016 7:50	21030.RSPW4	EPA 200.7
2016042613	7/8/2016 9:54	21030.RSPW4	EPA 200.7
2016053236	8/19/2016 8:03	21030.RSPW4	EPA 200.7
2016059888	9/8/2016 8:33	21030.RSPW4	EPA 200.7
2016066220	10/6/2016 9:00	21030.RSPW4	EPA 200.7
2016072149	11/3/2016 8:50	21030.RSPW4	EPA 200.7
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2017002661	1/12/2017 8:22	21030.RSPW4	EPA 200.7
2017010118	2/9/2017 7:15	21030.RSPW4	EPA 200.7
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2017035553	5/4/2017 8:43	21030.RSPW4	EPA 200.7
2017044869	6/15/2017 9:04	21030.RSPW4	EPA 200.7
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2018022179	4/4/2018 8:51	21030.RSPW4	EPA 200.7
2018029250	5/1/2018 8:35	21030.RSPW4	EPA 200.7
2018037734	6/8/2018 8:09	21030.RSPW4	EPA 200.7
2018044620	7/3/2018 8:21	21030.RSPW4	EPA 200.7
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2016007063	2/4/2016 9:25	21030.RSPW4	SM20 2340 B
2016012773	3/3/2016 9:37	21030.RSPW4	SM20 2340 B
2016023143	4/15/2016 9:40	21030.RSPW4	SM20 2340 B
2016022374	5/4/2016 11:11	21030.RSPW4	SM20 2340 B
2016035523	6/2/2016 7:50	21030.RSPW4	SM20 2340 B
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2016053236	8/19/2016 8:03	21030.RSPW4	SM20 2340 B
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2016066220	10/6/2016 9:00	21030.RSPW4	SM22 2340 B
2016072149	11/3/2016 8:50	21030.RSPW4	SM22 2340 B
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2017010118	2/9/2017 7:15	21030.RSPW4	SM22 2340 B
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2017050050	7/6/2017 8:06	21030.RSPW4	SM22 2340 B
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2017079541	10/13/2017 8:21	21030.RSPW4	SM22 2340 B
2017083315	11/3/2017 9:03	21030.RSPW4	SM22 2340 B
2017093064	12/8/2017 9:32	21030.RSPW4	SM22 2340 B
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2016007063	2/4/2016 9:25	21030.RSPW4	EPA 200.7
2016012773	3/3/2016 9:37	21030.RSPW4	EPA 200.7
2016023143	4/15/2016 9:40	21030.RSPW4	EPA 200.7
2016022374	5/4/2016 11:11	21030.RSPW4	EPA 200.7
2016035523	6/2/2016 7:50	21030.RSPW4	EPA 200.7
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2016081478	12/9/2016 10:02	21030.RSPW4	EPA 200.7
2017002661	1/12/2017 8:22	21030.RSPW4	EPA 200.7
2017010118	2/9/2017 7:15	21030.RSPW4	EPA 200.7
2017016277	3/9/2017 8:22	21030.RSPW4	EPA 200.7
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2017079541	10/13/2017 8:21	21030.RSPW4	EPA 200.7
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2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
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2016053236	8/19/2016 8:03	21030.RSPW4	SM20 2340 B
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2017044869	6/15/2017 9:04	21030.RSPW4	SM22 2340 B
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2017070308	9/7/2017 8:50	21030.RSPW4	SM22 2340 B
2017079541	10/13/2017 8:21	21030.RSPW4	SM22 2340 B
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2018016057	3/8/2018 8:30	21030.RSPW4	SM22 2340 B
2018022179	4/4/2018 8:51	21030.RSPW4	SM22 2340 B
2018029250	5/1/2018 8:35	21030.RSPW4	SM22 2340 B
2018037734	6/8/2018 8:09	21030.RSPW4	SM22 2340 B
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2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
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2018044619	7/3/2018 8:21	21030.RSPW4	EPA 1664B

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2016066220	10/6/2016 9:00	21030.RSPW4	EPA 200.7
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2018044620	7/3/2018 8:21	21030.RSPW4	EPA 200.7
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016002295	1/14/2016 9:15	21030.RSPW4	EPA 200.8
2016007063	2/4/2016 9:25	21030.RSPW4	EPA 200.8
2016012773	3/3/2016 9:37	21030.RSPW4	EPA 200.8
2016023143	4/15/2016 9:40	21030.RSPW4	EPA 200.8
2016022374	5/4/2016 11:11	21030.RSPW4	EPA 200.8
2016035523	6/2/2016 7:50	21030.RSPW4	EPA 200.8
2016042613	7/8/2016 9:54	21030.RSPW4	EPA 200.8
2016053236	8/19/2016 8:03	21030.RSPW4	EPA 200.8
2016059888	9/8/2016 8:33	21030.RSPW4	EPA 200.8
2016066220	10/6/2016 9:00	21030.RSPW4	EPA 200.8
2016072149	11/3/2016 8:50	21030.RSPW4	EPA 200.8
2016081478	12/9/2016 10:02	21030.RSPW4	EPA 200.8
2017002661	1/12/2017 8:22	21030.RSPW4	EPA 200.8
2017010118	2/9/2017 7:15	21030.RSPW4	EPA 200.8
2017016277	3/9/2017 8:22	21030.RSPW4	EPA 200.8
2017024660	4/5/2017 8:25	21030.RSPW4	EPA 200.8
2017035553	5/4/2017 8:43	21030.RSPW4	EPA 200.8
2017044869	6/15/2017 9:04	21030.RSPW4	EPA 200.8
2017050050	7/6/2017 8:06	21030.RSPW4	EPA 200.8
2017061365	8/11/2017 8:53	21030.RSPW4	EPA 200.8
2017070308	9/7/2017 8:50	21030.RSPW4	EPA 200.8
2017079541	10/13/2017 8:21	21030.RSPW4	EPA 200.8
2017083315	11/3/2017 9:03	21030.RSPW4	EPA 200.8
2017093064	12/8/2017 9:32	21030.RSPW4	EPA 200.8
2018000598	1/5/2018 8:37	21030.RSPW4	EPA 200.8
2018007048	2/9/2018 8:30	21030.RSPW4	EPA 200.8
2018016057	3/8/2018 8:30	21030.RSPW4	EPA 200.8
2018022179	4/4/2018 8:51	21030.RSPW4	EPA 200.8
2018029250	5/1/2018 8:35	21030.RSPW4	EPA 200.8
2018037734	6/8/2018 8:09	21030.RSPW4	EPA 200.8
2018044620	7/3/2018 8:21	21030.RSPW4	EPA 200.8
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016002295	1/14/2016 9:15	21030.RSPW4	EPA 200.7
2016007063	2/4/2016 9:25	21030.RSPW4	EPA 200.7
2016012773	3/3/2016 9:37	21030.RSPW4	EPA 200.7
2016023143	4/15/2016 9:40	21030.RSPW4	EPA 200.7
2016022374	5/4/2016 11:11	21030.RSPW4	EPA 200.7
2016035523	6/2/2016 7:50	21030.RSPW4	EPA 200.7
2016042613	7/8/2016 9:54	21030.RSPW4	EPA 200.7
2016053236	8/19/2016 8:03	21030.RSPW4	EPA 200.7

2016059888	9/8/2016 8:33	21030.RSPW4	EPA 200.7
2016066220	10/6/2016 9:00	21030.RSPW4	EPA 200.7
2016072149	11/3/2016 8:50	21030.RSPW4	EPA 200.7
2016081478	12/9/2016 10:02	21030.RSPW4	EPA 200.7
2017002661	1/12/2017 8:22	21030.RSPW4	EPA 200.7
2017010118	2/9/2017 7:15	21030.RSPW4	EPA 200.7
2017016277	3/9/2017 8:22	21030.RSPW4	EPA 200.7
2017024660	4/5/2017 8:25	21030.RSPW4	EPA 200.7
2017035553	5/4/2017 8:43	21030.RSPW4	EPA 200.7
2017044869	6/15/2017 9:04	21030.RSPW4	EPA 200.7
2017050050	7/6/2017 8:06	21030.RSPW4	EPA 200.7
2017061365	8/11/2017 8:53	21030.RSPW4	EPA 200.7
2017070308	9/7/2017 8:50	21030.RSPW4	EPA 200.7
2017079541	10/13/2017 8:21	21030.RSPW4	EPA 200.7
2017083315	11/3/2017 9:03	21030.RSPW4	EPA 200.7
2017093064	12/8/2017 9:32	21030.RSPW4	EPA 200.7
2018000598	1/5/2018 8:37	21030.RSPW4	EPA 200.7
2018007048	2/9/2018 8:30	21030.RSPW4	EPA 200.7
2018016057	3/8/2018 8:30	21030.RSPW4	EPA 200.7
2018022179	4/4/2018 8:51	21030.RSPW4	EPA 200.7
2018029250	5/1/2018 8:35	21030.RSPW4	EPA 200.7
2018037734	6/8/2018 8:09	21030.RSPW4	EPA 200.7
2018044620	7/3/2018 8:21	21030.RSPW4	EPA 200.7
2016022374	5/4/2016 11:11	21030.RSPW4	EPA 200.7
2016022374	5/4/2016 11:11	21030.RSPW4	EPA 245.1
2016022366	5/4/2016 11:11	21030.RSPW4	EPA 525.2 ¤
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022374	5/4/2016 11:11	21030.RSPW4	EPA 200.7
2016022370	5/4/2016 11:11	21030.RSPW4	EPA 300.0
2016022370	5/4/2016 11:11	21030.RSPW4	EPA 300.0
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016026659	5/2/2016 9:36	21030.RSPW4	EPA 1000.0
2017025952	4/3/2017 8:46	21030.RSPW4	EPA 1000.0
2018021541	4/2/2018 8:32	21030.RSPW4	EPA 1000.0
2016022364	5/4/2016 11:11	21030.RSPW4	EPA 515.4
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016002296	1/14/2016 9:15	21030.RSPW4	PH § ¤
2016007064	2/4/2016 9:25	21030.RSPW4	PH § ¤
2016012774	3/3/2016 9:37	21030.RSPW4	PH § ¤
2016023144	4/15/2016 9:40	21030.RSPW4	PH § ¤
2016022379	5/4/2016 11:11	21030.RSPW4	PH § ¤
2016035524	6/2/2016 7:50	21030.RSPW4	PH § ¤
2016042614	7/8/2016 9:54	21030.RSPW4	PH § ¤
2016053237	8/19/2016 8:03	21030.RSPW4	PH § ¤
2016059889	9/8/2016 8:33	21030.RSPW4	PH § ¤

2016066221	10/6/2016 8:59	21030.RSPW4	PH § ¤
2016072150	11/3/2016 8:50	21030.RSPW4	PH § ¤
2016081479	12/9/2016 10:02	21030.RSPW4	PH § ¤
2017002662	1/12/2017 8:22	21030.RSPW4	PH § ¤
2017010119	2/9/2017 7:15	21030.RSPW4	PH § ¤
2017016278	3/9/2017 8:22	21030.RSPW4	PH § ¤
2017024661	4/5/2017 8:25	21030.RSPW4	PH § ¤
2017035554	5/4/2017 8:43	21030.RSPW4	PH § ¤
2017044870	6/15/2017 9:04	21030.RSPW4	PH § ¤
2017050051	7/6/2017 8:06	21030.RSPW4	PH § ¤
2017061366	8/11/2017 8:53	21030.RSPW4	PH § ¤
2017070309	9/7/2017 8:50	21030.RSPW4	PH § ¤
2017079542	10/13/2017 8:21	21030.RSPW4	PH § ¤
2017083316	11/3/2017 9:03	21030.RSPW4	PH § ¤
2017093065	12/8/2017 9:31	21030.RSPW4	PH § ¤
2018000599	1/5/2018 8:37	21030.RSPW4	PH § ¤
2018007049	2/9/2018 8:30	21030.RSPW4	PH § ¤
2018016058	3/8/2018 8:30	21030.RSPW4	PH § ¤
2018022180	4/4/2018 8:51	21030.RSPW4	PH § ¤
2018029251	5/1/2018 8:35	21030.RSPW4	PH § ¤
2018037735	6/8/2018 8:09	21030.RSPW4	PH § ¤
2018044621	7/3/2018 8:21	21030.RSPW4	PH § ¤
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016022373	5/4/2016 11:11	21030.RSPW4	SM 4500 P E
2016022364	5/4/2016 11:11	21030.RSPW4	EPA 515.4
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022369	5/4/2016 11:11	21030.RSPW4	EPA 625
2016026659	5/2/2016 9:36	21030.RSPW4	EPA 1003.0
2017025952	4/3/2017 8:46	21030.RSPW4	EPA 1003.0
2018021541	4/2/2018 8:32	21030.RSPW4	EPA 1003.0
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016002295	1/14/2016 9:15	21030.RSPW4	EPA 200.8
2016007063	2/4/2016 9:25	21030.RSPW4	EPA 200.8
2016012773	3/3/2016 9:37	21030.RSPW4	EPA 200.8
2016023143	4/15/2016 9:40	21030.RSPW4	EPA 200.8
2016022374	5/4/2016 11:11	21030.RSPW4	EPA 200.8
2016035523	6/2/2016 7:50	21030.RSPW4	EPA 200.8
2016042613	7/8/2016 9:54	21030.RSPW4	EPA 200.8
2016053236	8/19/2016 8:03	21030.RSPW4	EPA 200.8
2016059888	9/8/2016 8:33	21030.RSPW4	EPA 200.8
2016066220	10/6/2016 9:00	21030.RSPW4	EPA 200.8
2016072149	11/3/2016 8:50	21030.RSPW4	EPA 200.8
2016081478	12/9/2016 10:02	21030.RSPW4	EPA 200.8
2017002661	1/12/2017 8:22	21030.RSPW4	EPA 200.8
2017010118	2/9/2017 7:15	21030.RSPW4	EPA 200.8
2017016277	3/9/2017 8:22	21030.RSPW4	EPA 200.8
2017024660	4/5/2017 8:25	21030.RSPW4	EPA 200.8
2017035553	5/4/2017 8:43	21030.RSPW4	EPA 200.8
2017044869	6/15/2017 9:04	21030.RSPW4	EPA 200.8
2017050050	7/6/2017 8:06	21030.RSPW4	EPA 200.8
2017061365	8/11/2017 8:53	21030.RSPW4	EPA 200.8
2017070308	9/7/2017 8:50	21030.RSPW4	EPA 200.8
2017079541	10/13/2017 8:21	21030.RSPW4	EPA 200.8

2017083315	11/3/2017 9:03	21030.RSPW4	EPA 200.8
2017093064	12/8/2017 9:32	21030.RSPW4	EPA 200.8
2018000598	1/5/2018 8:37	21030.RSPW4	EPA 200.8
2018007048	2/9/2018 8:30	21030.RSPW4	EPA 200.8
2018016057	3/8/2018 8:30	21030.RSPW4	EPA 200.8
2018022179	4/4/2018 8:51	21030.RSPW4	EPA 200.8
2018029250	5/1/2018 8:35	21030.RSPW4	EPA 200.8
2018037734	6/8/2018 8:09	21030.RSPW4	EPA 200.8
2018044620	7/3/2018 8:21	21030.RSPW4	EPA 200.8
2016022374	5/4/2016 11:11	21030.RSPW4	EPA 200.7
2016022366	5/4/2016 11:11	21030.RSPW4	EPA 525.2 ¤
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022375	5/4/2016 11:11	21030.RSPW4	SM20 2540 D
2016012775	3/3/2016 9:37	21030.RSPW4	Temp § ¤
2016022377	5/4/2016 11:11	21030.RSPW4	Temp § ¤
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022374	5/4/2016 11:11	21030.RSPW4	EPA 200.8
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022378	5/4/2016 11:11	21030.RSPW4	SM20 9223 B
2017024659	4/5/2017 8:25	21030.RSPW4	SM22 9223 B
2018022178	4/4/2018 8:51	21030.RSPW4	SM22 9223 B
2016022364	5/4/2016 11:11	21030.RSPW4	EPA 515.4
2016022375	5/4/2016 11:11	21030.RSPW4	SM20 2540 C
2016022376	5/4/2016 11:11	21030.RSPW4	ASTM D3590 A,B ¤
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022366	5/4/2016 11:11	21030.RSPW4	EPA 525.2 ¤
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022368	5/4/2016 11:11	21030.RSPW4	EPA 624
2016022365	5/4/2016 11:11	21030.RSPW4	EPA 524.2
2016022374	5/4/2016 11:11	21030.RSPW4	EPA 200.7

Parameter	Results	Units	Dilution	Data Set
1,1,1-Trichloroethane	<0.27	ug/L	1	1
1,1,1-Trichloroethane	<0.34	ug/L	1	1
1,1,2,2-Tetrachloroethane	<0.80	ug/L	1	1
1,1,2-Trichloroethane	<0.15	ug/L	1	1
1,1,2-Trichloroethane	<0.60	ug/L	1	1
1,1-Dichloroethane	<0.42	ug/L	1	1
1,1-Dichloroethylene	<0.32	ug/L	1	1
1,1-Dichloroethylene	<0.34	ug/L	1	1
1,2,3-Trichlorobenzene	<0.29	ug/L	1	1
1,2,4-Trichlorobenzene	<0.29	ug/L	1	1
1,2,4-Trichlorobenzene	<1.04	ug/L	1	1
1,2,4-Trimethylbenzene	<0.20	ug/L	1	1
1,2-Dibromo-3-chloropropane (DBCP)	<0.22	ug/L	1	1
1,2-Dibromoethane (EDB)	<0.16	ug/L	1	1
1,2-Dichlorobenzene	<0.22	ug/L	1	1
1,2-Dichlorobenzene	<0.64	ug/L	1	1
1,2-Dichlorobenzene	<1.04	ug/L	1	1
1,2-Dichloroethane	<0.18	ug/L	1	1
1,2-Dichloroethane	<0.51	ug/L	1	1
1,2-Dichloropropane	<0.19	ug/L	1	1
1,2-Dichloropropane	<0.49	ug/L	1	1
1,2-Diphenyl hydrazine (as azobenzene)	<1.06	ug/L	1	1
1,3,5-Trimethylbenzene	<0.20	ug/L	1	1
1,3-Dichlorobenzene	<0.60	ug/L	1	1
1,3-Dichlorobenzene	<0.47	ug/L	1	1
1,4-Dichlorobenzene	<0.24	ug/L	1	1
1,4-Dichlorobenzene	<0.59	ug/L	1	1
1,4-Dichlorobenzene	<1.28	ug/L	1	1
2,4,5-T	<0.2	ug/L	1	1
2,4,5-TP (Silvex)	<0.2	ug/L	1	1
2,4,6-Trichlorophenol	<2.60	ug/L	1	1
2,4-D	<0.1	ug/L	1	1
2,4-DB	<2	ug/L	1	1
2,4-Dichlorophenol	<2.81	ug/L	1	1
2,4-Dimethylphenol	<2.64	ug/L	1	1
2,4-Dinitrophenol	<2.21	ug/L	1	1
2,4-Dinitrotoluene	<0.26	ug/L	1	1
2,6-Dinitrotoluene	<0.38	ug/L	1	1
2-Chloroethyl vinyl ether	<0.43	ug/L	1	1
2-Chloronaphthalene	<0.43	ug/L	1	1
2-Chlorophenol	<3.10	ug/L	1	1
2-Methyl-4,6-dinitrophenol	<1.49	ug/L	1	1
2-Nitrophenol	<2.84	ug/L	1	1
3,3'-Dichlorobenzidine	<11.60	ug/L	1	1
3,5-Dichlorobenzoic Acid	<0.5	ug/L	1	1
4,4'-DDD	<0.05	ug/L	10	1
4,4'-DDE	<0.05	ug/L	10	1
4,4'-DDT	<0.11	ug/L	10	1
4-Bromophenyl phenyl ether	<0.38	ug/L	1	1
4-Chloro-3-methylphenol	<1.87	ug/L	1	1
4-Chlorophenyl phenyl ether	<4.19	ug/L	1	1
4-Nitrophenol	<2.98	ug/L	1	1
Acenaphthene	<0.35	ug/L	1	1
Acenaphthylene	<1.23	ug/L	1	1

Acifluorfen	<0.2	ug/L	1	1
Acrolein	<0.41	ug/L	1	1
Acrylonitrile	<0.42	ug/L	1	1
Alachlor	<0.05	ug/L	10	1
alpha-Chlordane	<0.13	ug/L	10	1
Anthracene	<0.44	ug/L	1	1
Antimony - Total Recoverable	<0.00015	mg/L	5	1
Arsenic - Total Recoverable	0.0058	mg/L	5	1
Atrazine	<0.04	ug/L	10	1
Barium - Total Recoverable	0.0469	mg/L	1	1
Bentazon	<0.5	ug/L	1	1
Benzene	<0.17	ug/L	1	1
Benzene	<0.46	ug/L	1	1
Benzidine	<26.95	ug/L	1	1
Benzo(a)anthracene	<0.38	ug/L	1	1
Benzo(a)pyrene	<0.07	ug/L	10	1
Benzo(a)pyrene	<1.41	ug/L	1	1
Benzo(b)fluoranthene	<1.06	ug/L	1	1
Benzo(ghi)perylene	<0.72	ug/L	1	1
Benzo(k)fluoranthene	<0.35	ug/L	1	1
Benzyl butyl phthalate	<1.02	ug/L	1	1
Beryllium - Total Recoverable	<0.0001	mg/L	1	1
Bis(2-chloroethoxy)methane	<1.15	ug/L	1	1
Bis(2-chloroethyl)ether	<1.12	ug/L	1	1
Bis(2-chloroisopropyl)ether	<1.10	ug/L	1	1
Bis(2-ethylhexyl) adipate	<2.87	ug/L	10	1
Bis(2-ethylhexyl) phthalate	<2.50	ug/L	10	1
Bis(2-ethylhexyl) phthalate	<1.11	ug/L	1	1
Boron - Total Recoverable	0.192	mg/L	1	1
Bromochloromethane	<0.20	ug/L	1	1
Bromodichloromethane	<0.16	ug/L	1	1
Bromodichloromethane	<0.49	ug/L	1	1
Bromoform	<0.19	ug/L	1	1
Bromoform	<0.68	ug/L	1	1
Bromomethane	<0.46	ug/L	1	1
Cadmium - Total Recoverable	<0.00015	mg/L	5	1
Calcium - Total Recoverable	45.9	mg/L	1	1
Calcium - Total Recoverable	46.4	mg/L	1	1
Calcium - Total Recoverable	46.3	mg/L	1	1
Calcium - Total Recoverable	43.9	mg/L	1	1
Calcium - Total Recoverable	43.1	mg/L	1	1
Calcium - Total Recoverable	44.4	mg/L	1	1
Calcium - Total Recoverable	43.7	mg/L	1	1
Calcium - Total Recoverable	42.4	mg/L	1	1
Calcium - Total Recoverable	42.8	mg/L	1	1
Calcium - Total Recoverable	44.5	mg/L	1	1
Calcium - Total Recoverable	41.7	mg/L	1	1
Calcium - Total Recoverable	40.0	mg/L	1	1
Calcium - Total Recoverable	43.1	mg/L	1	1
Calcium - Total Recoverable	41.1	mg/L	1	1
Calcium - Total Recoverable	42.9	mg/L	1	1
Calcium - Total Recoverable	41.9	mg/L	1	1
Calcium - Total Recoverable	43.2	mg/L	1	1
Calcium - Total Recoverable	42.2	mg/L	1	1
Calcium - Total Recoverable	42.3	mg/L	1	1

Calcium - Total Recoverable	42.8	mg/L	1	1
Calcium - Total Recoverable	41.2	mg/L	1	1
Calcium - Total Recoverable	41.9	mg/L	1	1
Calcium - Total Recoverable	43.7	mg/L	1	1
Calcium - Total Recoverable	43.9	mg/L	1	1
Calcium - Total Recoverable	42.2	mg/L	1	1
Calcium - Total Recoverable	42.2	mg/L	1	1
Calcium - Total Recoverable	45.0	mg/L	1	1
Calcium - Total Recoverable	44.2	mg/L	1	1
Calcium - Total Recoverable	45.2	mg/L	1	1
Calcium - Total Recoverable	43.5	mg/L	1	1
Calcium - Total Recoverable	42.6	mg/L	1	1
Calcium Hardness	115	mg/L	1	1
Calcium Hardness	116	mg/L	1	1
Calcium Hardness	116	mg/L	1	1
Calcium Hardness	110	mg/L	1	1
Calcium Hardness	108	mg/L	1	1
Calcium Hardness	111	mg/L	1	1
Calcium Hardness	109	mg/L	1	1
Calcium Hardness	106	mg/L	1	1
Calcium Hardness	107	mg/L	1	1
Calcium Hardness	111	mg/L	1	1
Calcium Hardness	104	mg/L	1	1
Calcium Hardness	99.9	mg/L	1	1
Calcium Hardness	108	mg/L	1	1
Calcium Hardness	103	mg/L	1	1
Calcium Hardness	107	mg/L	1	1
Calcium Hardness	105	mg/L	1	1
Calcium Hardness	108	mg/L	1	1
Calcium Hardness	105	mg/L	1	1
Calcium Hardness	106	mg/L	1	1
Calcium Hardness	107	mg/L	1	1
Calcium Hardness	103	mg/L	1	1
Calcium Hardness	105	mg/L	1	1
Calcium Hardness	109	mg/L	1	1
Calcium Hardness	110	mg/L	1	1
Calcium Hardness	105	mg/L	1	1
Calcium Hardness	105	mg/L	1	1
Calcium Hardness	112	mg/L	1	1
Calcium Hardness	110	mg/L	1	1
Calcium Hardness	113	mg/L	1	1
Calcium Hardness	109	mg/L	1	1
Calcium Hardness	106	mg/L	1	1
Carbon Tetrachloride	<0.24	ug/L	1	1
Carbon Tetrachloride	<0.31	ug/L	1	1
Chlorobenzene	<0.18	ug/L	1	1
Chlorobenzene	<0.50	ug/L	1	1
Chloroethane	<0.40	ug/L	1	1
Chloroform	<0.19	ug/L	1	1
Chloroform	<0.49	ug/L	1	1
Chloromethane	<0.46	ug/L	1	1
Chromium - Total Recoverable	<0.0012	mg/L	1	1
Chronic Ceriodaphnia	1	T.U.c	1	1
Chronic Ceriodaphnia	1	T.U.c	1	1
Chronic Ceriodaphnia	1.0	T.U.c	1	1

Chrysene	<0.46	ug/L	1	1
cis-1,2-Dichloroethene	<0.17	ug/L	1	1
cis-1,3-Dichloropropene	<0.16	ug/L	1	1
cis-1,3-Dichloropropene	<0.51	ug/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	0.002	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Cyanide	<0.005	mg/L	1	1
Dalapon	<1	ug/L	1	1
Dibenzo(a,h)anthracene	<0.47	ug/L	1	1
Dibromochloromethane	<0.16	ug/L	1	1
Dibromochloromethane	<0.61	ug/L	1	1
Dicamba	<0.1	ug/L	1	1
Dichlorodifluoromethane	<0.42	ug/L	1	1
Dichlorprop	<0.5	ug/L	1	1
Diethyl phthalate	<0.36	ug/L	1	1
Dimethyl phthalate	<0.47	ug/L	1	1
Di-n-butyl phthalate	<0.31	ug/L	1	1
Di-n-octyl phthalate	<1.28	ug/L	1	1
Dinoseb	<0.2	ug/L	1	1
E. coli	<1	MPN/100m	1	1
E. coli	<1	MPN/100m	1	1
E. coli	<1	MPN/100m	1	1
Endrin	<0.15	ug/L	10	1
Ethylbenzene	<0.20	ug/L	1	1
Ethylbenzene	<0.46	ug/L	1	1
Fluoranthene	<0.27	ug/L	1	1

Fluorene	<0.29	ug/L	1	1
Fluoride	0.3	mg/L	1	1
gamma-BHC	<0.05	ug/L	10	1
gamma-Chlordane	<0.05	ug/L	10	1
Hardness - Total	188	mg/L	1	1
Hardness - Total	189	mg/L	1	1
Hardness - Total	188	mg/L	1	1
Hardness - Total	178	mg/L	1	1
Hardness - Total	176	mg/L	1	1
Hardness - Total	180	mg/L	1	1
Hardness - Total	176	mg/L	1	1
Hardness - Total	173	mg/L	1	1
Hardness - Total	178	mg/L	1	1
Hardness - Total	182	mg/L	1	1
Hardness - Total	175	mg/L	1	1
Hardness - Total	167	mg/L	1	1
Hardness - Total	181	mg/L	1	1
Hardness - Total	173	mg/L	1	1
Hardness - Total	180	mg/L	1	1
Hardness - Total	177	mg/L	1	1
Hardness - Total	181	mg/L	1	1
Hardness - Total	178	mg/L	1	1
Hardness - Total	179	mg/L	1	1
Hardness - Total	180	mg/L	1	1
Hardness - Total	172	mg/L	1	1
Hardness - Total	177	mg/L	1	1
Hardness - Total	184	mg/L	1	1
Hardness - Total	184	mg/L	1	1
Hardness - Total	177	mg/L	1	1
Hardness - Total	179	mg/L	1	1
Hardness - Total	190	mg/L	1	1
Hardness - Total	185	mg/L	1	1
Hardness - Total	190	mg/L	1	1
Hardness - Total	184	mg/L	1	1
Hardness - Total	180	mg/L	1	1
Heptachlor	<0.06	ug/L	10	1
Heptachlor Epoxide	<0.14	ug/L	10	1
Hexachlorobenzene	<0.04	ug/L	10	1
Hexachlorobenzene	<0.34	ug/L	1	1
Hexachlorobutadiene	<0.29	ug/L	1	1
Hexachlorobutadiene	<1.67	ug/L	1	1
Hexachlorocyclopentadiene	<0.15	ug/L	10	1
Hexachlorocyclopentadiene	<1.53	ug/L	1	1
Hexachloroethane	<1.23	ug/L	1	1
Hexane Extractable Material	<5.5	mg/L	1	1
Hexane Extractable Material	<5.5	mg/L	1	1
Hexane Extractable Material	<5.4	mg/L	1	1
Hexane Extractable Material	<4.5	mg/L	1	1
Hexane Extractable Material	<4.3	mg/L	1	1
Hexane Extractable Material	<4.3	mg/L	1	1
Hexane Extractable Material	<4.3	mg/L	1	1
Hexane Extractable Material	<4.2	mg/L	1	1
Hexane Extractable Material	<5.3	mg/L	1	1
Hexane Extractable Material	<4.0	mg/L	1	1
Hexane Extractable Material	<5.5	mg/L	1	1

Hexavalent Chromium - Dissolved	<0.0050	mg/L	1	1
Indeno(1,2,3-cd)pyrene	<0.62	ug/L	1	1
Iron - Total Recoverable	0.125	mg/L	1	1
Iron - Total Recoverable	0.130	mg/L	1	1
Iron - Total Recoverable	0.211	mg/L	1	1
Iron - Total Recoverable	0.039	mg/L	1	1
Iron - Total Recoverable	0.068	mg/L	1	1
Iron - Total Recoverable	0.043	mg/L	1	1
Iron - Total Recoverable	0.083	mg/L	1	1
Iron - Total Recoverable	0.121	mg/L	1	1
Iron - Total Recoverable	0.129	mg/L	1	1
Iron - Total Recoverable	0.156	mg/L	1	1
Iron - Total Recoverable	0.071	mg/L	1	1
Isophorone	<0.37	ug/L	1	1
Isopropylbenzene	<0.22	ug/L	1	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	0.0015	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	0.00013	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
m- & p-Xylene	<0.38	ug/L	1	1
Magnesium - Total Recoverable	17.8	mg/L	1	1
Magnesium - Total Recoverable	17.7	mg/L	1	1
Magnesium - Total Recoverable	17.5	mg/L	1	1
Magnesium - Total Recoverable	16.6	mg/L	1	1
Magnesium - Total Recoverable	16.7	mg/L	1	1
Magnesium - Total Recoverable	16.9	mg/L	1	1
Magnesium - Total Recoverable	16.3	mg/L	1	1
Magnesium - Total Recoverable	16.3	mg/L	1	1

Magnesium - Total Recoverable	17.3	mg/L	1	1
Magnesium - Total Recoverable	17.3	mg/L	1	1
Magnesium - Total Recoverable	17.2	mg/L	1	1
Magnesium - Total Recoverable	16.3	mg/L	1	1
Magnesium - Total Recoverable	17.7	mg/L	1	1
Magnesium - Total Recoverable	17.0	mg/L	1	1
Magnesium - Total Recoverable	17.8	mg/L	1	1
Magnesium - Total Recoverable	17.6	mg/L	1	1
Magnesium - Total Recoverable	17.8	mg/L	1	1
Magnesium - Total Recoverable	17.7	mg/L	1	1
Magnesium - Total Recoverable	17.7	mg/L	1	1
Magnesium - Total Recoverable	17.8	mg/L	1	1
Magnesium - Total Recoverable	16.9	mg/L	1	1
Magnesium - Total Recoverable	17.6	mg/L	1	1
Magnesium - Total Recoverable	18.2	mg/L	1	1
Magnesium - Total Recoverable	18.1	mg/L	1	1
Magnesium - Total Recoverable	17.4	mg/L	1	1
Magnesium - Total Recoverable	17.8	mg/L	1	1
Magnesium - Total Recoverable	18.8	mg/L	1	1
Magnesium - Total Recoverable	18.2	mg/L	1	1
Magnesium - Total Recoverable	18.8	mg/L	1	1
Magnesium - Total Recoverable	18.2	mg/L	1	1
Magnesium - Total Recoverable	18.0	mg/L	1	1
Manganese - Total Recoverable	0.0071	mg/L	1	1
Mercury - Total	<0.000068	mg/L	2	1
Methoxychlor	<0.15	ug/L	10	1
Methyl Tert-Butyl Ether	<0.20	ug/L	1	1
Methyl Tert-Butyl Ether	<0.47	ug/L	1	1
Methylene chloride	<0.23	ug/L	1	1
Methylene chloride	<0.81	ug/L	1	1
Naphthalene	<0.32	ug/L	1	1
Naphthalene	<0.36	ug/L	1	1
n-Butylbenzene	<0.26	ug/L	1	1
Nickel - Total Recoverable	<0.001	mg/L	1	1
Nitrate-N	0.2	mg/L	1	1
Nitrite-N	<0.1	mg/L	1	1
Nitrobenzene	<1.26	ug/L	1	1
N-Nitrosodimethylamine	<1.13	ug/L	1	1
N-Nitrosodi-n-propylamine	<1.17	ug/L	1	1
N-Nitrosodiphenylamine	<1.15	ug/L	1	1
o-Xylene	<0.18	ug/L	1	1
P. promelas Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1
P. promelas Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1
P. promelas Chronic Toxicity (100/Chronic NOEC)	1.0	T.U.c	1	1
Pentachlorophenol	<0.04	ug/L	1	1
Pentachlorophenol	<1.47	ug/L	1	1
pH Field Read	7.5	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.5	SU	1	1
pH Field Read	7.4	SU	1	1

pH Field Read	7.54	SU	1	1
pH Field Read	6.8	SU	1	1
pH Field Read	7.5	SU	1	1
pH Field Read	7.6	SU	1	1
pH Field Read	7.6	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.5	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.0	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.5	SU	1	1
pH Field Read	7.0	SU	1	1
pH Field Read	6.9	SU	1	1
pH Field Read	7.4	SU	1	1
Phenanthrene	<0.31	ug/L	1	1
Phenol	<2.30	ug/L	1	1
Phosphorus - Total	<0.10	mg/L	1	1
Picloram	<0.1	ug/L	1	1
p-Isopropyltoluene	<0.22	ug/L	1	1
Propylbenzene	<0.24	ug/L	1	1
Pyrene	<0.67	ug/L	1	1
S. capricornutum Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1
S. capricornutum Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1
S. capricornutum Chronic Toxicity (100/Chronic NOEC)	1.0	T.U.c	1	1
sec-Butylbenzene	<0.25	ug/L	1	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1

Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Silver - Total Recoverable	<0.0003	mg/L	1	1
Simazine	<0.07	ug/L	10	1
Styrene	<0.15	ug/L	1	1
Suspended Solids	<1.0	mg/L	1	1
Temp Field Read	23.5	Deg. C	1	1
Temp Field Read	27.0	Deg. C	1	1
tert-Butylbenzene	<0.22	ug/L	1	1
Tetrachloroethylene	<0.27	ug/L	1	1
Tetrachloroethylene	<0.35	ug/L	1	1
Thallium - Total Recoverable	<0.00015	mg/L	5	1
Toluene	<0.19	ug/L	1	1
Toluene	<0.43	ug/L	1	1
Total Coliform	1.0	MPN/100m	1	1
Total Coliform	<1	MPN/100m	1	1
Total Coliform	<1	MPN/100m	1	1
Total DCPA Mono & Diacid Degradate	<0.1	ug/L	1	1
Total Dissolved Solids	504	mg/L	1	1
Total Kjeldahl Nitrogen	<0.6	mg/L	1	1
Total THM	<0.19	ug/L	1	1
trans-1,2-Dichloroethene	<0.23	ug/L	1	1
trans-1,2-Dichloroethene	<0.38	ug/L	1	1
trans-1,3-Dichloropropene	<0.13	ug/L	1	1
trans-1,3-Dichloropropene	<0.50	ug/L	1	1
Trans-Nonachlor	<0.05	ug/L	10	1
Trichloroethene	<0.48	ug/L	1	1
Trichloroethylene	<0.22	ug/L	1	1
Trichlorofluoromethane	<0.34	ug/L	1	1
Vinyl Chloride	<0.32	ug/L	1	1
Vinyl Chloride	<0.35	ug/L	1	1
Xylene - Total	<0.18	ug/L	1	1
Zinc - Total Recoverable	<0.002	mg/L	1	1

21030.RSPW4 = Well 4

RL	Qualifier
0.27	E8
0.34	E8
0.80	E8
0.15	E8
0.60	E8
0.42	E8
0.32	E8
0.34	E8
0.29	E8
0.29	E8
1.04	E8
0.20	E8
0.22	E8
0.16	E8
0.22	E8
0.64	E8
1.04	T2;E8
0.18	E8
0.51	E8
0.19	E8
0.49	E8
1.06	T2;E8
0.20	E8
0.60	E8
0.47	T2;E8
0.24	E8
0.59	E8
1.28	T2;E8
0.2	
0.2	
2.60	E8
0.1	
2	
2.81	E8
2.64	E8
2.21	E8
0.26	E8
0.38	E8
0.43	E8
0.43	E8
3.10	E8
1.49	E8
2.84	E8
11.60	E8
0.5	
0.05	E8;D1
0.05	E8;D1
0.11	E8;D1
0.38	E8
1.87	E8
4.19	E8
2.98	E8
0.35	E8
1.23	E8

0.2	
0.41	N1;E8
0.42	N1;E8
0.05	E8;D1
0.13	E8;D1
0.44	E8
0.00015	D1;E8
0.00045	D1
0.04	E8;D1
0.0002	
0.5	
0.17	E8
0.46	E8
26.95	T2;E8;N1
0.38	E8
0.07	E8;D1
1.41	E8
1.06	E8
0.72	E8
0.35	E8
1.02	E8
0.0001	E8
1.15	E8
1.12	E8
1.10	E8
2.87	E8;D1
2.50	E8;D1
1.11	E8
0.006	
0.20	E8
0.16	E8
0.49	E8
0.19	E8
0.68	E8
0.46	E8
0.00015	D1;E8
0.016	
0.016	
0.016	B7
0.016	B7
0.016	
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0.016	
0.016	
0.016	
0.016	
0.016	
0.020	B7
0.020	
0.020	
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0.020	

0.020	
0.010	
0.010	B7
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0.010	B7
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0.49	E8
0.46	E8
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0.16	E8
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0.47	E8
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0.27	E8

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0.04	E8;D1
0.34	E8
0.29	E8
1.67	E8
0.15	E8;D1
1.53	T2;E8
1.23	E8
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0.005	E4
0.005	E4
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0.22	E8
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0.00010	D1;E4
0.00010	D1;E8
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0.0003	E4
0.000068	D1;E8
0.15	E8;D1
0.20	E8
0.47	T2;E8
0.23	E8
0.81	E8
0.32	E8
0.36	E8
0.26	E8
0.001	E8
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1.26	E8
1.13	T2;E8
1.17	E8
1.15	T2;E8
0.18	E8
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0.04	
1.47	E8;N1

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2.30	E8
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0.1	
0.22	E8
0.24	E8
0.67	E8
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0.00040	D1;E8
0.00040	D1;E8
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0.00040	D1;E8
0.00040	D1;E8
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0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00020	D1;E8
0.00020	D1;E8
0.00020	D1;E8

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0.00020	D1;E8
0.00020	D1;E8
0.00020	D1;E8
0.00020	D1;E8;B1
0.00020	D1;E8
0.00020	D1;E8
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0.07	E8;D1
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0.00015	D1;E8
0.19	E8
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0.19	E8
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0.13	E8
0.50	E8
0.05	E8;D1
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0.34	E8
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LIMS	Sample Date/Time	Sample ID	Method
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2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
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2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022381	5/4/2016 12:25	21030.RSPW6	EPA 515.4
2016022381	5/4/2016 12:25	21030.RSPW6	EPA 515.4
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022381	5/4/2016 12:25	21030.RSPW6	EPA 515.4
2016022381	5/4/2016 12:25	21030.RSPW6	EPA 515.4
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2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
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2016022384	5/4/2016 12:25	21030.RSPW6	EPA 624 ¤
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2016022381	5/4/2016 12:25	21030.RSPW6	EPA 515.4
2016022383	5/4/2016 12:25	21030.RSPW6	EPA 525.2 ¤
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2016022383	5/4/2016 12:25	21030.RSPW6	EPA 525.2 ¤
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2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
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2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625

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2016022383	5/4/2016 12:25	21030.RSPW6	EPA 525.2 ¤
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2016022381	5/4/2016 12:25	21030.RSPW6	EPA 515.4
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
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2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
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2016022383	5/4/2016 12:25	21030.RSPW6	EPA 525.2 ¤
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2016022391	5/4/2016 12:25	21030.RSPW6	EPA 200.7
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
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2016023145	4/15/2016 10:20	21030.RSPW6	EPA 200.7
2016022391	5/4/2016 12:25	21030.RSPW6	EPA 200.7
2016035525	6/2/2016 8:30	21030.RSPW6	EPA 200.7
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2016066223	10/6/2016 9:37	21030.RSPW6	EPA 200.7
2016072151	11/3/2016 9:22	21030.RSPW6	EPA 200.7
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2017002664	1/12/2017 8:57	21030.RSPW6	EPA 200.7
2017010120	2/9/2017 7:35	21030.RSPW6	EPA 200.7
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2017035555	5/4/2017 9:18	21030.RSPW6	EPA 200.7
2017044871	6/15/2017 9:32	21030.RSPW6	EPA 200.7
2017050053	7/6/2017 8:30	21030.RSPW6	EPA 200.7

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2017083317	11/3/2017 9:20	21030.RSPW6	EPA 200.7
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2018016059	3/8/2018 9:12	21030.RSPW6	EPA 200.7
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2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022381	5/4/2016 12:25	21030.RSPW6	EPA 515.4
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2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022381	5/4/2016 12:25	21030.RSPW6	EPA 515.4
2016022395	5/4/2016 12:25	21030.RSPW6	SM20 9223 B
2017024663	4/5/2017 9:12	21030.RSPW6	SM22 9223 B
2018022182	4/4/2018 10:03	21030.RSPW6	SM22 9223 B
2016022383	5/4/2016 12:25	21030.RSPW6	EPA 525.2 ¤
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625

2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022387	5/4/2016 12:25	21030.RSPW6	EPA 300.0
2016022383	5/4/2016 12:25	21030.RSPW6	EPA 525.2 ¤
2016022383	5/4/2016 12:25	21030.RSPW6	EPA 525.2 ¤
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2016007065	2/4/2016 10:04	21030.RSPW6	SM20 2340 B
2016012776	3/3/2016 10:14	21030.RSPW6	SM20 2340 B
2016023145	4/15/2016 10:20	21030.RSPW6	SM20 2340 B
2016022391	5/4/2016 12:25	21030.RSPW6	SM20 2340 B
2016035525	6/2/2016 8:30	21030.RSPW6	SM20 2340 B
2016042616	7/8/2016 10:26	21030.RSPW6	SM20 2340 B
2016053238	8/19/2016 7:46	21030.RSPW6	SM20 2340 B
2016059890	9/8/2016 8:56	21030.RSPW6	SM20 2340 B
2016066223	10/6/2016 9:37	21030.RSPW6	SM22 2340 B
2016072151	11/3/2016 9:22	21030.RSPW6	SM22 2340 B
2016081480	12/9/2016 10:30	21030.RSPW6	SM22 2340 B
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2017010120	2/9/2017 7:35	21030.RSPW6	SM22 2340 B
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2017035555	5/4/2017 9:18	21030.RSPW6	SM22 2340 B
2017044871	6/15/2017 9:32	21030.RSPW6	SM22 2340 B
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2017061367	8/11/2017 9:21	21030.RSPW6	SM22 2340 B
2017070310	9/7/2017 9:12	21030.RSPW6	SM22 2340 B
2017079544	10/13/2017 8:41	21030.RSPW6	SM22 2340 B
2017083317	11/3/2017 9:20	21030.RSPW6	SM22 2340 B
2017093066	12/8/2017 10:07	21030.RSPW6	SM22 2340 B
2018000601	1/5/2018 9:06	21030.RSPW6	SM22 2340 B
2018007050	2/9/2018 9:06	21030.RSPW6	SM22 2340 B
2018016059	3/8/2018 9:12	21030.RSPW6	SM22 2340 B
2018022183	4/4/2018 9:45	21030.RSPW6	SM22 2340 B
2018032186	5/10/2018 8:29	21030.RSPW6	SM22 2340 B
2018037736	6/8/2018 8:38	21030.RSPW6	SM22 2340 B
2018044623	7/3/2018 8:55	21030.RSPW6	SM22 2340 B
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2016022383	5/4/2016 12:25	21030.RSPW6	EPA 525.2 ¤
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2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022383	5/4/2016 12:25	21030.RSPW6	EPA 525.2 ¤
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2018044622	7/3/2018 8:55	21030.RSPW6	EPA 1664B

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2018044623	7/3/2018 8:55	21030.RSPW6	EPA 200.7
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
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2016072151	11/3/2016 9:22	21030.RSPW6	EPA 200.8
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2017010120	2/9/2017 7:35	21030.RSPW6	EPA 200.8
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2017050053	7/6/2017 8:30	21030.RSPW6	EPA 200.8
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2018022183	4/4/2018 9:45	21030.RSPW6	EPA 200.8
2018032186	5/10/2018 8:29	21030.RSPW6	EPA 200.8
2018037736	6/8/2018 8:38	21030.RSPW6	EPA 200.8
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2017010120	2/9/2017 7:35	21030.RSPW6	EPA 200.7
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2017050053	7/6/2017 8:30	21030.RSPW6	EPA 200.7
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2017070310	9/7/2017 9:12	21030.RSPW6	EPA 200.7
2017079544	10/13/2017 8:41	21030.RSPW6	EPA 200.7
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2018022183	4/4/2018 9:45	21030.RSPW6	EPA 200.7
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2018044623	7/3/2018 8:55	21030.RSPW6	EPA 200.7
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2016022383	5/4/2016 12:25	21030.RSPW6	EPA 525.2 ¤
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
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2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
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2016022386	5/4/2016 12:25	21030.RSPW6	EPA 625
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2017035556	5/4/2017 9:18	21030.RSPW6	PH § ¤
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2016022381	5/4/2016 12:25	21030.RSPW6	EPA 515.4
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
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2016007065	2/4/2016 10:04	21030.RSPW6	EPA 200.8
2016012776	3/3/2016 10:14	21030.RSPW6	EPA 200.8
2016023145	4/15/2016 10:20	21030.RSPW6	EPA 200.8
2016022391	5/4/2016 12:25	21030.RSPW6	EPA 200.8
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2016072151	11/3/2016 9:22	21030.RSPW6	EPA 200.8
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2017010120	2/9/2017 7:35	21030.RSPW6	EPA 200.8
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2017093066	12/8/2017 10:07	21030.RSPW6	EPA 200.8
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2018007050	2/9/2018 9:06	21030.RSPW6	EPA 200.8
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2018022183	4/4/2018 9:45	21030.RSPW6	EPA 200.8
2018032186	5/10/2018 8:29	21030.RSPW6	EPA 200.8
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2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022395	5/4/2016 12:25	21030.RSPW6	SM20 9223 B
2017024663	4/5/2017 9:12	21030.RSPW6	SM22 9223 B
2018022182	4/4/2018 10:03	21030.RSPW6	SM22 9223 B
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2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022383	5/4/2016 12:25	21030.RSPW6	EPA 525.2 ¤
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2016022385	5/4/2016 12:25	21030.RSPW6	EPA 624
2016022382	5/4/2016 12:25	21030.RSPW6	EPA 524.2
2016022391	5/4/2016 12:25	21030.RSPW6	EPA 200.7

Parameter	Results	Units	Dilution	Data Set
1,1,1-Trichloroethane	<0.27	ug/L	1	1
1,1,1-Trichloroethane	<0.34	ug/L	1	1
1,1,2,2-Tetrachloroethane	<0.80	ug/L	1	1
1,1,2-Trichloroethane	<0.15	ug/L	1	1
1,1,2-Trichloroethane	<0.60	ug/L	1	1
1,1-Dichloroethane	<0.42	ug/L	1	1
1,1-Dichloroethylene	<0.32	ug/L	1	1
1,1-Dichloroethylene	<0.34	ug/L	1	1
1,2,3-Trichlorobenzene	<0.29	ug/L	1	1
1,2,4-Trichlorobenzene	<0.29	ug/L	1	1
1,2,4-Trichlorobenzene	<1.04	ug/L	1	1
1,2,4-Trimethylbenzene	<0.20	ug/L	1	1
1,2-Dibromo-3-chloropropane (DBCP)	<0.22	ug/L	1	1
1,2-Dibromoethane (EDB)	<0.16	ug/L	1	1
1,2-Dichlorobenzene	<0.22	ug/L	1	1
1,2-Dichlorobenzene	<0.64	ug/L	1	1
1,2-Dichlorobenzene	<1.04	ug/L	1	1
1,2-Dichloroethane	<0.18	ug/L	1	1
1,2-Dichloroethane	<0.51	ug/L	1	1
1,2-Dichloropropane	<0.19	ug/L	1	1
1,2-Dichloropropane	<0.49	ug/L	1	1
1,2-Diphenyl hydrazine (as azobenzene)	<1.06	ug/L	1	1
1,3,5-Trimethylbenzene	<0.20	ug/L	1	1
1,3-Dichlorobenzene	<0.60	ug/L	1	1
1,3-Dichlorobenzene	<0.47	ug/L	1	1
1,4-Dichlorobenzene	<0.24	ug/L	1	1
1,4-Dichlorobenzene	<0.59	ug/L	1	1
1,4-Dichlorobenzene	<1.28	ug/L	1	1
2,4,5-T	<0.2	ug/L	1	1
2,4,5-TP (Silvex)	<0.2	ug/L	1	1
2,4,6-Trichlorophenol	<2.60	ug/L	1	1
2,4-D	<0.1	ug/L	1	1
2,4-DB	<2	ug/L	1	1
2,4-Dichlorophenol	<2.81	ug/L	1	1
2,4-Dimethylphenol	<2.64	ug/L	1	1
2,4-Dinitrophenol	<2.21	ug/L	1	1
2,4-Dinitrotoluene	<0.26	ug/L	1	1
2,6-Dinitrotoluene	<0.38	ug/L	1	1
2-Chloroethyl vinyl ether	<0.43	ug/L	1	1
2-Chloronaphthalene	<0.43	ug/L	1	1
2-Chlorophenol	<3.10	ug/L	1	1
2-Methyl-4,6-dinitrophenol	<1.49	ug/L	1	1
2-Nitrophenol	<2.84	ug/L	1	1
3,3'-Dichlorobenzidine	<11.60	ug/L	1	1
3,5-Dichlorobenzoic Acid	<0.5	ug/L	1	1
4,4'-DDD	<0.05	ug/L	10	1
4,4'-DDE	<0.05	ug/L	10	1
4,4'-DDT	<0.11	ug/L	10	1
4-Bromophenyl phenyl ether	<0.38	ug/L	1	1
4-Chloro-3-methylphenol	<1.87	ug/L	1	1
4-Chlorophenyl phenyl ether	<4.19	ug/L	1	1
4-Nitrophenol	<2.98	ug/L	1	1
Acenaphthene	<0.35	ug/L	1	1
Acenaphthylene	<1.23	ug/L	1	1

Acifluorfen	<0.2	ug/L	1	1
Acrolein	<0.41	ug/L	1	1
Acrylonitrile	<0.42	ug/L	1	1
Alachlor	<0.05	ug/L	10	1
alpha-Chlordane	<0.13	ug/L	10	1
Anthracene	<0.44	ug/L	1	1
Antimony - Total Recoverable	<0.00015	mg/L	5	1
Arsenic - Total Recoverable	0.0049	mg/L	5	1
Atrazine	<0.04	ug/L	10	1
Barium - Total Recoverable	0.0940	mg/L	1	1
Bentazon	<0.5	ug/L	1	1
Benzene	<0.17	ug/L	1	1
Benzene	<0.46	ug/L	1	1
Benzidine	<26.95	ug/L	1	1
Benzo(a)anthracene	<0.38	ug/L	1	1
Benzo(a)pyrene	<0.07	ug/L	10	1
Benzo(a)pyrene	<1.41	ug/L	1	1
Benzo(b)fluoranthene	<1.06	ug/L	1	1
Benzo(ghi)perylene	<0.72	ug/L	1	1
Benzo(k)fluoranthene	<0.35	ug/L	1	1
Benzyl butyl phthalate	<1.02	ug/L	1	1
Beryllium - Total Recoverable	<0.0001	mg/L	1	1
Bis(2-chloroethoxy)methane	<1.15	ug/L	1	1
Bis(2-chloroethyl)ether	<1.12	ug/L	1	1
Bis(2-chloroisopropyl)ether	<1.10	ug/L	1	1
Bis(2-ethylhexyl) adipate	<2.87	ug/L	10	1
Bis(2-ethylhexyl) phthalate	<2.50	ug/L	10	1
Bis(2-ethylhexyl) phthalate	<1.11	ug/L	1	1
Boron - Total Recoverable	0.303	mg/L	1	1
Bromochloromethane	<0.20	ug/L	1	1
Bromodichloromethane	<0.16	ug/L	1	1
Bromodichloromethane	<0.49	ug/L	1	1
Bromoform	<0.19	ug/L	1	1
Bromoform	<0.68	ug/L	1	1
Bromomethane	<0.46	ug/L	1	1
Cadmium - Total Recoverable	<0.00015	mg/L	5	1
Calcium - Total Recoverable	101	mg/L	1	1
Calcium - Total Recoverable	94.7	mg/L	1	1
Calcium - Total Recoverable	95.5	mg/L	1	1
Calcium - Total Recoverable	60.4	mg/L	1	1
Calcium - Total Recoverable	67.4	mg/L	1	1
Calcium - Total Recoverable	67.5	mg/L	1	1
Calcium - Total Recoverable	60.3	mg/L	1	1
Calcium - Total Recoverable	62.9	mg/L	1	1
Calcium - Total Recoverable	59.1	mg/L	1	1
Calcium - Total Recoverable	68.6	mg/L	1	1
Calcium - Total Recoverable	68.5	mg/L	1	1
Calcium - Total Recoverable	77.7	mg/L	1	1
Calcium - Total Recoverable	98.4	mg/L	1	1
Calcium - Total Recoverable	72.9	mg/L	1	1
Calcium - Total Recoverable	76.0	mg/L	1	1
Calcium - Total Recoverable	55.1	mg/L	1	1
Calcium - Total Recoverable	53.4	mg/L	1	1
Calcium - Total Recoverable	56.2	mg/L	1	1
Calcium - Total Recoverable	51.5	mg/L	1	1

Calcium - Total Recoverable	51.8	mg/L	1	1
Calcium - Total Recoverable	51.3	mg/L	1	1
Calcium - Total Recoverable	57.2	mg/L	1	1
Calcium - Total Recoverable	63.7	mg/L	1	1
Calcium - Total Recoverable	78.3	mg/L	1	1
Calcium - Total Recoverable	70.7	mg/L	1	1
Calcium - Total Recoverable	83.4	mg/L	1	1
Calcium - Total Recoverable	84.8	mg/L	1	1
Calcium - Total Recoverable	78.8	mg/L	1	1
Calcium - Total Recoverable	65.3	mg/L	1	1
Calcium - Total Recoverable	62.7	mg/L	1	1
Calcium - Total Recoverable	63.7	mg/L	1	1
Calcium Hardness	252	mg/L	1	1
Calcium Hardness	236	mg/L	1	1
Calcium Hardness	238	mg/L	1	1
Calcium Hardness	151	mg/L	1	1
Calcium Hardness	168	mg/L	1	1
Calcium Hardness	169	mg/L	1	1
Calcium Hardness	151	mg/L	1	1
Calcium Hardness	157	mg/L	1	1
Calcium Hardness	148	mg/L	1	1
Calcium Hardness	171	mg/L	1	1
Calcium Hardness	171	mg/L	1	1
Calcium Hardness	194	mg/L	1	1
Calcium Hardness	246	mg/L	1	1
Calcium Hardness	182	mg/L	1	1
Calcium Hardness	190	mg/L	1	1
Calcium Hardness	138	mg/L	1	1
Calcium Hardness	133	mg/L	1	1
Calcium Hardness	140	mg/L	1	1
Calcium Hardness	129	mg/L	1	1
Calcium Hardness	129	mg/L	1	1
Calcium Hardness	128	mg/L	1	1
Calcium Hardness	143	mg/L	1	1
Calcium Hardness	159	mg/L	1	1
Calcium Hardness	196	mg/L	1	1
Calcium Hardness	177	mg/L	1	1
Calcium Hardness	208	mg/L	1	1
Calcium Hardness	212	mg/L	1	1
Calcium Hardness	197	mg/L	1	1
Calcium Hardness	163	mg/L	1	1
Calcium Hardness	157	mg/L	1	1
Calcium Hardness	159	mg/L	1	1
Carbon Tetrachloride	<0.24	ug/L	1	1
Carbon Tetrachloride	<0.31	ug/L	1	1
Chlorobenzene	<0.18	ug/L	1	1
Chlorobenzene	<0.50	ug/L	1	1
Chloroethane	<0.40	ug/L	1	1
Chloroform	<0.19	ug/L	1	1
Chloroform	<0.49	ug/L	1	1
Chloromethane	<0.46	ug/L	1	1
Chromium - Total Recoverable	<0.0012	mg/L	1	1
Chronic Ceriodaphnia	1	T.U.c	1	1
Chronic Ceriodaphnia	1	T.U.c	1	1
Chronic Ceriodaphnia	1.0	T.U.c	1	1

Chrysene	<0.46	ug/L	1	1
cis-1,2-Dichloroethene	<0.17	ug/L	1	1
cis-1,3-Dichloropropene	<0.16	ug/L	1	1
cis-1,3-Dichloropropene	<0.51	ug/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	0.001	mg/L	1	1
Copper - Total Recoverable	0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.001	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.005	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Copper - Total Recoverable	<0.003	mg/L	1	1
Cyanide	<0.005	mg/L	1	1
Dalapon	<1	ug/L	1	1
Dibenzo(a,h)anthracene	<0.47	ug/L	1	1
Dibromochloromethane	<0.16	ug/L	1	1
Dibromochloromethane	<0.61	ug/L	1	1
Dicamba	<0.1	ug/L	1	1
Dichlorodifluoromethane	<0.42	ug/L	1	1
Dichlorprop	<0.5	ug/L	1	1
Diethyl phthalate	<0.36	ug/L	1	1
Dimethyl phthalate	<0.47	ug/L	1	1
Di-n-butyl phthalate	<0.31	ug/L	1	1
Di-n-octyl phthalate	<1.28	ug/L	1	1
Dinoseb	<0.2	ug/L	1	1
E. coli	<1	MPN/100m	1	1
E. coli	<1	MPN/100m	1	1
E. coli	<1	MPN/100m	1	1
Endrin	<0.15	ug/L	10	1
Ethylbenzene	<0.20	ug/L	1	1
Ethylbenzene	<0.46	ug/L	1	1
Fluoranthene	<0.27	ug/L	1	1

Fluorene	<0.29	ug/L	1	1
Fluoride	0.2	mg/L	1	1
gamma-BHC	<0.05	ug/L	10	1
gamma-Chlordane	<0.05	ug/L	10	1
Hardness - Total	398	mg/L	1	1
Hardness - Total	379	mg/L	1	1
Hardness - Total	376	mg/L	1	1
Hardness - Total	246	mg/L	1	1
Hardness - Total	274	mg/L	1	1
Hardness - Total	272	mg/L	1	1
Hardness - Total	245	mg/L	1	1
Hardness - Total	253	mg/L	1	1
Hardness - Total	245	mg/L	1	1
Hardness - Total	280	mg/L	1	1
Hardness - Total	283	mg/L	1	1
Hardness - Total	313	mg/L	1	1
Hardness - Total	396	mg/L	1	1
Hardness - Total	298	mg/L	1	1
Hardness - Total	314	mg/L	1	1
Hardness - Total	231	mg/L	1	1
Hardness - Total	226	mg/L	1	1
Hardness - Total	233	mg/L	1	1
Hardness - Total	218	mg/L	1	1
Hardness - Total	218	mg/L	1	1
Hardness - Total	213	mg/L	1	1
Hardness - Total	237	mg/L	1	1
Hardness - Total	263	mg/L	1	1
Hardness - Total	319	mg/L	1	1
Hardness - Total	290	mg/L	1	1
Hardness - Total	341	mg/L	1	1
Hardness - Total	346	mg/L	1	1
Hardness - Total	326	mg/L	1	1
Hardness - Total	271	mg/L	1	1
Hardness - Total	260	mg/L	1	1
Hardness - Total	264	mg/L	1	1
Heptachlor	<0.06	ug/L	10	1
Heptachlor Epoxide	<0.14	ug/L	10	1
Hexachlorobenzene	<0.04	ug/L	10	1
Hexachlorobenzene	<0.34	ug/L	1	1
Hexachlorobutadiene	<0.29	ug/L	1	1
Hexachlorobutadiene	<1.67	ug/L	1	1
Hexachlorocyclopentadiene	<0.15	ug/L	10	1
Hexachlorocyclopentadiene	<1.53	ug/L	1	1
Hexachloroethane	<1.23	ug/L	1	1
Hexane Extractable Material	<5.6	mg/L	1	1
Hexane Extractable Material	<5.5	mg/L	1	1
Hexane Extractable Material	<5.6	mg/L	1	1
Hexane Extractable Material	<4.7	mg/L	1	1
Hexane Extractable Material	<4.1	mg/L	1	1
Hexane Extractable Material	<4.1	mg/L	1	1
Hexane Extractable Material	<4.2	mg/L	1	1
Hexane Extractable Material	<4.1	mg/L	1	1
Hexane Extractable Material	<5.4	mg/L	1	1
Hexane Extractable Material	<4.0	mg/L	1	1
Hexane Extractable Material	<5.8	mg/L	1	1

Hexavalent Chromium - Dissolved	<0.0050	mg/L	1	1
Indeno(1,2,3-cd)pyrene	<0.62	ug/L	1	1
Iron - Total Recoverable	0.040	mg/L	1	1
Iron - Total Recoverable	0.034	mg/L	1	1
Iron - Total Recoverable	0.023	mg/L	1	1
Iron - Total Recoverable	0.034	mg/L	1	1
Iron - Total Recoverable	0.046	mg/L	1	1
Iron - Total Recoverable	0.023	mg/L	1	1
Iron - Total Recoverable	0.034	mg/L	1	1
Iron - Total Recoverable	0.007	mg/L	1	1
Iron - Total Recoverable	0.021	mg/L	1	1
Iron - Total Recoverable	0.053	mg/L	1	1
Iron - Total Recoverable	0.033	mg/L	1	1
Isophorone	<0.37	ug/L	1	1
Isopropylbenzene	<0.22	ug/L	1	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00080	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00055	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	0.00016	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	0.00051	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
Lead - Total Recoverable	<0.00010	mg/L	5	1
m- & p-Xylene	<0.38	ug/L	1	1
Magnesium - Total Recoverable	35.5	mg/L	1	1
Magnesium - Total Recoverable	34.5	mg/L	1	1
Magnesium - Total Recoverable	33.3	mg/L	1	1
Magnesium - Total Recoverable	23.0	mg/L	1	1
Magnesium - Total Recoverable	25.6	mg/L	1	1
Magnesium - Total Recoverable	25.1	mg/L	1	1
Magnesium - Total Recoverable	23.0	mg/L	1	1
Magnesium - Total Recoverable	23.2	mg/L	1	1

Magnesium - Total Recoverable	23.6	mg/L	1	1
Magnesium - Total Recoverable	26.5	mg/L	1	1
Magnesium - Total Recoverable	27.2	mg/L	1	1
Magnesium - Total Recoverable	29.0	mg/L	1	1
Magnesium - Total Recoverable	36.5	mg/L	1	1
Magnesium - Total Recoverable	28.1	mg/L	1	1
Magnesium - Total Recoverable	30.2	mg/L	1	1
Magnesium - Total Recoverable	22.7	mg/L	1	1
Magnesium - Total Recoverable	22.5	mg/L	1	1
Magnesium - Total Recoverable	22.6	mg/L	1	1
Magnesium - Total Recoverable	21.6	mg/L	1	1
Magnesium - Total Recoverable	21.6	mg/L	1	1
Magnesium - Total Recoverable	20.7	mg/L	1	1
Magnesium - Total Recoverable	22.8	mg/L	1	1
Magnesium - Total Recoverable	25.2	mg/L	1	1
Magnesium - Total Recoverable	30.0	mg/L	1	1
Magnesium - Total Recoverable	27.5	mg/L	1	1
Magnesium - Total Recoverable	32.3	mg/L	1	1
Magnesium - Total Recoverable	32.6	mg/L	1	1
Magnesium - Total Recoverable	31.3	mg/L	1	1
Magnesium - Total Recoverable	26.1	mg/L	1	1
Magnesium - Total Recoverable	25.1	mg/L	1	1
Magnesium - Total Recoverable	25.6	mg/L	1	1
Manganese - Total Recoverable	0.0058	mg/L	1	1
Mercury - Total	<0.000068	mg/L	2	1
Methoxychlor	<0.15	ug/L	10	1
Methyl Tert-Butyl Ether	<0.20	ug/L	1	1
Methyl Tert-Butyl Ether	<0.47	ug/L	1	1
Methylene chloride	<0.23	ug/L	1	1
Methylene chloride	<0.81	ug/L	1	1
Naphthalene	<0.32	ug/L	1	1
Naphthalene	<0.36	ug/L	1	1
n-Butylbenzene	<0.26	ug/L	1	1
Nickel - Total Recoverable	<0.001	mg/L	1	1
Nitrate-N	2.2	mg/L	1	1
Nitrite-N	<0.1	mg/L	1	1
Nitrobenzene	<1.26	ug/L	1	1
N-Nitrosodimethylamine	<1.13	ug/L	1	1
N-Nitrosodi-n-propylamine	<1.17	ug/L	1	1
N-Nitrosodiphenylamine	<1.15	ug/L	1	1
o-Xylene	<0.18	ug/L	1	1
P. promelas Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1
P. promelas Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1
P. promelas Chronic Toxicity (100/Chronic NOEC)	1.0	T.U.c	1	1
Pentachlorophenol	<0.04	ug/L	1	1
Pentachlorophenol	<1.47	ug/L	1	1
pH Field Read	7.2	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.0	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.0	SU	1	1
pH Field Read	7.0	SU	1	1
pH Field Read	7.2	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.1	SU	1	1

pH Field Read	7.13	SU	1	1
pH Field Read	6.6	SU	1	1
pH Field Read	7.3	SU	1	1
pH Field Read	7.2	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.0	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.2	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.4	SU	1	1
pH Field Read	7.0	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	7.1	SU	1	1
pH Field Read	6.9	SU	1	1
pH Field Read	7.0	SU	1	1
pH Field Read	7.0	SU	1	1
pH Field Read	7.0	SU	1	1
Phenanthrene	<0.31	ug/L	1	1
Phenol	<2.30	ug/L	1	1
Phosphorus - Total	<0.10	mg/L	1	1
Picloram	<0.1	ug/L	1	1
p-Isopropyltoluene	<0.22	ug/L	1	1
Propylbenzene	<0.24	ug/L	1	1
Pyrene	<0.67	ug/L	1	1
S. capricornutum Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1
S. capricornutum Chronic Toxicity (100/Chronic NOEC)	1	T.U.c	1	1
S. capricornutum Chronic Toxicity (100/Chronic NOEC)	1.0	T.U.c	1	1
sec-Butylbenzene	<0.25	ug/L	1	1
Selenium - Total Recoverable	0.0014	mg/L	5	1
Selenium - Total Recoverable	0.0011	mg/L	5	1
Selenium - Total Recoverable	0.0011	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	0.00048	mg/L	5	1
Selenium - Total Recoverable	0.00041	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	0.00047	mg/L	5	1
Selenium - Total Recoverable	0.00046	mg/L	5	1
Selenium - Total Recoverable	0.00091	mg/L	5	1
Selenium - Total Recoverable	0.0014	mg/L	5	1
Selenium - Total Recoverable	0.00057	mg/L	5	1
Selenium - Total Recoverable	0.00071	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00040	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	<0.00020	mg/L	5	1
Selenium - Total Recoverable	0.00027	mg/L	5	1

Selenium - Total Recoverable	0.00064	mg/L	5	1
Selenium - Total Recoverable	0.00095	mg/L	5	1
Selenium - Total Recoverable	0.00069	mg/L	5	1
Selenium - Total Recoverable	0.0013	mg/L	5	1
Selenium - Total Recoverable	0.00099	mg/L	5	1
Selenium - Total Recoverable	0.00076	mg/L	5	1
Selenium - Total Recoverable	0.00062	mg/L	5	1
Selenium - Total Recoverable	0.00045	mg/L	5	1
Selenium - Total Recoverable	0.00042	mg/L	5	1
Silver - Total Recoverable	0.00049	mg/L	1	1
Simazine	<0.07	ug/L	10	1
Styrene	<0.15	ug/L	1	1
Suspended Solids	<1.0	mg/L	1	1
Temp Field Read	24.1	Deg. C	1	1
Temp Field Read	29.0	Deg. C	1	1
tert-Butylbenzene	<0.22	ug/L	1	1
Tetrachloroethylene	<0.27	ug/L	1	1
Tetrachloroethylene	<0.35	ug/L	1	1
Thallium - Total Recoverable	<0.00015	mg/L	5	1
Toluene	<0.19	ug/L	1	1
Toluene	<0.43	ug/L	1	1
Total Coliform	4.1	MPN/100m	1	1
Total Coliform	<1	MPN/100m	1	1
Total Coliform	<1	MPN/100m	1	1
Total DCPA Mono & Diacid Degradate	<0.1	ug/L	1	1
Total Dissolved Solids	852	mg/L	1	1
Total Kjeldahl Nitrogen	<0.6	mg/L	1	1
Total THM	<0.19	ug/L	1	1
trans-1,2-Dichloroethene	<0.23	ug/L	1	1
trans-1,2-Dichloroethene	<0.38	ug/L	1	1
trans-1,3-Dichloropropene	<0.13	ug/L	1	1
trans-1,3-Dichloropropene	<0.50	ug/L	1	1
Trans-Nonachlor	<0.05	ug/L	10	1
Trichloroethene	<0.48	ug/L	1	1
Trichloroethylene	<0.22	ug/L	1	1
Trichlorofluoromethane	<0.34	ug/L	1	1
Vinyl Chloride	<0.32	ug/L	1	1
Vinyl Chloride	<0.35	ug/L	1	1
Xylene - Total	<0.18	ug/L	1	1
Zinc - Total Recoverable	0.005	mg/L	1	1

RL	Qualifier
0.27	E8
0.34	E8
0.80	E8
0.15	E8
0.60	E8
0.42	E8
0.32	E8
0.34	E8
0.29	E8
0.29	E8
1.04	E8
0.20	E8
0.22	E8
0.16	E8
0.22	E8
0.64	E8
1.04	T2;E8
0.18	E8
0.51	E8
0.19	E8
0.49	E8
1.06	T2;E8
0.20	E8
0.60	E8
0.47	T2;E8
0.24	E8
0.59	E8
1.28	T2;E8
0.2	
0.2	
2.60	E8
0.1	
2	
2.81	E8
2.64	E8
2.21	E8
0.26	E8
0.38	E8
0.43	E8
0.43	E8
3.10	E8
1.49	E8
2.84	E8
11.60	E8
0.5	
0.05	E8;D1
0.05	E8;D1
0.11	E8;D1
0.38	E8
1.87	E8
4.19	E8
2.98	E8
0.35	E8
1.23	E8

21030.RSPW6 = Well 6

0.2	
0.41	N1;E8
0.42	N1;E8
0.05	E8;D1
0.13	E8;D1
0.44	E8
0.00015	D1;E8
0.00045	D1;E4
0.04	E8;D1
0.0002	
0.5	
0.17	E8
0.46	E8
26.95	T2;E8;N1
0.38	E8
0.07	E8;D1
1.41	E8
1.06	E8
0.72	E8
0.35	E8
1.02	E8
0.0001	E8
1.15	E8
1.12	E8
1.10	E8
2.87	E8;D1
2.50	E8;D1
1.11	E8
0.006	
0.20	E8
0.16	E8
0.49	E8
0.19	E8
0.68	E8
0.46	E8
0.00015	D1;E8
0.016	
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0.016	B7
0.016	B7
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0.24	E8
0.31	E8
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0.50	E8
0.40	E8
0.19	E8
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0.46	E8
0.0012	E8
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0.46	E8
0.17	E8
0.16	E8
0.51	E8
0.001	E8
0.001	E8
0.001	E8;B1
0.001	E4;B1
0.001	E4
0.001	E8
0.001	E8
0.001	E4
0.001	E8
0.001	E8
0.001	E8
0.005	E8
0.005	E8
0.005	E8
0.005	E8
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0.005	E8
0.005	E8
0.003	E8
0.003	E8
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0.003	E8
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0.003	E8
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0.47	E8
0.16	E8
0.61	E8
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0.42	E8
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0.47	E8
0.31	E8
1.28	E8
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0.15	E8;D1
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0.46	E8
0.27	E8

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0.05	E8;D1
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0.06	E8;D1
0.14	E8;D1
0.04	E8;D1
0.34	E8
0.29	E8
1.67	E8
0.15	E8;D1
1.53	T2;E8
1.23	E8
5.6	
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0.0050	
0.62	E8
0.003	E4
0.003	E4
0.003	E4
0.003	E4
0.005	E4
0.005	E4
0.005	E4
0.006	E4
0.006	E4
0.006	E4
0.006	E4
0.37	E8
0.22	E8
0.00080	D1;E8
0.00080	D1;E8
0.00080	D1;E8
0.00080	D1;E8
0.00080	D1;E8
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E8
0.00055	D1;E8
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0.00055	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E4
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E4
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8
0.00010	D1;E8
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0.0003	E4
0.000068	D1;E8
0.15	E8;D1
0.20	E8
0.47	T2;E8
0.23	E8
0.81	E8
0.32	E8
0.36	E8
0.26	E8
0.001	E8
0.1	
0.1	
1.26	E8
1.13	T2;E8
1.17	E8
1.15	T2;E8
0.18	E8
1	
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0.04	
1.47	E8;N1

0.31	E8
2.30	E8
0.10	
0.1	
0.22	E8
0.24	E8
0.67	E8
1	
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1	
0.25	E8
0.00040	D1;E4
0.00040	D1;E4
0.00040	D1;E4
0.00040	D1;E8
0.00040	D1;E4
0.00040	D1;E4
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E4
0.00040	D1;E4
0.00040	D1;E4
0.00040	D1;E4
0.00040	D1;E4
0.00040	D1;E4
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00040	D1;E8
0.00020	D1;E8
0.00020	D1;E8
0.00020	D1;E4

0.00020	D1;E4
0.00020	D1;E4
0.00020	D1;E4
0.00020	D1;E4
0.00020	D1;E4;B1
0.00020	D1;E4
0.00020	D1;E4
0.00020	D1;E4
0.00020	D1;E4
0.0003	E4
0.07	E8;D1
0.15	E8
1.0	

0.22	E8
0.27	E8
0.35	E8
0.00015	D1;E8
0.19	E8
0.43	E8
1	
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0.1	
10	
0.6	
0.19	E8
0.23	E8
0.38	E8
0.13	E8
0.50	E8
0.05	E8;D1
0.48	E8
0.22	E8
0.34	E8
0.32	E8
0.35	E8
0.18	E8
0.002	E4

ARIZONA DEPARTMENT OF WATER RESOURCES

RECOVERY WELL PERMIT

FIRST MODIFIED

PERMIT NO. 74-584460.0001

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

This is to certify that I have examined Application No. 74-584460.0001 for a recovery well permit to recover water stored in a storage facility pursuant to a water storage permit, and I have determined that the application meets the requirements of Title 45, Chapter 3.1, Article 3, Arizona Revised Statutes. The Department hereby grants City of Phoenix authority to operate the recovery well(s) subject to the requirements and limitations set forth in A.R.S. § 45-834.01 and subject to the following limitations and conditions:

Permit Limitations

Permittee: City of Phoenix
200 W. Washington St, 14th Floor
Phoenix, AZ 85003

Permitted recovery well(s):

Well Registration Number	Location of Well (All located within GSRB&M)	Design Pump Capacity (GPM)	Well Depth (Feet)	Casing Diameter (Inches)	Maximum Annual Recovery (Acre Feet)
55-584460	NW¼ SW¼ SE¼ Sec. 17, TIN, R3E	2,500	200	18	4,031
55-593124	SW¼ NW¼ NW¼ Sec. 22, T1N, R3E	2,500	377	18	3,225
55-593125	SW¼ SW¼ NW¼ Sec. 22, T1N, R3E	2,500	372	18	3,225
55-593126	NW¼ NW¼ NW¼ Sec. 20, T1N, R3E	2,500	373	18	3,710
55-593127	SE¼ SE¼ NE¼ Sec. 19, T1N, R3E	2,500	370	18	4,031

Recovered water will be used for: Municipal and Industrial purposes

Legal description of the land on which recovered water will be used: Within the City of Phoenix water service area

Effective Date: May 9, 2005

Permit Conditions

1. In accordance with A.R.S. § 45-875.01(D), an annual report shall be submitted no later than March 31 following the end of each completed annual reporting period. The first annual reporting period shall be from the effective date of this permit through December 31, 2005. Subsequent annual reporting periods shall be January 1 through December 31.

2. The annual report shall include the following information:

   a. The well registration number and location of the wells used to recover stored water.

   b. For each recovery well from which stored water was recovered during the year, the quantity of stored water recovered from the well, as measured in a manner consistent with the requirements and specifications for water measuring devices adopted pursuant to A.R.S. § 45-872.01; the Water Storage Permit Number(s) from which the water storage originated; the amount of recovery (in acre feet) attributed to each Water Storage Permit; the amount and source of stored water recovered on an annual basis; and the amount and source of stored water recovered from a long-term storage account.

c. For each recovery well from which water was recovered during the year, whether recovery occurred inside or outside the area of impact of the stored water.

3. Total withdrawals from the wells referenced below, including all production and recovery, shall not exceed the following specified annual volume limits:

Well Registration Number(s)	Acre Feet per Annum Limit
55-584460	4,031
55-593124	3,225
55-593125	3,225
55-593126	3,710
55-593127	4,031

4. Recovery of stored water shall be consistent with the management plan and achievement of the management goal for the Phoenix Active Management Area for the duration of this permit.

Well nos. 55-584460, 55-593124, 55-593125, 55-593126, and 55-593127 are currently located in an area experiencing an average annual decline rate greater than 4 feet per year. Therefore, these wells are not consistent with the current management plan and goal and may only recover from within the area of impact of the stored water.

5. Permittee may only recover the following:

a. Water stored by permittee in the Phoenix AMA pursuant to permittee's Water Storage Permit No.73-572386.0001 and Condition 5 of Groundwater Savings Facility Permit No. 72-572386.0001, which lists the criteria that must be met to determine the area of impact of water storage on an annual basis. In the future, if well nos. 55-584460, 55-593124, 55-593125, 55-593126, and 55-593127 are determined to meet consistency with the management plan and goal of the Phoenix AMA, then permittee may recover from outside the area of impact of the water storage pursuant to permittee's water storage permits, or

b. Long-term storage credits originating from water stored by another person pursuant to a water storage permit in the Phoenix AMA, that have been assigned to permittee's long-term storage account pursuant to A.R.S. § 45-854.01, subject to condition 5.a.

6. If ownership of the wells listed above changes at any time after the permittee has applied for this recovery well permit, the permittee shall submit to the Department written consent from the new well owner or other documentation that the permittee may legally continue to operate the well as its recovery well.

WITNESS my hand and seal of office this 9th day of May, 2005.

Mark Frank

Mark Frank, Acting Assistant Director

RECEIVED
MAY - 5 2005
PHOENIX AMA

Appealable Agency Action Waiver

I, Dana Stolkefus, duly authorized by the Applicant for Recovery Well Permit, assert that the Applicant has reviewed the Final Appealable Draft Permit of Application No. 74-584460.0001 and hereby waives all rights that the Applicant may have pursuant to Arizona Revised Statutes, Title 41, Chapter 6, Article 10, and Title 45, Chapter 3.1, Article 5, to administrative and judicial appeal, review or hearing concerning the issuance of the above listed Permit, including all limitations and conditions contained therein.

Signature

5/2/05
Date

Environmental Programs Specialist
Title

ARIZONA DEPARTMENT OF WATER RESOURCES
500 North Third Street, Phoenix, Arizona 85004
Telephone 602 417-2465
Fax 602 417-2467

JANET NAPOLITANO
Governor

HERB GUENTHER
Director

May 9, 2005

Mr. Donn Stoltzfus
City of Phoenix
200 W Washington Street, 14th Floor
Phoenix AZ 85003

Re: City of Phoenix, Recovery Well Permit No. 74-584460.0001.

Dear Mr. Stoltzfus:

Enclosed is the signed recovery well permit No. 74-584460.0001 for the City of Phoenix.

Please contact me at (602) 417-2465 with any additional questions.

Sincerely,

Stella Murillo

Stella Murillo
Recharge Coordinator

Enclosures

cc: Lisa Gregory, Phoenix AMA
Gregg Houtz, Legal
Gary Gin, URS Corp

Audubon | ARIZONA

Nina Mason Pulliam Rio Salado
Audubon Center
3131 S Central Avenue
Phoenix, AZ 85040
Tel: 602-468-6470

August 14, 2018

Arizona Water Protection Fund Commission
1110 W. Washington Street
Suite 310
Phoenix, Arizona 85007

RE: Rio Salado Habitat Restoration Area Arizona Water Protection Fund Application

Arizona Water Protection Fund Commission –

I am writing in support of the Rio Salado Habitat Restoration Area's FY2019 Arizona Water Protection Fund application.

The City of Phoenix's Rio Salado Habitat Restoration Area (RSHRA) is critical to Audubon Arizona's mission of protecting birds and the places they live through science, education, advocacy, and on-the-ground conservation action. Situated at the center of the RSHRA, the Nina Mason Pulliam Rio Salado Audubon Center, our state office and education center, works in collaboration with city staff to connect over 10,000 visitors with this mission annually.

Prior to the restoration, the Salt River between 19th Avenue and 24th Street supported only 25 species of birds. Today, it boasts over 200 species, six miles of trails, and growing riparian and wetland habitat. This makes the RSHRA an ideal location to engage a primarily urban audience with conservation and the outdoors.

Arizona Water Protection Fund would enhance Audubon Arizona and the RSHRA's capacity to achieve our shared goals in three primary ways.

First, this funding would directly benefit the birds and other wildlife in the park. For example, the removal of invasive vegetation from the low-flow channel and the park's wetland ponds would benefit the federally endangered Yuma Ridgway's Rail by increasing the amount of available habitat within the RSHRA. In addition, the removal of invasive vegetation including tamarisk from the adjacent habitat would benefit this species by decreasing predation risk. While this species has not been detected within the RSHRA, detections have occurred downstream at the City of Phoenix's Tres Rios Wetlands. It is our hope that the proposed habitat improvements would encourage this species to expand into the park.

Another species that would benefit from this work is the federally threatened Western Yellow-billed Cuckoo. During the last two summers, this species has been detected migrating through the RSHRA, but the data does not support confirmation of breeding status. Removal of invasive species such as tamarisk would increase the available space for riparian forest, the favored breeding habitat for this bird.

Audubon | ARIZONA

Nina Mason Pulliam Rio Salado Audubon Center
3131 S Central Avenue
Phoenix, AZ 85040
Tel: 602-468-6470

The second way this funding would benefit the RSHRA is by increasing the park's usefulness in increasing the public's knowledge of the function and value of riparian areas and increasing their knowledge of and engagement with water policy issues that affect these areas. One reason for this is that the RHSRA is the outdoor classroom that make our education programs possible. For example, our River Pathways program, an experience that reaches over 1,000 local high school students annually, seeks to educate about Arizona's riparian areas, motivate students toward conservation action, and set them on a path towards careers in conservation and land management. For many students in this program, their visit to the RSHRA is their first trip to one of Arizona's rivers, and their positive, inspiring experience depends on a lush, healthy habitat in which to explore and learn. As an easily accessed example of Arizona's riparian areas, the RSHRA also helps us recruit members for our Western Rivers Action Network, a coalition of over 40,000 members across the Colorado River Basin dedicated to protecting flowing rivers through policy action. In addition, projects such as the ones proposed allow us to engage Audubon volunteers in on-the-ground work. For this reason, Audubon is committed to annually providing roughly 40 volunteers for 4 hours during one of our monthly Conservation Workdays. Not only will this allow us to engage our participants with this opportunity and the birds and habitats it benefits, but it also allows us to provide $11,850 in volunteer match over the first three years of this work.

The third way this funding would enhance Audubon and the RSHRA's ability to fulfill our mission is by maintaining the park's reputation as an innovative, successful example of urban riparian restoration. As evidenced by the placement of our state office within the park and the South Phoenix community, Audubon believes that for conservation to be successful, urban and natural areas must not remain separate, but rather exist side by side. The RSHRA is a wonderful example of how, through partnerships, dedication, and science-based management, urban examples of natural habitats can benefit both wildlife and human communities. By maintaining and enhancing the RSHRA through the proposed work, the park will continue to be an example for cities across the country – allowing Audubon Arizona to help protect birds and the places they live well beyond our state boundaries.

We are continually grateful for our partnership with the City of Phoenix and the Rio Salado Habitat Restoration Area. Thank you for considering providing Arizona Water Protection Fund support for our valuable work.

Sincerely,

Steven Prager

Important Bird Areas Program Associate
Audubon Arizona
602.468.6470 x122
sprager@audubon.org

phoenixzoo
ARIZONA CENTER *for* NATURE CONSERVATION

8/24/2018

Water Protection Fund
1110 W. Washington Street, Suite 130
Phoenix, Arizona 85007

Dear Reuben Teran, Executive Director,

I am writing in support of the City of Phoenix, Rio Salado Habitat Restoration Area, whom are applying for financial assistance to reduce the pressures from numerous invasive plants. Our research efforts are a partnership between Arizona Center for Nature Conservation (ACNC) and Arizona State University (ASU), together with the City of Phoenix as land managers. Myself and my research team have been working closely with the City of Phoenix to implement a wildlife monitoring network, and it is obvious that there is an urgent need to reclaim the habitat features which have been lost as invasive plants such as Tamarisk, *Arundo donax* (Giant Reed) and other species dominate the landscape.

The Salt River is one of the most threatened urban rivers in the Southwest, not only due to water volume declines and lack of natural flow regimes, but because it has transitioned from a desert riparian environment to an altered ecosystem dominated by plants which completely change the ecology of other native species – including many vertebrates such as migratory waterfowl, shore birds, beaver, otter and other species that rely on aquatic ecosystems to thrive. The City of Phoenix is seeking resources to aid in the removal of invasive species such as tamarisk, giant reed and buffel grass, erosion mitigation and stormwater bilingual signage placement at key visible outfalls – all of which have been identified as priorities for native species conservation and for restoration of the native habitat – which is their mission.

Not only would the removal of these invasive elements benefit the ecosystem, but it would also allow us to qualify and quantify restoration efforts as part of our monitoring strategy. We currently contribute many hours on the ground, plus research equipment, project oversight, etc. – which we would like to continue but also increase in treated areas. Our contributions of time and resources would be a match to any resources received for mitigation. Including the value of the cameras-traps and other equipment and salaries this would be approximately $10,000 per year we could match.

phoenixzoo
ARIZONA CENTER for NATURE CONSERVATION

The funding request from the City of Phoenix is very much in line with your objectives. It will provide measurable benefits to water resources, be a highly visible example and demonstration of best practices for restoration, allow us to help the City advance the science of water and reciprocal species conservation knowledge and increase public awareness by providing access to information for underserved portion of the population. If awarded, we would conduct a before-and-after study using camera-traps and other monitoring equipment to quantify the results. This these resources would also greatly contribute to our partnership and collaborations.

Sincerely,

Jan Schipper, PhD

Field Conservation Research Director
Arizona Center for Nature Conservation
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Liberty Wildlife

Conservation / Education / Rehabilitation / Sustainability

August 23, 2018

Reuben Teran, Executive Director
Water Protection Fund
1110 W. Washington Street, Suite 130
Phoenix, AZ 85007

Dear Mr. Teran,

I am writing in support of the City of Phoenix's application for Arizona Water Protection Fund (AWPF) monies. As an environmental organization whose facility is located in the Rio Salado Restoration Area (RSHRA), we see great benefits from the clearing of the low flow channel of invasives to improve the waterfowl and marsh bird habitats. We are aware of the possibility that improving habitat for some targeted wildlife will, ultimately, make the habitat more conducive to many other native species.

As a wildlife rehabilitation organization, we recognize the importance of a healthy habitat not only to wildlife but also to the public who will be able to enjoy a renewed space for both the public and wildlife utilization. Over the years, Liberty Wildlife has rehabilitated hundreds of thousands of native species with over 160 species in a year. The presence of healthy habitat makes sense.

We, traditionally, rehabilitate and release many different duck species and have used the river outside our facility as a soft release site for mallards by the hundreds; grebes (western, eared), Canada geese, loons, moorhens, wood ducks, Muscovy ducks, merganzers, ruddy ducks, buffleheads, common goldeneyes, red heads, canvas backs, ring necked, teals, wigeons, Caspian terns, bitterns (American and least). Riparian and desert raptors include; bald eagles and black hawks., Southwestern wading birds include; herons, cranes, egrets appropriate to the southwest and riparian songbirds including yellow billed- cuckoos. Our end of the year reports to the U.S. Fish and Wildlife Service and Arizona Game and Fish list specifics from each year since 1981. Numbers vary year to year.

Not only do we rehabilitate and release hundreds of avian species we also rehabilitate and release a number of small mammals including coyote, fox, badger, cottontail and jack rabbits, javelina, raccoon, skunks, ringtail cats, rock squirrels, round tail ground squirrels, antelope ground squirrel, kangaroo rats, and desert packrats.

Not reported on our annual report is the list of native reptiles that we have rehabilitated and released over the years including the following: chuckwallas, native gecko, collard lizard, French toed lizard, woodhouse toad, desert tortoise, tiger salamander, Gila monster, desert iquana, diamondback rattlesnake, gopher snakes, king snake, milk snake, red racers, night snakes, garter snakes, Sonoran mud turtles.

When we can and when it is appropriate releasing our rehabilitated wildlife In the RSHRA is a definite possibility and will be done as often as we feel the habitat can support them. For that reason we applaud the improvement of the quality of the habitat through the removal of invasive species both flora and herpetofauna. We will not under any circumstances release non-native wildlife in the area.

I would also like to mention the fact that we utilize the Rio Salado in our educational programming with students of all ages stressing the importance of a desert river. It is our goal to showcase how important this jewel that flows through our desert community is to us as it was to early inhabitants of the area. Any improvement to the water conservation tactics that can be brought to the attention of the public who must, in the end, support it is not only beneficial, but also necessary for long-term impact.

We would like to reiterate our support of this application by the City of Phoenix.

Sincerely,

Megan Mosby
Executive Director
Liberty Wildlife, Inc.
2600 E. Elwood St.
Phoenix, AZ 85040