ARTICLE 2. WATER QUALITY STANDARDS FOR NON-WOTUS PROTECTED SURFACE WATERS

R18-11-201. Definitions

The following terms apply to this Article:

- 1. "Acute toxicity" means toxicity involving a stimulus severe enough to induce a rapid response. In aquatic toxicity tests, an effect observed in 96 hours or less is considered acute.
- 2. "Agricultural irrigation AZ (AgI AZ)" means the use of a non-WOTUS protected surface water for crop irrigation.
- 3. "Agricultural livestock watering AZ (AgL AZ)" means the use of a non-WOTUS protected surface water as a water supply for consumption by livestock.
- 4. "Aquatic and wildlife AZ (cold water) (A&Wc AZ)" means the use of a non-WOTUS protected surface water by animals, plants, or other cold-water organisms, generally occurring at an elevation greater than 5000 feet, for habitation, growth, or propagation.
- 5. "Aquatic and wildlife AZ (warm water) (A&Ww AZ)" means the use of a non-WOTUS protected surface water by animals, plants, or other warm-water organisms, generally occurring at an elevation less than 5000 feet, for habitation, growth, or propagation.
- 6. "Criteria" means elements of water quality standards expressed as pollutant concentrations, levels, or narrative statements representing a water quality that supports a designated use.
- 7. "Critical flow conditions of the discharge" means the hydrologically based discharge flow averages that the director uses to calculate and implement applicable water quality criteria to a mixing zone's receiving water as follows:
 - a. For acute aquatic water quality standard criteria, the discharge flow critical condition is represented by the maximum one-day average flow analyzed over a reasonably representative timeframe.
 - b. For chronic aquatic water quality standard criteria, the discharge flow critical flow condition is represented by the maximum monthly average flow analyzed over a reasonably representative timeframe.
 - c. For human health-based water quality standard criteria, the discharge flow critical condition is the long-term arithmetic mean flow, averaged over several years so as to simulate long-term exposure.
- 8. "Critical flow conditions of the receiving water" means the hydrologically based receiving water low flow averages that the director uses to calculate and implement applicable water quality criteria:
 - a. For acute aquatic water quality standard criteria, the receiving water critical condition is represented as the lowest one-day average flow event expected to occur once every ten years, on average (1Q10).
 - b. For chronic aquatic water quality standard criteria, the receiving water critical flow condition is represented as the lowest seven-consecutive-day average flow expected to occur once every 10 years, on average (7O10), or
 - c. For human health-based water quality standard criteria, in order to simulate long-term exposure, the receiving water critical flow condition is the harmonic mean flow.
- 9. "Designated use" means a use specified on the Protected Surface Waters List for a non-WOTUS protected surface water.
- 10. "Domestic water source AZ (DWS AZ)" means the use of a non-WOTUS protected surface water as a source of potable water.
- 11. "Fish consumption AZ (FC AZ)" means the use of a non-WOTUS protected surface water by humans for harvesting aquatic organisms for consumption. Harvestable aquatic organisms include, but are not limited to, fish, clams, turtles, crayfish, and frogs.
- 12. "Full-body contact AZ (FBC AZ)" means the use of a non-WOTUS protected surface water for swimming or other recreational activity that causes the human body to come into direct contact with the water to the

- point of complete submergence. The use is such that ingestion of the water is likely, and sensitive body organs, such as the eyes, ears, or nose, may be exposed to direct contact with the water.
- 13. "Geometric mean" means the nth root of the product of n items or values. The geometric mean is calculated using the following formula:

$$GM_Y = \sqrt[n]{(Y_1)(Y_2)(Y_3)^{1/4}(Y_n)}$$

- 14. "Hardness" means the sum of the calcium and magnesium concentrations, expressed as calcium carbonate (CaCO3) in milligrams per liter.
- 15. "Non-WOTUS protected surface water" means a protected surface water that is not a WOTUS.
- 16. "Partial-body contact AZ (PBC AZ)" means the recreational use of a non-WOTUS protected surface water that may cause the human body to come into direct contact with the water, but normally not to the point of complete submergence (for example, wading or boating). The use is such that ingestion of the water is not likely and, sensitive body organs, such as the eyes, ears, or nose, will not normally be exposed to direct contact with the water.
- 17. "Pollutant" means fluids, contaminants, toxic wastes, toxic pollutants, dredged spoil, solid waste, substances and chemicals, pesticides, herbicides, fertilizers and other agricultural chemicals, incinerator residue, sewage, garbage, sewage sludge, munitions, petroleum products, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and mining, industrial, municipal, and agricultural wastes or any other liquid, solid, gaseous, or hazardous substance.
- 18. "Practical quantitation limit" means the lowest level of quantitative measurement that can be reliably achieved during a routine laboratory operation.
- 19. "Recharge Project" means a facility necessary or convenient to obtain, divert, withdraw, transport, exchange, deliver, treat, or store water to infiltrate or reintroduce that water into the ground.
- 20. "Toxic" means a pollutant or combination of pollutants, that after discharge and upon exposure, ingestion, inhalation, or assimilation into an organism, either directly from the environment or indirectly by ingestion through food chains, may cause death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions (including malfunctions in reproduction), or physical deformations in the organism or its offspring.
- 21. "Urban lake" means a manmade lake within an urban landscape.
- 22. "Wetland" means, for the purposes of non-WOTUS protected surface waters, an area that is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances does support, a prevalence of vegetation typically adapted for life in saturated soil conditions.
- 23. "WOTUS" means waters of the state that are also navigable waters as defined by Section 502(7) of the Clean Water Act.
- 24. "WOTUS protected surface water" means a protected surface water that is a WOTUS.

R18-11-202. Applicability

- A. The water quality standards prescribed in this Article apply to non-WOTUS protected surface waters.
- B. The water quality standards prescribed in this Article do not apply to the following:
 - 1. A waste treatment system, including an impoundment, pond, lagoon, or constructed wetland that is part of the waste treatment system;
 - 2. A man-made surface impoundment and any associated ditch and conveyance used in the extraction, beneficiation, or processing of metallic ores including:
 - a. A pit,
 - b. Pregnant leach solution pond
 - c. Raffinate pond.
 - d. Tailing impoundment,
 - e. Decant pond,
 - f. Pond or a sump in a mine put associated with dewatering activity,

- g. Pond holding water that has come into contact with a process or product that is being held for recycling.
- h. Spill or catchment pond, or
- i. A pond used for onsite remediation
- 3. A man-made cooling pond that is neither created in a surface water nor results from the impoundment of a surface water; or
- 4. A surface water located on tribal lands.
- 5. WOTUS Protected Surface Waters

R18-11-203. Designated Uses for Non-WOTUS Protected Surface Waters

- A. The designated uses for specific non-WOTUS protected surface waters are listed in the Protected Surface

 Waters List in this article. The designated uses that may be assigned to a non-WOTUS protected surface water are:
 - 1. Full-body contact AZ,
 - 2. Partial-body contact AZ,
 - 3. Domestic water source AZ,
 - 4. Fish consumption AZ,
 - 5. Aquatic and wildlife AZ (cold water).
 - 6. Aquatic and wildlife AZ (warm water),
 - 7. Agricultural irrigation AZ, and
 - 8. Agricultural livestock watering AZ.
- B. Numeric water quality criteria to maintain and protect water quality for the designated uses assigned to non-WOTUS protected surface waters are prescribed in R18-11-213. Narrative water quality standards to protect non-WOTUS protected surface waters are prescribed in R18-11-212.
- C. If a non-WOTUS protected surface water has more than one designated use listed in the Protected Surface Waters List, the most stringent water quality criterion applies.
- D. The Director shall revise the designated uses of a non-WOTUS protected surface water if water quality improvements result in a level of water quality that permits a use that is not currently listed as a designated use in the Protected Surface Waters List.
- E. The Director may remove a designated use or adopt a subcategory of a designated use that requires less stringent water quality criteria through a rulemaking action for any of the following reasons:
 - 1. A naturally-occurring pollutant concentration prevents the attainment of the use;
 - 2. A human-caused condition or source of pollution prevents the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place;
 - 3. A dam, diversion, or other type of hydrologic modification precludes the attainment of the use, and it is not feasible to restore the non-WOTUS protected surface water to its original condition or to operate the modification in a way that would result in attainment of the use;
 - 4. A physical condition related to the natural features of the surface water, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, precludes attainment of an aquatic life designated use.

R18-11-204. Interim, Presumptive Designated Uses

- A. The following water quality standards apply to a non-WOTUS protected surface water that is not listed on the Protected Surface Waters List but is added on an emergency basis pursuant to A.R.S. § 49-221(G)(7):
 - 1. The aquatic and wildlife AZ (cold water use applies to a non-WOTUS protected surface water above 5000 feet in elevation;
 - 2. The aquatic and wildlife AZ (warm water) applies to a non-WOTUS protected surface water below 5000 feet in elevation:
 - 3. The full-body contact AZ use applies to a non-WOTUS protected surface water if the Director makes a determination that the non-WOTUS protected surface water is used by humans for swimming or other recreational activity that causes the human body to come into direct contact with the water to the point of

- complete submergence. The use is such that ingestion of the water is likely and sensitive body organs, such as the eyes, ears, or nose, may be exposed to direct contact with the water.
- 4. The partial-body contact AZ use applies to a non-WOTUS protected surface water if the Director makes a determination that the non-WOTUS protected surface water is used by humans in a way that may cause the human body to come into direct contact with the water, but normally not to the point of complete submergence (for example, wading or boating). The use is such that ingestion of the water is not likely and sensitive body organs, such as the eyes, ears, or nose, will not normally be exposed to direct contact with the water.
- 5. The fish consumption AZ use applies to a non-WOTUS protected surface water if the Director makes a determination that the non-WOTUS protected surface water is used by humans for harvesting aquatic organisms for consumption. Harvestable aquatic organisms include, but are not limited to, fish, clams, turtles, crayfish, and frogs.
- 6. The domestic water source AZ use applies to a non-WOTUS protected surface water if the Director makes a determination that the non-WOTUS protected surface water is used by humans as a source of potable water.
- 7. The agricultural irrigation AZ use applies to a non-WOTUS protected surface water if the Director makes a determination that the non-WOTUS protected surface water is used for crop irrigation.
- 8. The agricultural livestock watering AZ use applies to any non-WOTUS protected surface water if the

 Director makes a determination that the non-WOTUS protected surface water is used as a water supply for consumption by livestock.

R18-11-205. Analytical Methods

- A. A person conducting an analysis of a sample taken to determine compliance with a water quality standard shall use an analytical method prescribed in A.A.C. R9-14-610 or an alternative method approved under A.A.C. R9-14-610(C).
- B. A test result from a sample taken to determine compliance with a water quality standard is valid only if the sample is analyzed by a laboratory that is licensed by the Arizona Department of Health Services, an out-of-state laboratory licensed under A.R.S. § 36-495.14, or a laboratory exempted under A.R.S. § 36-495.02, for the analysis performed.

R18-11-206. Mixing Zones

- A. The Director may establish a mixing zone for a point source discharge to a non-WOTUS protected surface water as a condition of an individual AZPDES permit on a pollutant-by-pollutant basis. A mixing zone is prohibited where there is no water for dilution, or as prohibited pursuant to subsection (H).
- B. The owner or operator of a point source seeking the establishment of a mixing zone shall submit a request to the Director for a mixing zone as part of an application for an AZPDES permit. The request shall include:
 - 1. An identification of the pollutant for which the mixing zone is requested;
 - 2. A proposed outfall design;
 - 3. A definition of the boundary of the proposed mixing zone. For purposes of this subsection, the boundary of a mixing zone is where complete mixing occurs; and
 - 4. A complete and detailed description of the existing physical, biological, and chemical conditions of the receiving water and the predicted impact of the proposed mixing zone on those conditions. The description shall also address the factors listed in subsection (D) that the Director must consider when deciding to grant or deny a request and shall address the mixing zone requirements in subsection (H).
- C. The Director shall consider the following factors when deciding whether to grant or deny a request for a mixing zone:
 - 1. The assimilative capacity of the receiving water;
 - 2. The likelihood of adverse human health effects:
 - 3. The location of drinking water plant intakes and public swimming areas;
 - 4. The predicted exposure of biota and the likelihood that resident biota will be adversely affected;
 - 5. Bioaccumulation;

- 6. Whether there will be acute toxicity in the mixing zone, and, if so, the size of the zone of initial dilution;
- 7. The known or predicted safe exposure levels for the pollutant for which the mixing zone is requested;
- 8. The size of the mixing zone;
- 9. The location of the mixing zone relative to biologically sensitive areas in the surface water;
- 10. The concentration gradient of the pollutant within the mixing zone;
- 11. Sediment deposition;
- 12. The potential for attracting aquatic life to the mixing zone; and
- 13. The cumulative impacts of other mixing zones and other discharges to the surface water.
- D. Director determination.
 - 1. The Director shall deny a request to establish a mixing zone if an applicable water quality standard will be violated outside the boundaries of the proposed mixing zone.
 - 2. If the Director approves the request to establish a mixing zone, the Director shall establish the mixing zone as a condition of an AZPDES permit. The Director shall include any mixing zone condition in the AZPDES permit that is necessary to protect human health and the designated uses of the surface water.
- E. Any person who is adversely affected by the Director's decision to grant or deny a request for a mixing zone may appeal the decision under A.R.S. § 49-321 et seq. and A.R.S. § 41-1092 et seq.
- F. The Director shall reevaluate a mixing zone upon issuance, reissuance, or modification of the AZPDES permit for the point source or a modification of the outfall structure.
- G. Mixing zone requirements.
 - 1. A mixing zone shall be as small as practicable in that it shall not extend beyond the point in the waterbody at which complete mixing occurs under the critical flow conditions of the discharge and of the receiving water.
 - 2. The total horizontal area allocated to all mixing zones on a lake shall not exceed 10 percent of the surface area of the lake.
 - 3. Adjacent mixing zones in a lake shall not overlap or be located closer together than the greatest horizontal dimension of the largest mixing zone.
 - 4. The design of any discharge outfall shall maximize initial dilution of the wastewater in a surface water.
 - 5. The size of the zone of initial dilution in a mixing zone shall prevent lethality to organisms passing through the zone of initial dilution. The mixing zone shall prevent acute toxicity and lethality to organisms passing through the mixing zone.
- H. The Director shall not establish a mixing zone in an AZPDES permit for the following persistent,

bioaccumulative pollutants:

- Chlordane,
- 2. DDT and its metabolites (DDD and DDE).
- 3. Dieldrin,
- 4. <u>Dioxin.</u>
- 5. Endrin,
- 6. Endrin aldehyde,
- 7. Heptachlor.
- 8. Heptachlor epoxide,
- 9. Lindane,
- 10. Mercury,
- 11. Polychlorinated biphenyls (PCBs), and
- 12. Toxaphene.

R18-11-207. Natural background

Where the concentration of a pollutant exceeds a water quality standard and the exceedance is caused solely by naturally-occurring conditions, the exceedance shall not be considered a violation of the water quality standard.

R18-11-208. Schedules of Compliance

A compliance schedule in an AZPDES permit shall require the permittee to comply with a discharge limitation based upon a new or revised water quality standard as soon as possible to achieve compliance. The permittee shall demonstrate that the point source cannot comply with a discharge limitation based upon the new or revised water quality standard through the application of existing water pollution control technology, operational changes, or source reduction. In establishing a compliance schedule, the Director shall consider:

- 1. How much time the permittee has already had to meet any effluent limitations under a prior permit;
- 2. The extent to which the permittee has made good faith efforts to comply with the effluent limitations and other requirements in a prior permit:
- 3. Whether treatment facilities, operations, or measures must be modified to meet the effluent limitations:
- 4. How long any necessary modifications would take to implement; and
- 5. Whether the permittee would be expected to use the same treatment facilities, operations or other measures to meet the effluent limitations as it would have used to meet the effluent limitations in a prior permit.

R18-11-209. Enforcement of Non-permitted Discharges to Non-WOTUS Protected Surface Waters

- A. The Department may establish a numeric water quality standard at a concentration that is below the practical quantitation limit. Therefore, in enforcement actions pursuant to subsection (B), the water quality standard is enforceable at the practical quantitation limit.
- B. Except for chronic aquatic and wildlife criteria, for non-permitted discharge violations, the Department shall determine compliance with numeric water quality standard criteria from the analytical result of a single sample, unless additional samples are required under this article. For chronic aquatic and wildlife criteria, compliance for non-permitted discharge violations shall be determined from the geometric mean of the analytical results of the last four samples taken at least 24 hours apart. For the purposes of this Section, a "non-permitted discharge violation" does not include a discharge regulated under an AZPDES permit.

R18-11-210. Statements of Intent and Limitations on the Reach of Article 2

- A. Nothing in this Article prohibits fisheries management activities by the Arizona Game and Fish Department or the U.S. Fish and Wildlife Service. This Article does not exempt fish hatcheries from AZPDES permit requirements
- B. Nothing in this Article prevents the routine physical or mechanical maintenance of canals, drains, and the urban lakes identified on the Protected Surface Waters List. Physical or mechanical maintenance includes dewatering, lining, dredging, and the physical, biological, or chemical control of weeds and algae. Increases in turbidity that result from physical or mechanical maintenance activities are permitted in canals, drains, and the urban lakes identified on the Protected Surface Waters List.
- C. Increases in turbidity that result from the routine physical or mechanical maintenance of a dam or flood control structure are not violations of this Article.
- D. Nothing in this Article requires the release of water from a dam or a flood control structure.

R18-11-211. Procedures for Determining Economic, Social, and Environmental Cost and Benefits.

- A. The Director shall perform an economic, social, and environmental cost and benefits analysis that shows the benefits outweigh the costs before conducting any of the following rulemaking actions:
 - 1. Adopting a water quality standard that applies to non-WOTUS protected surface waters at a particular level or for a particular water category of non-WOTUS protected surface waters;
 - 2. Adding a non-WOTUS protected surface water to the Protected Surface Waters List when the conditions of A.R.S. § 49-221(G)(4) apply; or
 - 3. Removing a non-WOTUS protected surface water from the Protected Surface Waters List when the conditions of A.R.S. § 49-221(G)(6) apply.
- B. The economic, social, and environmental cost and benefit analysis must include:
 - 1. A justification of the valuation methodology used to quantify the costs or benefits of the rulemaking action;

- 2. A reference to any study relevant to the economic, social, and environmental cost and benefit analysis that the agency reviewed and proposes either to rely on or not to rely on in its evaluation of the costs and benefits of the rulemaking action;
- 3. A description of any data on which an economic, social, and environmental cost and benefits analysis is based and an explanation of how the data was obtained and why the data is acceptable data.
- 4. A description of the probable impact of the rulemaking on any existing AZPDES permits that are impacted by the rulemaking action;
- 5. A description of the probable amount of additional AZPDES permits that will be required for known and ongoing point-source discharges after the rulemaking is completed that otherwise would not have been required if the Director did not undertake the rulemaking action; and
- 6. The administrative and other costs to ADEO associated with the proposed rulemaking.
- C. The Director shall publish a copy of the economic, social, and environmental cost and benefits analysis to the agency website prior to filing any rulemaking materials during any of the rulemaking actions listed in subsection A of this rule.
- D. If for any reason enough data is not reasonably available to comply with the requirements of subsection B of this section, the agency shall explain the limitations of the data and the methods that were employed in the attempt to obtain the data and shall characterize the probable impacts in qualitative terms.
- E. The Director is not required to prepare the economic, social, and environmental cost and benefits analysis required by this rule when:
 - 1. Adding or removing a WOTUS-protected surface water from the Protected Surface Waters List; or
 - 2. Adding a water to the Protected Surface Waters List on an emergency basis pursuant to A.R.S. § 49-221(G)(7).

R18-11-212. Narrative Water Quality Standards for Non-WOTUS Protected Surface Waters

- A. A non-WOTUS protected surface water shall not contain pollutants in amounts or combinations that:
 - 1. Settle to form bottom deposits that inhibit or prohibit the habitation, growth, or propagation of aquatic life;
 - 2. Cause objectionable odor in the area in which the non-WOTUS protected surface water is located:
 - 3. Cause off-taste or odor in drinking water;
 - 4. Cause off-flavor in aquatic organisms;
 - 5. Are toxic to humans, animals, plants, or other organisms;
 - 6. Cause the growth of algae or aquatic plants that inhibit or prohibit the habitation, growth, or propagation of other aquatic life or that impair recreational uses;
 - 7. Cause or contribute to a violation of an aquifer water quality standard prescribed in R18-11-405 or R18-11-406; or
 - 8. Change the color of the non-WOTUS protected surface water from natural background levels of color.
- B. A non-WOTUS protected surface water shall not contain oil, grease, or any other pollutant that floats as debris, foam, or scum; or that causes a film or iridescent appearance on the surface of the water; or that causes a deposit on a shoreline, bank, or aquatic vegetation. The discharge of lubricating oil or gasoline associated with the normal operation of a recreational watercraft is not a violation of this narrative standard
- C. A non-WOTUS protected surface water shall not contain a discharge of suspended solids in quantities or concentrations that interfere with the treatment processes at the nearest downstream potable water treatment plant or substantially increase the cost of handling solids produced at the nearest downstream potable water treatment plant.

R18-11-213. Numeric Water Quality Standards for Non-WOTUS Protected Surface Waters

A. E. coli bacteria. The following water quality standards for Escherichia coli (E. coli) are expressed in colony-forming units per 100 milliliters of water (cfu / 100 ml) or as a Most Probable Number (MPN):

E. coli	FBC AZ	PBC AZ
Geometric mean (minimum of four samples in 30 days)	<u>126</u>	<u>126</u>

Statistical threshold value	<u>410</u>	<u> 576</u>

B. pH. The following water quality standards for non-WOTUS protected surface waters pH are expressed in standard units:

pН	DWS AZ	FBC AZ, PBC AZ, A&Ww AZ, A&Wc AZ	AgI AZ	<u>AgL</u> <u>AZ</u>
<u>Maximum</u>	<u>9.0</u>	<u>9.0</u>	<u>9.0</u>	<u>9.0</u>
Minimum	<u>5.0</u>	<u>6.5</u>	<u>4.5</u>	<u>6.5</u>

C. The maximum allowable increase in ambient water temperature, due to a thermal discharge is as follows:

A&Ww AZ	A&Wc AZ
3.0° C	<u>1.0° C</u>

- D. Suspended sediment concentration.
 - 1. The following water quality standards for suspended sediment concentration, expressed in milligrams per liter (mg/L), are expressed as a median value determined from a minimum of four samples collected at least seven days apart:
 - 2. The Director shall not use the results of a suspended sediment concentration sample collected during or within 48 hours after a local storm event to determine the median value.

A&Wc AZ	A&Ww AZ
<u>25</u>	80

- E. Dissolved oxygen. A non-WOTUS protected surface water meets the water quality standard for dissolved oxygen when either:
 - 1. The percent saturation of dissolved oxygen is equal to or greater than 90 percent, or
 - 2. The single sample minimum concentration for the designated use, as expressed in milligrams per liter (mg/L) is as follows:

Designated Use	Single sample minimum concentration in mg/L
A&Ww AZ	<u>6.0</u>
A&Wc AZ	<u>7.0</u>

The single sample minimum concentration is the same for the designated use in a lake, but the sample must be taken from a depth no greater than one meter.

F. The tables in this subsection prescribe water quality criteria for individual pollutants by designated use:

Table 1. Water Quality Criteria by Designated Use (see footnote)

<u>Parameter</u>	CAS NUMBER	DWS AZ (µg/L)	FC AZ (µg/L)	FBC AZ (µg/L)	PBC AZ (µg/L)	A&Wc AZ Acute (µg/L)	A&Wc AZ Chronic (µg/L)	A&Ww AZ Acute (µg/L)	A&Ww AZ Chronic (µg/L)	Agl AZ (µg/L)	AgL AZ (µg/L)
Acenaphthene	83329	420	198	56,000	56,000	850	550	850	550		
Acrolein	107028	3.5	<u>1.9</u>	467	467	3	3	3	3		
Acrylonitrile	107131	0.06	0.2	3	37.333	3.800	250	3.800	250		
Alachlor	<u>15972608</u>	2		9.333	9.333	2,500	170	2,500	170		
Aldrin	309002	0.002	0.00005	0.08	28	3		3		0.003	See (b)
Alpha Particles (Gross)		15 pCi/L See									
Radioactivity		(h)									Ļ—
Ammonia	<u>7664417</u>					See (e) & Tables 11 (present) & 14 (absent)	See (e) & Tables 13 (present) & 17 (absent)	See (e) & Tables 12 (present) & 15 (absent)	See (e) & Tables 13 (present) & 16 (absent)		
<u>Anthracene</u>	<u>120127</u>	<u>2,100</u>	<u>74</u>	280,000	280,000						
Antimony	<u>7440360</u>	<u>6 T</u>	<u>640 T</u>	<u>747 T</u>	<u>747 T</u>	88 D	30 D	88 D	30 D		
Arsenic	7440382	<u>10 T</u>	80 T	30 T	280 T	340 D	150 D	340 D	150 D	2,000 T	200 T
Asbestos	1332214	See (a)									
<u>Atrazine</u>	<u>1912249</u>	3		32.667	32.667						
<u>Barium</u>	7440393	2,000 T		98,000	98,000						
Benz(a)anthracene	<u>56553</u>	0.005	0.02	0.2	0.2						
Benzene	71432	5	140	93	3,733	2,700	180	2,700	180		
Benzo[b]fluoranthene Benzfluoranthene	205992	0.005	0.02	1.9	1.9						
Benzidine	92875	0.0002	0.0002	0.01	2,800	1,300	<u>89</u>	1,300	89	0.01	0.01
Benzo(a)pyrene	50328	0.2	0.02	0.2	0.2						
Benzo(k)fluoranthene	207089	0.005	0.02	1.9	1.9						
Bervllium	7440417	<u>4 T</u>	84 I	1.867 T	1.867 T	65 D	5.3 D	65 D	5.3 D		
Beta particles and photon emitters		4 millirems /year See (i)									
Bis(2-chloroethyl) ether	111444	0.03	0.5	1	1	120.000	6.700	120.000	6.700		
Bis(2-chloroisopropyl) ether	108601	280	3.441	37,333	37,333						
Boron	7440428	1.400 T		<u>186.667</u> <u>T</u>	<u>186.667</u> <u>T</u>					1.000 T	
Bromodichloromethane	<u>75274</u>	TTHM See	17	<u>TTHM</u>	<u>18.667</u>						
4-Bromophenyl phenyl ether	<u>101553</u>					180	14	180	14		
Bromoform	<u>75252</u>	TTHM See (a)	133	<u>180</u>	18.667	15,000	10.000	15.000	10.000		
<u>Bromomethane</u>	74839	9.8	<u>299</u>	<u>1.307</u>	1.307	<u>5.500</u>	360	5.500	360		
Butyl benzyl phthalate	<u>85687</u>	1,400	<u>386</u>	186,667	186,667	<u>1,700</u>	130	<u>1,700</u>	130		
Cadmium	7440439	<u>5 T</u>	<u>84 T</u>	<u>700 T</u>	<u>700 T</u>	See Table 2	See Table 3	See Table 2	See Table 3	<u>50</u>	<u>50</u>
Carbaryl	63252					2.1	2.1	2.1	2.1		
Carbofuran	<u>1563662</u>	<u>40</u>		<u>4,667</u>	<u>4,667</u>	650	<u>50</u>	650	<u>50</u>		
Carbon tetrachloride	<u>56235</u>	<u>5</u>	2	11	980	<u>18.000</u>	1.100	18.000	1.100		
Chlordane	<u>57749</u>	2	0.0008	4	<u>467</u>	2.4	0.004	2.4	0.2		
Chlorine (total residual)	<u>7782505</u>	<u>4,000</u>		<u>4000</u>	<u>4000</u>	<u>19</u>	<u>11</u>	<u>19</u>	<u>11</u>		
Chlorobenzene	108907	100	1.553	<u>18.667</u>	<u>18.667</u>	3.800	260	3.800	260		<u> </u>
2-Chloroethyl vinyl ether	<u>110758</u>	ļ				<u>180,000</u>	9,800	<u>180,000</u>	9,800		<u> </u>
Chloroform	<u>67663</u>	TTHM See (a)	<u>470</u>	230	<u>9.333</u>	14.000	900	14.000	900		
p-Chloro-m-cresol	<u>59507</u>					<u>15</u>	<u>4.7</u>	<u>15</u>	<u>4.7</u>		
Chloromethane	<u>74873</u>					270.000	<u>15.000</u>	270.000	<u>15.000</u>		
<u>beta-Chloronaphthalene</u>	<u>91587</u>	<u>560</u>	<u>317</u>	<u>74.667</u>	<u>74.667</u>						
2-Chlorophenol	95578	35	30	4.667	4.667	2.200	150	2.200	<u>150</u>		<u> </u>
Chloropyrifos	<u>2921882</u>	<u>21</u>		2,800	<u>2,800</u>	0.08	0.04	0.08	0.04		
Chromium III	<u>16065831</u>		75.000 <u>T</u>	1.400.00 0 T	1.400.00 0 T	See (d) & Table 4					
Characterisma \/!	105 10000	04 T	150 T	2 000 =	2 000 7	16 D	11 D	16 D	11 D		
Chromium VI	<u>18540299</u>	21 I	<u>150 T</u>	2,800 T	2,800 T	<u>16 D</u>	<u>11 D</u>	<u>16 D</u>	<u>11 D</u>	4.000	4.000
Chromium (Total)	7440473	100 T	0.00	40	40					<u>1.000</u>	<u>1.000</u>
<u>Chrysene</u> <u>Copper</u>	218019 7440508	0.005 1,300 T	0.02	<u>19</u> <u>1,300 T</u>	<u>19</u> <u>1,300 T</u>	See (d) & Table 5	<u>5,000 T</u>	<u>500 T</u>			
Cyanide (as free cyanide)	<u>57125</u>	200 T	16,000	18,667 T	18,667 T	22 T	<u>5.2 T</u>	<u>41 T</u>	9.7 T		200 T

		1			1	ı			I		
<u>Dalapon</u>	<u>75990</u>	200	<u>8,000</u>	28,000	<u>28,000</u>						
DDT and its breakdown products	<u>50293</u>	0.1	0.0003	<u> 14</u>	<u>467</u>	1.1	<u>0.001</u>	1.1	0.001	0.001	<u>0.001</u>
<u>Demeton</u>	<u>8065483</u>						0.1		0.1		
Diazinon	333415					0.17	0.17	0.17	0.17		
Dibenz (ah) anthracene	53703	0.005	0.02	1.9	<u>1.9</u>						
Dibromochloromethane	124481	TTHM See	<u>13</u>	TTHM	18.667						
		<u>(a)</u>									
1.2-Dibromo-3-chloropro- pane	<u>96128</u>	0.2		2.800	2.800						
1.2-Dibromoethane	106934	0.05		8.400	8.400						
Dibutyl phthalate	<u>84742</u>	700	899	93,333	93,333	470	<u>35</u>	470	<u>35</u>		
1.2-Dichlorobenzene	95501	600	205	84,000	84.000	790	300	1.200	470		
1,3-Dichlorobenzene	<u>541731</u>					2,500	970	2,500	970		
1.4-Dichlorobenzene	106467	<u>75</u>	<u>5755</u>	373.333	373.333	<u>560</u>	210	2.000	<u>780</u>		
3,3'-Dichlorobenzidine	91941	0.08	0.03	3	3						
1.2-Dichloroethane	107062	5	37	<u>15</u>	186.667	59.000	41.000	59.000	41.000		
1,1-Dichloroethylene	<u>75354</u>	Z	7,143	46,667	46,667	15,000	950	15,000	950		
1,2-cis-Dichloroethylene	156592	<u>70</u>		<u>70</u>	<u>70</u>						
1.2-trans-Dichloroethylene	156605	100	10.127	18.667	18.667	<u>68.000</u>	3.900	68.000	3.900		
<u>Dichloromethane</u>	75092	<u>5</u>	<u>593</u>	<u>190</u>	56,000	97,000	5,500	97,000	5,500		
2.4-Dichlorophenol	120832	21	59	2.800	2.800	1.000	88	1.000	88		
2,4-Dichlorophenoxyacetic acid	94757	<u>70</u>		9,333	9,333						
(2,4-D)											
1.2-Dichloropropane	<u>78875</u>	<u>5</u>	<u>17.518</u>	84.000	84.000	26.000	9.200	26.000	9.200		
1,3-Dichloropropene	<u>542756</u>	<u>0.7</u>	<u>42</u>	<u>420</u>	<u>28,000</u>	3,000	<u>1,100</u>	3,000	<u>1,100</u>		
<u>Dieldrin</u>	<u>60571</u>	0.002	0.00005	0.09	<u>47</u>	0.2	0.06	0.2	0.06	0.003	See (b)
<u>Diethyl phthalate</u>	<u>84662</u>	<u>5,600</u>	<u>8,767</u>	746,667	<u>746,667</u>	<u>26,000</u>	<u>1,600</u>	<u>26,000</u>	<u>1,600</u>		
Di (2-ethylhexyl) adipate	<u>103231</u>	<u>400</u>		<u>560,000</u>	<u>560,000</u>						
Di (2-ethylhexyl) phthalate	<u>117817</u>	<u>6</u>	<u>3</u>	<u>100</u>	<u>18,667</u>	<u>400</u>	<u>360</u>	<u>400</u>	<u>360</u>		
2.4-Dimethylphenol	<u>105679</u>	<u>140</u>	<u>171</u>	<u>18,667</u>	<u>18,667</u>	<u>1,000</u>	<u>310</u>	1.000	310		
Dimethyl phthalate	<u>131113</u>					17.000	1.000	17.000	1.000		
4.6-Dinitro-o-cresol	<u>534521</u>	<u>28</u>	<u>582</u>	3,733	<u>3,733</u>	<u>310</u>	<u>24</u>	<u>310</u>	<u>24</u>		
2.4-Dinitrophenol	<u>51285</u>	14	1.067	1.867	<u>1.867</u>	110	9.2	110	9.2		
2,4-Dinitrotoluene	<u>121142</u>	<u>14</u>	<u>421</u>	<u>1,867</u>	<u>1,867</u>	<u>14,000</u>	<u>860</u>	14,000	<u>860</u>		
2.6-Dinitrotoluene	<u>606202</u>	0.05		2	3.733						
Di-n-octyl phthalate	<u>117840</u>	<u>2,800</u>		373,333	<u>373,333</u>						
<u>Dinoseb</u>	<u>88857</u>	Z		933	933						
1.2-Diphenylhydrazine	<u>122667</u>	0.04	0.2	<u>1.8</u>	<u>1.8</u>	130	11	130	11		
Diquat	<u>85007</u>	<u>20</u>		<u>2,053</u>	<u>2,053</u>						
Endosulfan sulfate	<u>1031078</u>	<u>42</u>	<u>18</u>	5.600	<u>5.600</u>	0.2	0.06	0.2	0.06		
Endosulfan (Total)	<u>115297</u>	<u>42</u>	<u>18</u>	<u>5,600</u>	<u>5,600</u>	0.2	0.06	0.2	0.06		
<u>Endothall</u>	<u>145733</u>	100		<u>18.667</u>	<u>18.667</u>						
<u>Endrin</u>	<u>72208</u>	2	0.06	<u>280</u>	<u>280</u>	0.09	0.04	0.09	0.04	<u>0.004</u>	0.004
Endrin aldehyde	<u>7421934</u>	<u>2</u>				0.09	0.04	0.09	0.04		
<u>Ethylbenzene</u>	<u>100414</u>	<u>700</u>	2.133	93.333	93.333	23.000	1.400	23.000	1.400		
<u>Fluoranthene</u>	<u>206440</u>	<u>280</u>	<u>28</u>	37,333	<u>37,333</u>	2,000	<u>1,600</u>	2,000	<u>1,600</u>		
<u>Fluorene</u>	<u>86737</u>	280	1.067	<u>37.333</u>	37.333						
Fluoride	<u>7782414</u>	<u>4,000</u>		140,000	<u>140,000</u>						
Glyphosate	<u>1071836</u>	700	266.667	93.333	93.333						
Guthion	86500		<u> </u>				0.01		0.01		
<u>Heptachlor</u>	<u>76448</u>	<u>0.4</u>	0.00008	<u>0.4</u>	<u>467</u>	0.5	0.004	0.5	0.004		
Heptachlor epoxide	1024573	0.2	0.00004	0.2	<u>12</u>	0.5	0.004	0.5	0.004		
<u>Hexachlorobenzene</u>	<u>118741</u>	1	0.0003	1	<u>747</u>	<u>6</u>	3.7	6	3.7		
<u>Hexachlorobutadiene</u>	87683	0.4	18	18	187	45	8.2	45	8.2		
Hexachlorocyclohexane alpha	319846	0.006	0.005	0.22	<u>7,467</u>	1,600	130	1,600	130		
Hexachlorocyclohexane beta	<u>319857</u>	0.02	0.02	0.78	<u>560</u>	1.600	130	1.600	130		
Hexachlorocyclohexane delta	<u>319868</u>					<u>1,600</u>	130	<u>1,600</u>	130		
Hexachlorocyclohexane gamma (lindane)	<u>58899</u>	0.2	<u>1.8</u>	<u>280</u>	<u>280</u>	1	0.08	1	0.28		
Hexachlorocyclopentadiene	77474	<u>50</u>	580	9,800	9,800	3.5	0.3	3.5	0.3		
Hexachloroethane	67721	2.5	3.3	100	933	490	350	490	350		
Hydrogen sulfide	7783064	<u> </u>	2.2	100	300	122	2 See ©	120	2 See ©		
Indeno (1.2.3-cd) pyrene	193395	0.05	0.49	1.9	1.9		<u> 2 000 </u>		2 000 9		
III DELIO (1.2.3-CO) DVI ENE	120020	2.02	<u>v.48</u>	1.0	1.2	!			<u> </u>		

						1	1	1	1		
Iron	<u>7439896</u>						<u>1,000 D</u>		<u>1,000 D</u>		
<u>Isophorone</u>	<u>78591</u>	37	<u>961</u>	<u>1.500</u>	<u>186.667</u>	<u>59.000</u>	<u>43.000</u>	<u>59.000</u>	43.000		
<u>Lead</u>	7439921	<u>15 T</u>		<u>15 T</u>	<u>15 T</u>	See (d) & Table 6	See (d) & Table 6	See (d) & Table 6	See (d) & Table 6	<u>10,000</u> <u>T</u>	<u>100 T</u>
Malathion	<u>121755</u>	<u>140</u>		<u>18.667</u>	<u>18.667</u>		0.1		0.1		
<u>Manganese</u>	<u>7439965</u>	980		<u>130,667</u>	<u>130.667</u>					<u>10,000</u>	
<u>Mercury</u>	7439976	<u>2</u> I		280 T	280 T	2.4 D	0.01 D	2.4 D	0.01 D		<u>10 T</u>
<u>Methoxychlor</u>	<u>72435</u>	<u>40</u>		<u>4.667</u>	<u>4.667</u>		0.03		0.03		
Methylmercury	22967926		0.3 ma/								
			<u>kg</u>								
Mirex	<u>2385855</u>	1		<u>187</u>	<u>187</u>		0.001		0.001		
<u>Naphthalene</u>	<u>91203</u>	<u>140</u>	1,524	<u>18,667</u>	18,667	<u>1,100</u>	<u>210</u>	<u>3,200</u>	<u>580</u>		
Nickel	<u>7440020</u>	<u>140 T</u>	4.600 T	28.000 T	28.000 T	See (d) & Table 7	See (d) & Table 7	See (d) & Table 7	See (d) & Table 7		
<u>Nitrate</u>	<u>14797558</u>	10.000		3.733.33 3	3.733.33 3						
<u>Nitrite</u>	14797650	1,000		233,333	233,333						
Nitrate + Nitrite		10.000									
Nitrobenzene	98953	3.5	138	<u>467</u>	<u>467</u>	1,300	<u>850</u>	1,300	<u>850</u>		
p-Nitrophenol	100027					4.100	3.000	4.100	3.000		
N-nitrosodimethylamine	62759	0.001	3	0.03	0.03						
N-Nitrosodiphenylamine	86306	7.1	6	290	290	2,900	200	2,900	200		
N-nitrosodi-n-propylamine	621647	0.005	0.5	0.2	88.667				i		
Nonylphenol	104405			_		28	6.6	28	6.6		
Oxamvl	23135220	200		23.333	23.333			<u> </u>			
Parathion	56382	200		20.000	20.000	0.07	0.01	0.07	0.01		
Paraquat	<u>30302</u> 1910425	<u>32</u>		4,200	4,200	100	54	100	54		
Pentachlorophenol		1	1 000		28,000		!		1-		
Pentachiorophenoi	<u>87865</u>	<u>-</u>	1,000	<u>12</u>	20,000	<u>See €,</u> (<u>i) & Table 10</u>	<u>See €,</u> (<u>i</u>) & Table 10	<u>See €,</u> (<u>i</u>) & Table 10	See €, (j) & Table 10		
<u>Permethrin</u>	<u>52645531</u>	<u>350</u>		46,667	<u>46,667</u>	0.3	0.2	<u>0.3</u>	0.2		
<u>Phenanthrene</u>	<u>85018</u>					<u>30</u>	<u>6.3</u>	<u>30</u>	<u>6.3</u>		
Phenol	108952	2.100	37	280.000	280.000	<u>5.100</u>	730	7.000	1.000		
<u>Picloram</u>	<u>1918021</u>	<u>500</u>	2.710	65,333	65,333						
Polychlorinatedbiphenyls (PCBs)	1336363	<u>0.5</u>	0.00006	2 19	<u>19</u>	2	0.01	2	0.02	0.001	0.001
Pvrene	129000	210	800	28.000	28.000						
Radium 226 + Radium 228		5 pCi/L									
<u>Selenium</u>	<u>7782492</u>	<u>50 T</u>	<u>667 T</u>	4.667 T	<u>4.667 T</u>		<u>2T</u>		<u>2</u> T	<u>20 T</u>	<u>50 T</u>
Silver	<u>7440224</u>	<u>35 T</u>	<u>8,000 T</u>	<u>4,667 T</u>	<u>4,667 T</u>	See (d) & Table 8		See (d) & Table 8			
Simazine	112349	<u>4</u>		<u>4,667</u>	<u>4,667</u>						
Strontium	<u>7440246</u>	8 pCi/L									
<u>Styrene</u>	<u>100425</u>	100		<u>186,667</u>	<u>186,667</u>	5,600	370	5,600	370		
Sulfides											
2.3.7.8-Tetrachlorod- ibenzo-p-dioxin (2.3,7,8- TCDD)	<u>1746016</u>	0.00003	<u>5x10-9</u>	0.00003	0.0009	0.01	0.005	0.01	0.005		
1,1,2,2-Tetrachloroethane	79345	0.2	4	7	56,000	4,700	3,200	4,700	3,200		
<u>Tetrachloroethylene</u>	127184	5	261	9,333	9,333	2,600	280	6,500	680		
<u>Thallium</u>	7440280	<u>2</u> 2I	7.2 I	75 I	75 T	700 D	150 D	700 D	150 D		
Toluene	108883	1,000	201.000	280,000	280,000	8,700	180	8,700	180		
Toxaphene	8001352	3	0.0003	1.3	933	0.7	0.0002	0.7	0.0002	0.005	0.005
Tributyltin	688733	Ī	5.5550		<u> </u>	0.5	0.0002	0.5	0.002	2.222	
1.2.4-Trichlorobenzene	120821	70	70	9.333	9.333	750	130	1.700	300		
1,1,1-Trichloroethane	71556	200	<u>428,571</u>	1,866,66	1,866,66	2,600	<u>1,600</u>	2,600	1,600	1,000	
				7	<u>7</u>					1,000	
1.1.2-Trichloroethane	<u>79005</u>	<u>5</u>	<u>16</u>	25	3.733	18.000	12.000	18.000	12.000		
<u>Trichloroethylene</u>	<u>79016</u>	<u>5</u>	<u>29</u>	280,000	280	20,000	1.300	20,000	1.300		
2.4.6-Trichlorophenol	88062	3.2	2	130	130	160	25	160	25		
2,4,5-Trichlorophenoxy proprionic acid (2,4,5-TP)	<u>93721</u>	<u>50</u>		<u>7,467</u>	<u>7,467</u>						1
Trihalomethanes (T)	†	80						1			
Tritium	10028178	20,000 pCi/L									
Uranium	7440611	30 D		2.800	2.800						
		2	5	2.800	_						
Vinyl chloride	<u>75014</u>	4	J.	4	2,800	L	<u> </u>	L	<u> </u>		

Xylenes (T)	1330207	10,000		186,667	186,667						
Zinc	7440666	2.100 T	5.106 T	280.000 T	280.000 T	See (d) & Table 9	10.000 T	<u>25.000</u> T			

Footnotes

- a. The asbestos standard is 7 million fibers (longer than 10 micrometers) per liter.
- b. The aldrin/dieldrin standard is exceeded when the sum of the two compounds exceeds 0.003 μg/L.
- c. In lakes, the acute criteria for hydrogen sulfide apply only to water samples taken from the epilimnion, or the upper layer of a lake or reservoir.
- d. Hardness, expressed as mg/L CaCO₃, is determined according to the following criteria:
 - i. If the receiving water body has an A&Wc or A&Ww designated use, then hardness is based on the hardness of the receiving water body from a sample taken at the same time that the sample for the metal is taken, except that the hardness may not exceed 400 mg/L CaCO₃.
 - ii. The mathematical equations for the hardness-dependent parameter represent the water quality standards. Examples of criteria for the hardness-dependent parameters have been calculated and are presented in separate tables in this rule for the convenience of the user.
- e. pH is determined according to the following criteria:
 - If the receiving water has an A&Wc or A&Ww designated use, then pH is based on the pH of the receiving water body from a sample taken at the same time that the sample for pentachlorophenol or ammonia is taken.
 - ii. The mathematical equations for ammonia represent the water quality standards. Examples of criteria for ammonia have been calculated and are presented in separate tables in this rule for the convenience of the user.
- f. Table 1 abbreviations.
 - ug/L = micrograms per liter.
 - ii. mg/kg = milligrams per kilogram,
 - iii. pCi/L = picocuries per liter,
 - iv. D = dissolved,
 - T = total recoverable
 - vi. TTHM indicates that the chemical is a trihalomethane.
- g. The total trihalomethane (TTHM) standard is exceeded when the sum of these four compounds exceeds 80 μg/L, as a rolling annual average.
- h. The concentration of gross alpha particle activity includes radium-226, but excludes radon and uranium.
- i. The average annual concentration of beta particle activity and photon emitters from manmade radionuclides shall not produce an annual dose equivalent to the total body or any internal organ greater than four millirems per year.
- j. The mathematical equations for the pH-dependent parameters represent the water quality standards. Examples of criteria for the pH-dependent parameters have been calculated and are presented in separate tables in this rule for the convenience of the user.
- k. Abbreviations for the mathematical equations are as follows:
 - e = the base of the natural logarithm and is a mathematical constant equal to 2.71828
 - LN = is the natural logarithm
 - CMC = Criterion Maximum Concentration (acute)
 - CCC= Criterion Continuous Concentration (chronic)

Table 2. Acute Water Quality Standards for Dissolved Cadmium

Aquatic and Wildlife	Coldwater AZ	Aquatic and Wildlife Warm Water AZ				
<u>Hard. mg/L</u>	Std. μg/L	<u>Hard. mg/L</u>	<u>Std. μg/L</u>			
<u>20</u>	<u>0.40</u>	<u>20</u>	<u>2.1</u>			
100	1.8	<u>100</u>	<u>9.4</u>			
<u>400</u>	6.5	<u>400</u>	<u>34</u>			
<u>e</u> (0.9789*LN(Hardness)-3.866)*(1 41838)	.136672-LN(Hardness)*0.0	<u>e(0.9789*LN(Hardness)-2.208)</u> *(1. 41838)	136672-LN(Hardness)*0.0			

Table 3. Chronic Water Quality Standards for Dissolved Cadmium

Aquatic and Wildlife Coldwater AZ and Warmwater AZ						
Hard. mg/L	Std. μg/L					

<u>20</u>	0.21
100	0.72
400	2.0
(0.7977*LN(Hardness)-3.909)*(1.	101672-LN(Hardness)*0.041838)

Table 4. Water Quality Standards for Dissolved Chromium III

Acute Aquatic and AZ and War		Chronic Aquatic and Wildlife Coldwater AZ and Warmwater AZ							
Hard. mg/L	Std. μg/L	<u>Hard. mg/L</u>	Std. μg/L						
<u>20</u>	<u>152</u>	<u>20</u>	<u>19.8</u>						
<u>100</u>	<u>570</u>	<u>100</u>	<u>74.1</u>						
<u>400</u>	<u>1,773</u>	<u>400</u>	<u>231</u>						
e(0.819*LN(Hardness	s)+3.7256) <u>*(0.316)</u>	e(0.819*LN(Hardne	ess)+0.6848) <u>*(0.86)</u>						

Table 5. Water Quality Standards for Dissolved Copper

	c and Wildlife d Warmwater AZ	-	tic and Wildlife d Warmwater AZ
<u>Hard. mg/L</u>	Std. μg/L	<u>Hard. mg/L</u>	Std. μg/L
<u>20</u>	<u>2.9</u>	<u>20</u>	<u>2.3</u>
<u>100</u>	<u>13</u>	<u>100</u>	9.0
<u>400</u>	<u>50</u>	<u>400</u>	<u>29</u>
e(0.9422*LN(Hard	ness)-1.702)*(0.96)	<u>e</u> (0.8545*LN(Hard	ness)-1.702)*(0.96)

Table 6. Water Quality Standards for Dissolved Lead

Acute Aquation Coldwater AZ and		Chronic Aquatic and Wildlife Coldwater AZ and Warmwater AZ							
Hard. mg/L	Std. µg/L	<u>Hard. mg/L</u>	Std. μg/L						
<u>20</u>	<u>10.8</u>	<u>20</u>	<u>0.42</u>						
<u>100</u>	<u>64.6</u>	<u>100</u>	2.5						
<u>400</u>	<u>281</u>	<u>400</u>	<u>10.9</u>						
e(1.273*LN(Hardnes	ss)-1.46)*(1.4620	e(1.273*LN(Hardne	ss)-4.705) <u>*</u>						
3- (LN(Hardness))*(0.	145712))	(1.46203- (LN(Hardness))*(0.1	<u>45712))</u>						

Table 7. Water Quality Standards for Dissolved Nickel

Acute Aquatic and Wildlife	Chronic Aquatic and Wildlife Coldwater
Coldwater AZ and Warmwater AZ	AZ and Warmwater AZ

Hard. mg/L	Std. μg/L	Hard. mg/L	Std. μg/L
<u>20</u>	<u>120.0</u>	<u>20</u>	<u>13.3</u>
<u>100</u>	<u>468</u>	<u>100</u>	<u>52.0</u>
400	<u>1513</u>	400	<u>168</u>
e(0.846*LN(Hardnes	ss)+2.255)*(0.998)	_e (0.846*LN(Hardne	ess)+0.0584)*(0.997)

Table 8. Water Quality Standards for Dissolved Silver

Acute Aquatic and Wildlife Coldwater AZ and Warmwater AZ										
Hard. mg/L	Std. μg/L									
20	0.20									
100	3.2									
400	34.9									
_e (1.72*LN(Hardn	ess)-6.59)*(0.85)									

Table 9. Water Quality Standards for Dissolved Zinc

Acute and Chronic Aquatic and Wildlife Coldwater AZ and Warmwater AZ											
Hard. mg/L Std. μg/L											
<u>20</u> <u>30.0</u>											
<u>100</u>	117										
400	<u>379</u>										
_e (0.8473*LN(Ha	rdness)+0.884)*(0.978)										

Table 10. Water Quality Standards for Pentachlorophenol

Acute Aquatic and AZ and War	Wildlife Coldwater rmwater AZ	Chronic Aquat Coldwater AZ and	
<u>pH</u>	μg/L	<u>pH</u>	<u>μg/L</u>
<u>3</u>	<u>0.16</u>	<u>3</u>	0.1
<u>6</u>	<u>3.3</u>	<u>6</u>	<u>2.1</u>
9	<u>67.7</u>	<u>9</u>	<u>42.7</u>
<u>e</u> (1.005*(pH)-4.83)	<u>e</u> (1.005*(j	pH)-5.29)

Table 11. Acute Standards for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Coldwater AZ, Unionid Mussels Present

For the aquatic and wildlife coldwater AZ uses, unionids will be assumed to be present unless a study is performed demonstrating that they are absent and there is no historic evidence of their presence, or hydrologic modification has altered the flow regime in a way that would prevent their reestablishment.

								Temp	eratur	e (°C)							
pН	<u>0-14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>
<u>6.5</u>	<u>33</u>	<u>33</u>	<u>32</u>	<u>29</u>	<u>27</u>	<u>25</u>	<u>23</u>	<u>21</u>	<u>19</u>	<u>18</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>9.9</u>
<u>6.6</u>	<u>31</u>	<u>31</u>	<u>30</u>	<u>28</u>	<u>26</u>	<u>24</u>	<u>22</u>	<u>20</u>	<u>18</u>	<u>17</u>	<u>16</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.5</u>
<u>6.7</u>	<u>30</u>	<u>30</u>	<u>29</u>	<u>27</u>	<u>24</u>	<u>22</u>	<u>21</u>	<u>19</u>	<u>18</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	9.8	9
<u>6.8</u>	<u>28</u>	<u>28</u>	<u>27</u>	<u>25</u>	<u>23</u>	<u>21</u>	<u>20</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	9.2	<u>8.5</u>
<u>6.9</u>	<u>26</u>	<u>26</u>	<u>25</u>	<u>23</u>	<u>21</u>	<u>20</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.4</u>	<u>8.6</u>	<u>7.9</u>
7	<u>24</u>	<u>24</u>	<u>23</u>	<u>21</u>	<u>20</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.4</u>	<u>8.6</u>	<u>8</u>	<u>7.3</u>
<u>7.1</u>	<u>22</u>	<u>22</u>	<u>21</u>	<u>20</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.3</u>	<u>8.5</u>	<u>7.9</u>	<u>7.2</u>	<u>6.7</u>
<u>7.2</u>	<u>20</u>	<u>20</u>	<u>19</u>	<u>18</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>9.8</u>	<u>9.1</u>	<u>8.3</u>	<u>7.7</u>	<u>7.1</u>	<u>6.5</u>	<u>6</u>
<u>7.3</u>	<u>18</u>	<u>18</u>	<u>17</u>	<u>16</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.5</u>	<u>8.7</u>	<u>8</u>	<u>7.4</u>	<u>6.8</u>	<u>6.3</u>	<u>5.8</u>	<u>5.3</u>
<u>7.4</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	11	9.8	9	<u>8.3</u>	7.7	7	<u>6.5</u>	<u>6</u>	<u>5.5</u>	5.1	<u>4.7</u>
<u>7.5</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.2</u>	<u>8.5</u>	<u>7.8</u>	<u>7.2</u>	<u>6.6</u>	<u>6.1</u>	<u>5.6</u>	<u>5.2</u>	<u>4.8</u>	<u>4.4</u>	<u>4</u>
<u>7.6</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>10</u>	<u>9.3</u>	<u>8.6</u>	<u>7.9</u>	<u>7.3</u>	<u>6.7</u>	<u>6.2</u>	<u>5.7</u>	<u>5.2</u>	<u>4.8</u>	<u>4.4</u>	<u>4.1</u>	<u>3.8</u>	<u>3.5</u>
<u>7.7</u>	<u>9.6</u>	<u>9.6</u>	<u>9.3</u>	<u>8.6</u>	<u>7.9</u>	<u>7.3</u>	<u>6.7</u>	<u>6.2</u>	<u>5.7</u>	<u>5.2</u>	<u>4.8</u>	<u>4.4</u>	<u>4.1</u>	<u>3.8</u>	<u>3.5</u>	<u>3.2</u>	<u>3</u>
<u>7.8</u>	<u>8.1</u>	<u>8.1</u>	<u>7.9</u>	<u>7.2</u>	<u>6.7</u>	<u>6.1</u>	<u>5.6</u>	<u>5.2</u>	<u>4.8</u>	<u>4.4</u>	<u>4</u>	<u>3.7</u>	<u>3.4</u>	<u>3.2</u>	<u>2.9</u>	<u>2.7</u>	<u>2.5</u>
<u>7.9</u>	<u>6.8</u>	<u>6.8</u>	<u>6.6</u>	<u>6</u>	<u>5.6</u>	<u>5.1</u>	<u>4.7</u>	<u>4.3</u>	4	<u>3.7</u>	<u>3.4</u>	<u>3.1</u>	<u>2.9</u>	<u>2.6</u>	<u>2.4</u>	2.2	2.1
8	<u>5.6</u>	<u>5.6</u>	<u>5.4</u>	<u>5</u>	<u>4.6</u>	<u>4.2</u>	<u>3.9</u>	<u>3.6</u>	<u>3.3</u>	<u>3</u>	<u>2.8</u>	<u>2.6</u>	<u>2.4</u>	<u>2.2</u>	<u>2</u>	<u>1.9</u>	<u>1.7</u>
<u>8.1</u>	<u>4.6</u>	<u>4.6</u>	<u>4.5</u>	<u>4.1</u>	<u>3.8</u>	<u>3.5</u>	<u>3.2</u>	<u>3</u>	<u>2.7</u>	<u>2.5</u>	<u>2.3</u>	<u>2.1</u>	2	<u>1.8</u>	<u>1.7</u>	<u>1.5</u>	<u>1.4</u>
<u>8.2</u>	<u>3.8</u>	<u>3.8</u>	<u>3.7</u>	<u>3.5</u>	<u>3.1</u>	<u>2.9</u>	<u>2.7</u>	<u>2.4</u>	<u>2.3</u>	<u>2.1</u>	<u>1.9</u>	<u>1.8</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>
<u>8.3</u>	<u>3.1</u>	<u>3.1</u>	<u>3.1</u>	<u>2.8</u>	<u>2.6</u>	<u>2.4</u>	<u>2.2</u>	<u>2</u>	<u>1.9</u>	<u>1.7</u>	<u>1.6</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	<u>0.96</u>
<u>8.4</u>	<u>2.6</u>	<u>2.6</u>	<u>2.5</u>	<u>2.3</u>	<u>2.1</u>	<u>2</u>	<u>1.8</u>	<u>1.7</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	0.93	<u>0.86</u>	<u>0.79</u>
<u>8.5</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>1.9</u>	<u>1.8</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	1.1	0.98	0.9	0.83	0.77	<u>0.71</u>	<u>0.65</u>
<u>8.6</u>	<u>1.8</u>	<u>1.8</u>	<u>1.7</u>	1.6	<u>1.5</u>	1.3	1.2	1.1	1	0.96	0.88	0.81	0.75	<u>0.69</u>	0.63	<u>0.59</u>	<u>0.54</u>
<u>8.7</u>	<u>1.5</u>	<u>1.5</u>	<u>1.4</u>	1.3	<u>1.2</u>	<u>1.1</u>	1	0.94	0.87	0.8	0.74	0.68	0.62	<u>0.57</u>	0.53	0.49	<u>0.45</u>
<u>8.8</u>	<u>1.2</u>	<u>1.2</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	<u>0.93</u>	<u>0.86</u>	<u>0.79</u>	<u>0.73</u>	<u>0.67</u>	0.62	<u>0.57</u>	<u>0.52</u>	<u>0.48</u>	<u>0.44</u>	<u>0.41</u>	<u>0.37</u>
<u>8.9</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>0.93</u>	0.85	0.79	0.72	<u>0.67</u>	<u>0.61</u>	0.56	0.52	<u>0.48</u>	0.44	<u>0.4</u>	0.37	<u>0.34</u>	<u>0.32</u>
9	<u>0.88</u>	<u>0.88</u>	<u>0.86</u>	<u>0.79</u>	0.73	0.67	<u>0.62</u>	<u>0.57</u>	<u>0.52</u>	0.48	0.44	<u>0.41</u>	0.37	<u>0.34</u>	0.32	0.29	0.27

 $\mathit{MIN}(\left(\frac{0.275}{1+10^{7.204-p_R}} + \frac{39.0}{1+10^{pH-7.204}}\right), \left(0.7249 \times \left(\frac{0.0114}{1+10^{7.204-p_R}} + \frac{1.6181}{1+10^{pH-7.204}}\right) \times \left(23.12 \times 10^{0.036 \times (20-7)}\right)\right)$

Table 12. Acute Standards for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Warmwater AZ, Unionid Mussels Present

For the aquatic and wildlife warmwater AZ uses, unionids will be assumed to be present unless a study is performed demonstrating that they are absent and there is no historic evidence of their presence, or hydrologic modification has altered the flow regime in a way that would prevent their reestablishment.

									<u>Te</u>	mpera	ature	(°C)									
<u>рН</u>	<u>0-10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>
<u>6.5</u>	<u>51</u>	<u>48</u>	<u>44</u>	<u>41</u>	<u>37</u>	<u>34</u>	<u>32</u>	<u>29</u>	<u>27</u>	<u>25</u>	<u>23</u>	<u>21</u>	<u>19</u>	<u>18</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>9.9</u>
<u>6.6</u>	<u>49</u>	<u>46</u>	<u>42</u>	<u>39</u>	<u>36</u>	<u>33</u>	<u>30</u>	<u>28</u>	<u>26</u>	<u>24</u>	<u>22</u>	<u>20</u>	<u>18</u>	<u>17</u>	<u>16</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.5</u>
<u>6.7</u>	<u>46</u>	<u>44</u>	<u>40</u>	<u>37</u>	<u>34</u>	<u>31</u>	<u>29</u>	<u>27</u>	<u>24</u>	<u>22</u>	<u>21</u>	<u>19</u>	<u>18</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>9.8</u>	9
<u>6.8</u>	<u>44</u>	<u>41</u>	<u>38</u>	<u>35</u>	<u>32</u>	<u>30</u>	<u>27</u>	<u>25</u>	<u>23</u>	<u>21</u>	<u>20</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.2</u>	<u>8.5</u>
6.9	<u>41</u>	<u>38</u>	<u>35</u>	<u>32</u>	<u>30</u>	<u>28</u>	<u>25</u>	<u>23</u>	21	<u>20</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	11	<u>10</u>	<u>9.4</u>	8.6	<u>7.9</u>
<u>7</u>	<u>38</u>	<u>35</u>	<u>33</u>	<u>30</u>	<u>28</u>	<u>25</u>	<u>23</u>	<u>21</u>	<u>20</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.4</u>	<u>8.6</u>	<u>7.9</u>	<u>7.3</u>
<u>7.1</u>	<u>34</u>	<u>32</u>	<u>30</u>	<u>27</u>	<u>25</u>	<u>23</u>	<u>21</u>	<u>20</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.3</u>	<u>8.5</u>	<u>7.9</u>	<u>7.2</u>	<u>6.7</u>
<u>7.2</u>	<u>31</u>	<u>29</u>	<u>27</u>	<u>25</u>	<u>23</u>	<u>21</u>	<u>19</u>	<u>18</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>9.8</u>	<u>9.1</u>	<u>8.3</u>	<u>7.7</u>	<u>7.1</u>	<u>6.5</u>	<u>6</u>
<u>7.3</u>	<u>27</u>	<u>26</u>	<u>24</u>	<u>22</u>	<u>20</u>	<u>18</u>	<u>17</u>	<u>16</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.5</u>	<u>8.7</u>	<u>8</u>	<u>7.4</u>	<u>6.8</u>	<u>6.3</u>	<u>5.8</u>	<u>5.3</u>
<u>7.4</u>	<u>24</u>	<u>22</u>	<u>21</u>	<u>19</u>	<u>18</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	11	<u>9.8</u>	9	<u>8.3</u>	<u>7.7</u>	7	<u>6.5</u>	<u>6</u>	<u>5.5</u>	<u>5.1</u>	<u>4.7</u>
<u>7.5</u>	<u>21</u>	<u>19</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.2</u>	<u>8.5</u>	<u>7.8</u>	7.2	<u>6.6</u>	<u>6.1</u>	<u>5.6</u>	<u>5.2</u>	<u>4.8</u>	<u>4.4</u>	<u>4</u>
<u>7.6</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	9.3	<u>8.6</u>	<u>7.9</u>	7.3	<u>6.7</u>	6.2	<u>5.7</u>	<u>5.2</u>	4.8	<u>4.4</u>	<u>4.1</u>	3.8	<u>3.5</u>
<u>7.7</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	9.3	<u>8.6</u>	<u>7.9</u>	<u>7.3</u>	<u>6.7</u>	<u>6.2</u>	<u>5.7</u>	<u>5.2</u>	<u>4.8</u>	<u>4.4</u>	<u>4.1</u>	<u>3.8</u>	<u>3.5</u>	<u>3.2</u>	<u>2.9</u>
<u>7.8</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	9.3	<u>8.5</u>	<u>7.9</u>	<u>7.2</u>	<u>6.7</u>	<u>6.1</u>	<u>5.6</u>	<u>5.2</u>	<u>4.8</u>	<u>4.4</u>	<u>4</u>	<u>3.7</u>	<u>3.4</u>	<u>3.2</u>	<u>2.9</u>	<u>2.7</u>	<u>2.5</u>
<u>7.9</u>	<u>11</u>	<u>9.9</u>	<u>9.1</u>	<u>8.4</u>	7.7	<u>7.1</u>	6.6	<u>3</u>	<u>5.6</u>	<u>5.1</u>	<u>4.7</u>	<u>4.3</u>	4	<u>3.7</u>	<u>3.4</u>	<u>3.1</u>	<u>2.9</u>	<u>2.6</u>	<u>2.4</u>	<u>2.2</u>	2.1
8	8.8	<u>8.2</u>	<u>7.6</u>	7	6.4	<u>5.9</u>	<u>5.4</u>	<u>5</u>	<u>4.6</u>	<u>4.2</u>	<u>3.9</u>	<u>3.6</u>	<u>3.3</u>	<u>3</u>	<u>2.8</u>	<u>2.6</u>	<u>2.4</u>	<u>2.2</u>	2	<u>1.9</u>	1.7
8.1	7.2	<u>6.8</u>	<u>6.3</u>	<u>5.8</u>	<u>5.3</u>	4.9	<u>4.5</u>	<u>4.1</u>	3.8	<u>3.5</u>	3.2	3	2.7	2.5	2.3	2.1	2	<u>1.8</u>	1.7	1.5	1.4
8.2	<u>6</u>	5.6	<u>5.2</u>	<u>4.8</u>	4.4	4	3.7	3.4	3.1	2.9	<u>2.7</u>	2.4	2.3	2.1	1.9	1.8	1.6	1.5	1.4	<u>1.3</u>	1.2
8.3	4.9	<u>4.6</u>	<u>4.3</u>	<u>3.9</u>	3.6	3.3	<u>3.1</u>	<u>2.8</u>	2.6	<u>2.4</u>	<u>2.2</u>	2	<u>1.9</u>	<u>1.7</u>	<u>1.6</u>	1.4	1.3	<u>1.2</u>	1.1	1	0.96
<u>8.4</u>	<u>4.1</u>	3.8	3.5	<u>3.2</u>	<u>3</u>	<u>2.7</u>	<u>2.5</u>	<u>2.3</u>	2.1	<u>2</u>	1.8	1.7	1.5	1.4	1.3	1.2	1.1	0.92	0.93	0.86	0.79
<u>8.5</u>	3.3 2.8	3.1 2.6	2.9 2.4	2.7	2.4	2.3 1.9	<u>2.1</u> <u>1.7</u>	1.9 1.6	1.8 1.5	1.6 1.3	1.5 1.2	1.4 1.1	1.3	1.2 0.96	1.1 0.88	0.98 0.81	0.9 0.75	0.83 0.69	0.77 0.63	0.71 0.58	0.65 0.54
8.6 8.7	2.3	2.2	2.4 2	2.2 1.8	<u>2</u> 1.7	1.9 1.6	1.4	1.0	1.2	1.1		0.94	0.87	0.96		0.68	0.73	0.69	0.63	0.38	0.34
8.8	1.9	1.8	1.7	1.5	1.4	1.3	1.4	1.1	1	0.93	0.86	0.79	0.73	0.67	0.62	0.57	0.52	0.37	0.33	0.49	0.43
8.9	1.6	1.5	1.4	1.3	1.2	1.1	1.2	0.93	0.85	0.79	0.72	0.67	0.73	0.56	0.62	0.37	0.32	0.48	0.44	0.41	0.37
9	1.4	1.3	1.2	1.1	1.2 1	0.93	0.86	0.79	0.83	0.73	0.62	0.57	0.52	0.48	0.32	0.41	0.44	0.34	0.37	0.29	0.32
	17	<u>1.J</u>	<u>1.4</u>	1.1		0.75	<u>0.00</u>	<u>0.17</u>	0.13	<u>0.07</u>	0.02	<u>0.31</u>	0.32	<u>0.70</u>	<u> </u>	<u> </u>	0.31	<u> </u>	<u>0.JL</u>	<u>0.27</u>	0.21

 $0.7249 \times \left(\frac{0.0114}{1+10^{7.204-pH}} + \frac{1.6181}{1+10^{pH-7.204}}\right) \times MIN(51.93, 23.12 \times 10^{0.036 \times (20-T)})$

Table 13. Chronic Criteria for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Coldwater AZ and Warmwater AZ, Unionid Mussels Present

For the aquatic and wildlife coldwater and warmwater AZ uses, unionids will be assumed to be present unless a study is performed demonstrating that they are absent and there is no historic evidence of their presence, or hydrologic modification has altered the flow regime in a way that would prevent their reestablishment.

											Ten	npera	ture (°C)										
<u>рН</u>	<u>0-7</u>	8	9	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>
<u>6.5</u>	<u>4.9</u>	<u>4.6</u>	<u>4.3</u>	<u>4.1</u>	<u>3.8</u>	<u>3.6</u>	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.8</u>	<u>2.6</u>	<u>2.4</u>	<u>2.3</u>	<u>2.1</u>	<u>2</u>	<u>1.9</u>	<u>1.8</u>	<u>1.6</u>	<u>1.5</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	1.2	<u>1.1</u>
<u>6.6</u>	<u>4.8</u>	<u>4.5</u>	<u>4.3</u>	<u>4</u>	<u>3.8</u>	<u>3.5</u>	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.7</u>	<u>2.5</u>	<u>2.4</u>	2.2	<u>2.1</u>	<u>2</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>
<u>6.7</u>	<u>4.8</u>	<u>4.5</u>	<u>4.2</u>	<u>3.9</u>	<u>3.7</u>	<u>3.5</u>	<u>3.2</u>	<u>3</u>	<u>2.8</u>	<u>2.7</u>	<u>2.5</u>	<u>2.3</u>	2.2	<u>2.1</u>	<u>1.9</u>	1.8	1.7	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.2</u>	<u>1.1</u>
<u>6.8</u>	<u>4.6</u>	<u>4.4</u>	4.1	<u>3.8</u>	3.6	<u>3.4</u>	3.2	<u>3</u>	2.8	2.6	2.4	2.3	2.1	2	1.9	1.8	1.7	1.6	1.5	1.4	<u>1.3</u>	1.2	1.1	1.1
<u>6.9</u>	<u>4.5</u>	<u>4.2</u>	<u>4</u>	<u>3.7</u>	<u>3.5</u>	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.7</u>	<u>2.5</u>	<u>2.4</u>	<u>2.2</u>	<u>2.1</u>	<u>2</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>
<u>7</u>	<u>4.4</u>	<u>4.1</u>	<u>3.8</u>	<u>3.6</u>	<u>3.4</u>	<u>3.2</u>	<u>3</u>	<u>2.8</u>	<u>2.6</u>	<u>2.4</u>	<u>2.3</u>	<u>2.2</u>	<u>2</u>	<u>1.9</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1.1</u>	<u>0.99</u>
<u>7.1</u>	<u>4.2</u>	<u>3.9</u>	<u>3.7</u>	<u>3.5</u>	<u>3.2</u>	<u>3</u>	<u>2.8</u>	<u>2.7</u>	<u>2.5</u>	<u>2.3</u>	<u>2.2</u>	<u>2.1</u>	<u>1.9</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	<u>0.95</u>
<u>7.2</u>	<u>4</u>	<u>3.7</u>	<u>3.5</u>	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.7</u>	<u>2.5</u>	<u>2.4</u>	<u>2.2</u>	<u>2.1</u>	<u>2</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	<u>0.96</u>	<u>0.9</u>
<u>7.3</u>	<u>3.8</u>	<u>3.5</u>	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.7</u>	2.6	<u>2.4</u>	2.2	2.1	2	<u>1.8</u>	1.7	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.3</u>	<u>1.2</u>	1.1	1	0.97	0.91	0.85
<u>7.4</u>	<u>3.5</u>	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.7</u>	<u>2.5</u>	<u>2.4</u>	<u>2.2</u>	<u>2.1</u>	<u>2</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>				0.85	
<u>7.5</u>	<u>3.2</u>	<u>3</u>	<u>2.8</u>	<u>2.7</u>	<u>2.5</u>	<u>2.3</u>	<u>2.2</u>	<u>2.1</u>	<u>1.9</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.2</u>	<u>1.1</u>	1	<u>0.95</u>				<u>0.73</u>
<u>7.6</u>	<u>2.9</u>		<u>2.6</u>	<u>2.4</u>	<u>2.3</u>	<u>2.1</u>	<u>2</u>	<u>1.9</u>	<u>1.8</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>				<u>0.86</u>				0.67
<u>7.7</u>	<u>2.6</u>		<u>2.3</u>	<u>2.2</u>	<u>2</u>	<u>1.9</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1.1</u>					<u>0.78</u>				
<u>7.8</u>	<u>2.3</u>	<u>2.2</u>	<u>2.1</u>	<u>1.9</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.2</u>	<u>1.1</u>	1						0.69				1
<u>7.9</u>	<u>2.1</u>		<u>1.8</u>		<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>		<u>1.1</u>									0.61				
8	<u>1.8</u>		<u>1.6</u>		<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	1.1	1.1											0.53				
<u>8.1</u>	<u>1.5</u>			1.3	1.2	<u>1.1</u>														0.46				
<u>8.2</u>		_		<u>1.1</u>	<u>1</u>	<u>0.96</u>														<u>0.39</u>				
<u>8.3</u>						<u>0.82</u>	0.76																	
<u>8.4</u>							0.65																	0.22
<u>8.5</u>						0.58	<u>0.55</u>													<u>0.24</u>				0.18
<u>8.6</u>						0.49	0.46																	1 1
<u>8.7</u>							0.39				-			-										
<u>8.8</u>							0.33																	0.11
<u>8.9</u>					<u>0.32</u>		0.28																	0.09
2	<u>0.36</u>	0.34	0.32				0.24																0.09	0.08
					0.88	76 >	< (₁₊	0.0 - 10	278 7.688	 -pH	+ 1 -	1.1 ⁴	994 эн-т.	588)	× (2	.126	× 10) ^{0.028}	3×(20	-MAX	(T,7)))		

Table 14. Acute Standards for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Coldwater AZ, Unionid **Mussels Absent**

For the aquatic and wildlife coldwater uses, unionids will be assumed to be present unless a study is performed demonstrating that they are absent and there is no historic evidence of their presence, or hydrologic modification has altered the flow regime in a way that would prevent their reestablishment.

	it would	_						Tem	peratur	e (°C)							
pН	<u>0-14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>
<u>6.5</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>33</u>	<u>31</u>	<u>29</u>	<u>27</u>
<u>6.6</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>30</u>	<u>28</u>	<u>26</u>
<u>6.7</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>30</u>	<u>29</u>	<u>26</u>	<u>24</u>
<u>6.8</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>27</u>	<u>25</u>	<u>23</u>
<u>6.9</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>26</u>	<u>25</u>	<u>23</u>	<u>21</u>
Z	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	24	24	23	21	20
<u>7.1</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>22</u>	<u>21</u>	<u>19</u>	<u>18</u>
<u>7.2</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>19</u>	<u>17</u>	<u>16</u>
<u>7.3</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>17</u>	<u>16</u>	<u>14</u>
<u>7.4</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>14</u>	<u>13</u>
<u>7.5</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>12</u>	11
<u>7.6</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>10</u>	<u>9.3</u>
<u>7.7</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.6</u>	<u>9.3</u>	<u>8.6</u>	<u>7.9</u>
<u>7.8</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>8.1</u>	<u>7.8</u>	<u>7.2</u>	<u>6.6</u>
<u>7.9</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.8</u>	<u>6.5</u>	<u>6</u>	<u>5.5</u>
<u>8</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.4</u>	<u>5</u>	<u>4.6</u>
<u>8.1</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.6</u>	<u>4.5</u>	<u>4.1</u>	<u>3.8</u>
<u>8.2</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.8</u>	<u>3.7</u>	<u>3.4</u>	<u>3.1</u>
<u>8.3</u>	<u>3.2</u>	3.2	3.2	<u>3.2</u>	<u>3.2</u>	<u>3.2</u>	<u>3.2</u>	<u>3.2</u>	<u>3.2</u>	<u>3.2</u>	<u>3.2</u>	<u>3.2</u>	<u>3.2</u>	3.2	<u>3</u>	2.8	<u>2.6</u>
<u>8.4</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.6</u>	<u>2.5</u>	<u>2.3</u>	<u>2.1</u>
<u>8.5</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>2.1</u>	<u>1.9</u>	<u>1.8</u>
<u>8.6</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.4</u>
<u>8.7</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>
8.8	12 12 12 12 12 12 12 12 12 12 12 12 12 1																
<u>8.9</u>	<u>1</u>	<u>1</u>	1	<u>1</u>	<u>1</u>	<u>1</u>	1	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	0.92	<u>0.85</u>
9	0.88	0.88	0.88	<u>0.88</u>	0.88	0.88	0.88	0.88	0.88	0.88	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	0.88	<u>0.85</u>	<u>0.78</u>	<u>0.72</u>
MIN	((0	.275	-рн +	3	39.0 0H-7.20	₁₄), (0.7	249×(0.01	14 204-pH	1.6	5181 pH-7.204)×(62	.15 × 1	LO ^{0.036}	·(20-T))	

$$MIN(\left(\frac{0.275}{1+10^{7.204-p_R}}+\frac{39.0}{1+10^{pH-7.204}}\right),\left(0.7249\times\left(\frac{0.0114}{1+10^{7.204-p_R}}+\frac{1.6181}{1+10^{pH-7.204}}\right)\times\left(62.15\times10^{0.036\times(20-T)}\right)\right)$$

Table 15. Acute Standards for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Warmwater AZ Uses, Unionid Mussels Absent

For the aquatic and wildlife warmwater uses, unionids will be assumed to be present unless a study is performed demonstrating that they are absent and there is no historic evidence of their presence, or hydrologic modification has altered the flow regime in a way that would prevent their reestablishment. For the aquatic and wildlife effluent dependent uses, unionids will be assumed to be absent.

	Temperature (°C)																
pН	<u>0-14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>
<u>6.5</u>	<u>51</u>	51	51	51	<u>51</u>	51	51	51	<u>51</u>	<u>48</u>	44	<u>40</u>	<u>37</u>	<u>34</u>	31	<u> 29</u>	27
<u>6.6</u>	<u>49</u>	<u>49</u>	<u>49</u>	<u>49</u>	<u>49</u>	<u>49</u>	<u>49</u>	<u>49</u>	<u>49</u>	<u>46</u>	<u>42</u>	<u>39</u>	<u>36</u>	<u>33</u>	<u>30</u>	<u>28</u>	<u>26</u>
<u>6.7</u>	<u>46</u>	<u>46</u>	<u>46</u>	<u>46</u>	<u>46</u>	<u>46</u>	<u>46</u>	<u>46</u>	<u>46</u>	<u>43</u>	<u>40</u>	<u>37</u>	<u>34</u>	<u>31</u>	<u>29</u>	<u>26</u>	<u>24</u>
<u>6.8</u>	<u>44</u>	<u>44</u>	<u>44</u>	<u>44</u>	<u>44</u>	<u>44</u>	<u>44</u>	<u>44</u>	<u>44</u>	<u>41</u>	<u>38</u>	<u>35</u>	<u>32</u>	<u>29</u>	<u>27</u>	<u>25</u>	<u>23</u>
<u>6.9</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>41</u>	<u>38</u>	<u>35</u>	<u>32</u>	<u>30</u>	<u>27</u>	<u>25</u>	<u>23</u>	<u>21</u>
Z	<u>38</u>	<u>38</u>	<u>38</u>	<u>38</u>	<u>38</u>	<u>38</u>	<u>38</u>	<u>38</u>	<u>38</u>	<u>35</u>	<u>32</u>	<u>30</u>	<u>27</u>	<u>25</u>	<u>23</u>	21	20
<u>7.1</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>34</u>	<u>32</u>	<u>29</u>	<u>27</u>	<u>25</u>	<u>23</u>	<u>21</u>	<u>19</u>	<u>18</u>
<u>7.2</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>31</u>	<u>29</u>	<u> 26</u>	<u>24</u>	<u>22</u>	<u>21</u>	<u>19</u>	<u>17</u>	<u>16</u>
<u>7.3</u>	<u>27</u>	<u>27</u>	<u>27</u>	<u>27</u>	<u>27</u>	<u>27</u>	<u>27</u>	<u>27</u>	<u>27</u>	<u>26</u>	<u>23</u>	<u>22</u>	<u>20</u>	<u>18</u>	<u>17</u>	<u>16</u>	<u>14</u>
<u>7.4</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>24</u>	<u>22</u>	<u>21</u>	<u>19</u>	<u>17</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>
<u>7.5</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>21</u>	<u>19</u>	<u>18</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>
<u>7.6</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>18</u>	<u>17</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	9.3
<u>7.7</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.3</u>	<u>8.6</u>	<u>7.9</u>
<u>7.8</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.2</u>	<u>8.5</u>	<u>7.8</u>	<u>7.2</u>	<u>6.6</u>
<u>7.9</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>9.9</u>	<u>9.1</u>	<u>8.4</u>	<u>7.7</u>	<u>7.1</u>	<u>6.5</u>	<u>6</u>	<u>5.5</u>
<u>8</u>	8.8	8.8	8.8	<u>8.8</u>	8.8	8.8	<u>8.8</u>	<u>8.8</u>	<u>8.8</u>	<u>8.2</u>	<u>7.5</u>	<u>6.9</u>	<u>6.4</u>	<u>5.9</u>	<u>5.4</u>	<u>5</u>	<u>4.6</u>
<u>8.1</u>	<u>7.3</u>	<u>7.3</u>	<u>7.3</u>	<u>7.3</u>	<u>7.3</u>	<u>7.3</u>	<u>7.3</u>	<u>7.3</u>	<u>7.3</u>	6.8	<u>6.2</u>	<u>5.7</u>	<u>5.3</u>	<u>4.9</u>	<u>4.5</u>	<u>4.1</u>	<u>3.8</u>
<u>8.2</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>	6	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>5.6</u>	<u>5.1</u>	<u>4.7</u>	<u>4.4</u>	4	<u>3.7</u>	<u>3.4</u>	3.1
8.3	4.9	4.9	<u>4.9</u>	4.9	4.9	4.9	<u>4.9</u>	4.9	4.9	4.6	4.2	3.9	3.6	3.3	<u>3</u>	2.8	2.6
8.4	4.1	<u>4.1</u>	<u>4.1</u>	<u>4.1</u>	4.1	4.1	<u>4.1</u>	4.1	4.1	3.8	3.4	3.2	3	<u>2.7</u>	<u>2.5</u>	2.3	<u>2.1</u>
<u>8.5</u>	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.1	2.9	2.6	2.4	<u>2.2</u>	<u>2.1</u>	<u>1.9</u>	<u>1.8</u>
<u>8.6</u>	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	<u>2.6</u>	2.4	2.2	2	1.9	<u>1.7</u>	1.6	<u>1.4</u>
8.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2	1.8	1.7	1.5	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>
8.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.7	1.5	1.4	1.3	1.2	1.1	1
8.9	1.6	1.6	1.6	1.6	1.6 1.4	1.6	1.6	1.6	1.6	1.5 1.3	1.4 1.2	1.3	1.2 1	1.1	0.95	0.92	0.85
2	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	0.0114	<u>1.4</u>	<u>1.4</u>	<u>1.4</u> .6181	1.4	1.3	1.2	<u>1.1</u>	<u> </u>	0.93	<u>0.85</u>	<u>0.78</u>	0.72

$$0.7249 \times \left(\frac{0.0114}{1+10^{7.204-pH}} + \frac{1.6181}{1+10^{pH-7.204}}\right) \times \textit{MIN}\left(51.93, \left(62.15 \times 10^{0.036 \times (20-T)}\right)\right)$$

Table 16. Chronic Standards for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Warmwater AZ, Unionid Mussels Absent

For the aquatic and wildlife warmwater uses, unionids will be assumed to be present unless a study is performed demonstrating that they are absent and there is no historic evidence of their presence, or hydrologic modification has altered the flow regime in a way that would prevent their reestablishment. For the aquatic and wildlife effluent dependent uses, unionids will be assumed to be absent.

											Ten	npera	ture	(°C)										
<u>рН</u>	<u>0-7</u>	<u>8</u>	9	<u>10</u>	11	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>
<u>6.5</u>	<u>19</u>	<u>17</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	9.7	9.1	<u>8.5</u>	<u>8</u>	<u>7.5</u>	<u>7</u>	6.6	<u>6.2</u>	<u>5.8</u>	<u>5.4</u>	<u>5.1</u>	4.8	<u>4.5</u>	<u>4.2</u>
<u>6.6</u>	<u>18</u>	<u>17</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.6</u>	9	8.4	<u>7.9</u>	<u>7.4</u>	<u>6.9</u>	<u>6.5</u>	<u>6.1</u>	<u>5.7</u>	<u>5.4</u>	<u>5</u>	<u>4.7</u>	<u>4.4</u>	<u>4.1</u>
<u>6.7</u>	<u>18</u>	<u>17</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>11</u>	<u>10</u>	<u>9.4</u>	8.8	<u>8.3</u>	<u>7.7</u>	<u>7.3</u>	<u>6.8</u>	<u>6.4</u>	<u>6</u>	<u>5.6</u>	<u>5.3</u>	<u>4.9</u>	<u>4.6</u>	<u>4.3</u>	<u>4.1</u>
<u>6.8</u>	17	16	<u>15</u>	14	14	<u>13</u>	<u>12</u>	11	<u>10</u>	9.8	9.2	8.6	8.1	7.6	7.1	6.7	<u>6.2</u>	<u>5.8</u>	<u>5.5</u>	5.1	<u>4.8</u>	<u>4.5</u>	<u>4.2</u>	4
<u>6.9</u>	<u>17</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.5</u>	<u>8.9</u>	<u>8.4</u>	<u>7.8</u>	7.4	<u>6.9</u>	<u>6.5</u>	<u>6.1</u>	<u>5.7</u>	<u>5.3</u>	<u>5</u>	<u>4.7</u>	<u>4.4</u>	4.1	3.9
<u>7</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.8</u>	<u>9.2</u>	<u>8.6</u>	<u>8.1</u>	<u>7.6</u>	<u>7.1</u>	<u>6.7</u>	<u>6.2</u>	<u>5.9</u>	<u>5.5</u>	<u>5.1</u>	<u>4.8</u>	<u>4.5</u>	<u>4.2</u>	<u>4</u>	<u>3.7</u>
<u>7.1</u>	<u>16</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>11</u>	<u>10</u>	<u>9.4</u>	<u>8.8</u>	<u>8.3</u>	<u>7.7</u>	<u>7.3</u>	<u>6.8</u>	<u>6.4</u>	<u>6</u>	<u>5.6</u>	<u>5.3</u>	<u>4.9</u>	<u>4.6</u>	<u>4.3</u>	<u>4.1</u>	<u>3.8</u>	<u>3.6</u>
<u>7.2</u>	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.5</u>	9	<u>8.4</u>	<u>7.9</u>	<u>7.4</u>	<u>6.9</u>	<u>6.5</u>	<u>6.1</u>	<u>5.7</u>	<u>5.3</u>	<u>5</u>	<u>4.7</u>	<u>4.4</u>	<u>4.1</u>	<u>3.9</u>	<u>3.6</u>	<u>3.4</u>
<u>7.3</u>	<u>14</u>	<u>13</u>	<u>12</u>	<u>12</u>	11	<u>10</u>	<u>9.6</u>	9	<u>8.4</u>	<u>7.9</u>	<u>7.4</u>	<u>6.9</u>	<u>6.5</u>	6.1	<u>5.7</u>	<u>5.4</u>	<u>5</u>	<u>4.7</u>	<u>4.4</u>	4.1	<u>3.9</u>	<u>3.6</u>	<u>3.4</u>	<u>3.2</u>
<u>7.4</u>	<u>13</u>	<u>12</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.5</u>	9	<u>8.4</u>	<u>7.9</u>	<u>7.4</u>	<u>6.9</u>	<u>6.5</u>	<u>6.1</u>	<u>5.7</u>	<u>5.3</u>	<u>5</u>	<u>4.7</u>	<u>4.4</u>	<u>4.1</u>	<u>3.9</u>	<u>3.6</u>	<u>3.4</u>	<u>3.2</u>	<u>3</u>
<u>7.5</u>	<u>12</u>	<u>11</u>	<u>11</u>	<u>10</u>	<u>9.4</u>	<u>8.8</u>	<u>8.2</u>	<u>7.7</u>	<u>7.2</u>	<u>6.8</u>	<u>6.4</u>	<u>6</u>	<u>5.6</u>	<u>5.2</u>	<u>4.9</u>	<u>4.6</u>	<u>4.3</u>	<u>4.1</u>	<u>3.8</u>	<u>3.6</u>	<u>3.3</u>	3.1	<u>2.9</u>	2.8
<u>7.6</u>	<u>11</u>	<u>10</u>	<u>10</u>	<u>9.1</u>	<u>8.5</u>	<u>8</u>	<u>7.5</u>	<u>7</u>	<u>6.6</u>	<u>6.2</u>	<u>5.8</u>	<u>5.4</u>	<u>5.1</u>	<u>4.8</u>	<u>4.5</u>	<u>4.2</u>	<u>3.9</u>	<u>3.7</u>	<u>3.5</u>	<u>3.2</u>	<u>3</u>	<u>2.9</u>	<u>2.7</u>	<u>2.5</u>
<u>7.7</u>	<u>9.9</u>	<u>9.3</u>	<u>8.7</u>	<u>8.1</u>	<u>7.7</u>	<u>7.2</u>	<u>6.8</u>	<u>6.3</u>	<u>5.9</u>	<u>5.6</u>	<u>5.2</u>	<u>4.9</u>	<u>4.6</u>	<u>4.3</u>	<u>4</u>	<u>3.8</u>	<u>3.5</u>	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.7</u>	<u>2.6</u>	<u>2.4</u>	<u>2.3</u>
<u>7.8</u>	<u>8.8</u>	<u>8.3</u>	<u>7.8</u>	<u>7.3</u>	<u>6.8</u>	<u>6.4</u>	<u>6</u>	<u>5.6</u>	<u>5.3</u>	<u>5</u>	<u>4.6</u>	<u>4.4</u>	<u>4.1</u>	<u>3.8</u>	<u>3.6</u>	<u>3.4</u>	<u>3.2</u>	<u>3</u>	<u>2.8</u>	<u>2.6</u>	<u>2.4</u>	<u>2.3</u>	<u>2.1</u>	<u>2</u>
<u>7.9</u>	<u>7.8</u>	<u>7.3</u>	<u>6.8</u>	<u>6.4</u>	<u>6</u>	<u>5.6</u>	<u>5.3</u>	<u>5</u>	<u>4.6</u>	<u>4.4</u>	<u>4.1</u>	<u>3.8</u>	<u>3.6</u>	<u>3.4</u>	<u>3.2</u>	<u>3</u>	<u>2.8</u>	<u>2.6</u>	<u>2.4</u>	<u>2.3</u>	<u>2.1</u>	2	<u>1.9</u>	<u>1.8</u>
8	<u>6.8</u>	<u>6.3</u>	<u>6</u>	<u>5.6</u>	<u>5.2</u>	<u>4.9</u>	<u>4.6</u>	<u>4.3</u>	4	<u>3.8</u>	<u>3.6</u>	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.7</u>	2.6	<u>2.4</u>	<u>2.3</u>	<u>2.1</u>	2	<u>1.9</u>	<u>1.7</u>	<u>1.6</u>	1.5
<u>8.1</u>															1.3									
<u>8.2</u>	= 														1.1									
<u>8.3</u>	<u>4.2</u>	<u>4</u>	<u>3.7</u>	<u>3.5</u>	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.7</u>	<u>2.5</u>	<u>2.4</u>	<u>2.2</u>	<u>2.1</u>	<u>2</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.2</u>	<u>1.1</u>		<u>0.96</u>
<u>8.4</u>	<u>3.6</u>	<u>3.4</u>	<u>3.2</u>	<u>3</u>	<u>2.8</u>	<u>2.6</u>	<u>2.4</u>	<u>2.3</u>	<u>2.1</u>	<u>2</u>	<u>1.9</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1.1</u>	0.99	0.92	<u>0.87</u>	0.81
<u>8.5</u>																								
	8.6 2.6 2.4 2.2 2.1 2 1.9 1.7 1.6 1.5 1.4 1.3 1.3 1.2 1.1 1 0.97 0.91 0.85 0.8 0.75 0.7 0.66 0.62 0.58																							
<u>8.7</u>	=1-:																							
<u>8.8</u>	= = = = = = = = = = = = = = = = = = = 																							
<u>8.9</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1.1</u>		-										-	-				$\overline{}$
2	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	1	0.98	0.92	<u>0.86</u>	0.81	<u>0.76</u>	0.71	0.66	0.62	<u>0.58</u>	<u>0.55</u>	0.51	0.48	0.45	0.42	<u>0.4</u>	0.37	0.35	0.33	0.31
							0.94	105 X	$\left(\frac{1}{1+1}\right)$	0.0278 10 ^{7.688}	-pH +	1+	1.1994 10 ^{pH-7}	7,688)	< (7.54	47 × 1	0 ^{0.028}	<(20− <i>N</i>	1AX (T,7	"))				

Table 17. Chronic Criteria for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Coldwater AZ, Unionid Mussels Absent

For the aquatic and wildlife coldwater uses, unionids will be assumed to be present unless a study is performed demonstrating that they are absent and there is no historic evidence of their presence, or hydrologic modification has altered the flow regime in a

way that would prevent their reestablishment.

way tri	Temperature (°C)																
pН	0-14	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	20	21	22	23	24	<u>25</u>	<u>26</u>	<u>27</u>	28	<u>29</u>	30
6.5	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7	6.6	6.2	5.8	5.4	5.1	4.8	4.5	4.2
6.6	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	6.9	6.5	6.1	<u>5.7</u>	<u>5.4</u>	<u>5</u>	4.7	4.4	4.1
<u>6.7</u>	<u>7.1</u>	<u>7.1</u>	<u>7.1</u>	<u>7.1</u>	<u>7.1</u>	<u>7.1</u>	<u>7.1</u>	<u>7.1</u>	<u>6.8</u>	<u>6.4</u>	<u>6</u>	<u>5.6</u>	<u>5.3</u>	<u>4.9</u>	<u>4.6</u>	<u>4.3</u>	<u>4.1</u>
<u>6.8</u>	<u>6.9</u>	<u>6.9</u>	<u>6.9</u>	<u>6.9</u>	<u>6.9</u>	<u>6.9</u>	<u>6.9</u>	<u>6.9</u>	<u>6.6</u>	<u>6.2</u>	<u>5.8</u>	<u>5.5</u>	<u>5.1</u>	<u>4.8</u>	<u>4.5</u>	<u>4.2</u>	<u>4</u>
<u>6.9</u>	<u>6.7</u>	<u>6.7</u>	6.7	<u>6.7</u>	<u>6.7</u>	<u>6.7</u>	6.7	<u>6.7</u>	<u>6.5</u>	<u>6.1</u>	<u>5.7</u>	<u>5.3</u>	<u>5</u>	<u>4.7</u>	<u>4.4</u>	<u>4.1</u>	<u>3.9</u>
<u>7</u>	<u>6.5</u>	<u>6.5</u>	6.5	<u>6.5</u>	<u>6.5</u>	<u>6.5</u>	6.5	<u>6.5</u>	<u>6.2</u>	<u>5.8</u>	<u>5.5</u>	<u>5.1</u>	<u>4.8</u>	<u>4.5</u>	<u>4.2</u>	<u>4</u>	<u>3.7</u>
<u>7.1</u>	<u>6.2</u>	<u>6.2</u>	<u>6.2</u>	<u>6.2</u>	<u>6.2</u>	<u>6.2</u>	<u>6.2</u>	<u>6.2</u>	<u>6</u>	<u>5.6</u>	<u>5.3</u>	<u>4.9</u>	<u>4.6</u>	<u>4.3</u>	<u>4.1</u>	<u>3.8</u>	<u>3.6</u>
7.2	<u>5.9</u>	<u>5.9</u>	<u>5.9</u>	<u>5.9</u>	<u>5.9</u>	<u>5.9</u>	<u>5.9</u>	<u>5.9</u>	<u>5.7</u>	<u>5.3</u>	<u>5</u>	4.7	4.4	4.1	3.9	3.6	<u>3.4</u>
<u>7.3</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.6</u>	<u>5.4</u>	<u>5</u>	<u>4.7</u>	<u>4.4</u>	<u>4.1</u>	<u>3.9</u>	3.6	<u>3.4</u>	<u>3.2</u>
<u>7.4</u>	<u>5.2</u>	<u>5.2</u>	<u>5.2</u>	<u>5.2</u>	<u>5.2</u>	<u>5.2</u>	<u>5.2</u>	<u>5.2</u>	<u>5</u>	<u>4.7</u>	<u>4.4</u>	<u>4.1</u>	<u>3.9</u>	<u>3.6</u>	<u>3.4</u>	<u>3.2</u>	<u>3</u>
7.5	<u>4.8</u>	4.8	4.8	4.8	4.8	4.8	4.8	<u>4.8</u>	4.6	4.3	4.1	3.8	3.6	3.3	3.1	<u>2.9</u>	2.8
<u>7.6</u>	<u>4.4</u>	<u>4.4</u>	<u>4.4</u>	<u>4.4</u>	<u>4.4</u>	<u>4.4</u>	<u>4.4</u>	<u>4.4</u>	<u>4.2</u>	<u>3.9</u>	<u>3.7</u>	<u>3.5</u>	<u>3.2</u>	<u>3</u>	<u>2.9</u>	<u>2.7</u>	<u>2.5</u>
<u>7.7</u>	<u>3.9</u>	<u>3.9</u>	<u>3.9</u>	<u>3.9</u>	<u>3.9</u>	<u>3.9</u>	<u>3.9</u>	<u>3.9</u>	3.8	<u>3.5</u>	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.7</u>	<u>2.6</u>	<u>2.4</u>	<u>2.3</u>
<u>7.8</u>	<u>3.5</u>	<u>3.5</u>	<u>3.5</u>	<u>3.5</u>	<u>3.5</u>	<u>3.5</u>	3.5	<u>3.5</u>	<u>3.4</u>	<u>3.2</u>	<u>3</u>	<u>2.8</u>	<u>2.6</u>	<u>2.4</u>	2.3	<u>2.1</u>	<u>2</u>
<u>7.9</u>	<u>3.1</u>	<u>3.1</u>	<u>3.1</u>	<u>3.1</u>	<u>3.1</u>	<u>3.1</u>	<u>3.1</u>	<u>3.1</u>	<u>3</u>	<u>2.8</u>	<u>2.6</u>	<u>2.4</u>	<u>2.3</u>	2.1	2	<u>1.9</u>	<u>1.8</u>
<u>8</u>	<u>2.7</u>	<u>2.7</u>	<u>2.7</u>	<u>2.7</u>	<u>2.7</u>	<u>2.7</u>	<u>2.7</u>	<u>2.7</u>	<u>2.6</u>	<u>2.4</u>	<u>2.3</u>	<u>2.1</u>	<u>2</u>	<u>1.9</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>
<u>8.1</u>	<u>2.3</u>	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.1	1.9	1.8	1.7	1.6	1.5	1.4	1.3
<u>8.2</u>	<u>2</u>	<u>2</u>	2	<u>2</u>	<u>2</u>	<u>2</u>	2	<u>2</u>	<u>1.9</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>
<u>8.3</u>	1.7	1.7	1.7	<u>1.7</u>	1.7	1.7	1.7	<u>1.7</u>	<u>1.6</u>	1.5	1.4	1.3	<u>1.2</u>	1.2	1.1	1	<u>0.9</u> <u>6</u>
<u>8.4</u>	<u>1.4</u>	<u>1.4</u>	1.4	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	1.4	<u>1.4</u>	1.3	1.2	1.1	1.1	<u>0.9</u> <u>9</u>	<u>0.9</u> <u>3</u>	<u>0.8</u> <u>7</u>	<u>0.8</u> <u>1</u>
<u>8.5</u>	<u>1.2</u>	<u>1.2</u>	<u>1.2</u>	<u>1.2</u>	<u>1.2</u>	<u>1.2</u>	<u>1.2</u>	<u>1.2</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	<u>0.9</u> <u>5</u>	<u>0.8</u> <u>9</u>	<u>0.8</u> <u>3</u>	<u>0.7</u> <u>8</u>	<u>0.7</u> <u>3</u>	0.6 <u>9</u>
8.6	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>0.9</u> 7	0.9 1	0.8 5	0.8	<u>0.7</u> <u>5</u>	<u>0.7</u>	0.6 6	0.6 2	0.5 8
<u>8.7</u>	<u>0.86</u>	0.8 6	<u>0.8</u> <u>6</u>	0.8 6	<u>0.8</u> <u>6</u>	0.8 6	<u>0.8</u> <u>6</u>	<u>0.8</u> <u>6</u>	0.8 2	<u>0.7</u> <u>7</u>	<u>0.7</u> <u>2</u>	<u>0.6</u> <u>8</u>	<u>0.6</u> <u>4</u>	0.6	0.5 6	0.5 2	<u>0.4</u> <u>9</u>
<u>8.8</u>	<u>0.73</u>	<u>0.7</u> <u>3</u>	<u>0.7</u> <u>3</u>	<u>0.7</u> <u>3</u>	<u>0.7</u> <u>3</u>	<u>0.7</u> <u>3</u>	<u>0.7</u> <u>3</u>	<u>0.7</u> <u>3</u>	<u>0.7</u>	<u>0.6</u> <u>5</u>	<u>0.6</u> <u>1</u>	<u>0.5</u> <u>8</u>	0.5 4	<u>0.5</u> <u>1</u>	<u>0.4</u> <u>7</u>	<u>0.4</u> <u>4</u>	<u>0.4</u> <u>2</u>
<u>8.9</u>	0.62	<u>0.6</u> <u>2</u>	<u>0.6</u> <u>2</u>	<u>0.6</u> <u>2</u>	<u>0.6</u> <u>2</u>	<u>0.6</u> <u>2</u>	<u>0.6</u> <u>2</u>	<u>0.6</u> <u>2</u>	0.6	<u>0.5</u> <u>6</u>	<u>0.5</u> <u>2</u>	<u>0.4</u> <u>9</u>	<u>0.4</u> <u>6</u>	<u>0.4</u> <u>3</u>	<u>0.4</u> <u>1</u>	<u>0.3</u> <u>8</u>	<u>0.3</u> <u>6</u>
<u>9</u>	0.54	0.5 4	0.5 4	0.5 4	0.5 4	0.5 4	0.5 4	0.5 4	<u>0.5</u> <u>1</u>	<u>0.4</u> <u>8</u>	<u>0.4</u> <u>5</u>	<u>0.4</u> <u>2</u>	0.4	<u>0.3</u> <u>7</u>	0.3 5	<u>0.3</u> <u>3</u>	0.3 1
			05 ×	0.0	0278 0 ^{7.688} -		1.1	994 pH-7.68	$\frac{1}{8} \times M$.920,(× 10 ^{0.}	.028×(20			·

R18-2-214. The Protected Surface Waters List

Table A.Non-WOTUS Protected Surface Waters and Designated Uses

Watershe	Surface	Segment Description and		tic and dlife		Human	Health		Agric	ultural
d	Waters	Location (Latitude and Longitudes are in NAD 83)	A&Wc AZ	A&Ww AZ	FBC AZ	PBC AZ	DWS AZ	FC AZ	AgI AZ	AgL AZ
<u>CG</u>	Cottonwood Creek	Headwaters to confluence with unnamed tributary at 35°20'46"/113°35'31"	A&Wc AZ	AL	FBC AZ	AZ	AL	FC AZ	AZ	AgL AZ
<u>CG</u>	Cottonwood Creek	Below confluence with unnamed tributary to confluence with Colorado River		A&Ww AZ	FBC AZ			FC AZ		AgL AZ
<u>CG</u>	Wright Canyon Creek	Headwaters to confluence with unnamed tributary at 35°20'48"/113°30'40"	A&Wc AZ		FBC AZ			FC AZ		AgL AZ
<u>CG</u>	Wright Canyon Creek	Below confluence with unnamed tributary to confluence with Truxton Wash		A&Ww <u>AZ</u>	FBC AZ			EC AZ		AgL AZ
<u>LC</u>	Boot Lake	34°58'54"/111°20'11"	A&Wc AZ		FBC AZ			FC AZ		<u>AgL</u> <u>AZ</u>
<u>LC</u>	<u>Little Ortega</u> <u>Lake</u>	34°22'47"/109°40'06"	A&Wc AZ		FBC AZ			FC AZ		
<u>LC</u>	Mormon Lake	34°56'38"/111°27'25"	A&Wc AZ		<u>FBC</u> AZ		<u>DWS</u> AZ	<u>FC</u> AZ	<u>Agl</u> AZ	<u>AgL</u> AZ
LC	Potato Lake	35°03'15"/111°24'13"	A&Wc AZ		<u>FBC</u> AZ			EC AZ		AgL AZ
LC	Pratt Lake	34°01'32"/109°04'18"	A&Wc AZ		FBC AZ			FC AZ		
LC	Sponseller Lake	34°14'09"/109°50'45"	A&Wc AZ		FBC AZ			FC AZ		AgL AZ
LC	Vail Lake	35°05'23"/111°30'46"	A&Wc AZ		FBC AZ			FC AZ		AgL AZ
LC	Water Canyon Reservoir	34°00'16"/109°20'05"		<u>A&Ww</u> <u>AZ</u>	FBC AZ			FC AZ	<u>Agl</u> AZ	AgL AZ
<u>MG</u>	Alvord Park Lake	35th Avenue & Baseline Road. Phoenix at 33°22'23"/ 112°08'20"		<u>A&Ww</u> <u>AZ</u>		PBC AZ		FC AZ		
MG	Bonsall Park Lake	59th Avenue & Bethany Home Road. Phoenix at 33°31'24"/112°11'08"		<u>A&Ww</u> <u>AZ</u>		PBC AZ		FC AZ		
MG_	<u>Canal Park</u> Lake	College Avenue & Curry Road. Tempe at 33°26'54"/ 111°56'19"		A&Ww AZ		PBC AZ		<u>FC</u> AZ		
<u>MG</u>	Cortez Park Lake	35th Avenue & Dunlap, Glendale at 33°34'13"/ 112°07'52"		A&Ww AZ		PBC AZ		EC AZ		
MG.	Encanto Park Lake	15th Avenue & Encanto Blvd., Phoenix at 33°28'28"/ 112°05'18"		A&Ww AZ		PBC AZ		FC AZ	Agl AZ	
<u>SP</u>	Big Creek	Headwaters to confluence with Pitchfork Canyon	A&Wc AZ		FBC AZ			FC AZ		AgL AZ
SP	Goudy Canyon Creek	Headwaters to confluence with Grant Creek	A&Wc AZ		FBC AZ			FC AZ		
<u>SP</u>	Grant Creek	Headwaters to confluence with unnamed tributary at 32°38'10"/109°56'37"		A&Ww AZ	FBC AZ		DWS AZ	FC AZ		
SP	Grant Creek	Below confluence with unnamed tributary to terminus near Willcox Playa		A&Ww AZ	FBC AZ			FC AZ		
<u>SP</u>	High Creek	Headwaters to confluence with unnamed tributary at 32°33'08"/110°14'42"	A&Wc AZ		FBC AZ			FC AZ		AgL AZ

<u>SP</u>	High Creek	Below confluence with unnamed tributary to terminus near Willcox Playa	A&Wc AZ		FBC AZ		FC AZ		<u>AgL</u> AZ
<u>SP</u>	Pinery Creek	Headwaters to State Highway 181	A&Wc AZ		FBC AZ	DWS AZ	FC AZ		AgL AZ
<u>SP</u>	Pinery Creek	Below State Highway 181 to terminus near Willcox Plava		A&Ww AZ	FBC AZ	DWS AZ	FC AZ		<u>AgL</u> AZ
<u>SP</u>	Post Creek	Headwaters to confluence with Grant Creek	A&Wc AZ		FBC AZ		FC AZ	<u>Agl</u> AZ	<u>AgL</u> AZ
<u>SP</u>	Riggs Lake	32°42'28"/109°57'53"	A&Wc AZ		FBC AZ		FC AZ	<u>Agl</u> AZ	<u>AgL</u> AZ
<u>SP</u>	Rock Creek	Headwaters to confluence with Turkey Creek Alc			<u>FBC</u> AZ		<u>FC</u> AZ		<u>AgL</u> AZ
<u>SP</u>	Soldier Creek	Headwaters to confluence with Post Creek at 32°40'50"/109°54'41"	A&Wc AZ		FBC AZ		FC AZ		AgL AZ
<u>SP</u>	Snow Flat Lake	32°39'10"/109°51'54"	A&Wc AZ		FBC AZ		FC AZ	<u>Agl</u> <u>AZ</u>	AgL AZ
<u>SP</u>	Turkey Creek	Headwaters to confluence with Rock Creek	<u>A&Wc</u> <u>AZ</u>		FBC AZ		FC AZ	<u>Agl</u> <u>AZ</u>	<u>AgL</u> <u>AZ</u>
<u>SP</u>	Turkey Creek	Below confluence with Rock Creek to terminus near Willcox Playa		A&Ww AZ	FBC AZ		EC AZ	Agl AZ	Agl. AZ
<u>SP</u>	Ward Canyon Creek	Headwaters to confluence with Turkey Creek	A&Wc AZ		FBC AZ		FC AZ		<u>AgL</u> AZ
<u>SP</u>	Stoneman Lake	34°46'47"/111°31'14"	A&Wc AZ		<u>FBC</u> <u>AZ</u>		<u>FC</u> AZ	<u>Agl</u> AZ	<u>AgL</u> AZ
<u>SR</u>	Snow Flat Lake	32°39'10"/109°51'54"	A&Wc AZ		FBC AZ		EC AZ	Agl AZ	Agl. AZ
<u>UG</u>	Ward Canyon	Headwaters to confluence with Turkey Creek	<u>A&Wc</u> <u>AZ</u>		FBC AZ		FC AZ		AgL AZ
<u>VR</u>	Moonshine Creek	Headwaters to confluence with Post Creek	A&Wc AZ		FBC AZ		FC AZ		<u>AgL</u> <u>AZ</u>

Table B. WOTUS Protected Surface Waters

WOTUS Protected Surface Waters have their designated uses assigned by Title 18, Chapter 11, Article 1.

Coordinates are from the North American Datum of 1983 (NAD83). All latitudes in Arizona are north and all longitudes are west, but the negative signs are not included in the WOTUS Protected Surface Water's table. Some web-based mapping systems require a negative sign before the longitude values to indicate it is a west longitude.

Watersheds:

BW = Bill Williams
CG = Colorado – Grand Canyon
CL = Colorado - Lower Gila
LC = Little Colorado
MG = Middle Gila
SC = Santa Cruz – Rio Magdelena – Rio Sonoyta
SP = San Pedro – Willcox Playa – Rio Yaqui
SR = Salt River
UG = Upper Gila
VR = Verde River
Other Abbreviations:
WWTD - Wtt Tott Dlt
WWTP = Wastewater Treatment Plant
Km = kilometers

Watershed	Surface Waters	Segment Description and Location (Latitude and Longitudes are in NAD 83)
<u>BW</u>	Alamo Lake	34°14'06"/113°35'00"
<u>BW</u>	Big Sandy River	Headwaters to Alamo Lake
<u>BW</u>	Bill Williams River	Alamo Lake to confluence with Colorado River
BW	Blue Tank	<u>34°40'14"/112°58'17"</u>
<u>BW</u>	Boulder Creek	Headwaters to confluence with unnamed tributary at 34°41'13"/113°03'37"
<u>BW</u>	Boulder Creek	Below confluence with unnamed tributary to confluence with Burro Creek
<u>BW</u>	Burro Creek (OAW)	Headwaters to confluence with Boulder Creek
BW	Burro Creek	Below confluence with Boulder Creek to confluence with Big Sandy River
<u>BW</u>	Carter Tank	34°52'27"/112°57'31"
<u>BW</u>	Conger Creek	Headwaters to confluence with unnamed tributary at 34°45'15"/113°05'46"
<u>BW</u>	Conger Creek	Below confluence with unnamed tributary to confluence with Burro Creek
BW	Copper Basin Wash	Headwaters to confluence with unnamed tributary at 34°28'12"/112°35'33"
<u>BW</u>	Copper Basin Wash	Below confluence with unnamed tributary to confluence with Skull Valley Wash
<u>BW</u>	Cottonwood Canyon	Headwaters to Bear Trap Spring
<u>BW</u>	Cottonwood Canyon	Below Bear Trap Spring to confluence at Sycamore Creek
BW	Date Creek	Headwaters to confluence with Santa Maria River
<u>BW</u>	Francis Creek (OAW)	Headwaters to confluence with Burro Creek
<u>BW</u>	Kirkland Creek	Headwaters to confluence with Santa Maria River
<u>BW</u>	Knight Creek	Headwaters to confluence with Big Sandy River
<u>BW</u>	Peeples Canyon (OAW)	Headwaters to confluence with Santa Maria River
<u>BW</u>	Red Lake	35°12'18"/113°03'57"
<u>BW</u>	Santa Maria River	Headwaters to Alamo Lake
<u>BW</u>	Trout Creek	Headwaters to confluence with unnamed tributary at 35°06'47"/113°13'01"
<u>BW</u>	Trout Creek	Below confluence with unnamed tributary to confluence with Knight Creek
<u>BW</u>	Unnamed wash to Unnamed trib to Peacock Wash	Headwaters to Unnamed trib AT 35 10 39.5/113 46 55.5
<u>CG</u>	Agate Canyon	Headwaters to confluence with the Colorado River
<u>CG</u>	Beaver Dam Wash	Headwaters to confluence with the Virgin River
<u>CG</u>	Big Springs Tank	36°36'08"/112°21'01"
CG	Boucher Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Bright Angel Creek	Headwaters to confluence with Roaring Springs Creek
<u>CG</u>	Bright Angel Creek	Below Roaring Spring Springs Creek to confluence with Colorado River
<u>CG</u>	Bright Angel Wash	Headwaters to Grand Canyon National Park South Rim WWTP outfall at 36°02′59"/112°09′02"
<u>CG</u>	Bright Angel Wash (EDW)	Grand Canyon National Park South Rim WWTP outfall to Coconino Wash
<u>CG</u>	Bulrush Canyon Wash	Headwaters to confluence with Kanab Creek
<u>CG</u>	Cataract Creek	Headwaters to Santa Fe Reservoir
<u>CG</u>	Cataract Creek	Santa Fe Reservoir to City of Williams WWTP outfall at 35°14'40"/112°11'18"
<u>CG</u>	Cataract Creek (EDW)	City of Williams WWTP outfall to 1 km downstream
<u>CG</u>	Cataract Creek	Red Lake Wash to Havasupai Indian Reservation boundary
<u>CG</u>	<u>Cataract Lake</u>	35°15′04"/112°12′58"

CG	Chuar Creek	Headwaters to confluence with unnamed tributary at 36°11'35"/111°52'20"
CG	Chuar Creek	Below unnamed tributary to confluence with the Colorado River
CG	City Reservoir	35°13'57"/112°11'25"
CG	Clear Creek	Headwaters to confluence with unnamed tributary at 36°07'33"/112°00'03"
CG	Clear Creek	Below confluence with unnamed tributary to confluence with Colorado River
CG	Coconino Wash (EDW)	South Grand Canyon Sanitary District Tusayan WRF outfall at 35°58'39"/112°08'25" to 1 km downstream
<u>CG</u>	Colorado River	Lake Powell to Lake Mead
<u>CG</u>	Crystal Creek	Headwaters to confluence with unnamed tributary at 36°13'41"/112°11'49"
<u>CG</u>	Crystal Creek	Below confluence with unnamed tributary to confluence with Colorado River
<u>CG</u>	Deer Creek	Headwaters to confluence with unnamed tributary at 36°26'15"/112°28'20"
<u>CG</u>	Deer Creek	Below confluence with unnamed tributary to confluence with Colorado River
<u>CG</u>	Detrital Wash	Headwaters to Lake Mead
<u>CG</u>	Dogtown Reservoir	<u>35°12'40"/112°07'54"</u>
<u>CG</u>	Dragon Creek	Headwaters to confluence with Milk Creek
<u>CG</u>	Dragon Creek	Below confluence with Milk Creek to confluence with Crystal Creek
<u>CG</u>	Garden Creek	Headwaters to confluence with Pipe Creek
<u>CG</u>	Gonzalez Lake	<u>35°15'26"/112°12'09"</u>
<u>CG</u>	Grand Wash	Headwaters to Colorado River
<u>CG</u>	Grapevine Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Grapevine Wash	Headwaters to Colorado River
<u>CG</u>	Hakatai Canyon	Headwaters to confluence with the Colorado River
<u>CG</u>	Hance Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Havasu Creek	From the Havasupai Indian Reservation boundary to confluence with the Colorado River
<u>CG</u>	Hermit Creek	Headwaters to Hermit Pack Trail crossing at 36°03'38"/112°14'00"
<u>CG</u>	Hermit Creek	Below Hermit Pack Trail crossing to confluence with the Colorado River
<u>CG</u>	Horn Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	<u>Hualapai Wash</u>	Headwaters to Lake Mead
<u>CG</u>	Jacob Lake	36°42'27"/112°13'50"
<u>CG</u>	Kaibab Lake	35°17'04"/112°09'32"
<u>CG</u>	Kanab Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Kwagunt Creek	Headwaters to confluence with unnamed tributary at 36°13'37"/111°54'50"
<u>CG</u>	Kwagunt Creek	Below confluence with unnamed tributary to confluence with the Colorado River
<u>CG</u>	Lake Mead	36°06'18"/114°26'33"
<u>CG</u>	Lake Powell	36°59'53"/111°08'17"
<u>CG</u>	Lonetree Canyon Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Matkatamiba Creek	Below Havasupai Indian Reservation boundary to confluence with the Colorado River
<u>CG</u>	Monument Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Nankoweap Creek	Headwaters to confluence with unnamed tributary at 36°15'29"/111°57'26"
CG CG	Nankoweap Creek Nankoweap Creek	Headwaters to confluence with unnamed tributary at 36°15'29"/111°57'26" Below confluence with unnamed tributary to confluence with Colorado River

CG	North Canyon Creek	Headwaters to confluence with unnamed tributary at 36°33'58"/111°55'41"
CG	North Canyon Creek	Below confluence with unnamed tributary to confluence with Colorado River
CG	Olo Canyon	Headwaters to confluence with the Colorado River
CG	Parashant Canvon	Headwaters to confluence with unnamed tributary at 36°21'02"/113°27'56"
CG	Parashant Canyon	Below confluence with unnamed tributary to confluence with the Colorado River
CG	Paria River	Utah border to confluence with the Colorado River
CG	Phantom Creek	Headwaters to confluence with unnamed tributary at 36°09'29"/112°08'13"
CG	Phantom Creek	Below confluence with unnamed tributary to confluence with Bright Angel Creek
CG	Pipe Creek	Headwaters to confluence with the Colorado River
CG	Red Canvon Creek	Headwaters to confluence with the Colorado River '
CG	Roaring Springs	36°11'45"/112°02'06"
CG	Roaring Springs Creek	Headwaters to confluence with Bright Angel Creek
<u>CG</u>	Royal Arch Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Ruby Canyon	Headwaters to confluence with the Colorado River
<u>CG</u>	Russell Tank	<u>35°52'21"/111°52'45"</u>
<u>CG</u>	Saddle Canyon Creek	Headwaters to confluence with unnamed tributary at 36°21'36"/112°22'43"
<u>CG</u>	Saddle Canyon Creek	Below confluence with unnamed tributary to confluence with Colorado River
<u>CG</u>	Santa Fe Reservoir	35°14'31"/112°11'10"
<u>CG</u>	Sapphire Canyon	Headwaters to confluence with the Colorado River
<u>CG</u>	Serpentine Canyon	Headwaters to confluence with the Colorado River
<u>CG</u>	Shinumo Creek	Headwaters to confluence with unnamed tributary at 36°18'18"/112°18'07"
<u>CG</u>	Shinumo Creek	Below confluence with unnamed tributary to confluence with the Colorado River
<u>CG</u>	Short Creek	Headwaters to confluence with Fort Pearce Wash
<u>CG</u>	Slate Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Spring Canyon Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Stone Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Tapeats Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Thunder River	Headwaters to confluence with Tapeats Creek
<u>CG</u>	Trail Canyon Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Transept Canyon	Headwaters to Grand Canyon National Park North Rim WWTP outfall at 36°12'20"/112°03'35"
<u>CG</u>	Transept Canyon (EDW)	Grand Canyon National Park North Rim WWTP outfall to 1 km downstream
<u>CG</u>	<u>Transept Canyon</u>	From 1 km downstream of the Grand Canyon National Park North Rim WWTP outfall to confluence with Bright Angel Creek
<u>CG</u>	Travertine Canyon Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Turquoise Canyon	Headwaters to confluence with the Colorado River
<u>CG</u>	<u>Unkar Creek</u>	Below confluence with unnamed tributary at 36°07'54"/111°54'06" to confluence with Colorado River
<u>CG</u>	Unnamed Wash (EDW)	Grand Canyon National Park Desert View WWTP outfall at 36°02'06"/111°49'13" to confluence with Cedar Canyon
<u>CG</u>	Unnamed Wash (EDW)	Valle Airpark WRF outfall at 35°38'34"/112°09'22" to confluence with Spring Valley Wash
<u>CG</u>	<u>Vasey's Paradise</u>	A spring at 36°29'52"/111°51'26"
<u>CG</u>	Virgin River	Headwaters to confluence with the Colorado River

	00	Vielen Con als	Headwater to see floores with the October 15 Direct
CG		<u> </u>	
White Creek		<u> </u>	
CC White Creek Below confluence with unreamed tributary to confluence with the Colorado River CL A10 Backwater 33/3145/1141/32041 CL Addob Lake 33/20/36/1141/32061 CL Addob Lake 33/20/36/1141/32061 CL Clobal Lake 33/140/1141/40/311 CL Cloes Lake 33/140/1141/40/311 CL Colorado River Headwaters to confluence with the Site River CL Colorado River Lake Blead to Topock March CL Colorado River Topock March to Morelos Dam CL Holy Moses Wash Headwaters to City of Kingman Downtown WWTP outfall at 35°10/33/1141/30/46" CL Holy Moses Wash Headwaters to City of Kingman Downtown WWTP outfall at 35°10/33/1141/30/46" CL Holy Moses Wash Samma Wash CL Holy Moses Wash Form 3km downstream of City of Kingman Downtown WWTP outfall to confluence with Samma Wash CL Holy Moses Wash Samma Wash<			
CL A1D Backwaler 33*34*27*114*33*19* CL A7 Backwaler 33*34*27*114*32*04* CL Adobe Lake 33*34*27*114*32*04* CL Clobal Lake 33*14*07*114*4*03*1* CL Clobal Lake 33*14*07*114*3*19*1 CL Columbus Wash Headwalers to confluence with the Gila River CL Colorado River Topock Marish to Morelos Dam CL Gila River Panted Rock Dam to confluence with the Colorado River CL Gila River Panted Rock Dam to confluence with the Colorado River CL Holv Moses Wash Headwalers to City of Kingman Downtown WWTP outfall at 35*103*7114*0345* CL Holv Moses Wash (EDW) Clot of Kingman Downtown WWTP outfall to confluence with Sammil Wash CL Holv Moses Wash (EDW) Clot of Kingman Downtown WWTP outfall to confluence with Sammil Wash CL Holv Moses Wash From 3 km downstream of Clot of Kingman Downtown WWTP outfall to confluence with Sammil Wash CL Hinter's Hole Backwaler 32*230*211*42*75*4* CL Hinter's Hole Backwaler 32*530*21*14*27*54* CL Ingerial Reservoir 32*531*4			
A7 Backwater 33°4727/14°32°0°		White Creek	
CL Adobt Lake 33°02′36′714′39′26′° CL Cbole Lake 33°14′01′/14′40′31′° CL Clear Lake 33°01′59′714′31′19′° CL Columbus Wash Headwaters to confluence with the Giln River CL Colorado River Lake Meed to Tocock Marsh CL Colorado River Tocock Marsh to Morelos Dam CL Gila River Painted Rock Dam to confluence with the Colorado River CL Holv Moses Wash Headwaters to City of Kingman Downtown WWTP outfall at 35°10′33′114′03′40′ CL Holv Moses Wash From Skm downstream of City of Kingman Downtown WWTP outfall to confluence with Sammit Wash CL Holv Moses Wash From Skm downstream of City of Kingman Downtown WWTP outfall to confluence with Sammit Wash CL Holv Moses Wash From Skm downstream of City of Kingman Downtown WWTP outfall to confluence with Sammit Wash CL Hunter's Hole Bedwater 32°13′13′114′450′7 CL Imperial Reservoir 32°25′30′21/14′27′54′ CL Island Lake 33°01′41′11′3′56′42′ CL Lake Mohave 33°26′59′111′3′25′74′ CL Lake Mohave 33°26′59′		A10 Backwater	33°31'45"/114°33'19"
CL Cibola Lake 33*14*01*114*4031** CL Clear Lake 33*01*59*114*31*19* CL Columbus Wash Headwaters to confluence with the Gilla River CL Colorado River Lake Mead to Topock Marsh to Morelos Dam CL Colorado River Topock Marsh to Morelos Dam CL Gilla River Painted Rock Dam to confluence with the Colorado River CL Holv Moses Wash Headwaters to City of Kingman Downtown WWTP outfall to 3 km downstream CL Holv Moses Wash (EDW) City of Kingman Downtown WWTP outfall to 3 km downstream CL Holv Moses Wash (EDW) City of Kingman Downtown WWTP outfall to 3 km downstream CL Holv Moses Wash (EDW) City of Kingman Downtown WWTP outfall to 3 km downstream CL Holv Moses Wash From 3 km downstream of City of Kingman Downtown WWTP outfall to confluence with Samini Wash CL Hunter's Hole Backwater 32*3114*114*114*114*114*114*11*11*11*11*11*1		A7 Backwater	
CL Clear Lake 33°01587/14*31'19' CL Columbus Wash Headwaters to confluence with the Gila River CL Colorado River Lake Mead to Topock Marsh CL Colorado River Topock Marsh to Moreles Dam CL Gila River Painted Rock Dam to confluence with the Colorado River CL Holy Mosses Wash Headwaters to City of Kingman Downtown WWTP outfall at 35°10'33'/14"0346" CL Holy Mosses Wash From 3.km downstream of City of Kingman Downtown WWTP outfall to 3 km downstream CL Holy Mosses Wash From 3.km downstream of City of Kingman Downtown WWTP outfall to confluence with Sawmill Wash CL Holy Mosses Wash From 3.km downstream of City of Kingman Downtown WWTP outfall to confluence with Sawmill Wash CL Hunter's Hole Backwater 32°13'13'11'4'48'07" CL Imperial Reservoir 32°25'30'2'114'2'275'4' CL Imperial Reservoir 32°53'02'114'2'85'2' CL Lake Havasu 34°35'13'114'2'80'2' CL Lake Havasu 32°25'113'2'81'2' QL Lake Mohave 35°26'85'114'3'33'0' QL Martinez Lake 32°	<u>CL</u>	Adobe Lake	33°02'36"/114°39'26"
GL Columbus Wash Headwaters to confluence with the Gila River GL Colorado River Lake Mead to Topock Marsh GL Colorado River Topock Marsh to Morelos Dem GL Calla River Painted Rook Dam to confluence with the Colorado River GL Holv Mosss Wash Headwaters to City of Kingman Downtown WWTP outfall at 35°10'33'/114'03'46'' GL Holv Mosss Wash (EDW) City of Kingman Downtown WWTP outfall to 3 xm downstream GL Holv Mosss Wash From 3 km downstream of City of Kingman Downtown WWTP outfall to confluence with Sawmil Wash GL Hunter's Hole Backwater 32°31'13'/114'/48'07'' GL Imperial Reservoir 32°53'02'/114''27'54'' GL Island Lake 33'01'/14'/114''28'27' GL Island Lake 33'01'/14'/114''28'27' GL Lake Havasu 34''55'13'/114''28'29'' GL Lake Mohave 35''568'71'14''28''03'' GL Martinez Lake 32''849'/114''28''93'' GL Mohave Wash Headwaters to Lower Colorado River GL Nortons Lake 33''02'30'/114''37'59'' GL	<u>CL</u>	<u>Cibola Lake</u>	<u>33°14'01"/114°40'31"</u>
CL Colorado River Lake Mead to Topock Marsh CL Colorado River Topock Marsh to Morelos Dam CL Gila River Painted Rock Dam to confluence with the Colorado River CL Holy Mosses Wash Headwaters to City of Kingman Downtown WWTP outfall at 35°10'33'/114'03'46" CL Holy Mosses Wash From 3 km downstream of City of Kingman Downtown WWTP outfall to 3 km downstream CL Hunter's Hole Backwater 32'31'13'/114'48'07" CL Hunter's Hole Backwater 32'31'13'/114'48'07" CL Imperial Reservoir 32'53'02'/114'2754' CL Jaguna Reservoir 32'51'35'/114'28'92' CL Lake Havasu 34'35'18'/114'28'92' CL Lake Havasu 34'35'18'/114'28'92' CL Lake Mohave 32'56'85'/114''28'09' CL Mittry Lake 32'24'77'/114''28'75'4' CL Mohave Wash Headwaters to Lower Colorado River CL Nortons Lake 33''0230'/114''37'59'' CL Painted Rock (Borrow Pit) Lake 33''0230'/114''37'59'' CL Painted Rock (Borrow Pit) Lake 33''94	CL	<u>Clear Lake</u>	33°01'59"/114°31'19"
CL Colorado River Topock Marish to Morelos Dam CL Gila River Painted Rock Dam to confluence with the Colorado River CL Holv Moses Wash Headwaters to City of Kingman Downtown WWTP outfall at 35*1033*/114*0346* CL Holv Moses Wash (EDW) City of Kingman Downtown WWTP outfall to 3 km downstream CL Holv Moses Wash Emandation of City of Kingman Downtown WWTP outfall to 3 km downstream CL Hunter's Hole Backwater 22*3113*/114*28*07* CL Imperial Reservoir 32*5302*/114*2754* CL Jaquina Reservoir 32*5135*/114*28*29* CL Lake Havasu 34*3518*/114*2547* CL Lake Mohave 35*26*58*/114*28*09* CL Martinez Lake 32*25*135*/114*28*09* CL Miltry Lake 32*49*/17*/114*275*4* CL Mohave Wash Headwaters to Lower Colorado River CL Nortons Lake 33*0230*/114*/37*59* CL Painted Rock (Borrow Pit) Lake 33*045*5*/113*01*17* CL Painted Rock (Borrow Pit) Lake 32*4432*/114**29** CL Redondo Lake 32	<u>CL</u>	Columbus Wash	Headwaters to confluence with the Gila River
CL Sila River Painted Rock Dam to confluence with the Colorado River CL Holv Moses Wash Headwaters to City of Kingman Downtown WWTP outfall at 35*10'33'/114*03'46'. CL Holv Moses Wash (EDW) City of Kingman Downtown WWTP outfall to 3 km downstream CL Holv Moses Wash From 3 km downstream of City of Kingman Downtown WWTP outfall to confluence with Sammill Wash CL Hunter's Hole Backwater 32*3113'/114'24807'. CL Imperial Reservoir 32*5302'/114'2754'. CL Jaguna Reservoir 32*5135'/114'2829'. CL Lake Havasu 34*3518'/114'2847'. CL Lake Mohave 35*26581'/114'2847'. CL Lake Mohave 35*26581'//114'2847'. CL Martinez Lake 32*649'///114'2809'. CL Miltry Lake 32*49'////////////////////////////////////	<u>CL</u>	Colorado River	Lake Mead to Topock Marsh
GL Holy Moses Wash Headwaters to City of Kingman Downtown WWTP outfall at 35°10'33'/114'03'46' GL Holy Moses Wash (EDW) City of Kingman Downtown WWTP outfall to 3 km downstream GL Holy Moses Wash Erom 3 km downstream of City of Kingman Downtown WWTP outfall to confluence with Sawmill Wash GL Hunter's Hole Backwater 32°3113'/114'/38'07' GL Imperial Reservoir 32°5302'/114'/2754' GL Island Lake 33°0144'/114'/38'/42' GL Laguna Reservoir 32°5135'/114'/28'/29' GL Lake Havasu 34°3518'/114'/28'/29' GL Lake Mohave 35°26'58'/114''38'/30' GL Mattric Lake 32°49'17'/114'/28'/39' GL Mittry Lake 32°49'17'/114'/28'/39' GL Mohave Wash Headwaters to Lower Colorado River GL Painted Rock (Borrow Pit) Lake 33°02'80'/114'/37'/59' GL Painted Rock (Borrow Pit) Lake 33°1951'/114'/42'19' GL Pretty Water Lake 33°1951'/114'/42'19' GL Quigley Pond 32'/43'/113'/57'/44' GL Redondo Lake 3	<u>CL</u>	Colorado River	Topock Marsh to Morelos Dam
CL Holy Moses Wash (EDW) City of Kingman Downtown WWTP outfall to 3 km downstream CL Holy Moses Wash From 3 km downstream of City of Kingman Downtown WWTP outfall to confluence with Sawmill Wash CL Hunter's Hole Backwater 32°3113°114'14'80'7' CL Imperial Reservoir 32°5302'114'2754' CL Island Lake 33°0144'114'364'2' CL Laguna Reservoir 32°5135'114'2829' CL Lake Havasu 34°35'18'114'38'30' CL Lake Mohave 35°258'114'38'30' CL Martinez Lake 32°49'17'114'28'09' CL Miltry Lake 32°49'17'114'28'09' CL Mohave Wash Headwaters to Lower Colorado River CL Nortons Lake 33°02'30'114'37'57'9' CL Painted Rock (Borrow Pit) Lake 33°1951'114'0117' CL Pratty Water Lake 33'1951'114'14'42'19' CL Quigley Pond 32'44'32'114'12'29'03' CL Redondo Lake 32'44'32'114'12'90'3' CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Cany	CL	Gila River	Painted Rock Dam to confluence with the Colorado River
CL Holv Moses Wash From 3 km downstream of City of Kingman Downtown WWTP outfall to confluence with Sammill Wash CL Hunter's Hole Backwater 32°31'13'/114'48'07' CL Imperial Reservoir 32°53'02'/114'2754' CL Island Lake 33°01'44'/114'36'42' CL Laguna Reservoir 32°51'35'/114'28'29' CL Lake Havasu 34°35'18'/114'25'47' CL Lake Mohave 35°26'58'/114'28'09' CL Martinez Lake 32°54'69'/114'28'09' CL Mittry Lake 32°49'/17/114'27'54' CL Mohave Wash Headwaters to Lower Colorado River CL Notons Lake 33°02'30'/114''37'59' CL Painted Rock (Borrow Pit) Lake 33°02'30'/114''37'59' CL Pretty Water Lake 33°1951'/114''42'19' CL Pretty Water Lake 32°43'40'//113''57'44' CL Redonol Lake 32°43'20'//114''29''93'' CL Redonol Lake 32°43'20'//114''29''93'' CL Saxmill Canyon Headwaters to Topock Marsh CL Saxmill Canyon <td< td=""><td><u>CL</u></td><td>Holy Moses Wash</td><td>Headwaters to City of Kingman Downtown WWTP outfall at 35°10'33"/114°03'46"</td></td<>	<u>CL</u>	Holy Moses Wash	Headwaters to City of Kingman Downtown WWTP outfall at 35°10'33"/114°03'46"
CL Hunter's Hole Backwater 32°31'13'/114°48'07" CL Imperial Reservoir 32°53'02'/114°27'54" CL Island Lake 33°01'44'/114°36'42" CL Laguna Reservoir 32°51'35'/114°28'29" CL Lake Havasu 34°35'18'/114°25'47" CL Lake Mohave 35°26'58'/114°38'30" CL Martinez Lake 32°58'49'/114'28'09" CL Mittry Lake 32°49'/114'28'09" CL Mohave Wash Headwaters to Lower Colorado River CL Notons Lake 33°02'30'/114'37'59' CL Painted Rock (Borrow Pit) Lake 33°04'55'/13'01'17' CL Perity Water Lake 33°04'55'/13'01'17' CL Pretty Water Lake 32°43'40'/113'55'/44' CL Quigley Pond 32°43'20'/113'57'/44' CL Redondo Lake 32°43'21'/114''29'03' CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35''09'45'/113''57'55' CL Sawmill Canyon Below abandoned gaging station to conflue	CL	Holy Moses Wash (EDW)	City of Kingman Downtown WWTP outfall to 3 km downstream
CL Imperial Reservoir 32*53*02*/114*27*54** CL Island Lake 33*0144*/114*36*42** CL Laguna Reservoir 32*51*35*/114*28*29** CL Lake Havasu 34*35*18*/114*25*47** CL Lake Mohave 35*26*58*/114*38*30** CL Martinez Lake 32*58*9*/114*28*90** CL Mittry Lake 32*49*17*/114*27*54** CL Mohave Wash Headwaters to Lower Colorado River CL Nortons Lake 33*02*30*/114*3*0*117** CL Painted Rock (Borrow Pit) Lake 33*04*55*/113*0*117* CL Pretty Water Lake 33*19*51*/114*24*19* CL Pretty Water Lake 33*19*51*/114*24*19* CL Quigley Pond 32*43*40*/1113*57*44* CL Redondo Lake 32*43*20*/114*29*03** CL Sacramento Wash Headwaters to abandoned gaging station at 35*09*45*/113*57*56* CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL	<u>CL</u>	Holy Moses Wash	From 3 km downstream of City of Kingman Downtown WWTP outfall to confluence with Sawmill Wash
CL Island Lake 33°01'44'/114°36'42' CL Laguna Reservoir 32°51'35'/114°28'29' CL Lake Havasu 34°35'18'/114°25'47" CL Lake Mohave 35°26'58'/114°38'30'' CL Martinez Lake 32°58'49'/114°28'09'' CL Mittry Lake 32°49'17'/114°27'54'' CL Mohave Wash Headwaters to Lower Colorado River CL Notrons Lake 33°02'30'/114°37'59'' CL Painted Rock (Borrow Pit) Lake 33°02'30'/114°37'59'' CL Pretty Water Lake 33°19'51"//114°42'19'' CL Pretty Water Lake 33°19'51"//114°42'19'' CL Redondo Lake 32°44'32"//114°29'03'' CL Redondo Lake 32°44'32"//114°29'03'' CL Sacramento Wash Headwaters to abandoned gaging station at 35°09'45'///113°57'56' CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Tyson Wash (EDW) Town of Quartzsite WWTP outfall at 33°42'39'/ 114°13'10" to 1	<u>CL</u>	Hunter's Hole Backwater	32°31'13"/114°48'07"
CL Laguna Reservoir 32°51'35'/114°25'47" CL Lake Havasu 34°35'18"/114°25'47" CL Lake Mohave 35°26'58'/114°38'30" CL Martinez Lake 32°58'49"/114°28'09" CL Mittry Lake 32°49'17"/114°27'54" CL Mohave Wash Headwaters to Lower Colorado River CL Nortons Lake 33°02'30"/114°37'59" CL Painted Rock (Borrow Pit) Lake 33°02'30"/113°57'44" CL Pretty Water Lake 33°19'51"/114°42'19" CL Pretty Water Lake 32°44'30"/113°57'44" CL Redondo Lake 32°44'32"/114°29'03" CL Redondo Lake 32°44'32"/114°29'03" CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09'45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW) Town of Quartzsite WWTP outfail at 33°42'39'/114°13'10" to 1 km downstream CL<	<u>CL</u>	Imperial Reservoir	32°53'02"/114°27'54"
CL Lake Havasu 34°35′18″/114°25′47″ CL Lake Mohave 35°26′58″/114°38′30″ CL Martinez Lake 32°58′49″/114°28′09″ CL Mittry Lake 32°49′17″/114°27′54″ CL Mohave Wash Headwaters to Lower Colorado River CL Nortons Lake 33°02′30″/114°37′59″ CL Painted Rock (Borrow Pit) Lake 33°02′30″/114°37′59″ CL Pretty Water Lake 33°19′51″/114°42′19″ CL Pretty Water Lake 33°19′51″/114°42′19″ CL Redondo Lake 32°44′32″/114°29′03″ CL Redondo Lake 32°44′32″/114°29′03″ CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09′45″/113°57′56″ CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43′27″/114°28′59″ CL Tyson Wash (EDW) Town of Quartzsite WWTP outfall at 33°42′39″/ 114°13′10″ to 1 km downstream CL Yuma Area Canals Above municipal water treatment plant intakes and all drain	CL	Island Lake	33°01'44"/114°36'42"
CL Lake Mohave 35°26'58"/114°38'30" CL Martinez Lake 32°58'49"/114°28'09" CL Mittry Lake 32°49'17"/114°27'54" CL Mohave Wash Headwaters to Lower Colorado River CL Nortons Lake 33°02'30"/114°37'59" CL Painted Rock (Borrow Pit) Lake 33°04'55"/113°01'17" CL Pretty Water Lake 33°19'51"/114°42'19" CL Pretty Water Lake 32°43'40"/113°57'44" CL Redondo Lake 32°44'32"/114°29'03" CL Redondo Lake 32°44'32"/114°29'03" CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09/45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW) Town of Quartzsite WWTP outfall at 33°42'39"/114°13'10" to 1 km downstream CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatmen	<u>CL</u>	Laguna Reservoir	32°51'35"/114°28'29"
CL Martinez Lake 32°58'49"/114°28'09" CL Mittry Lake 32°49'17"/114°27'54" CL Mohave Wash Headwaters to Lower Colorado River CL Nortons Lake 33°02'30"/114°37'59" CL Painted Rock (Borrow Pit) Lake 33°04'55"/113°01'17" CL Pretty Water Lake 33°19'51"/114°42'19" CL Quigley Pond 32°43'40"/113°57'44" CL Redondo Lake 32°44'32"/114°29'03" CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09'45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW) Town of Quartzsite WWTP outfall at 33°42'39"/114°13'10" to 1 km downstream CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains	<u>CL</u>	Lake Havasu	34°35'18"/114°25'47"
CL Mittry Lake 32°49'17"/114°27'54" CL Mohave Wash Headwaters to Lower Colorado River CL Nortons Lake 33°02'30"/114°37'59" CL Painted Rock (Borrow Pit) Lake 33°04'55"/113°01'17" CL Pretty Water Lake 33°19'51"/114°42'19" CL Quigley Pond 32°43'40"/113°57'44" CL Redondo Lake 32°43'20"/114°29'03" CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09'45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW) Town of Quartzsite WWTP outfall at 33°42'39"/ 114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Below municipal water treatment plant intakes and all drains	<u>CL</u>	Lake Mohave	35°26'58"/114°38'30"
CL Mohave Wash Headwaters to Lower Colorado River CL Nortons Lake 33°02'30"/114°37'59" CL Painted Rock (Borrow Pit) Lake 33°04'55"/113°01'17" CL Pretty Water Lake 33°19'51"/114°42'19" CL Quidley Pond 32°43'40"/113°57'44" CL Redondo Lake 32°44'32"/114°29'03" CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09'45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW) Town of Quartzsite WWTP outfall at 33°42'39"/114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes and all drains	CL	Martinez Lake	32°58'49"/114°28'09"
CL Nortons Lake 33°02'30"/114°37'59" CL Painted Rock (Borrow Pit) Lake 33°04'55"/113°01'17" CL Pretty Water Lake 33°19'51"/114°42'19" CL Quigley Pond 32°43'40"/113°57'44" CL Redondo Lake 32°44'32"/114°29'03" CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09'45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW) Town of Quartzsite WWTP outfall at 33°42'39"/114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes and all drains	<u>CL</u>	Mittry Lake	32°49'17"/114°27'54"
CL Pretty Water Lake 33°04'55"/113°01'17" CL Quigley Pond 32°43'40"/113°57'44" CL Redondo Lake 32°44'32"/114°29'03" CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09'45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW) Town of Quartzsite WWTP outfall at 33°42'39"/114°13'10" to 1 km downstream CL Yuma Area Canals Above municipal water treatment plant intakes and all drains	<u>CL</u>	Mohave Wash	Headwaters to Lower Colorado River
CL Pretty Water Lake 33°19'51"/114°42'19" CL Quigley Pond 32°43'40"/113°57'44" CL Redondo Lake 32°44'32"/114°29'03" CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09'45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW) Town of Quartzsite WWTP outfall at 33°42'39"/ 114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains	<u>CL</u>	Nortons Lake	33°02'30"/114°37'59"
CL Quigley Pond 32°43'40"/113°57'44" CL Redondo Lake 32°44'32"/114°29'03" CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09'45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW) Town of Quartzsite WWTP outfall at 33°42'39"/ 114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains	CL	Painted Rock (Borrow Pit) Lake	33°04'55"/113°01'17"
CL Redondo Lake 32°44'32"/114°29'03" CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09'45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW) Town of Quartzsite WWTP outfall at 33°42'39"/ 114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains	<u>CL</u>	Pretty Water Lake	33°19'51"/114°42'19"
CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09'45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW). Town of Quartzsite WWTP outfall at 33°42'39"/114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains	<u>CL</u>	Quigley Pond	32°43'40"/113°57'44"
CL Sacramento Wash Headwaters to Topock Marsh CL Sawmill Canyon Headwaters to abandoned gaging station at 35°09'45"/113°57'56" CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW). Town of Quartzsite WWTP outfall at 33°42'39"/114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains	<u>CL</u>	Redondo Lake	32°44'32"/114°29'03"
CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW). Town of Quartzsite WWTP outfall at 33°42'39"/114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains		Sacramento Wash	Headwaters to Topock Marsh
CL Sawmill Canyon Below abandoned gaging station to confluence with Holy Moses Wash CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW). Town of Quartzsite WWTP outfall at 33°42'39"/114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains		Sawmill Canyon	Headwaters to abandoned gaging station at 35°09'45"/113°57'56"
CL Topock Marsh 34°43'27"/114°28'59" CL Tyson Wash (EDW). Town of Quartzsite WWTP outfall at 33°42'39"/ 114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains		Sawmill Canyon	Below abandoned gaging station to confluence with Holy Moses Wash
CL Tyson Wash (EDW). Town of Quartzsite WWTP outfall at 33°42'39"/ 114°13'10" to 1 km downstream CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains	<u>CL</u>	Topock Marsh	34°43'27"/114°28'59"
CL Wellton Canal Wellton-Mohawk Irrigation District CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains		Tyson Wash (EDW)	Town of Quartzsite WWTP outfall at 33°42'39"/ 114°13'10" to 1 km downstream
CL Yuma Area Canals Above municipal water treatment plant intakes CL Yuma Area Canals Below municipal water treatment plant intakes and all drains		Wellton Canal	Wellton-Mohawk Irrigation District
CL Yuma Area Canals Below municipal water treatment plant intakes and all drains			Above municipal water treatment plant intakes
		<u> </u>	
	CL	Castle Dome Wash	Headwaters to Gila River @ 32 <u+00b0>45'41.57"/114<u+00b0>23'43.79"</u+00b0></u+00b0>

Ashurat Lake	LC	Als Lake	35°02'10"/111°25'17"
Acheson Reservoir		Ashurst Lake	
		Atcheson Reservoir	33°59'59"/109°20'43"
LC Bear Canyon Creek		Auger Creek	Headwaters to confluence with Nutrioso Creek
LC Bear Carryon Creek Headwaters to confluence with Willow Creek LC Beacker Late 34*24'007'111*'00'05' LC Block Carryon Headwaters to confluence with Show Low Creek LC Bligh Creek Headwaters to confluence with Show Low Creek LC Black Carryon Lake 34*2072***/101**2013** LC Black Carryon Lake 34*2072**/101**2013** LC Bow and Arrow Wash Headwaters to confluence with Rio de Flag LC Buck Springs Carryon Creek Headwaters to confluence with Leonard Carryon Creek LC Buck Springs Carryon Creek Headwaters to confluence with Leonard Carryon Creek LC Carriero Lake 34*2020***109**2014** LC Carriero Lake 34*2020***109**2014** LC Chevelon Creek Headwaters to confluence with the Little Colorado River LC Chevelon Creek Headwaters to confluence with Nutrioso Creek LC Chevelon Creek Headwaters to confluence with Nutrioso Creek LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Creek Headwaters to confluence with Nutrioso Cr	LC	Barbershop Canyon Creek	Headwaters to confluence with East Clear Creek
LC Beacher Lake 34°24'00'111'100'18'23'' LC Becker Lake 34°09'11'109'18'23'' LC Billy Creek Headwaters to confluence with Show Low Creek LC Black Carvon Headwaters to confluence with Show Low Creek LC Black Carvon Lake 34°20'22'110'40'13'' LC Bow and Arrow Wash Headwaters to confluence with Rio de Flag LC Bunch Reservoir 34°20'22'1109'26'45'' LC Bunch Reservoir 34°20'20'1109'26'45'' LC Chevelon Carvon Lake 34°29'18'110''49'30'' LC Chevelon Carvon Lake 34°29'18'110''49'30'' LC Chevelon Creek Headwaters to confluence with the Little Colorado River LC Chevelon Creek Headwaters to confluence with the Little Colorado River LC Chies Creek Headwaters to confluence with Nutriose Creek LC Chies Creek Headwaters to confluence with Nutriose Creek LC Colter Creek Headwaters to confluence with Nutriose Creek LC Colter Creek Headwaters to confluence with Carrizo Wash LC Colter Creek <td></td> <td>Bear Canyon Creek</td> <td>Headwaters to confluence with General Springs Canyon</td>		Bear Canyon Creek	Headwaters to confluence with General Springs Canyon
LC Beacker Lake 34*09*11*7109*18*22* LC Billy Creek Headwaters to confluence with Show Low Creek LC Black Canyon Headwaters to confluence with Chevelon Creek LC Black Canyon Lake 34*2032*110*40*13* LC Bow and Arrow Wash Headwaters to confluence with Rio de Flag LC Bunck Springs Canyon Creek Headwaters to confluence with Leonard Canyon Creek LC Bunch Reservoir 34*202*0*109*26*48* LC Camero Lake 34*02*0*70109*26*48* LC Chevelon Canyon Lake 34*22*18*110*49*30* LC Chevelon Creek Headwaters to confluence with the Little Colorado River LC Chevelon Creek West Fork Headwaters to confluence with the Little Colorado River LC Chilson Tank 34*5143*111*2254* LC Clear Creek Headwaters to confluence with the Little Colorado River LC Clear Creek Reservoir 34*5799*110*39*14* LC Colorado Reservoir 35*50005*7111*24*10* LC Colorado Reservoir 35*50005*7111*24*10* LC Colorado Creek	LC	Bear Canyon Creek	Headwaters to confluence with Willow Creek
Description Headwaters to confluence with Show Low Creek	LC	Bear Canyon Lake	34°24'00"/111°00'06"
LC Black Canyon Headwaters to confluence with Chevelon Creek LC Black Canyon Lake 34°20'32'110°40'13° LC Bow and Arrow Wesh Headwaters to confluence with Rio de Flag LC Bunck Reservoir 34°20'20'1109'26'48° LC Bunch Reservoir 34°00'20'1109'26'48° LC Carnero Lake 34°00'57'1109'21'42' LC Chevelon Canyon Lake 34'29'18'1110'49'30' LC Chevelon Creek Headwaters to confluence with the Little Colorado River LC Chevelon Creek Headwaters to confluence with Chevelon Creek LC Chilson Tank 34'51'43'111'22'54' LC Chilson Tank 34'51'43'111'22'54' LC Chilson Tank 34'51'43'111'22'54' LC Chevel Reservoir 35'000'5'111'24'10' LC Clear Creek Headwaters to confluence with Nutrioso Creek LC Colter Creek Headwaters to confluence with Carrizo Wash LC Contract 33'56'39'1109'38'14' LC Conv Lake 34'56'37'109'37'109'37'10'3'37'10'3' LC <	LC	Becker Lake	34°09'11"/109°18'23"
LC Black Canvon Lake 34*2032**/110**40**13** LC Bow and Arrow Wash Headwaters to confluence with Rio de Flaq LC Buck Springs Canyon Creek Headwaters to confluence with Leonard Canyon Creek LC Bunch Reservoir 34*0220**/109**26*48** LC Chevelon Canvon Lake 34*29**18**/110**49*30** LC Chevelon Creek Headwaters to confluence with the Little Colorado River LC Chevelon Creek West Fork Headwaters to confluence with Chevelon Creek LC Chilson Tank 34*5719**111**27**21** LC Chilson Tank 34*5709**110**39**14** LC Clear Creek Headwaters to confluence with the Little Colorado River LC Clear Creek Headwaters to confluence with Nutrioso Creek LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34*263**7**109**37**40* LC Concho Lake 34*263**7**109**37**40* LC Cove Creek Headwaters to confluence with the Little Colorado River <t< td=""><td>LC</td><td>Billy Creek</td><td>Headwaters to confluence with Show Low Creek</td></t<>	LC	Billy Creek	Headwaters to confluence with Show Low Creek
LC Bow and Arrow Wash Headwaters to confluence with Rio de Flag LC Buck Springs Canyon Creek Headwaters to confluence with Leonard Canyon Creek LC Bunch Reservoir 34°02′20′109°26′48°. LC Camero Lake 34°02′20′109°26′48°. LC Chevelon Canyon Lake 34°29′18′110′49′30°. LC Chevelon Creek Headwaters to confluence with the Little Colorado River LC Chevelon Creek West Fork Headwaters to confluence with Chevelon Creek LC Chilson Tank 34°51′33′111°22′25′1 LC Chilson Tank 34°57′30′110′39′14°. LC Clear Creek Headwaters to confluence with the Little Colorado River LC Clear Creek Headwaters to confluence with Nutrioso Creek LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Reservoir 33°56′39′109°28′53°. LC Conto Creek Headwaters to confluence with Carrizo Wash LC Conto Lake 34°53′14′111°1551′ LC Covote Cree	<u>LC</u>	Black Canyon	Headwaters to confluence with Chevelon Creek
LC Buck Springs Canyon Creek Headwaters to confluence with Leonard Canyon Creek LC Bunch Reservoir 34°02'20'1109'26'48'* LC Camero Lake 34°05'7'109'31'42'* LC Chevelon Canyon Lake 34°29'18'110'49'30'* LC Chevelon Creek Headwaters to confluence with the Little Colorado River LC Chevelon Creek Headwaters to confluence with Chevelon Creek LC Chison Tank 34°5143''111''22'54' LC Cliear Creek Headwaters to confluence with the Little Colorado River LC Cliear Creek Headwaters to confluence with Nutrioso Creek LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Creek Headwaters to confluence with Carrizo Wash LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°26'37'109'37'40' LC Concho Lake 34°26'37'111'31'31'31'31' LC Concho Lake 34°32'40'111'11'33' LC Covole Creek Headwaters to confluence with the Little Colorado River LC Crisis Lake (<u>LC</u>	Black Canyon Lake	34°20'32"/110°40'13"
LC Bunch Reservoir 34*0220*/109*2648* LC Carmero Lake 34*0657*/109*3142* LC Chevelon Canyon Lake 34*29*18*/110*4930* LC Chevelon Creek Headwaters to confluence with the Little Colorado River LC Chevelon Creek West Fork Headwaters to confluence with Chevelon Creek LC Chilson Tank 34*5143*/111*22*54* LC Cliear Creek Headwaters to confluence with the Little Colorado River LC Clear Creek Headwaters to confluence with the Little Colorado River LC Clear Creek Reservoir 34*5709*/110*39*14** LC Coconino Reservoir 35*0005*/111*24*10* LC Cotter Reservoir 33*56*39*/109*28*53** LC Cotter Reservoir 33*56*39*/109*28*53** LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34*263*7*/109*37*40* LC Covole Creek Headwaters to confluence with the Little Colorado River LC Covole Creek Headwaters to confluence with Barbershop Canyon Creek LC Crisis Lake (Snake Tank #2) <td><u>LC</u></td> <td>Bow and Arrow Wash</td> <td>Headwaters to confluence with Rio de Flag</td>	<u>LC</u>	Bow and Arrow Wash	Headwaters to confluence with Rio de Flag
LC Carnero Lake 34°06'57'/109°31'42° LC Chevelon Caryon Lake 34°29'18'/110°49'30° LC Chevelon Creek Headwaters to confluence with the Little Colorado River LC Chevelon Creek. West Fork Headwaters to confluence with Chevelon Creek LC Chilson Tank 34°51'43'/111°22'54' LC Clear Creek Headwaters to confluence with the Little Colorado River LC Clear Creek Headwaters to confluence with Nutrioso Creek LC Coconino Reservoir 35°0005'/111°24'10° LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Reservoir 33°56'39'/109°28'53" LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°26'37'/109°37'40" LC Concho Lake 34°25'31'/111°18'51" LC Covote Creek Headwaters to confluence with the Little Colorado River LC Covote Creek Headwaters to confluence with Barbershop Canyon Creek LC Crisis Lake (Snake Tank #2) 34°37'47'111°17'15' LC Dane Canyon Cree	LC	Buck Springs Canyon Creek	Headwaters to confluence with Leonard Canyon Creek
LG Chevelon Carryon Lake 34°29'18'/110°49'30' LG Chevelon Creek Headwaters to confluence with the Little Colorado River LG Chevelon Creek Headwaters to confluence with Chevelon Creek LG Chilson Tank 34°51'43'/11'22'54' LC Clear Creek Headwaters to confluence with the Little Colorado River LC Clear Creek Reservoir 34°57'09'/110°39'14' LC Coconino Reservoir 35°00'05'/111°24'10' LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Reservoir 33°56'39'/109°28'53'' LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°26'37'/109°37'40'' LC Concho Lake 34°25'14'/111°16'51'' LC Covote Creek Headwaters to confluence with the Little Colorado River LC Covote Creek Headwaters to confluence with Barbershop Canyon Creek LC Crasin Reservoir (formerly Blue Ridge 34°32'40'/111°17'32'' LC Crasin Reservoir (formerly Blue Ridge Reservoir) 34°32'40'/111°17'11'' LC	LC	Bunch Reservoir	<u>34°02'20"/109°26'48"</u>
LG Chevelon Creek Headwaters to confluence with the Little Colorado River LG Chevelon Creek. West Fork Headwaters to confluence with Chevelon Creek LG Chilson Tank 34°51'43"/111" 22'54" LG Clear Creek Headwaters to confluence with the Little Colorado River LG Clear Creek Reservoir 34°57'09"/110"39'14" LC Coconino Reservoir 35°000'57'/111"24'10" LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°26'37"/109"37'40" LC Concho Lake 34°26'37"/109"37'40" LC Cov Lake 34°32'31'41"11"18'51" LC Covole Creek Headwaters to confluence with the Little Colorado River LC Cragin Reservoir (formerly Blue Ridge Reservoir) 34'32'40'111"113'32" LC Cragin Reservoir (Formerly Blue Ridge Reservoir) 34'42'21'111"117'32" LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek </td <td><u>LC</u></td> <td>Carnero Lake</td> <td><u>34°06'57"/109°31'42"</u></td>	<u>LC</u>	Carnero Lake	<u>34°06'57"/109°31'42"</u>
LC Chevelon Creek. West Fork Headwaters to confluence with Chevelon Creek LC Chison Tank 34°51'43″/111°22′54″ LC Clear Creek Headwaters to confluence with the Little Colorado River LC Clear Creek Headwaters to confluence with the Little Colorado River LC Coconino Reservoir 35°00'05″/11°24′10° LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Reservoir 33°56'39″/109°28′53" LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°26'37″/109°37′40° LC Concho Lake 34°26'37″/109°37′40° LC Cow Lake 34°53'14″/111°18′51″ LC Covole Creek Headwaters to confluence with the Little Colorado River LC Covole Creek Headwaters to confluence with Barbershop Canyon Creek LC Crisis Lake (Snake Tank #2) 34°47'51″/11°17'15″ LC Daves Tank 34°44'22″/111°17'15″ LC Daves Tank 34°44'22″/111°25'00″ LC Deep Lake 35°03'34″/111°25'00″ </td <td><u>LC</u></td> <td>Chevelon Canyon Lake</td> <td><u>34°29'18"/110°49'30"</u></td>	<u>LC</u>	Chevelon Canyon Lake	<u>34°29'18"/110°49'30"</u>
LC Chilson Tank 34°51'43"/111°22'54" LC Clear Creek Headwaters to confluence with the Little Colorado River LC Clear Creek Reservoir 34°57'09"/110°39'14" LC Coconino Reservoir 35°00'05"/111°24'10" LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Reservoir 33°56'39"/109°28'53" LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°26'37"/109°37'40" LC Cow Lake 34°26'37"/109°37'40" LC Cow Lake 34°26'37"/109°37'40" LC Cow Lake 34°314"/111°18'51" LC Covole Creek Headwaters to confluence with the Little Colorado River LC Covole Creek Headwaters to confluence with Barbershop Canyon Creek LC Crisis Lake (Snake Tank #2) 34°47'51"/111°17'32" LC Daves Tank 34°44'22"/111°17'15" LC Deep Lake 35°03'34"/111°25'00" LC Ducksnest Lake 34°525'110'32'57" LC East Clear Creek	LC	Chevelon Creek	Headwaters to confluence with the Little Colorado River
LC Clear Creek Headwaters to confluence with the Little Colorado River LC Clear Creek Reservoir 34°57′09″110°39′14″ LC Coconino Reservoir 35°00′05″111°24′10″ LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Reservoir 33°56′39″109°28′53″ LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°26′37″109°37′40″ LC Cow Lake 34°53′14″111°18′51″ LC Cov Lake 34°32′41″111°18′51″ LC Coyole Creek Headwaters to confluence with the Little Colorado River LC Cragin Reservoir (formerly Blue Ridge Reservoir) 34°32′40″/111°11′33″ LC Crisis Lake (Snake Tank #2) 34°47′51″/111°17′32″ LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44′22″/111°17′15″ LC Daves Tank 35°03′34″/111°25′00″ LC Ducksnest Lake 35°03′34″/111°23′57″ LC East Clear Creek Headwaters to confluence with Clear Creek	<u>LC</u>	Chevelon Creek, West Fork	Headwaters to confluence with Chevelon Creek
LC Clear Creek Reservoir 34°57'09"/110°39'14" LC Coconino Reservoir 35°0005"/111°24'10" LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Conter Reservoir 33°56'39"/109°28'53" LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°26'37"/109°37'40" LC Cow Lake 34°53'14"/111°18'51" LC Covote Creek Headwaters to confluence with the Little Colorado River LC Cragin Reservoir (formerly Blue Ridge Reservoir) 34°32'40"/111°11'33" LC Crisis Lake (Snake Tank #2) 34°47'51"/111°17'32" LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44'22"/111°11'27'51'' LC Daves Tank 34°44'22"/111°11'25'00'' LC Ducksnest Lake 34°59'14"/111°23'57" LC East Clear Creek Headwaters to confluence with Clear Creek LC Elis Wiltbank Reservoir 34°05'25"/109°28'25" LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111'	<u>LC</u>	Chilson Tank	34°51'43"/111°22'54"
LC Cooter Creek Headwaters to confluence with Nutrioso Creek LC Colter Reservoir 33°56′39″1/09°28′53″ LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°26′37″1/09°37′40″ LC Cow Lake 34°53′14″1/11°18′51″ LC Cov Lake 34°53′14″1/11°18′51″ LC Covote Creek Headwaters to confluence with the Little Colorado River LC Cragin Reservoir (formerly Blue Ridge Reservoir) 34°32′40″/111°11′33″ LC Crisis Lake (Snake Tank #2) 34°47′51″/111°17′32″ LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44′22″/111°17′15″ LC Daves Tank 34°44′22″/111°217′15″ LC Deep Lake 35°03′34″/111°25′00″ LC Ducksnest Lake 34°59′14″/111°235′7″ LC East Clear Creek Headwaters to confluence with Clear Creek LC Elis Wiltbank Reservoir 34°05′25″/109°28′25″ LC Estates at Pine Canyon lakes (EDW) 35°09′32″/111°38′26″ <t< td=""><td><u>LC</u></td><td><u>Clear Creek</u></td><td>Headwaters to confluence with the Little Colorado River</td></t<>	<u>LC</u>	<u>Clear Creek</u>	Headwaters to confluence with the Little Colorado River
LC Colter Creek Headwaters to confluence with Nutrioso Creek LC Colter Reservoir 33°56'39"/109°28'53" LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°26'37"/109°37'40" LC Cow Lake 34°53'14"/111°18'51" LC Covote Creek Headwaters to confluence with the Little Colorado River LC Cragin Reservoir (formerly Blue Ridge Reservoir) 34°32'40"/111°11'33" LC Crisis Lake (Snake Tank #2) 34°47'51"/111°17'32" LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44'22"/111°17'15" LC Deep Lake 35°03'34"/111°25'00" LC Ducksnest Lake 34°59'14"/111°23'57" LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05'25"/109°28'25' LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111"38'26" LC Fish Creek Headwaters to confluence with the Little Colorado River	LC	Clear Creek Reservoir	34°57'09"/110°39'14"
LC Colter Reservoir 33°56′39″/109°28′53″ LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°52′17″/109°37′40″ LC Cow Lake 34°53′14″/111°18′51″ LC Coyote Creek Headwaters to confluence with the Little Colorado River LC Cragin Reservoir (formerly Blue Ridge Reservoir) 34°32′40″/111°11′33″ LC Crisis Lake (Snake Tank #2) 34°47′51″/111°17′32″ LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44′22″/111°17′15″ LC Deep Lake 35°03′34″/111°25′00″ LC Ducksnest Lake 34°55′914″/111°25′57″ LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05′25″/109°28′25″ LC Estates at Pine Canyon lakes (EDW) 35°09′32″/111°38′26″ LC Fish Creek Headwaters to confluence with the Little Colorado River	<u>LC</u>	Coconino Reservoir	35°00'05"/111°24'10"
LC Concho Creek Headwaters to confluence with Carrizo Wash LC Concho Lake 34°26'37"/109°37'40" LC Cow Lake 34°53'14"/111°18'51" LC Coyote Creek Headwaters to confluence with the Little Colorado River LC Cragin Reservoir (formerly Blue Ridge Reservoir) 34°32'40"/111°11'33" LC Crisis Lake (Snake Tank #2) 34°47'51"/111°17'32" LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44'22"/111°17'15" LC Deep Lake 35°03'34"/111°23'57" LC Ducksnest Lake 34°59'14"/111°23'57" LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05'25"/109°28'25" LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111°38'26" LC Fish Creek Headwaters to confluence with the Little Colorado River	<u>LC</u>	Colter Creek	Headwaters to confluence with Nutrioso Creek
LC Concho Lake 34°26'37"/109°37'40" LC Cow Lake 34°53'14"/111°18'51" LC Coyote Creek Headwaters to confluence with the Little Colorado River LC Cragin Reservoir (formerly Blue Ridge Reservoir) 34°32'40"/111°11'33" LC Crisis Lake (Snake Tank #2) 34°47'51"/111°17'32" LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44'22"/111°17'15" LC Deep Lake 35°03'34"/111°25'00" LC Ducksnest Lake 34°59'14"/111°23'57" LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05'25"/109°28'25" LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111°38'26" LC Eish Creek Headwaters to confluence with the Little Colorado River	<u>LC</u>	Colter Reservoir	33°56'39"/109°28'53"
LC Cow Lake 34°53'14"/111°18'51" LC Coyote Creek Headwaters to confluence with the Little Colorado River LC Cragin Reservoir (formerly Blue Ridge Reservoir) 34°32'40"/111°11'33" LC Crisis Lake (Snake Tank #2) 34°47'51"/111°17'32" LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44'22"/111°17'15" LC Deep Lake 35°03'34"/111°25'00" LC Ducksnest Lake 34°59'14"/111°23'57" LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05'25"/109°28'25" LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111°38'26" LC Fish Creek Headwaters to confluence with the Little Colorado River	LC	Concho Creek	Headwaters to confluence with Carrizo Wash
LC Coyote Creek Headwaters to confluence with the Little Colorado River LC Cragin Reservoir (formerly Blue Ridge Reservoir) 34°32'40"/111°11'33" LC Crisis Lake (Snake Tank #2) 34°47'51"/111°17'32" LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44'22"/111°17'15" LC Deep Lake 35°03'34"/111°25'00" LC Ducksnest Lake 34°59'14"/111°23'57" LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05'25"/109°28'25" LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111°38'26" LC Fish Creek Headwaters to confluence with the Little Colorado River	<u>LC</u>	Concho Lake	34°26'37"/109°37'40"
LC Cragin Reservoir (formerly Blue Ridge Reservoir) 34°32'40"/111°11'33" LC Crisis Lake (Snake Tank #2) 34°47'51"/111°17'32" LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44'22"/111°17'15" LC Deep Lake 35°03'34"/111°25'00" LC Ducksnest Lake 34°59'14"/111°23'57" LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05'25"/109°28'25" LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111°38'26" LC Fish Creek Headwaters to confluence with the Little Colorado River	<u>LC</u>	Cow Lake	34°53'14"/111°18'51"
LC Crisis Lake (Snake Tank #2) 34°47′51″/111°17′32″ LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44′22″/111°17′15″ LC Deep Lake 35°03′34″/111°25′00″ LC Ducksnest Lake 34°59′14″/111°23′57″ LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05′25″/109°28′25″ LC Estates at Pine Canyon lakes (EDW) 35°09′32″/111°38′26″ LC Fish Creek Headwaters to confluence with the Little Colorado River	<u>LC</u>		Headwaters to confluence with the Little Colorado River
LC Crisis Lake (Snake Tank #2) 34°47′51″/111°17′32″ LC Dane Canyon Creek Headwaters to confluence with Barbershop Canyon Creek LC Daves Tank 34°44′22″/111°17′15″ LC Deep Lake 35°03′34″/111°25′00″ LC Ducksnest Lake 34°59′14″/111°23′57″ LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05′25″/109°28′25″ LC Estates at Pine Canyon lakes (EDW) 35°09′32″/111°38′26″ LC Fish Creek Headwaters to confluence with the Little Colorado River	<u>LC</u>		34°32'40"/111°11'33"
LC Daves Tank 34°44'22"/111°17'15" LC Deep Lake 35°03'34"/111°25'00" LC Ducksnest Lake 34°59'14"/111°23'57" LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05'25"/109°28'25" LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111°38'26" LC Fish Creek Headwaters to confluence with the Little Colorado River	LC		34°47'51"/111°17'32"
LC Deep Lake 35°03'34"/111°25'00" LC Ducksnest Lake 34°59'14"/111°23'57" LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05'25"/109°28'25" LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111°38'26" LC Fish Creek Headwaters to confluence with the Little Colorado River	LC	Dane Canyon Creek	Headwaters to confluence with Barbershop Canyon Creek
LC Ducksnest Lake 34°59'14"/111°23'57" LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05'25"/109°28'25" LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111°38'26" LC Fish Creek Headwaters to confluence with the Little Colorado River	<u>LC</u>	<u>Daves Tank</u>	34°44'22"/111°17'15"
LC East Clear Creek Headwaters to confluence with Clear Creek LC Ellis Wiltbank Reservoir 34°05'25"/109°28'25" LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111°38'26" LC Fish Creek Headwaters to confluence with the Little Colorado River	<u>LC</u>	Deep Lake	35°03'34"/111°25'00"
LC Ellis Wiltbank Reservoir 34°05'25"/109°28'25" LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111°38'26" LC Fish Creek Headwaters to confluence with the Little Colorado River	LC	<u>Ducksnest Lake</u>	34°59'14"/111°23'57"
LC Estates at Pine Canyon lakes (EDW) 35°09'32"/111°38'26" LC Fish Creek Headwaters to confluence with the Little Colorado River	LC	East Clear Creek	Headwaters to confluence with Clear Creek
LC Fish Creek Headwaters to confluence with the Little Colorado River	<u>LC</u>	Ellis Wiltbank Reservoir	34°05'25"/109°28'25"
	<u>LC</u>	Estates at Pine Canyon lakes (EDW)	35°09'32"/111°38'26"
LC Fool's Hollow Lake 34°16'30"/110°03'43"	LC	Fish Creek	Headwaters to confluence with the Little Colorado River
	LC	Fool's Hollow Lake	34°16'30"/110°03'43"

LC	General Springs Canyon Creek	Headwaters to confluence with East Clear Creek
LC	Geneva Reservoir	34°01'45"/109°31'46"
LC	Hall Creek	Headwaters to confluence with the Little Colorado River
<u>LC</u>	Hart Canyon Creek	Headwaters to confluence with Willow Creek
LC	Hay Lake	34°00'11"/109°25'57"
LC	Hog Wallow Lake	33°58'57"/109°25'39"
LC	Horse Lake	35°03'55"/111°27'50"
LC	Hulsey Creek	Headwaters to confluence with Nutrioso Creek
LC	Hulsey Lake	33°55'58"/109°09'40"
LC	Indian Lake	35°00'39"/111°22'41"
<u>LC</u>	Jacks Canyon Creek	Headwaters to confluence with the Little Colorado River
LC	Jarvis Lake	33°58'59"/109°12'36"
<u>LC</u>	Kinnikinick Lake	<u>34°53'53"/111°18'18"</u>
LC	Knoll Lake	34°25'38"/111°05'13"
LC	Lake Humphreys (EDW)	35°11'51"/111°35'19"
<u>LC</u>	Lake Mary, Lower	35°06'21"/111°34'38"
<u>LC</u>	Lake Mary, Upper	35°03'23"/111°28'34"
LC	Lake of the Woods	<u>34°09'40"/109°58'47"</u>
<u>LC</u>	Lee Valley Creek (OAW)	Headwaters to Lee Valley Reservoir
<u>LC</u>	Lee Valley Creek	From Lee Valley Reservoir to confluence with the East Fork of the Little Colorado River
<u>LC</u>	Lee Valley Reservoir	33°56'29"/109°30'04"
LC	Leonard Canyon Creek	Headwaters to confluence with Clear Creek
<u>LC</u>	Leonard Canyon Creek, East Fork	Headwaters to confluence with Leonard Canyon Creek
<u>LC</u>	Leonard Canyon Creek, Middle Fork	Headwaters to confluence with Leonard Canyon, West Fork
<u>LC</u>	Leonard Canyon Creek, West Fork	Headwaters to confluence with Leonard Canyon, East Fork
LC	Lily Creek	Headwaters to confluence with Coyote Creek
<u>LC</u>	Little Colorado River	Headwaters to Lyman Reservoir
<u>LC</u>	Little Colorado River	Below Lyman Reservoir to confluence with the Puerco River
<u>LC</u>	Little Colorado River	Below Puerco River confluence to the Colorado River, excluding segments on Native American Lands
<u>LC</u>	Little Colorado River, East Fork	Headwaters to confluence with the Little Colorado River
<u>LC</u>	Little Colorado River, South Fork	Headwaters to confluence with the Little Colorado River
LC	Little Colorado River, West Fork (OAW)	Headwaters to Government Springs
<u>LC</u>	Little Colorado River, West Fork	Below Government Springs to confluence with the Little Colorado River
<u>LC</u>	Little George Reservoir	<u>34°00'37"/109°19'15"</u>
<u>LC</u>	Little Mormon Lake	34°17'00"/109°58'06"
LC	Long Lake, Lower	34°47'16"/111°12'40"
<u>LC</u>	Long Lake, Upper	35°00'08"/111°21'23"
<u>LC</u>	Long Tom Tank	34°20'35"/110°49'22"
<u>LC</u>	Lower Walnut Canyon Lake (EDW)	<u>35°12'04"/111°34'07"</u>
LC	Lyman Reservoir	34°21'21"/109°21'35"

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<u>LC</u>	Mamie Creek	Headwaters to confluence with Coyote Creek
LC	Marshall Lake	35°07'18"/111°32'07"
<u>LC</u>	McKay Reservoir	34°01'27"/109°13'48"
<u>LC</u>	Merritt Draw Creek	Headwaters to confluence with Barbershop Canyon Creek
<u>LC</u>	Mexican Hay Lake	34°01'58"/109°21'25"
LC	Milk Creek	Headwaters to confluence with Hulsey Creek
<u>LC</u>	Miller Canyon Creek	Headwaters to confluence with East Clear Creek
<u>LC</u>	Miller Canyon Creek, East Fork	Headwaters to confluence with Miller Canyon Creek
<u>LC</u>	Morton Lake	<u>34°53'37"/111°17'41"</u>
LC	Mud Lake	34°55'19"/111°21'29"
<u>LC</u>	Ned Lake (EDW)	34°17'17"/110°03'22"
<u>LC</u>	Nelson Reservoir	34°02'52"/109°11'19"
<u>LC</u>	Norton Reservoir	<u>34°03'57"/109°31'27"</u>
LC	Nutrioso Creek	Headwaters to confluence with the Little Colorado River
<u>LC</u>	Paddy Creek	Headwaters to confluence with Nutrioso Creek
<u>LC</u>	Pierce Seep	34°23'39"/110°31'17"
<u>LC</u>	Pine Tank	34°46'49"/111°17'21"
LC	Pintail Lake (EDW)	34°18'05"/110°01'21"
LC	Porter Creek	Headwaters to confluence with Show Low Creek
<u>LC</u>	Puerco River	Headwaters to confluence with the Little Colorado River
<u>LC</u>	Puerco River (EDW)	Sanders Unified School District WWTP outfall at 35°12'52"/109°19'40" to 0.5 km downstream
LC	Rainbow Lake	34°09'00"/109°59'09"
LC	Reagan Reservoir	<u>34°02'09"/109°08'41"</u>
<u>LC</u>	Rio de Flag	Headwaters to City of Flagstaff WWTP outfall at 35°12'21"/111°39'17"
<u>LC</u>	Rio de Flag (EDW)	From City of Flagstaff WWTP outfall to the confluence with San Francisco Wash
LC	River Reservoir	<u>34°02'01"/109°26'07"</u>
<u>LC</u>	Rogers Reservoir	<u>33°56'30"/109°16'20"</u>
<u>LC</u>	Rudd Creek	Headwaters to confluence with Nutrioso Creek
<u>LC</u>	Russel Reservoir	33°59'29"/109°20'01"
LC	San Salvador Reservoir	33°58'51"/109°19'55"
LC	Scott Reservoir	34°10'31"/109°57'31"
<u>LC</u>	Show Low Creek	Headwaters to confluence with Silver Creek
<u>LC</u>	Show Low Lake	34°11'36"/110°00'12"
LC	Silver Creek	Headwaters to confluence with the Little Colorado River
LC	Slade Reservoir	33°59'41"/109°20'26"
<u>LC</u>	Soldiers Annex Lake	34°47'15"/111°13'51"
<u>LC</u>	Soldiers Lake	<u>34°47'47"/111°14'04"</u>
LC	Spaulding Tank	34°30'17"/111°02'06"
LC	St Johns Reservoir (Little Reservoir)	34°29'10"/109°22'06"
<u>LC</u>	Telephone Lake (EDW)	34°17'35"/110°02'42"
<u>LC</u>	Tremaine Lake	34°46'02"/111°13'51"
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<u>LC</u>	Tunnel Reservoir	34°01'53"/109°26'34"
<u>LC</u>	Turkey Draw (EDW)	High Country Pines II WWTP outfall at 33°25'35"/ 110°38'13" to confluence with Black Canyon Creek
<u>LC</u>	Unnamed Wash (EDW)	Bison Ranch WWTP outfall at 34°23'31"/110°31'29" to Pierce Seep
LC	Walnut Creek	Headwaters to confluence with Billy Creek
<u>LC</u>	Water Canyon Creek	Headwaters to confluence with the Little Colorado River
<u>LC</u>	Whale Lake (EDW)	35°11'13"/111°35'21"
<u>LC</u>	Whipple Lake	'34°16'49"/109°58'29"
LC	White Mountain Lake	34°21'57"/109°59'21"
LC	White Mountain Reservoir	<u>34°00'12"/109°30'39"</u>
<u>LC</u>	Willow Creek	Headwaters to confluence with Clear Creek
<u>LC</u>	Willow Springs Canyon Creek	Headwaters to confluence with Chevelon Creek
LC	Willow Springs Lake	34°18'13"/110°52'16"
<u>LC</u>	Woodland Reservoir	34°07'35"/109°57'01"
<u>LC</u>	Woods Canyon Creek	Headwaters to confluence with Chevelon Creek
<u>LC</u>	Woods Canyon Lake	34°20'09"/110°56'45"
LC	Zuni River	Headwaters to confluence with the Little Colorado River
LC	Morrison Creek	Headwaters to Mamie Creek @ 33 <u+00b0>59'24.45"/109<u+00b0>03'51.94"</u+00b0></u+00b0>
<u>LC</u>	Riggs Creek	Headwaters to Nutrioso Creek
LC	Rosey Creek	Headwaters to Benny Creek @ 34 <u+00b0>02'28.72"/109<u+00b0>27'24.3"</u+00b0></u+00b0>
<u>LC</u>	Turkey Creek	Headwaters to Willow Creek @ 34 <u+00b0>29'07.45"/110<u+00b0>59'49.85"</u+00b0></u+00b0>
<u>MG</u>	Agua Fria River	Headwaters to confluence with unnamed tributary at 34°35'14"/112°16'18"
MG	Agua Fria River (EDW)	Below confluence with unnamed tributary to State Route 169
<u>MG</u>	Agua Fria River	From State Route 169 to Lake Pleasant
MG	Agua Fria River	Below Lake Pleasant to the City of El Mirage WWTP at ' 33°34'20"/112°18'32"
<u>MG</u>	Agua Fria River (EDW)	From City of El Mirage WWTP outfall to 2 km downstream
MG.	Agua Fria River	Below 2 km downstream of the City of El Mirage WWTP to City of Avondale WWTP outfall at 33°23'55"/112°21'16"
MG	Agua Fria River	From City of Avondale WWTP outfall to confluence with Gila River
MG	Andorra Wash	Headwaters to confluence with Cave Creek Wash
MG	Antelope Creek	Headwaters to confluence with Martinez Wash
MG	Arlington Canal	Erom Gila River at 33°20'54"/112°35'39" to Gila River at 33°13'44"/112°46'15"
MG	Ash Creek	Headwaters to confluence with Tex Canyon
MG	Ash Creek	Below confluence with Tex Canyon to confluence with Agua Fria River
MG	Beehive Tank	32°52'37"/111°02'20"
MG		Headwaters to confluence with Eugene Gulch
<u>MG</u>	Big Bug Creek	Headwaters to confluence with Eugene Sulen
MG MG	Big Bug Creek Big Bug Creek	Below confluence with Eugene Gulch to confluence with Agua Fria River
MG	Big Bug Creek	Below confluence with Eugene Gulch to confluence with Agua Fria River
MG MG	Big Bug Creek Black Canyon Creek	Below confluence with Eugene Gulch to confluence with Agua Fria River Headwaters to confluence with the Agua Fria River

<u>MG</u>	Centennial Wash	Headwaters to confluence with the Gila River at 33°16'32"/112°48'08"
MG	Centennial Wash Ponds	33°54'52"/113°23'47"
<u>MG</u>	Chaparral Park Lake	Hayden Road & Chaparral Road. Scottsdale at 33°30'40"/111°54'27"
<u>MG</u>	<u>Devils Canyon</u>	Headwaters to confluence with Mineral Creek
<u>MG</u>	East Maricopa Floodway	From Brown and Greenfield Rds to the Gila River Indian Reservation Boundary
MG	Eldorado Park Lake	Miller Road & Oak Street. Tempe at 33°28'25"/ 111°54'53"
<u>MG</u>	Fain Lake	Town of Prescott Valley Park Lake 34°34'29"/ 112°21'06"
<u>MG</u>	French Gulch	Headwaters to confluence with Hassayampa River
<u>MG</u>	Galena Gulch	Headwaters to confluence with the Agua Fria River
MG	Galloway Wash (EDW)	Town of Cave Creek WWTP outfall at 33°50'15"/ 111°57'35" to confluence with Cave Creek
<u>MG</u>	Gila River	San Carlos Indian Reservation boundary to the Ashurst-Hayden Dam
<u>MG</u>	Gila River	Ashurst-Hayden Dam to the Town of Florence WWTP outfall at 33°02'20"/111°24'19"
<u>MG</u>	Gila River (EDW)	Town of Florence WWTP outfall to Felix Road
MG	Gila River	Eelix Road to the Gila River Indian Reservation boundary
<u>MG</u>	Gila River (EDW)	From the confluence with the Salt River to Gillespie Dam
<u>MG</u>	Gila River	Gillespie Dam to confluence with Painted Rock Dam
MG	Groom Creek	Headwaters to confluence with the Hassayampa River
MG	Hassayampa Lake	<u>34°25'45"/112°25'33"</u>
<u>MG</u>	Hassayampa River	Headwaters to confluence with Copper Creek
<u>MG</u>	Hassayampa River	Below confluence with Copper Creek to the confluence with Blind Indian Creek.
<u>MG</u>	Hassayampa River	Below confluence with Blind Indian Creek to the Buckeye Irrigation Company Canal
<u>MG</u>	Hassayampa River	Below Buckeye Irrigation Company canal to the Gila River
<u>MG</u>	Horsethief Lake	<u>34°09'42"/112°17'57"</u>
<u>MG</u>	Indian Bend Wash	Headwaters to confluence with the Salt River
<u>MG</u>	Indian Bend Wash Lakes	Scottsdale at 33°30'32"/111°54'24"
<u>MG</u>	Indian School Park Lake	Indian School Road & Hayden Road. Scottsdale at 33°29'39"/111°54'37"
<u>MG</u>	Kiwanis Park Lake	6000 South Mill Avenue. Tempe at 33°22'27"/ 111°56'22"
<u>MG</u>	Lake Pleasant	<u>33°53'46"/112°16'29"</u>
<u>MG</u>	Lake Pleasant, Lower	<u>33°50'32"/112°16'03"</u>
<u>MG</u>	Lion Canyon	Headwaters to confluence with Weaver Creek
<u>MG</u>	<u>Little Ash Creek</u>	Headwaters to confluence with Ash Creek at
<u>MG</u>	Lynx Creek	Headwaters to confluence with unnamed tributary at 34°34'29"/112°21'07"
MG	<u>Lynx Creek</u>	Below confluence with unnamed tributary at 34°34'29"/112°21'07" to confluence with Agua Eria River
<u>MG</u>	Lynx Lake	34°31'07"/112°23'07"
<u>MG</u>	Martinez Canyon	Headwaters to confluence with Box Canyon
<u>MG</u>	Martinez Wash	Headwaters to confluence with the Hassayampa River
<u>MG</u>	McKellips Park Lake	Miller Road & McKellips Road. Scottsdale at 33°27'14"/111°54'49"
MG	McMicken Wash (EDW)	City of Peoria Jomax WWTP outfall at 33°43'31"/ 112°20'15" to confluence with Agua Fria River
MG_	Mineral Creek	Headwaters to 33°12'34"/110°59'58"
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MG	Mineral Creek (diversion tunnel and lined	33°12'24"/110°59'58" to 33°07'56"/110°58'34"
	channel)	
MG	Mineral Creek	End of diversion channel to confluence with Gila River
<u>MG</u>	Minnehaha Creek	Headwaters to confluence with the Hassayampa River
<u>MG</u>	New River	Headwaters to Interstate 17 at 33°54'19.5"/112°08'46"
MG_	New River	Below Interstate 17 to confluence with Agua Fria River
<u>MG</u>	Painted Rock Reservoir	33°04'23"/113°00'38"
MG	Papago Park Ponds	Galvin Parkway. Phoenix at 33°27'15"/111°56'45"
<u>MG</u>	Papago Park South Pond	Curry Road. Tempe 33°26'22"/111°55'55"
<u>MG</u>	Perry Mesa Tank	<u>34°11'03"/112°02'01"</u>
<u>MG</u>	Phoenix Area Canals	Granite Reef Dam to all municipal WTP intakes
MG	Phoenix Area Canals	Below municipal WTP intakes and all other locations
<u>MG</u>	Picacho Reservoir	32°51'10"/111°28'25"
<u>MG</u>	Poland Creek	Headwaters to confluence with Lorena Gulch
<u>MG</u>	Poland Creek	Below confluence with Lorena Gulch to confluence with Black Canyon Creek
MG.	Queen Creek	Headwaters to the Town of Superior WWTP outfall at 33°16'33"/111°07'44"
MG	Queen Creek (EDW)	Below Town of Superior WWTP outfall to confluence with Potts Canyon
MG	Queen Creek	Below Potts Canyon to ' Whitlow Dam
MG	Queen Creek	Below Whitlow Dam to confluence with Gila River
MG	Salt River	Verde River to 2 km below Granite Reef Dam
MG	Salt River	2 km below Granite Reef Dam to City of Mesa NW WRF outfall at 33°26'22"/111°53'14"
MG	Salt River (EDW)	City of Mesa NW WRF outfall to Tempe Town Lake
MG	Salt River	Below Tempe Town Lake to Interstate 10 bridge
MG	Salt River	Below Interstate 10 bridge to the City of Phoenix 23rd Avenue WWTP outfall at 33°24'44"/ 112°07'59"
MG	Salt River (EDW)	From City of Phoenix 23rd Avenue WWTP outfall to confluence with Gila River
MG	Siphon Draw (EDW)	Superstition Mountains CFD WWTP outfall at 33°21'40"/111°33'30" to 6 km downstream
MG	Sycamore Creek	Headwaters to confluence with Tank Canyon
MG	Sycamore Creek	Below confluence with Tank Canyon to confluence with Agua Fria River
MG	Tempe Town Lake	At Mill Avenue Bridge at 33°26'00"/111°56'26"
MG	The Lake Tank	32°54'14"/111°04'15"
MG	Tule Creek	Headwaters to confluence with the Agua Fria River
MG	Turkey Creek	Headwaters to confluence with unnamed tributary at 34°19'28"/112°21'33"
MG	Turkey Creek	Below confluence with unnamed tributary to confluence with Poland Creek
MG	Unnamed Wash (EDW)	Gila Bend WWTP outfall to confluence with the Gila River
MG	Unnamed Wash (EDW)	Luke Air Force Base WWTP outfall at 33°32'21"/112°19'15" to confluence with the Agua Fria River
MG.	Unnamed Wash (EDW)	North Florence WWTP outfall at 33°03'50"/ 111°23'13" to confluence with Gila River
MG	Unnamed Wash (EDW)	Town of Prescott Valley WWTP outfall at34°35'16"/ 112°16'18" to confluence with the Aqua Fria River
MG	Unnamed Wash (EDW)	Town of Cave Creek WRF outfall at 33°48'02"/ 111°59'22" to confluence with Cave Creek
MG	Wagner Wash (EDW)	City of Buckeye Festival Ranch WRF outfall at 33°39'14"/112°40'18" to 2 km downstream
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<u>MG</u>	Walnut Canyon Creek	Headwaters to confluence with the Gila River
<u>MG</u>	Weaver Creek	Headwaters to confluence with Antelope Creek, tributary to Martinez Wash
<u>MG</u>	White Canyon Creek	Headwaters to confluence with Walnut Canyon Creek
<u>MG</u>	Yavapai Lake (EDW)	Town of Prescott Valley WWTP outfall 002 at 34°36'07"/112°18'48" to Navajo Wash
<u>MG</u>	Arnett Creek	Headwaters to Queen Creek @ 33°16'43.24"/111°10'12.49"
<u>MG</u>	Cash Gulch	Headwaters to Jersey Gulch @ 34°25'31.39"/112°25'30.96"
<u>MG</u>	Eugene Gulch	Headwaters to Big Bug Creek @ 34°27'11.51"/112°18'30.95"
MG	Jersey Gulch	Headwaters to Hassayampa River @ 34°25'40.16"/112°25'45.64"
<u>MG</u>	Money Metals Trib	Headwaters to Unnamed Trib (UB1)
MG	Unnamed Trib (UQ2) to Queen Creek	Headwaters to Queen Creek @ 33°18'26.15"/111°04'19.3"
<u>MG</u>	Unnamed Trib (UQ3) to Queen Creek	Headwaters to Queen Creek @ 33°18'33.75"/111°04'02.61"
<u>MG</u>	Unnamed Trib to Big Bug Creek (UB1)	Headwaters to Big Bug Creek @ 34 <u+00b0>25'38.86"/112<u+00b0>22'29.32"</u+00b0></u+00b0>
MG	Unnamed Trib to Eugene Gulch	Headwaters to Eugene Gulch @ 34 <u+00b0>27'34.6"/112<u+00b0>20'24.53"</u+00b0></u+00b0>
MG	Unnamed Trib to Lynx Creek	Headwaters to Superior Mining Div. Outfall @ Lynx Creek @ 34°27'10.57"/112°23'14.22"
MG_	Blue John Wash	Headwaters to Unnamed tributary to Lynx Creek @ 34 <u+00b0>27'10.93"/112<u+00b0>23'24.61"</u+00b0></u+00b0>
<u>MG</u>	Little Sycamore Creek	Headwaters to Sycamore Creek @ 34 <u+00b0>21'39.13"/111<u+00b0>58'49.98"</u+00b0></u+00b0>
<u>MG</u>	<u>Little Wolf Creek</u>	Headwaters to Wolf Creek @ 34 <u+00b0>22'15.21"/112<u+00b0>19'17.11"</u+00b0></u+00b0>
MG	Long Gulch	Headwaters to Indian Creek
<u>MG</u>	Pine Creek	Headwaters to Turkey Creek @ 34 <u+00b0>19'42.86"/112<u+00b0>20'08.19"</u+00b0></u+00b0>
<u>MG</u>	Seven Springs Wash	Headwaters to Unnamed trib @ 33 <u+00b0>57'58.66"/111<u+00b0>51'52.07"</u+00b0></u+00b0>
<u>MG</u>	Skunk Creek	Headwaters to New River @ 33 <u+00b0>36'58.32"/112<u+00b0>14'40.21"</u+00b0></u+00b0>
MG	Unnamed trib to Big Bug Creek	Headwaters to Big Bug Creek @ 34 <u+00b0>26'18.63"/112<u+00b0>21'22.64"</u+00b0></u+00b0>
<u>MG</u>	Unnamed trib to Turkey Creek	Headwaters to Turkey Creek @ 34 <u+00b0>16'09.96"/112<u+00b0>12'16.31"</u+00b0></u+00b0>
<u>MG</u>	Waterman Wash	West Prong Waterman Wash to Gila River @ 33 <u+00b0>20'56.27"/112<u+00b0>31'54.32"</u+00b0></u+00b0>
<u>MG</u>	Wolf Creek (WOL)	Headwaters to Turkey Creek @ 34 <u+00b0>18'58.74"/112<u+00b0>17'15.9"</u+00b0></u+00b0>
MG	Wood Camp Canyon	Headwaters to Whitford Canyon
<u>SC</u>	Agua Caliente Lake	12325 East Roger Road, Tucson 32°16'51"/ 110°43'52"
<u>SC</u>	Agua Caliente Wash	Headwaters to confluence with Soldier Trail
<u>SC</u>	Agua Caliente Wash	Below Soldier Trail to confluence with Tanque Verde Creek
<u>SC</u>	Aguirre Wash	From the Tohono O'odham Indian Reservation boundary to 32°28'38"/111°46'51"
<u>SC</u>	Alambre Wash	Headwaters to confluence with Brawley Wash
<u>SC</u>	Alamo Wash	Headwaters to confluence with Rillito Creek
<u>SC</u>	Altar Wash	Headwaters to confluence with Brawley Wash
<u>SC</u>	Alum Gulch	Headwaters to 31°28'20"/110°43'51"
<u>SC</u>	Alum Gulch	From 31°28'20"/110°43'51" to 31°29'17"/110°44'25"
<u>SC</u>	Alum Gulch	Below 31°29'17"/110°44'25" to confluence with Sonoita Creek
<u>SC</u>	Arivaca Creek	Headwaters to confluence with Altar Wash
<u>SC</u>	Arivaca Lake	31°31'52"/111°15'06"
SC	Atterbury Wash	Headwaters to confluence with Pantano Wash
<u>sc</u>	Bear Grass Tank	31°33'01"/111°11'03"

<u>SC</u>	Big Wash	Headwaters to confluence with Cañada del Oro
<u>SC</u>	Black Wash (EDW)	Pima County WWMD Avra Valley WWTP outfall at 32°09'58"/111°11'17" to confluence with Brawley Wash
<u>SC</u>	Bog Hole Tank	31°28'36"/110°37'09"
<u>SC</u>	Brawley Wash	Headwaters to confluence with Los Robles Wash
<u>SC</u>	California Gulch	Headwaters To U.S./Mexico border
<u>SC</u>	Cañada del Oro	Headwaters to State Route 77
<u>SC</u>	Cañada del Oro	Below State Route 77 to confluence with the Santa Cruz River
<u>SC</u>	Cienega Creek	Headwaters to confluence with Gardner Canyon
<u>SC</u>	Cienega Creek (OAW)	From confluence with Gardner Canyon to USGS gaging station (#09484600)
<u>SC</u>	Davidson Canyon	Headwaters to unnamed spring at 31°59'00"/ 110°38'49"
<u>SC</u>	Davidson Canyon (OAW)	From unnamed Spring to confluence with unnamed tributary at 31°59'09"/110°38'44"
<u>SC</u>	Davidson Canyon (OAW)	Below confluence with unnamed tributary to unnamed spring at 32°00'40"/110°38'36"
<u>SC</u>	Davidson Canyon (OAW)	From unnamed spring to confluence with Cienega Creek
<u>SC</u>	Empire Gulch	Headwaters to unnamed spring at 31°47'18"/ 110°38'17"
<u>SC</u>	Empire Gulch	From 31°47'18"/110°38'17" to 31°47'03"/110°37'35"
<u>SC</u>	Empire Gulch	From 31°47'03"/110°37'35" to 31°47'05"/ 110°36'58"
<u>SC</u>	Empire Gulch	From 31°47'05"/110°36'58" to confluence with Cienega Creek
<u>SC</u>	Flux Canyon	Headwaters to confluence with Alum Gulch
<u>SC</u>	Gardner Canyon Creek	Headwaters to confluence with Sawmill Canyon
<u>sc</u>	Gardner Canyon Creek	Below Sawmill Canyon to confluence with Cienega Creek
<u>sc</u>	Greene Wash	Santa Cruz River to the Tohono O'odham Indian Reservation boundary
<u>SC</u>	Greene Wash	Tohono O'odham Indian Reservation boundary to confluence with Santa Rosa Wash at 32°53'52"/ 111°56'48"
<u>sc</u>	Harshaw Creek	Headwaters to confluence with Sonoita Creek at
<u>SC</u>	<u>Hit Tank</u>	<u>32°43'57"/111°03'18"</u>
<u>SC</u>	Holden Canyon Creek	Headwaters to U.S./Mexico border
<u>sc</u>	Huachuca Tank	31°21'11"/110°30'18"
<u>SC</u>	Julian Wash	Headwaters to confluence with the Santa Cruz River
<u>SC</u>	Kennedy Lake	Mission Road & Ajo Road, Tucson at 32°10'49"/ 111°00'27"
<u>SC</u>	Lakeside Lake	8300 East Stella Road, Tucson at 32°11'11"/ 110°49'00"
<u>sc</u>	Lemmon Canyon Creek	Headwaters to confluence with unnamed tributary at 32°23'48"/110°47'49"
<u>SC</u>	Lemmon Canyon Creek	Below unnamed tributary at 32°23'48"/110°47'49" to confluence with Sabino Canyon Creek
<u>SC</u>	Los Robles Wash	Headwaters to confluence with the Santa Cruz River
<u>SC</u>	Madera Canyon Creek	Headwaters to confluence with unnamed tributary at 31°43'42"/110°52'51"
<u>SC</u>	Madera Canyon Creek	Below unnamed tributary at 31°43'42"/110°52'51 to confluence with the Santa Cruz River
<u>SC</u>	Mattie Canyon	Headwaters to confluence with Cienega Creek
<u>SC</u>	Nogales Wash	Headwaters to confluence with Potrero Creek
<u>SC</u>	Oak Tree Canyon	Headwaters to confluence with Cienega Creek
<u>sc</u>	Palisade Canyon	Headwaters to confluence with unnamed tributary at 32°22'33"/110°45'31"
<u>SC</u>	Palisade Canyon	Below 32°22'33"/110°45'31" to unnamed tributary of Sabino Canyon

<u>SC</u>	Pantano Wash	Headwaters to confluence with Tanque Verde Creek
<u>sc</u>	Parker Canyon Creek	Headwaters to confluence with unnamed tributary at 31°24'17"/110°28'47"
<u>SC</u>	Parker Canyon Creek	Below unnamed tributary to U.S./Mexico border
<u>SC</u>	Parker Canyon Lake	31°25'35"/110°27'15"
<u>SC</u>	Patagonia Lake	31°29'56"/110°50'49"
<u>sc</u>	Peña Blanca Lake	31°24'15"/111°05'12"
<u>sc</u>	Potrero Creek	Headwaters to Interstate 19
<u>SC</u>	Potrero Creek	Below Interstate 19 to confluence with Santa Cruz River
<u>SC</u>	Puertocito Wash	Headwaters to confluence with Altar Wash
<u>sc</u>	Quitobaquito Spring	(Pond and Springs) 31°56'39"/113°01'06"
<u>sc</u>	Redrock Canyon Creek	Headwaters to confluence with Harshaw Creek
<u>SC</u>	Rillito Creek	Headwaters to confluence with the Santa Cruz River
<u>SC</u>	Romero Canyon Creek	Headwaters to confluence with unnamed tributary at 32°24'29"/110°50'39"
<u>sc</u>	Romero Canyon Creek	Below unnamed tributary to confluence with Sutherland Wash
<u>SC</u>	Rose Canyon Creek	Headwaters to confluence with Sycamore Canyon
<u>SC</u>	Rose Canyon Lake	32°23'13"/110°42'38"
<u>SC</u>	Ruby Lakes	31°26'29"/111°14'22"
<u>sc</u>	Sabino Canyon	Headwaters to 32°23'20"/110°47'06"
<u>sc</u>	Sabino Canyon	Below 32°23'20"/110°47'06" to confluence with Tanque Verde River
<u>sc</u>	Salero Ranch Tank	31°35'43"/110°53'25"
<u>SC</u>	Santa Cruz River	Headwaters to the at U.S./Mexico border
<u>sc</u>	Santa Cruz River	U.S./Mexico border to the Nogales International WWTP outfall at 31°27'25"/110°58'04"
<u>sc</u>	Santa Cruz River (EDW)	Nogales International WWTP outfall to the Josephine Canyon
<u>sc</u>	Santa Cruz River	Josephine Canyon to Agua Nueva WRF outfall at 32°17'04"/111°01'45"
<u>sc</u>	Santa Cruz River (EDW)	Agua Nueva WRF outfall to Baumgartner Road
<u>SC</u>	Santa Cruz River, West Branch	Headwaters to the confluence with Santa Cruz River
<u>sc</u>	Santa Cruz River	Baumgartner Road to the Ak Chin Indian Reservation boundary
<u>SC</u>	Santa Cruz Wash, North Branch	Headwaters to City of Casa Grande WRF outfall at 32°54'57"/111°47'13"
<u>SC</u>	Santa Cruz Wash, North Branch (EDW)	City of Casa Grande WRF outfall to 1 km downstream
<u>SC</u>	Santa Rosa Wash	Below Tohono O'odham Indian Reservation to the Ak Chin Indian Reservation
<u>SC</u>	Santa Rosa Wash (EDW)	Palo Verde Utilities CO-WRF outfall at 33°04'20"/ 112°01'47" to the Chin Indian Reservation
<u>SC</u>	Soldier Tank	32°25'34"/110°44'43"
<u>SC</u>	Sonoita Creek	Headwaters to the Town of Patagonia WWTP outfall at 31°32'25"/110°45'31"
<u>sc</u>	Sonoita Creek (EDW)	Town of Patagonia WWTP outfall to permanent groundwater upwelling point approximately 1600 feet downstream of outfall
<u>sc</u>	Sonoita Creek	Below 1600 feet downstream of Town of Patagonia WWTP outfall groundwater upwelling point to confluence with the Santa Cruz River
<u>SC</u>	Split Tank	31°28'11"//111°05'12"
<u>sc</u>	Sutherland Wash	Headwaters to confluence with Cañada del Oro
<u>sc</u>	Sycamore Canyon	Headwaters to 32°21'60" / 110°44'48"
<u>SC</u>	Sycamore Canyon	From 32°21'60" / 110°44'48" to Sycamore Reservoir
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<u>sc</u>	Sycamore Canyon	Headwaters to the U.S./Mexico border
SC	Sycamore Reservoir	<u>32°20'57'/110°47'38"</u>
SC	Tanque Verde Creek	Headwaters to Houghton Road
SC	Tanque Verde Creek	Below Houghton Road to confluence with Rillito Creek
SC	Three R Canyon	Headwaters to Unnamed Trib to Three R Canyon at 31°28'26"/110°46'04"
SC	Three R Canyon	From 31°28'26"/110°46'04" to 31°28'28"/110°47'15" (Cox Gulch)
<u>SC</u>	Three R Canyon	From (Cox Gulch) 31°28'28"/110°47'15" to confluence with Sonoita Creek
SC	Tinaja Wash	Headwaters to confluence with the Santa Cruz River
<u>SC</u>	Unnamed Wash (EDW)	Oracle Sanitary District WWTP outfall at 32°36'54"/ 110°48'02" to 5 km downstream
<u>sc</u>	Unnamed Wash (EDW)	Arizona City Sanitary District WWTP outfall at 32°45'43"/111°44'24" to confluence with Santa Cruz Wash
<u>sc</u>	Unnamed Wash (EDW)	Saddlebrook WWTP outfall at 32°32'00"/110°53'01" to confluence with Cañada del Oro
<u>SC</u>	Vekol Wash	Headwater to Santa Cruz Wash: Those reaches not located on the Ak-Chin. Tohono O'odham and Gila River Indian Reservations
<u>sc</u>	Wakefield Canyon	Headwaters to confluence with unnamed tributary at 31°52'48"/110°26'27"
<u>SC</u>	Wakefield Canyon	Below confluence with unnamed tributary to confluence with Cienega Creek
<u>SC</u>	Wild Burro Canyon	Headwaters to confluence with unnamed tributary at 32°27'43"/111°05'47"
<u>SC</u>	Wild Burro Canyon	Below confluence with unnamed tributary to confluence with Santa Cruz River
<u>SC</u>	Cox Gulch	Headwaters to Three R Canyon @ 31°28'28.03"/110°47'14.65"
<u>SC</u>	Humboldt Canyon	Headwaters to Alum Gultch @ 31°28'25.84"/110°44'01.57"
<u>sc</u>	Unnamed Trib (Endless Mine Tributary) to Harshaw Creek	Headwaters to Harsahw Creek @ 31°26'12.3"/110°43'27.26"
<u>SC</u>	Unnamed Trib (UA2) to Alum Gulch	Headwaters to Alum Gulch @ 31°28'49.67"/110°44'12.86"
<u>SC</u>	Unnamed Trib to Cox Gulch	Headwaters to Cox Gulch @ 31°27'53.86"/110°46'51.29"
<u>SC</u>	Unnamed Trib to Three R Canyon	Headwaters to Three R Canyon @ 31°28'25.82"/110°46'04.11"
<u>SC</u>	Barrel Canyon	Headwaters to Confluence with Davidson Canyon
SC	Bear Canyon Creek	Headwaters to Sabino Creek @ 32 <u+00b0>17'43.6"/110<u+00b0>48'28.36"</u+00b0></u+00b0>
<u>SC</u>	Madrona Creek	Headwaters to Rincon Creek @ 32 <u+00b0>08'00.94"/110<u+00b0>36'05.81"</u+00b0></u+00b0>
<u>SC</u>	Peck Canyon Creek	Headwaters to Santa Cruz River @ 31 <u+00b0>30'46.11"/111<u+00b0>00'44.1"</u+00b0></u+00b0>
<u>SC</u>	Unnamed trib (UA3) to Alum Gulch	Headwaters to Alum Gulch @ 31 <u+00b0>29'01.14"/110<u+00b0>44'15.67"</u+00b0></u+00b0>
<u>SC</u>	Unnamed trib to Unnamed Trib to Harshaw Creek	Headwaters to Unnamed trib (UHA) to Harshaw Creek
<u>SP</u>	Abbot Canyon	Headwaters to confluence with Whitewater Draw
<u>SP</u>	Aravaipa Creek	Headwaters to confluence with Stowe Gulch
SP	Aravaipa Creek (OAW)	Stowe Gulch to downstream boundary of Aravaipa Canyon Wilderness Area
<u>SP</u>	Aravaipa Creek	Below downstream boundary of Aravaipa Canyon Wilderness Area to confluence with the San Pedro River
SP	Ash Creek	Headwaters to 31°50'28"/109°40'04"
<u>SP</u>	Babocomari River	Headwaters to confluence with the San Pedro River
<u>SP</u>	Bass Canyon Creek	Headwaters to confluence with unnamed tributary at 32°26'06"/110°13'22"
<u>SP</u>	Bass Canyon Creek	Below confluence with unnamed tributary to confluence with Hot Springs Canyon Creek
<u>SP</u>	Bass Canyon Tank	32°24'00"/110°13'00"
<u>SP</u>	Bear Creek	Headwaters to U.S./Mexico border

<u>SP</u>	Blacktail Pond	Fort Huachuca Military Reservation at 31°31'04"/110°24'47", headwater lake in Blacktail Canyon
<u>SP</u>	Black Draw	Headwaters to the U.S./Mexico border
<u>SP</u>	Booger Canyon	Headwaters to confluence with Aravaipa Creek
<u>SP</u>	Buck Canyon	Headwaters to confluence with Buck Creek Tank
<u>SP</u>	Buck Canyon	Below Buck Creek Tank to confluence with Dry Creek
<u>SP</u>	Buehman Canyon Creek (OAW)	Headwaters to confluence with unnamed tributary at 32°24'54"/110°32'10"
<u>SP</u>	Buehman Canyon Creek	Below confluence with unnamed tributary to confluence with San Pedro River
<u>SP</u>	Bullock Canyon	Headwaters to confluence with Buehman Canyon
<u>SP</u>	Carr Canyon Creek	Headwaters to confluence with unnamed tributary at 31°27'01"/110°15'48"
<u>SP</u>	Carr Canyon Creek	Below confluence with unnamed tributary to confluence with the San Pedro River
<u>SP</u>	Copper Creek	Headwaters to confluence with Prospect Canyon
<u>SP</u>	Copper Creek	Below confluence with Prospect Canyon to confluence with the San Pedro River
<u>SP</u>	Deer Creek	Headwaters to confluence with unnamed tributary at 32°59'57"/110°20'11"
<u>SP</u>	Deer Creek	Below confluence with unnamed tributary to confluence with Aravaipa Creek
<u>SP</u>	Dixie Canyon	Headwaters to confluence with Mexican Canyon
<u>SP</u>	Double R Canyon Creek	Headwaters to confluence with Bass Canyon
<u>SP</u>	<u>Dry Canyon</u>	Headwaters to confluence with Whitewater draw
<u>SP</u>	East Gravel Pit Pond	Fort Huachuca Military Reservation at 31°30'54"/ 110°19'44"
<u>SP</u>	Espiritu Canyon Creek	Headwaters to confluence with Soza Wash
<u>SP</u>	Fourmile Creek	Headwaters to confluence with Aravaipa Creek
<u>SP</u>	Fourmile Canyon, Left Prong	Headwaters to confluence with unnamed tributary at 32°43'15"/110°23'46"
<u>SP</u>	Fourmile Canyon, Left Prong	Below confluence with unnamed tributary to confluence with Fourmile Canyon Creek
<u>SP</u>	Fourmile Canyon, Right Prong	Headwaters to confluence with Fourmile Canyon
<u>SP</u>	Gadwell Canyon	Headwaters to confluence with Whitewater Draw
<u>SP</u>	Garden Canyon Creek	Headwaters to confluence with unnamed tributary at 31°29'01"/110°19'44"
<u>SP</u>	Garden Canyon Creek	Below confluence with unnamed tributary to confluence with the San Pedro River
<u>SP</u>	Glance Creek	Headwaters to confluence with Whitewater Draw
<u>SP</u>	Gold Gulch	Headwaters to U.S./Mexico border
<u>SP</u>	Gravel Pit Pond	Fort Huachuca Military Reservation at 31°30'52"/ 110°19'49"
<u>SP</u>	<u>Greenbush Draw</u>	From U.S./Mexico border to confluence with San Pedro River
<u>SP</u>	Hidden Pond	Fort Huachuca Military Reservation at 32°30'30"/ 109°22'17"
<u>SP</u>	Horse Camp Canyon	Headwaters to confluence with Aravaipa Creek
<u>SP</u>	Hot Springs Canyon Creek	Headwaters to confluence with the San Pedro River
<u>SP</u>	Johnson Canyon	Headwaters to Whitewater Draw at 31°32'46"/ 109°43'32"
<u>SP</u>	<u>Leslie Canyon Creek</u>	Headwaters to confluence with Whitewater Draw
SP	Lower Garden Canyon Pond	Fort Huachuca Military Reservation at 31°29'39"/ 110°18'34"
<u>SP</u>	Mexican Canyon	Headwaters to confluence with Dixie Canyon
<u>SP</u>	Miller Canyon	Headwaters to Broken Arrow Ranch Road at 31°25'35"/110°15'04"
<u>SP</u>	Miller Canyon	Below Broken Arrow Ranch Road to confluence with the San Pedro River
<u>SP</u>	Mountain View Golf Course Pond	Fort Huachuca Military Reservation at 31°32'14"/ 110°18'52"

<u>SP</u>	Mule Gulch	Headwaters to the Lavender Pit at 31°26'11"/ 109°54'02"
<u>SP</u>	Mule Gulch	The Lavender Pit to the Highway 80 bridge at 31°26'30"/109°49'28"
<u>SP</u>	Mule Gulch	Below the Highway 80 bridge to confluence with Whitewater Draw
<u>SP</u>	Oak Grove Canyon	Headwaters to confluence with Turkey Creek
<u>SP</u>	Officers Club Pond	Fort Huachuca Military Reservation at 31°32'51"/ 110°21'37"
<u>SP</u>	Paige Canyon Creek	Headwaters to confluence with the San Pedro River
<u>SP</u>	Parsons Canyon Creek	Headwaters to confluence with Aravaipa Creek
<u>SP</u>	Ramsey Canyon Creek	Headwaters to Forest Service Road #110 at 31°27'44"/110°17'30"
<u>SP</u>	Ramsey Canyon Creek	Below Forest Service Road #110 to confluence with Carr Wash
<u>SP</u>	Rattlesnake Creek	Headwaters to confluence with Brush Canyon
<u>SP</u>	Rattlesnake Creek	Below confluence with Brush Canyon to confluence with Aravaipa Creek
<u>SP</u>	Redfield Canyon	Headwaters to confluence with unnamed tributary at 32°33'40"/110°18'42"
<u>SP</u>	Redfield Canyon	Below confluence with unnamed tributary to confluence with the San Pedro River
<u>SP</u>	Rucker Canyon	Headwaters to confluence with Whitewater Draw
<u>SP</u>	Rucker Canyon Lake	31°46'46"/109°18'30"
<u>SP</u>	San Pedro River	U.S./ Mexico Border to Buehman Canyon
<u>SP</u>	San Pedro River	From Buehman canyon to confluence with the Gila River
<u>SP</u>	Soto Canyon	Headwaters to confluence with Dixie Canyon
<u>SP</u>	Swamp Springs Canyon	Headwaters to confluence with Redfield Canyon
<u>SP</u>	Sycamore Pond I	Fort Huachuca Military Reservation at 31°35'12"/ 110°26'11"
<u>SP</u>	Sycamore Pond II	Fort Huachuca Military Reservation at 31°34′39″/ 110°26′10″
<u>SP</u>	Turkey Creek	Headwaters to confluence with Aravaipa Creek
<u>SP</u>	Unnamed Wash (EDW)	Mt. Lemmon WWTP outfall at 32°26'51"/110°45'08" to 0.25 km downstream
<u>SP</u>	<u>Virgus Canyon</u>	Headwaters to confluence with Aravaipa Creek
<u>SP</u>	Walnut Gulch	Headwaters to Tombstone WWTP outfall at 31°43'47"/110°04'06"
<u>SP</u>	Walnut Gulch (EDW)	Tombstone WWTP outfall to the confluence with Tombstone Wash
<u>SP</u>	Walnut Gulch	Tombstone Wash to confluence with San Pedro River
<u>SP</u>	Whitewater Draw	Headwaters to confluence with unnamed tributary at 31°20'36"/109°43'48"
<u>SP</u>	Whitewater Draw	Below confluence with unnamed tributary to U.S./ Mexico border
<u>SP</u>	Woodcutters Pond	Eort Huachuca Military Reservation at 31°30'09"/ 110°20'12"
<u>SP</u>	Brewery Gultch	Headwaters to Mule Gulch @ 31°26'27.88"/109°54'48.1"
<u>SP</u>	Curry Draw	Headwaters to San Pedro River
<u>SP</u>	Montezuma Canvon	Headwaters to Mexica Border @ 31 <u+00b0>20'01.87"/110<u+00b0>13'40.97"</u+00b0></u+00b0>
SR	Ackre Lake	33°37'01"/109°20'40"
<u>SR</u>	Apache Lake	33°37'23"/111°12'26"
<u>SR</u>	Barnhard Creek	Headwaters to confluence with unnamed tributary at 34°05'37/111°26'40"
<u>SR</u>	Barnhardt Creek	Below confluence with unnamed tributary to confluence with Rye Creek
SR	Basin Lake	33°55'00"/109°26'09"
<u>SR</u>	Bear Creek	Headwaters to confluence with the Black River
<u>SR</u>	Bear Wallow Creek (OAW)	Headwaters to confluence with the Black River
<u>SR</u>	Bear Wallow Creek, North Fork (OAW)	Headwaters to confluence with the Bear Wallow Creek

<u>SR</u>	Bear Wallow Creek, South Fork (OAW)	Headwaters to confluence with the Bear Wallow Creek
<u>SR</u>	Beaver Creek	Headwaters to confluence with Black River
<u>SR</u>	<u>Big Lake</u>	<u>33°52'36"/109°25'33"</u>
<u>SR</u>	Black River	Headwaters to confluence with Salt River
<u>SR</u>	Black River, East Fork	From 33°51'19"/109°18'54" to confluence with the Black River
<u>SR</u>	Black River, North Fork of East Fork	Headwaters to confluence with Boneyard Creek
<u>SR</u>	Black River, West Fork	Headwaters to confluence with the Black River
<u>SR</u>	Bloody Tanks Wash	Headwaters to Schultze Ranch Road
<u>SR</u>	Bloody Tanks Wash	Schultze Ranch Road to confluence with Miami Wash
<u>SR</u>	Boggy Creek	Headwaters to confluence with Centerfire Creek
<u>SR</u>	Boneyard Creek	Headwaters to confluence with Black River. East Fork
<u>SR</u>	Boulder Creek	Headwaters to confluence with LaBarge Creek
<u>SR</u>	Campaign Creek	Headwaters to Roosevelt Lake
SR	Canyon Creek	Headwaters to the White Mountain Apache Reservation boundary
<u>SR</u>	Canyon Lake	33°32'44"/111°26'19"
<u>SR</u>	Centerfire Creek	Headwaters to confluence with the Black River
<u>SR</u>	Chambers Draw Creek	Headwaters to confluence with the North Fork of the East Fork of Black River
SR	Cherry Creek	Headwaters to confluence with unnamed tributary at 34°05'09"/110°56'07"
<u>SR</u>	Cherry Creek	Below unnamed tributary to confluence with the Salt River
<u>SR</u>	Christopher Creek	Headwaters to confluence with Tonto Creek
<u>SR</u>	Cold Spring Canyon Creek	Headwaters to confluence with unnamed tributary at 33°49'50"/110°52'58"
<u>SR</u>	Cold Spring Canyon Creek	Below confluence with unnamed tributary to confluence with Cherry Creek
<u>SR</u>	Conklin Creek	Headwaters to confluence with the Black River
<u>SR</u>	Coon Creek	Headwaters to confluence with unnamed tributary at 33°46'41"/110°54'26"
<u>SR</u>	Coon Creek	Below confluence with unnamed tributary to confluence with Salt River
SR	Corduroy Creek	Headwaters to confluence with Fish Creek
<u>SR</u>	Coyote Creek	Headwaters to confluence with the Black River. East Fork
<u>SR</u>	Crescent Lake	<u>33°54'38"/109°25'18"</u>
<u>SR</u>	Deer Creek	Headwaters to confluence with the Black River, East Fork
SR	Del Shay Creek	Headwaters to confluence with Gun Creek
<u>SR</u>	Devils Chasm Creek	Headwaters to confluence with unnamed tributary at 33°48'46" /110°52'35"
<u>SR</u>	Devils Chasm Creek	Below confluence with unnamed tributary to confluence with Cherry Creek
<u>SR</u>	Dipping Vat Reservoir	<u>33°55'47"/109°25'31"</u>
SR	Double Cienega Creek	Headwaters to confluence with Fish Creek
<u>SR</u>	Fish Creek	Headwaters to confluence with the Black River
<u>SR</u>	Fish Creek	Headwaters to confluence with the Salt River
<u>SR</u>	Gold Creek	Headwaters to confluence with unnamed tributary at 33°59'47"/111°25'10"
SR	Gold Creek	Below confluence with unnamed tributary to confluence with Tonto Creek
<u>SR</u>	Gordon Canyon Creek	Headwaters to confluence with Hog Canyon
<u>SR</u>	Gordon Canyon Creek	Below confluence with Hog Canyon to confluence with Haigler Creek
<u>SR</u>	Greenback Creek	Headwaters to confluence with Tonto Creek

SR	Haigler Creek	Headwaters to confluence with unnamed tributary at 34°12'23"/111°00'15"
SR	Haigler Creek	Below confluence with unnamed tributary to confluence with Tonto Creek
SR	Hannagan Creek	Headwaters to confluence with Beaver Creek
SR	Hay Creek (OAW)	Headwaters to confluence with the Black River. West Fork
SR	Home Creek	Headwaters to confluence with the Black River, West Fork
	Horse Creek	Headwaters to confluence with the Black River, West Fork
<u>SR</u>	Horse Camp Creek	Headwaters to confluence with unnamed tributary at 33°54'00"/110°50'07"
<u>SR</u>	Horse Camp Creek	Below confluence with unnamed tributary to confluence with Cherry Creek
<u>SR</u>	 	
<u>SR</u>	Horton Creek	Headwaters to confluence with Tonto Creek
SR	Houston Creek	Headwaters to confluence with Tonto Creek
<u>SR</u>	Hunter Creek	Headwaters to confluence with Christopher Creek
<u>SR</u>	LaBarge Creek	Headwaters to Canyon Lake
<u>SR</u>	Lake Sierra Blanca	33°52'25"/109°16'05"
<u>SR</u>	Miami Wash	Headwaters to confluence with Pinal Creek
<u>SR</u>	<u>Mule Creek</u>	Headwaters to confluence with Canyon Creek
<u>SR</u>	Open Draw Creek	Headwaters to confluence with the East Fork of Black River
<u>SR</u>	P B Creek	Headwaters to Forest Service Road #203 at 33°57'08"/110°56'12"
<u>SR</u>	P B Creek	Below Forest Service Road #203 to Cherry Creek
<u>SR</u>	<u>Pinal Creek</u>	Headwaters to confluence with unnamed EDW wash (Globe WWTP) at 33°25'29"/110°48'20"
<u>SR</u>	Pinal Creek (EDW)	Confluence with unnamed EDW wash (Globe WWTP) to 33°26'55"/110°49' 25"
<u>SR</u>	Pinal Creek	From 33°26'55"/110°49'25" to Lower Pinal Creek water treatment plant outfall #001 at 33°31'04"/ 110°51'55"
<u>SR</u>	Pinal Creek	From Lower Pinal Creek WTP outfall # to See Ranch Crossing at 33°32'25"/110°52'28"
<u>SR</u>	Pinal Creek	From See Ranch Crossing to confluence with unnamed tributary at 33°35'28"/110°54'31"
<u>SR</u>	Pinal Creek	From unnamed tributary to confluence with Salt River
<u>SR</u>	Pine Creek	Headwaters to confluence with the Salt River
<u>SR</u>	Pinto Creek	Headwaters to confluence with unnamed tributary at 33°19'27"/110°54'58"
<u>SR</u>	Pinto Creek	Below confluence with unnamed tributary to Roosevelt Lake
<u>SR</u>	Pole Corral Lake	33°30'38"/110°00'15"
<u>SR</u>	Pueblo Canyon Creek	Headwaters to confluence with unnamed tributary at 33°50'23"/110°51'37"
<u>SR</u>	Pueblo Canyon Creek	Below confluence with unnamed tributary to confluence with Cherry Creek
<u>SR</u>	Reevis Creek	Headwaters to confluence with Pine Creek
SR	Reservation Creek	Headwaters to confluence with the Black River
<u>SR</u>	Reynolds Creek	Headwaters to confluence with Workman Creek
<u>SR</u>	Roosevelt Lake	33°52'17"/111°00'17"
<u>SR</u>	Russell Gulch	From Headwaters to confluence with Miami Wash
<u>SR</u>	Rye Creek	Headwaters to confluence with Tonto Creek
<u>SR</u>	Saguaro Lake	33°33'44"/111°30'55"
<u>SR</u>	Salome Creek	Headwaters to confluence with the Salt River
<u>SR</u>	Salt House Lake	33°57'04"/109°20'11"
<u>SR</u>	Salt River	White Mountain Apache Reservation Boundary at 33°48'52"/110°31'33" to Roosevelt Lake
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<u>SR</u>	Salt River	Theodore Roosevelt Dam to 2 km below Granite Reef Dam
<u>S</u> R	Slate Creek	Headwaters to confluence with Tonto Creek
<u>SR</u>	Snake Creek (OAW)	Headwaters to confluence with the Black River
<u>SR</u>	Spring Creek	Headwaters to confluence with Tonto Creek
<u>SR</u>	Stinky Creek (OAW)	Headwaters to confluence with the Black River, West Fork
<u>SR</u>	Thomas Creek	Headwaters to confluence with Beaver Creek
<u>SR</u>	Thompson Creek	Headwaters to confluence with the West Fork of the Black River
<u>SR</u>	Tonto Creek	Headwaters to confluence with unnamed tributary at 34°18'11"/111°04'18"
<u>SR</u>	Tonto Creek	Below confluence with unnamed tributary to Roosevelt Lake
SR	Turkey Creek	Headwaters to confluence with Rock Creek
<u>SR</u>	Wildcat Creek	Headwaters to confluence with Centerfire Creek
<u>SR</u>	Willow Creek	Headwaters to confluence with Beaver Creek
<u>SR</u>	Workman Creek	Headwaters to confluence with Reynolds Creek
SR	Workman Creek	Below confluence with Reynolds Creek to confluence with Salome Creek
<u>SR</u>	Five Point Mountain Tributary	Headwaters to Pinto Creek @ 33°22'25.93"/110°58'14"
<u>SR</u>	Gibson Mine Tributary	Headwaters to Pinto Creek @ 33°20'48.99"/110°56'42.31"
SR	Big Canyon	Headwaters to Tonto Creek
<u>SR</u>	Cottonwood Gulch	Headwaters to Pinto Creek @ 33 <u+00b0>22'50.81"/110<u+00b0>58'40.67"</u+00b0></u+00b0>
SR	Crouch Creek	Headwaters to Cherry Creek @ 34?02'55.6"/110?53'42.78"
SR	Deer Creek (D4E)	Headwaters to Rye Creek @ 34 <u+00b0>04'30.74"/111<u+00b0>20'16.81"</u+00b0></u+00b0>
SR	Gold Gulch	Headwaters to Pinto Creek @ 33 <u+00b0>25'35.87"/111<u+00b0>00'15.31"</u+00b0></u+00b0>
<u>SR</u>	Green Valley Creek	Headwaters to Tonto Creek @ 34 <u+00b0>08'52.25"/111<u+00b0>12'16.64"</u+00b0></u+00b0>
<u>SR</u>	Hinton Creek	Headwaters to Cherry Creek @ 33 <u+00b0>52'05.33"/110<u+00b0>52'17.99"</u+00b0></u+00b0>
SR	Unnamed trib to Black River East Fork	Headwaters to Black River East Fork
SR	Unnamed trib to Black River NFork Efork	Headwaters to Black River NF of EF
<u>SR</u>	Unnamed trib to Double Cienega Creek	Headwaters to Double Cienega Creek
<u>SR</u>	Unnamed trib to UEF	Headwaters to Unnamed Trib to Black River East Fork (UEF)
SR	West Fork Pinto Creek	Headwaters to Pinto Creek @ 33 <u+00b0>27'32.09"/111<u+00b0>00'20.07"</u+00b0></u+00b0>
<u>UG</u>	Apache Creek	Headwaters to confluence with the Gila River
<u>UG</u>	Ash Creek	Headwaters to confluence with unnamed tributary at 32°46'15"/109°51'45"
<u>UG</u>	Ash Creek	Below confluence with unnamed tributary to confluence with the Gila River
<u>UG</u>	Bennett Wash	Headwaters to the Gila River
<u>UG</u>	Bitter Creek	Headwaters to confluence with the Gila River
<u>UG</u>	Blue River	Headwaters to confluence with Strayhorse Creek at 33°29'02"/109°12'14"
<u>UG</u>	Blue River	Below confluence with Strayhorse Creek to confluence with San Francisco River
<u>UG</u>	Bonita Creek (OAW)	San Carlos Indian Reservation boundary to confluence with the Gila River
<u>UG</u>	Buckelew Creek	Headwaters to confluence with Castle Creek
<u>UG</u>	Campbell Blue Creek	Headwaters to confluence with the Blue River
<u>UG</u>	Castle Creek	Headwaters to confluence with Campbell Blue Creek
<u>UG</u>	Cave Creek (OAW)	Headwaters to confluence with South Fork Cave Creek
<u>UG</u>	Cave Creek (OAW)	Below confluence with South Fork Cave Creek to Coronado National Forest boundary

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Chase Creek	<u>UG</u>	Cave Creek	Below Coronado National Forest boundary to New Mexico border
Chase Creek			
US			· •
Headwaters to confluence with Cave Creek			<u> </u>
Cluft Reservoir #1 \$2.4655*/109*5045* US Coleman Creek			
UG Coleman Creek Headwaters to confluence with Campbell Blue Creek UG Dankworth Lake 32:4313*/109*24217* UG Deadman Canyon Creek Headwaters to confluence with unnamed tributary at 32*-4350*/109*49303* UG Deadman Canyon Creek Headwaters to confluence with unnamed tributary at 32*-4350*/109*49303* UG Deadman Canyon Creek Headwaters to confluence with unnamed tributary at 33*-23*27/109*49303* UG Eagle Creek Headwaters to confluence with unnamed tributary at 33*-23*27/109*2943* UG East Creek Below confluence with unnamed tributary at 33*-23*27/109*2943* UG East Turkey Creek Headwaters to confluence with the Gilla River UG East Turkey Creek Headwaters to confluence with unnamed tributary at 31*-58*22*/109*1220* UG East Turkey Creek Below confluence with unnamed tributary at 31*-58*22*/109*1220* UG East Turkey Creek Below confluence with unnamed tributary at 31*-58*22*/109*1220* UG East Turkey Creek Below confluence with unnamed tributary at 31*-58*22*/109*1220* UG East Whitefull Headwaters to terminus near San Simon River UG East Whitefull Headwaters to terminus near San Simon River UG Exans Pondi #1 32*-9919*/109*5112* UG Eishbook Creek Headwaters to terminus near San Simon River UG Exans Pondi #2 32*-9919*/109*51192* UG Eishbook Creek Headwaters to confluence with the Blue River UG Frya Canyon Creek Headwaters to confluence with the Blue River UG Frya Canyon Creek Frya Masa Reservoir to terminus at Highline Canel. UG Frya Masa Reservoir 32*-4514*/109*50*02* UG Gils River New Mexico border to the San Carlos Indian Reservation boundary UG Gils River New Mexico border to the San Carlos Indian Reservation boundary UG Gils River New Mexico border to the San Carlos Indian Reservation boundary UG Gils River New Mexico border to the San Carlos Indian Reservation boundary UG Little Blue Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with the Blue Creek Headwaters to confluence with the Blue Creek Headwaters to confluence with Sluck Creek Headwaters			
Coleman Creek			
Dankworth Lake 32*43*13*103*42*17* Dankworth Lake 32*43*13*103*42*17* Deadman Canyon Creek Headwaters to confluence with unnamed tributary at 32*43*50*7103*49*03** Deadman Canyon Creek Headwaters to confluence with unnamed tributary at 33*223*7109*29*33** Deadman Canyon Creek Headwaters to confluence with unnamed tributary at 33*223*7109*29*33** Deadman Canyon Creek Headwaters to confluence with unnamed tributary at 33*223*7109*29*33** Deadman Canyon Creek Headwaters to confluence with unnamed tributary at 33*223*7109*29*20** Deat Turkey Creek Headwaters to confluence with unnamed tributary at 31*58*22*7103*12*20** Deat Turkey Creek Headwaters to confluence with unnamed tributary at 31*58*22*7103*12*20** Deat Turkey Creek Headwaters to terminus near San Simon River Death Turkey Creek Headwaters to terminus near San Simon River Death Turkey Creek Headwaters to terminus near San Simon River Death Sent Creek Headwaters to terminus near San Simon River Death Sent Creek Headwaters to confluence with the Blue River Death Sent Creek Headwaters to confluence with the Blue River Death Sent Creek Headwaters to confluence with the Blue River Death Sent Creek Headwaters to confluence with the Blue River Death Sent Creek Headwaters to confluence with the Blue River Death Sent Creek Headwaters to confluence with the Blue River Death Sent Creek Headwaters to confluence with the Blue River Death Sent Creek Headwaters to confluence with the Blue River Death Sent Creek Headwaters to confluence with the Blue River Death Sent Creek Headwaters to confluence with the Blue River Death Sent Creek Headwaters to confluence with the Blue River Death Sent Creek Headwaters to confluence with Dutch Blue Creek Death Headwaters to confluence with Dutch Blue Creek Headwaters to confluence with Dutch Blue Creek Death Sent Creek Headwaters to confluence with Dutch Blue Creek Headwaters to	<u>UG</u>		
Deadman Carryon Creek	<u>UG</u>	<u>Coleman Creek</u>	Headwaters to confluence with Campbell Blue Creek
Deadman Canyon Creek Below confluence with unnamed tributary to confluence with Graveyard Wash	<u>UG</u>	Dankworth Lake	32°43'13"/109°42'17"
Headwaters to confluence with unnamed tributary at 33°2232′109°29′43° US	<u>UG</u>	Deadman Canyon Creek	Headwaters to confluence with unnamed tributary at 32°43'50"/109°49'03"
Eagle Creek	<u>UG</u>	Deadman Canyon Creek	Below confluence with unnamed tributary to confluence with Graveyard Wash
Headwaters to confluence with Eagle Creek Headwaters to confluence with unnamed tributary at 31°58′22′109°12′20′ Headwaters to confluence with unnamed tributary at 31°58′22′109°12′20′ Headwaters to terminus near San Simon River Headwaters to confluence with the Blue River Headwaters to confluence with Headwaters to confluence with Marijida Creek Headwaters to confluence with the Blue River Headwaters to confluence with Dutch Blue Creek Headwaters to conflue	<u>UG</u>	Eagle Creek	Headwaters to confluence with unnamed tributary at 33°22'32"/109°29'43"
Headwaters to confluence with unnamed tributary at 31°58′22′109°12′20′ UG	<u>UG</u>	Eagle Creek	Below confluence with unnamed tributary to confluence with the Gila River
Below confluence with unnamed tributary to terminus near San Simon River	<u>UG</u>	East Eagle Creek	Headwaters to confluence with Eagle Creek
Headwaters to terminus near San Simon River UG Evans Pond #1 32*49'19'/109*51'12' UG Evans Pond #2 32*49'14'/109*51'09' UG Fishhook Creek Headwaters to confluence with the Blue River UG Foote Creek Headwaters to confluence with Marijilda Creek UG Frye Canyon Creek Frye Mesa Reservoir UG Frye Mesa Reservoir 32*45'14'/109*50'02' UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Frye Mesa Reservoir 32*45'14'/109*50'02' UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Gila River New Mexico border to the San Carlos Indian Reservation boundary UG Grant Creek Headwaters to confluence with the Blue River UG Judd Lake 33*51'15'/109*09'35' UG KP Creek (OAW) Headwaters to confluence with the Blue River UG Lanphier Canyon Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Below confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek Headwaters to confluence with Dutch Blue Creek Headwaters to confluence with Dutch Blue Creek Headwaters to confluence with Dutch Blue Creek Headwaters to confluence with Dutch Blue Creek Headwaters to confluence with Dutch Blue Creek Headwaters to confluence with Dutch Blue Creek Headwaters to confluence with Dutch Blue Creek Headwaters to confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	East Turkey Creek	Headwaters to confluence with unnamed tributary at 31°58'22"/109°12'20"
Headwaters to terminus near San Simon River UG Evans Pond #1 32°49'19'/109°51'12" UG Evans Pond #2 32°49'14'/109°51'09" UG Fishhook Creek Headwaters to confluence with the Blue River UG Foote Creek Headwaters to confluence with the Blue River UG Frye Canyon Creek Headwaters to Frye Mesa Reservoir UG Frye Canyon Creek Frye Mesa Reservoir UG Frye Canyon Creek Headwaters to Frye Mesa Reservoir UG Frye Mesa Reservoir 32°45'14'/109°50'02' UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Gila River New Mexico border to the San Carlos Indian Reservation boundary UG Grant Creek Headwaters to confluence with the Blue River UG Judd Lake 33°51'15'/109°09'35' UG K P Creek (OAW) Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Blue Creek UG Little Creek Headwaters to confluence with Blue Creek UG Little Creek Headwaters to confluence with Blue Creek UG Little Creek Headwaters to confluence with Blue Creek UG Little Creek Headwaters to confluence with Blue Creek UG Little Creek Headwaters to confluence with Blue Creek UG Little Creek Headwaters to confluence with Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Blue Creek Headwaters to confluence with Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Headwaters to confluence with Gibson Creek Headwaters to confluence with Gibson Creek	<u>UG</u>	East Turkey Creek	Below confluence with unnamed tributary to terminus near San Simon River
UG Evans Pond #1 32*49*19*7/109*51*12* UG Fishbook Creek Headwaters to confluence with the Blue River UG Foote Creek Headwaters to confluence with the Blue River UG Frye Canyon Creek Headwaters to Frye Mesa Reservoir UG Frye Canyon Creek Frye Mesa Reservoir to terminus at Highline Canal. UG Frye Mesa Reservoir 32*45*14*7/109*50*02* UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Gila River New Mexico border to the San Carlos Indian Reservation boundary UG Grant Creek Headwaters to confluence with the Blue River UG Judd Lake 33*51*15*7/109*09*35* UG K P Creek (OAW) Headwaters to confluence with the Blue River UG Lanphier Canyon Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Blue Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Headwaters to confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	East Whitetail	Headwaters to terminus near San Simon River
Search S	<u>UG</u>	Emigrant Canyon	Headwaters to terminus near San Simon River
UG Fishhook Creek Headwaters to confluence with the Blue River UG Foote Creek Headwaters to confluence with the Blue River UG Frye Canyon Creek Headwaters to Frye Mesa Reservoir UG Frye Canyon Creek Frye Mesa Reservoir to terminus at Highline Canal, UG Frye Mesa Reservoir 32°45′14″/109°50′02″ UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Gila River New Mexico border to the San Carlos Indian Reservation boundary UG Grant Creek Headwaters to confluence with the Blue River UG Judd Lake 33°51′15″/109°09′35″ UG K P Creek (OAW) Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with the San Francisco River UG Little Creek Headwaters to confluence with San Francisco River UG Little Creek Headwaters to confluence with Gibson Creek UG Lina Lake 33°49′50″/109°05′06″ UG Marijilda Creek Headwaters to confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	Evans Pond #1	32°49'19"/109°51'12"
UG Foote Creek Headwaters to confluence with the Blue River UG Frye Canyon Creek Headwaters to Frye Mesa Reservoir UG Frye Mesa Reservoir 32°45'14"/109°50'02" UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Gila River New Mexico border to the San Carlos Indian Reservation boundary UG Grant Creek Headwaters to confluence with the Blue River UG Grant Creek Headwaters to confluence with the Blue River UG Ludd Lake 33°51"15"/109°09'35" UG K P Creek (OAW) Headwaters to confluence with the Blue River UG Lanphier Canyon Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Below confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with the San Francisco River UG Little Creek Headwaters to confluence with the San Francisco River UG Little Creek Headwaters to confluence with Gibson Creek UG Luna Lake	<u>UG</u>	Evans Pond #2	32°49'14"/109°51'09"
Headwaters to Frye Mesa Reservoir UG Frye Canyon Creek Frye Mesa reservoir to terminus at Highline Canal. UG Frye Mesa Reservoir 32°45'14"/109°50'02" UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Gila River New Mexico border to the San Carlos Indian Reservation boundary UG Grant Creek Headwaters to confluence with the Blue River UG Judd Lake 33°51'15"/109°09'35" UG KP Creek (OAW) Headwaters to confluence with the Blue River UG Lanphier Canyon Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Below confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	Fishhook Creek	Headwaters to confluence with the Blue River
Little Blue Creek Little Blue Creek Little Blue Creek Little Blue Creek Little Cre	<u>UG</u>	Foote Creek	Headwaters to confluence with the Blue River
UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Gila River New Mexico border to the San Carlos Indian Reservation boundary UG Grant Creek Headwaters to confluence with the Blue River UG Judd Lake 33°51'15"/109°09'35" UG KP Creek (OAW) Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Below confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with the San Francisco River UG Little Creek Headwaters to confluence with the San Francisco River UG Little Creek Headwaters to confluence with Headwaters to confluence with Headwaters to confluence with Headwaters to confluence with Gibson Creek UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	Frye Canyon Creek	Headwaters to Frye Mesa Reservoir
UG Gibson Creek Headwaters to confluence with Marijilda Creek UG Gila River New Mexico border to the San Carlos Indian Reservation boundary UG Grant Creek Headwaters to confluence with the Blue River UG Judd Lake 33°51'15"/109°09'35" UG K P Creek (OAW) Headwaters to confluence with the Blue River UG Lanphier Canyon Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Below confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with the San Francisco River UG Little Creek Headwaters to confluence with the San Francisco River UG Luna Lake 33°49'50"/109°08'30" UG Marijilda Creek Headwaters to confluence with Gibson Creek Headwaters to confluence with Stockton Wash	<u>UG</u>	Frye Canyon Creek	Erye Mesa reservoir to terminus at Highline Canal.
UG Grant Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with the Blue River UG Little Creek Headwaters to confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with the San Francisco River UG Little Creek Headwaters to confluence with the San Francisco River UG George's Tank 33°51'24"/109°08'30" UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	Frye Mesa Reservoir	32°45'14"/109°50'02"
UG Grant Creek Headwaters to confluence with the Blue River UG Judd Lake 33°51'15"/109°09'35" UG K P Creek (OAW) Headwaters to confluence with the Blue River UG Lanphier Canyon Creek Headwaters to confluence with Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Below confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with the San Francisco River UG Georga's Tank 33°51'24"/109°08'30" UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	Gibson Creek	Headwaters to confluence with Marijilda Creek
UG Judd Lake 33°51'15"/109°09'35" UG KP Creek (OAW) Headwaters to confluence with the Blue River UG Lanphier Canyon Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Below confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with the San Francisco River UG George's Tank 33°51'24"/109°08'30" UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	Gila River	New Mexico border to the San Carlos Indian Reservation boundary
UG K P Creek (OAW) Headwaters to confluence with the Blue River UG Lanphier Canyon Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Below confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with the San Francisco River UG George's Tank 33°51'24"/109°08'30" UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	UG	Grant Creek	Headwaters to confluence with the Blue River
UG Lanphier Canyon Creek Headwaters to confluence with the Blue River UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Below confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with the San Francisco River UG George's Tank 33°51'24"/109°08'30" UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	UG	Judd Lake	33°51'15"/109°09'35"
UG Little Blue Creek Headwaters to confluence with Dutch Blue Creek UG Little Blue Creek Below confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with the San Francisco River UG George's Tank 33°51'24"/109°08'30" UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	K P Creek (OAW)	Headwaters to confluence with the Blue River
UG Little Blue Creek Below confluence with Dutch Blue Creek to confluence with Blue Creek UG Little Creek Headwaters to confluence with the San Francisco River UG George's Tank 33°51'24"/109°08'30" UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	UG	Lanphier Canyon Creek	Headwaters to confluence with the Blue River
UG Little Creek Headwaters to confluence with the San Francisco River UG George's Tank 33°51'24"/109°08'30" UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	UG	Little Blue Creek	Headwaters to confluence with Dutch Blue Creek
UG George's Tank 33°51'24"/109°08'30" UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	Little Blue Creek	Below confluence with Dutch Blue Creek to confluence with Blue Creek
UG Luna Lake 33°49'50"/109°05'06" UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	Little Creek	Headwaters to confluence with the San Francisco River
UG Marijilda Creek Headwaters to confluence with Gibson Creek UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	UG	George's Tank	33°51'24"/109°08'30"
UG Marijilda Creek Below confluence with Gibson Creek to confluence with Stockton Wash	<u>UG</u>	Luna Lake	<u>33°49'50"/109°05'06"</u>
	<u>UG</u>	Marijilda Creek	Headwaters to confluence with Gibson Creek
UG Markham Creek Headwaters to confluence with the Gila River	<u>UG</u>	Marijilda Creek	Below confluence with Gibson Creek to confluence with Stockton Wash
	UG	Markham Creek	Headwaters to confluence with the Gila River

<u>UG</u>	Pigeon Creek	Headwaters to confluence with the Blue River
<u>UG</u>	Raspberry Creek	Headwaters to confluence with the Blue River
<u>UG</u>	Roper Lake	32°45'23"/109°42'14"
<u>UG</u>	San Francisco River	Headwaters to the New Mexico border
<u>UG</u>	San Francisco River	New Mexico border to confluence with the Gila River
<u>UG</u>	San Simon River	Headwaters to confluence with the Gila River
<u>UG</u>	Sheep Tank	32°46'14"/109°48'09"
<u>UG</u>	Smith Pond	32°49'15"/109°50'36"
<u>UG</u>	Squaw Creek	Headwaters to confluence with Thomas Creek
<u>UG</u>	Stone Creek	Headwaters to confluence with the San Francisco River
<u>UG</u>	Strayhorse Creek	Headwaters to confluence with the Blue River
<u>UG</u>	Thomas Creek	Headwaters to confluence with Rousensock Creek
<u>UG</u>	Thomas Creek	Below confluence with Rousensock Creek to confluence with Blue River
<u>UG</u>	Tinny Pond	33°47'49"/109°04'27"
<u>UG</u>	Turkey Creek	Headwaters to confluence with Campbell Blue Creek
UG	Bob Thomas Creek	Headwaters to Stone Creek @ 33 <u+00b0>51'51.93"/109<u+00b0>03'42.52"</u+00b0></u+00b0>
UG	Lengthy Canyon	Headwaters to Stravhorse Creek
<u>UG</u>	North Fork Cace Creek	Headwatersto Cace Creek @ 31 <u+00b0>52'56.63"/109<u+00b0>12'19.75"</u+00b0></u+00b0>
<u>UG</u>	Unnamed trib to Cave Creek	Headwaters to Cave Creek
<u>UG</u>	Unnamed trib to Little Strayhorse Creek	Headwaters to Little Strayhorse Creek
<u>VR</u>	American Gulch	Headwaters to the Northern Gila County Sanitary District WWTP outfall at 34°14'02"/111°22'14"
<u>VR</u>	American Gulch (EDW)	Below Northern Gila County Sanitary District WWTP outfall to confluence with the East Verde River
<u>VR</u>	Apache Creek	Headwaters to confluence with Walnut Creek
<u>VR</u>	Ashbrook Wash	Headwaters to the Fort McDowell Indian Reservation boundary
VR	Aspen Creek	Headwaters to confluence with Granite Creek
<u>VR</u>	Bar Cross Tank	35°00'41"/112°05'39"
<u>VR</u>	Barrata Tank	35°02'43"/112°24'21"
<u>VR</u>	Bartlett Lake	33°49'52"/111°37'44"
<u>VR</u>	Beaver Creek	Headwaters to confluence with the Verde River
<u>VR</u>	Big Chino Wash	Headwaters to confluence with Sullivan Lake
<u>VR</u>	Bitter Creek	Headwaters to the Jerome WWTP outfall at 34°45'12"/112°06'24"
<u>VR</u>	Bitter Creek (EDW)	Jerome WWTP outfall to the Yavapai Apache Indian Reservation boundary
<u>VR</u>	Bitter Creek	Below the Yavapai Apache Indian Reservation boundary to confluence with the Verde River
<u>VR</u>	Black Canyon Creek	Headwaters to confluence with unnamed tributary at 34°39'20"/112°05'06"
<u>VR</u>	Black Canyon Creek	Below confluence with unnamed tributary to confluence with the Verde River
<u>VR</u>	Bonita Creek	Headwaters to confluence with Ellison Creek
VR	Bray Creek	Headwaters to confluence with Webber Creek
<u>VR</u>	Camp Creek	Headwaters to confluence with the Sycamore Creek
<u>VR</u>	Cereus Wash	Headwaters to the Fort McDowell Indian Reservation boundary
<u>VR</u>	Chase Creek	Headwaters to confluence with the East Verde River
	l	

Continue Creek	<u>VR</u>	Clover Creek	Headwaters to confluence with Headwaters of West Clear Creek
Colony Wash Headwaters to the Fort McDovel Lordon Reservation boundary		<u> </u>	
VR Dead Horse Lake 34*4508*/112*10*42* VB Deadman Creek Headwaters to Horseshoe Reservoir VB Det Monte Guide Gebie Headwaters to confluence with Gity of Contempood WWTP outfall 002 at 34*4357*/112*02*46* to confluence with Beauty of Creek VB Dat Rio Dan Lake 34*4855*/112*28*03* VB Day Reasers Creek Headwaters to confluence with Beauty Creek VB Dry Creek (EDW) Sedona Ventures WWTP outfall at 34*5002*/111*52*17* to 34*4812*/111*52*42* VB Dude Creek Headwaters to confluence with Elision Creek VB Dude Creek Headwaters to confluence with Elision Creek VB East Vende River Headwaters to confluence with Elision Creek VB East Vende River Headwaters to confluence with the East Vende River VB Elision Creek Headwaters to confluence with the Vende River VB Fosail Creek (DAW) Headwaters to confluence with the Vende River VB Fosail Springs (DAW) 34*25247/11*32555* VB Fosail Creek (DAW) Headwaters to confluence with the Vende River VB Goobton Lake 34*25247/11*3255* VB			
VR Deadman Croek Headwaters to Horseshoe Reservoir VR Det Monte Gulch Headwaters to confluence with City of Cottonwood WWTP outfall 002 at 34*4357*/112*0246* VR Det Monte Gulch (EDW) City of Cottonwood WWTP outfall 002 at 34*4357*/112*0246* to confluence with Blowout Croek VR Dat Rio Dam Lake 34*4855*/112*2803* VR Dr. Creek (EDW) Sedons Ventures WWTP outfall at 34*50*02*/111*52*17* to 34*48*12*/111*52*48* VR Dute Creek Headwaters to confluence with Elison Creek VR East Vecte River Headwaters to confluence with Elison Creek VR East Vecte River Below confluence with Elison Creek to confluence with the Verde River VR East Vecte River Headwaters to confluence with the East Verde River VR East Vecte River Headwaters to confluence with Elison Creek to confluence with the Verde River VR East Vecte River Headwaters to confluence with the Verde River VR East Vecte River Headwaters to confluence with the Verde River VR East Vecte River Headwaters to vecte with Government Spring VR Fox Lake 35*03459*/111*48*04* VR Gas Cr			•
VR Del Monte Guich Headwaters to confluence with City of Cottomocod WWTP outfail 002 at 34*43577/112*02*46* to confluence with Bloocod Cross VR Det Monte Guich (EDW) City of Cottomocod WWTP outfail 002 at 34*43577/112*02*46* to confluence with Bloocod Cross VR Det Rio Dam Labe 34*48557/12*2803* VR Dr. Creek (EDW) Sedona Ventures WWTP outfail at 34*50027/111*52/17* to 34*48*127/11*52/48* VR Dade Creek Headwaters to confluence with Elison Creek VR East Verde River Headwaters to confluence with Elison Creek VR East Verde River Headwaters to confluence with Elison Creek VR East Verde River Headwaters to confluence with Elison Creek VR East Verde River Headwaters to confluence with the Verde River VR East Springs (DAW) 42*5247/11*2327. VR Eostil Springs (DAW) 34*25247/11*2355. VR For Lake 35*03457/11*4804* VR Springs (Daw) 34*25247/11*2355. VR Gan Creek Headwaters to confluence with Government Spring VR Gan Creek Below Government Spring to confluence with the Verde River			
VB Del Monte Guich (EDW) City of Cottonwood WWTP outfal 002 at 34'43'57'112'02'46' to confluence with Blowoud Creek VB Date Rob Dam Labe 34'48'55'112'28'03' VB Dry Creek (EDW) Sedona Ventures WWTP outfall at 34'50'02'111'82'17' to 34'48'12'111'52'48' VB Dry Creek (EDW) Sedona Ventures WWTP outfall at 34'50'02'111'82'17' to 34'48'12'111'52'48' VB Dude Creek Headwaters to confluence with the East Verde River VB East Verde River Below confluence with the East Verde River VB East Verde River Below confluence with the East Verde River VB Elison Creek Headwaters to confluence with the Verde River VB Elosal Scrings (OAW) Headwaters to confluence with the Verde River VB Eosal Scrings (OAW) 41'2524'111'34'27' VB Eosal Scrings (OAW) 41'2534'27'11'39'55' VB First Labe 35'0345'111'48'04' VB Goodcreek Below Creek to confluence with Government Spring VB Goodwater Labe Lower 31'23'23'11'23'25'11'2'4'12'2'20' VB Goodwater Labe Lower 31'23'23'11'2'22'20' VB G		<u> </u>	
VEX. Del Not Date Lable 24/4855/112/28/03* VB Day Beaver Creek Headwaters to confluence with Beaver Creek VB Dry Creek (EDW) Sedona Ventures WWTP outfall at 34/50/02*/111*52/17* to 34/48/12*/111*52/48* VB Dy Creek (EDW) Sedona Ventures WWTP outfall at 34/50/02*/111*52/17* to 34/48/12*/111*52/48* VB Dudd Creek Headwaters to confluence with the Beat Worde River VB East Verde River Below confluence with Ellison Creek to confluence with the Verde River VB Ellison Creek Headwaters to confluence with the Verde River VB Elsosi Creek (COW) Headwaters to confluence with the Verde River VB Essil Springs (OAW) 34/25342*/111*3427* VB Essil Springs (OAW) 34/25342*/111*3955* VB Fiv Lake 35/345*/111*48/04* VB Escincted Headwaters to confluence with Ellison Creek River VB Gancek Below Government Spring VB Escincted Headwaters to confluence with the Verde River VB Gantet Lake Lower 34/2956/112*/24*/20* VB Gotowater Lake Lower 34/2956/112*/24*	<u> VIZ</u>	Del Monte Guidi	·
VR Drv Beaver Creek Headwaters to confluence with Beaver Creek VR Dry Creek (EDW) Sedona Ventures WWTP outfall at 34*50027*111*52*17* to 34*48*12*111*5248* VR Dude Creek Headwaters to confluence with the East Verde River VR East Verde River Headwaters to confluence with Ellison Creek to confluence with the Verde River VR East Verde River Below confluence with Ellison Creek to confluence with the Verde River VR East Verde River Headwaters to confluence with the East Verde River VR Elison Creek Headwaters to confluence with the East Verde River VR Ensil Greek (OAW) Headwaters to confluence with the Verde River VR Ensil Springs (OAW) 34*25*24*111*39*55* VR Ensil Springs (OAW) 34*25*24*111*39*55* VR Envicate 35*0345*111*48*04* VR San Creek Headwaters to confluence with Government Spring VR San Creek Headwaters to confluence with Government Spring VR Garcine Tank 34*295*21*112*2420* VR Goldwater Lake, Lower 34*295*21*112*245*2* VR Granite Creek <td><u>VR</u></td> <td>Del Monte Gulch (EDW)</td> <td></td>	<u>VR</u>	Del Monte Gulch (EDW)	
VR Drv Creek (EDW) Sedona Ventures WWTP outfall at 34*50027*111*52*17* to 34*48*12*7111*52*48* VR Dude Creek Headwaters to confluence with Ellison Creek VR East Verde River Below confluence with Ellison Creek to confluence with the Verde River VR Ellison Creek Headwaters to confluence with the East Verde River VR Fossil Creek (DAW) Headwaters to confluence with the Verde River VR Fossil Creek (DAW) Headwaters to confluence with the Verde River VR Fossil Creek (DAW) Headwaters to confluence with the Verde River VR Fossil Creek (DAW) 4*2524*111*34*27* VR Fossil Creek (DAW) 4*2524*27*11*34*25* VR Fox Lake 35*345*71*12*48*04* VR Gan Creek Headwaters to confluence with Government Spring VR Gan Creek Below Government Spring to confluence with the Verde River VR Garcetal Tank 35*1857*111*2420*2* VR Goldwater Lake, Lower 34*2956*112*27*17* VR Goldwater Lake, Lower 34*2956*112*23*25* VR Granite Creek Below Maton Lake to confluence wit	<u>VR</u>	Del Rio Dam Lake	34°48'55"/112°28'03"
VR Dude Creek Headwaters to confluence with the East Verde River VR East Verde River Headwaters to confluence with Ellison Creek VR East Verde River Below confluence with Ellison Creek to confluence with the Verde River VR Ellison Creek Headwaters to confluence with the East Verde River VR Fossil Creek (QAW) Headwaters to confluence with the Verde River VR Fossil Springs (QAW) 34*2524*111*3427* VR Fossil Springs (QAW) 34*2524*111*39255* VR Fossil Creek 35*0345*111*4804* VR Fossil Creek Headwaters to confluence with Government Spring VR Gap Creek Headwaters to confluence with Government Spring VR Gap Creek Headwaters to confluence with Government Spring VR Gap Creek Headwaters to confluence with the Verde River VR Gap Creek Headwaters to confluence with the Verde River VR Garante Basin Lake 34*37*10*10*12*32*58* VR Grante Creek Headwaters to Walson Lake VR Grante Creek Headwaters to Walson Lake to confluence with the Verde Riv	<u>VR</u>	<u>Dry Beaver Creek</u>	Headwaters to confluence with Beaver Creek
VR East Verde River Headwaters to confluence with Ellison Creek VR East Verde River Below confluence with the Islison Creek to confluence with the Verde River VR Ellison Creek Headwaters to confluence with the Perde River VR Fossil Creek (OAW) Headwaters to confluence with the Verde River VR Fossil Springs (OAW) 34*2524*111*3455*5* VR Fosboro Lake 34*5342*111*3455*5* VR Fox Lake 35*0345*111*480** VR Gap Creek Headwaters to confluence with Government Spring VR Gap Creek Headwaters to confluence with He Verde River VR Gap Creek Headwaters to confluence with the Verde River VR Garett Tank 35*1857*112*22*20* VR Goldwater Lake, Upper 34*2956*1112*26*59* VR Granite Dasin Lake 34*3701*1112*32*58* VR Granite Creek Headwaters to Watson Lake VR Granite Creek Below Watson Lake to confluence with the Verde River VR Heifer Tank 35*20*27*111*23*25*9* VR Heige Say Tank 35	<u>VR</u>	Dry Creek (EDW)	Sedona Ventures WWTP outfall at 34°50'02"/ 111°52'17" to 34°48'12"/111°52'48"
VR East Verde River Below confluence with Elison Creek to confluence with the Verde River VR Elison Creek Headwaters to confluence with the East Verde River VR Fossil Creek (OAW) Headwaters to confluence with the Verde River VR Fossil Springs (OAW) 34*2524*1111*34*27* VR Fosboro Lake 35*5342*111*3955* VR For Lake 35*0345*111*4804* VR Sap Creek Headwaters to confluence with Government Spring VR Gap Creek Headwaters to confluence with He Verde River VR Gap Creek Headwaters to confluence with He Verde River VR Garrett Tank 35*1857*111*2*42*00* VR Gardwater Lake, Lower 34*2956*111*2*711*7* VR Goldwater Lake, Lower 34*2956*111*2*711*7* VR Granite Basin Lake 34*3701*111*2*32*58* VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34*13*54*111*2045* VR Helfer Tank 35*20*27*111*23*25*1 VR Hels Carnyon Tank 35*21*24*111*2	<u>VR</u>	<u>Dude Creek</u>	Headwaters to confluence with the East Verde River
VR Elison Creek Headwaters to confluence with the East Verde River VR Fossil Creek (DAW) Headwaters to confluence with the Verde River VR Fossil Springs (DAW) 34°25'24'111''34'27'' VR Foxboro Lake 34°53'42''111''39'55'' VR Env Lake 35°03'45''111''48'04'' VR Gap Creek Headwaters to confluence with Government Spring VR Gap Creek Headwaters to confluence with the Verde River VR Gap Creek Below Government Spring to confluence with the Verde River VR Gardwater Lake Lower 34°29'56''11''2''42'2'''''' VR Goldwater Lake, Lower 34°29'56'''11''2'''''''''''''''''''''''''''''	<u>VR</u>	East Verde River	Headwaters to confluence with Ellison Creek
VR Fossil Creek (OAW) Headwaters to confluence with the Verde River VR Fossil Springs (OAW) 34*2524*111*34*27* VR Foxbord Lake 34*5342*111*3955* VR Fry Lake 35*0345*111*48*04* VR Gap Creek Headwaters to confluence with Government Spring VR Gap Creek Headwaters to confluence with the Verde River VR Gap Creek Below Government Spring to confluence with the Verde River VR Gardet Lake Lower 34*2956*111*27*17** VR Goldwater Lake Lower 34*2956*111*27*17** VR Grante Basin Lake 34*3701*11*27*25** VR Grante Creek Headwaters to Watson Lake VR Grante Creek Below Watson Lake to confluence with the Verde River VR Grante Creek Below Watson Lake to confluence with the Verde River VR Grante Creek Below Watson Lake to confluence with the Verde River VR Heider Tank 35*20*27*111*2*25** VR Heider Tank 35*20*27*112*2*10** VR Horseshoe Reservoir 34*20*25*111*2*33*6* <td><u>VR</u></td> <td>East Verde River</td> <td>Below confluence with Ellison Creek to confluence with the Verde River</td>	<u>VR</u>	East Verde River	Below confluence with Ellison Creek to confluence with the Verde River
VR Eosbil Springs (OAW) 34°2524′111°34′27° VR Extxoro Lake 34°5342′111°3955° VR Fry Lake 35°03/45′111′48′04° VR Gap Creek Headwaters to confluence with Government Spring VR Gap Creek Below Government Spring to confluence with the Verde River VR Garrett Tank 35°18′57′112′42′20° VR Goldwater Lake, Lower 34°29′56′112′27′17° VR Goldwater Lake, Lower 34°29′52′112′26′59° VR Granite Basin Lake 34°37′01′112′32′58° VR Granite Creek Headwaters to Watson Lake VR Granite Creek Below Watson Lake to confluence with the Verde River VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34°13′54′111′20′45° VR Heifar Tank 35°20′27′112′32′59° VR Heils Canyon Tank 35°21′24′111′23′12° VR Horse Park Tank 35°21′24′111′36° VR Horse Park Tank 34°515′111′13′36° VR Horse Shoe Reservoir <td><u>VR</u></td> <td>Ellison Creek</td> <td>Headwaters to confluence with the East Verde River</td>	<u>VR</u>	Ellison Creek	Headwaters to confluence with the East Verde River
VR Foxboro Lake 34°53'42'111°39'55' VR Fry Lake 35°03'45'111°48'04' VR Gap Creek Headwaters to confluence with Government Spring VR Gap Creek Headwaters to confluence with Government Spring VR Garrett Tank 35°18'57'112'24'20' VR Goldwater Lake, Lower 34°29'55'112'27'17' VR Goldwater Lake, Upper 34°29'52'112'26'59' VR Granite Basin Lake 34°37'01'112'32'58' VR Granite Creek Headwaters to Watson Lake VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34°35'4'111°2'045' VR Heifer Tank 35°20'27'112'32'59' VR Heiger Tank 35°20'27'112'24'07' VR Honestead Tank 35°21'24'1112'41'36' VR Horse Park Tank 34°58'15'111'36'32' VR Horse Park Tank 34°20'25'1112'24'136' VR Houston Creek Headwaters to confluence with the Verde River VR Ju. Dam Lake 35°04'02'1112'	<u>VR</u>	Fossil Creek (OAW)	Headwaters to confluence with the Verde River
VR En Lake 35°0345'/111°48'04" VR Gap Creek Headwaters to confluence with Government Spring VR Gap Creek Below Government Spring to confluence with the Verde River VR Garrett Tank 35°18'57'/112'42'20' VR Goldwater Lake, Lower 34'29'55'/112'27'17' VR Goldwater Lake, Upper 34'29'55'/112'26'59' VR Granite Creek Headwaters to Watson Lake VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34''13'54'/111''20'45'' VR Heifer Tank 35°04'59'/112'24'10'' VR Hells Canyon Tank 35°04'59'/112''24'10'' VR Homestead Tank 35°21'24'/112''41'36'' VR Horse Park Tank 34°58'15'/111''36'32'' VR Horsehoe Reservoir 34°02'25'/111''43'36'' VR Houston Creek Headwaters to confluence with the Verde River VR J.D. Dam Lake 35°04'02''/112''01'48'' VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34''45'46''/111''45'51''	<u>VR</u>	Fossil Springs (OAW)	34°25'24"/111°34'27"
VR Gap Creek Headwaters to confluence with Government Spring VR Gap Creek Below Government Spring to confluence with the Verde River VR Garrett Tank 35°18'57'/112"42'20" VR Goldwater Lake, Lower 34°29'56'/112"27'17" VR Goldwater Lake, Upper 34°29'52'/112"26'59" VR Granite Basin Lake 34°37'01'/12"32'58" VR Granite Creek Headwaters to Watson Lake VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34°13'54'/111"20'45" VR Heifer Tank 35°20'27"/112"32'59" VR Heils Canyon Tank 35°20'29'71'12"32'59" VR Horse Park Tank 35°21'24'/112"41'36" VR Horse Park Tank 34'58'15'/111"36'32" VR Horse Park Tank 34'20'25'/111"43'36" VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34'27'46'/111"23'11" VR J.D. Dam Lake 35'00'25'/112"21'/148'' VR Jacks Can	<u>VR</u>	Foxboro Lake	34°53'42"/111°39'55"
VR Gap Creek Below Government Spring to confluence with the Verde River VR Garrett Tank 35°1857"/112°42'20" VR Goldwater Lake, Lower 34°29'56"/112°27'17" VR Goldwater Lake, Upper 34°29'52"/112°26'59" VR Granite Basin Lake 34°37'01"/112°32'58" VR Granite Creek Headwaters to Watson Lake VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34°13'54"/111°20'45" VR Heifer Tank 35°20'27"/112°32'59" VR Heils Canyon Tank 35°04'59"/112°24'07" VR Horsestead Tank 35°21'24"/112°41'36" VR Horseshoe Reservoir 34°00'25"/111°43'36" VR Horseshoe Reservoir 34°00'25"/111°23'11" VR Huffer Tank 34°27'46"/111°23'11" VR J.D. Dam Lake 35°04'02"/112°01'48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46"/111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek	<u>VR</u>	Fry Lake	35°03'45"/111°48'04"
VR Garrett Tank 35°18'57'/112°42'20" VR Goldwater Lake, Lower 34°29'56'/112°27'17" VR Goldwater Lake, Upper 34°29'52'/112°26'59" VR Granite Basin Lake 34°37'01'/112°32'58" VR Granite Creek Headwaters to Watson Lake VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34°13'54'/111°20'45" VR Heifer Tank 35°20'27'/112°32'59" VR Heils Canyon Tank 35°20'27'/112°24'07" VR Homestead Tank 35°21'24'/112°41'36" VR Horse Park Tank 34°58'15'/111°36'32" VR Horseshoe Reservoir 34°00'25'/111°43'36' VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27'46''/111°23'11" VR J.D. Dam Lake 35°04'02'/112°01'48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46''/111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek <t< td=""><td><u>VR</u></td><td>Gap Creek</td><td>Headwaters to confluence with Government Spring</td></t<>	<u>VR</u>	Gap Creek	Headwaters to confluence with Government Spring
VR Goldwater Lake, Lower 34°29′56″/112°27′17" VR Goldwater Lake, Upper 34°29′52″/112°26′59" VR Granite Basin Lake 34°3701″/112°32′58" VR Granite Creek Headwaters to Watson Lake VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34°13′54″/111°20′45" VR Heifer Tank 35°20′27″/112°32′59" VR Hells Canyon Tank 35°04′59″/112°44′07" VR Horsestad Tank 35°21′24″/112°41′36" VR Horseshoe Reservoir 34°35″/112°41′36" VR Horseshoe Reservoir 34°00′25″/112°43′36" VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27′46″/111°23′11" VR J.D. Dam Lake 35°04′02″/112°01′48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45′46″/111°45′51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir	<u>VR</u>	Gap Creek	Below Government Spring to confluence with the Verde River
VR Goldwater Lake, Upper 34°29′52″/112°26′59″ VR Granite Basin Lake 34°37′01″/112°32′58″ VR Granite Creek Headwaters to Watson Lake VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34°13′54″/111°20′45″ VR Heifer Tank 35°20′27″/112°32′59″ VR Hells Canyon Tank 35°04′59″/112°24′07″ VR Honsestead Tank 35°21′24″/112°41′36″ VR Horse Park Tank 34°58′15″/111°36′32″ VR Horseshoe Reservoir 34°00′25″/111°43′36″ VR Huffer Tank 34°27′46″/111°23′11″ VR Huffer Tank 34°27′46″/111°23′11″ VR J.D. Dam Lake 35°04′02″/112°01′48″ VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45′46″/111°45′51″ VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Lime Creek Headwaters to Horseshoe Reservoir	<u>VR</u>	Garrett Tank	35°18'57"/112°42'20"
VR Granite Basin Lake 34°37'01"/112°32'58" VR Granite Creek Headwaters to Watson Lake VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34°13'54"/111°20'45" VR Heifer Tank 35°20'27"/112°32'59" VR Hells Canyon Tank 35°04'59"/112°24'07" VR Homestead Tank 35°21'24"/112°41'36" VR Horse Park Tank 34°58'15"/111°36'32" VR Horseshoe Reservoir 34°00'25"/111°43'36" VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27'46"/111°23'11" VR J.D. Dam Lake 35°04'02"/112°01'48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46"/ 111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Goldwater Lake, Lower	<u>34°29'56"/112°27'17"</u>
VR Granite Creek Headwaters to Watson Lake VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34°13'54"/111°20'45" VR Heifer Tank 35°20'27"/112°32'59" VR Hells Canyon Tank 35°04'59"/112°24'07" VR Homestead Tank 35°21'24"/112°41'36" VR Horse Park Tank 34°58'15"/111°36'32" VR Horseshoe Reservoir 34°00'25"/111°43'36" VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27'46"/111°23'11" VR J.D. Dam Lake 35°04'02"/112°01'48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46"/111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Goldwater Lake, Upper	34°29'52"/112°26'59"
VR Granite Creek Below Watson Lake to confluence with the Verde River VR Green Valley Lake (EDW) 34°13'54"/111°20'45" VR Heifer Tank 35°20'27"/112°32'59" VR Hells Canyon Tank 35°04'59"/112°24'07" VR Honestead Tank 35°21'24"/112°41'36" VR Horse Park Tank 34°58'15"/111°36'32" VR Horseshoe Reservoir 34°00'25"/111°43'36" VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27'46"/111°23'11" VR J.D. Dam Lake 35°04'02"/112°01'48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46"/111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Granite Basin Lake	34°37'01"/112°32'58"
VR Green Valley Lake (EDW) 34°13'54"/111°20'45" VR Heifer Tank 35°20'27"/112°32'59" VR Hells Canyon Tank 35°04'59"/112°24'07" VR Homestead Tank 35°21'24"/112°41'36" VR Horse Park Tank 34°58'15"/111°36'32" VR Horseshoe Reservoir 34°00'25"/111°43'36" VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27'46"/111°23'11" VR J.D. Dam Lake 35°04'02"/112°01'48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46"/111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Granite Creek	Headwaters to Watson Lake
VR Heifer Tank 35°20'27"/112°32'59" VR Hells Canyon Tank 35°04'59"/112°24'07" VR Homestead Tank 35°21'24"/112°41'36" VR Horse Park Tank 34°58'15"/111°36'32" VR Horseshoe Reservoir 34°00'25"/111°43'36" VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27'46"/111°23'11" VR J.D. Dam Lake 35°04'02"/112°01'48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46"/111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Granite Creek	Below Watson Lake to confluence with the Verde River
VR Hells Canyon Tank 35°04′59″/112°24′07″ VR Homestead Tank 35°21′24″/112°41′36″ VR Horse Park Tank 34°58′15″/111°36′32″ VR Horseshoe Reservoir 34°00′25″/111°43′36″ VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27′46″/111°23′11″ VR J.D. Dam Lake 35°04′02″/112°01′48″ VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45′46″/ 111°45′51″ VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13′32″/112°24′10″	<u>VR</u>	Green Valley Lake (EDW)	34°13'54"/111°20'45"
VR Homestead Tank 35°21'24"/112°41'36" VR Horse Park Tank 34°58'15"/111°36'32" VR Horseshoe Reservoir 34°00'25"/111°43'36" VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27'46"/111°23'11" VR J.D. Dam Lake 35°04'02"/112°01'48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46"/ 111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Heifer Tank	35°20'27"/112°32'59"
VR Horse Park Tank 34°58'15"/111°36'32" VR Horseshoe Reservoir 34°00'25"/111°43'36" VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27'46"/111°23'11" VR J.D. Dam Lake 35°04'02"/112°01'48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46"/ 111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Hells Canyon Tank	<u>35°04'59"/112°24'07"</u>
VR Horseshoe Reservoir 34°00′25"/111°43′36" VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27′46"/111°23′11" VR J.D. Dam Lake 35°04′02"/112°01′48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45′46"/111°45′51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13′32"/112°24′10"	<u>VR</u>	Homestead Tank	35°21'24"/112°41'36"
VR Houston Creek Headwaters to confluence with the Verde River VR Huffer Tank 34°27'46"/111°23'11" VR J.D. Dam Lake 35°04'02"/112°01'48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46"/ 111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Horse Park Tank	34°58'15"/111°36'32"
VR Huffer Tank 34°27'46"/111°23'11" VR J.D. Dam Lake 35°04'02"/112°01'48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46"/ 111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Horseshoe Reservoir	34°00'25"/111°43'36"
VR J.D. Dam Lake 35°04′02"/112°01′48" VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45′46"/ 111°45′51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Houston Creek	Headwaters to confluence with the Verde River
VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45'46"/ 111°45'51" VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Huffer Tank	34°27'46"/111°23'11"
VR Jacks Canyon Headwaters to Big Park WWTP outfall at 34°45′46″/ 111°45′51″ VR Jacks Canyon (EDW) Below Big Park WWTP outfall to confluence with Dry Beaver Creek VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13′32″/112°24′10″	<u>VR</u>	J.D. Dam Lake	<u>35°04'02"/112°01'48"</u>
VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"		Jacks Canyon	Headwaters to Big Park WWTP outfall at 34°45'46"/ 111°45'51"
VR Lime Creek Headwaters to Horseshoe Reservoir VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Jacks Canyon (EDW)	Below Big Park WWTP outfall to confluence with Dry Beaver Creek
VR Masonry Number 2 Reservoir 35°13'32"/112°24'10"	<u>VR</u>	Lime Creek	Headwaters to Horseshoe Reservoir
		Masonry Number 2 Reservoir	35°13'32"/112°24'10"
	<u></u>	McLellan Reservoir	35°13'09"/112°17'06"

<u>VR</u>	Meath Dam Tank	35°07'52"/112°27'35"
VR	Mullican Place Tank	34°44'16"/111°36'10"
<u></u>	Oak Creek (OAW)	Headwaters to confluence with unnamed tributary at 34°59'15"/111°44'47"
<u>VR</u>	Oak Creek (OAW)	Below confluence with unnamed tributary to confluence with Verde River
<u>VR</u>	Oak Creek, West Fork (OAW)	Headwaters to confluence with Oak Creek
VR	Odell Lake	34°56'5"/111°37'53"
<u>VR</u>	Peck's Lake	34°46'51"/112°02'01"
<u>VR</u>	Perkins Tank	35°06'42"/112°04'12"
<u>VR</u>	Pine Creek	Headwaters to confluence with unnamed tributary at 34°21'51"/111°26'49"
<u>VR</u>	Pine Creek	Below confluence with unnamed tributary to confluence with East Verde River
<u>VR</u>	Red Creek	Headwaters to confluence with the Verde River
<u>VR</u>	Reservoir #1	35°13'5"/111°50'09"
<u>VR</u>	Reservoir #2	35°13'17"/111°50'39"
<u>VR</u>	Roundtree Canyon Creek	Headwaters to confluence with Tangle Creek
<u>VR</u>	Scholze Lake	35°11'53"/112°00'37"
<u>VR</u>	Spring Creek	Headwaters to confluence with unnamed tributary at 34°57'23"/111°57'21"
<u>VR</u>	Spring Creek	Below confluence with unnamed tributary to confluence with Oak Creek
VR	Steel Dam Lake	35°13'36"/112°24'54"
<u>VR</u>	Stehr Lake	34°22'01"/111°40'02"
<u>VR</u>	Sullivan Lake	<u>34°51'42"/112°27'51"</u>
<u>VR</u>	Sycamore Creek	Headwaters to confluence with unnamed tributary at 35°03'41"/111°57'31"
<u>VR</u>	Sycamore Creek	Below confluence with unnamed tributary to confluence with Verde River
<u>VR</u>	Sycamore Creek	Headwaters to confluence with Verde River at 33°37'55"/111°39'58"
<u>VR</u>	Sycamore Creek	Headwaters to confluence with Verde River at 34°04'42"/111°42'14"
<u>VR</u>	Tangle Creek	Headwaters to confluence with Verde River
<u>VR</u>	Trinity Tank	35°27'44"/112°48'01"
<u>VR</u>	Unnamed Wash	Elagstaff Meadows WWTP outfall at '35°13'59"/ 111°48'35" to Volunteer Wash
<u>VR</u>	<u>Verde River</u>	From headwaters at confluence of Chino Wash and Granite Creek to Bartlett Lake Dam
<u>VR</u>	<u>Verde River</u>	Below Bartlett Lake Dam to Salt River
<u>VR</u>	Walnut Creek	Headwaters to confluence with Big Chino Wash
<u>VR</u>	Watson Lake	<u>34°34'58"/112°25'26"</u>
<u>VR</u>	Webber Creek	Headwaters to confluence with the East Verde River
<u>VR</u>	West Clear Creek	Headwaters to confluence with Meadow Canyon
<u>VR</u>	West Clear Creek	Below confluence with Meadow Canyon to confluence with the Verde River
<u>VR</u>	Wet Beaver Creek	Headwaters to unnamed springs at 34°41'17"/ 111°34'34"
<u>VR</u>	Wet Beaver Creek	Below unnamed springs to confluence with Dry Beaver Creek
<u>VR</u>	Whitehorse Lake	<u>35°06'59"/112°00'48"</u>
<u>VR</u>	Williamson Valley Wash	Headwaters to confluence with Mint Wash
<u>VR</u>	Williamson Valley Wash	From confluence of Mint Wash to 10.5 km downstream
<u>VR</u>	Williamson Valley Wash	From 10.5 km downstream of Mint Wash confluence to confluence with Big Chino Wash
<u>VR</u>	Williscraft Tank	<u>35°11'22"/112°35'40"</u>

<u>VR</u>	Willow Creek	Above Willow Creek Reservoir
<u>VR</u>	Willow Creek	Below Willow Creek Reservoir to confluence with Granite Creek
<u>VR</u>	Willow Creek Reservoir	<u>34°36'17"/112°26'19"</u>
<u>VR</u>	Willow Valley Lake	34°41'08"/111°20'02"
<u>VR</u>	Banning Creek	Headwaters to Granite Creek @ 34°31'01.02"/112°28'37.63"
<u>VR</u>	Butte Creek	Headwaters to Miller Creek @ 34°32'49.03"/112°28'29.3"
<u>VR</u>	Government Canyon	Headwaters to Granite Creek @ 34°33'29.49"/112°26'53.18"
<u>VR</u>	Manzanita Creek	Headwaters to Granite Creek @ 34°31'31.19"/112°28'44.34"
<u>VR</u>	Miller Creek	Headwaters to Granite Creek @ 34°32'48.55"/112°28'12.96"
<u>VR</u>	North Fork Miller	Headwaters to Miller Creek
<u>VR</u>	North Granite Creek	Headwaters to Granite Creek @ 34°33'04.33"/112°27'50.45"
<u>VR</u>	Slaugterhouse Gulch	Headwaters to Yavapai Res. Boundary
<u>VR</u>	Unnamed Trib to Granite Creek (UGC)	Headwaters to Yavapai Prescott Reservation Boundary
<u>VR</u>	Unnamed Trib to UGC (UUG)	Headwaters to Unnamed Trib to Granite Creek (UGC)
<u>VR</u>	Alder Creek	Headwaters to Verde River @ 33 <u+00b0>51'39.24"/111<u+00b0>36'15.1"</u+00b0></u+00b0>
<u>VR</u>	City Creek	Headwaters to East Verde Rriver @ 34 <u+00b0>13'27.07"/111<u+00b0>27'58.63"</u+00b0></u+00b0>
<u>VR</u>	Lee Canvon	Headwaters to J D Dam Wash
<u>VR</u>	Mail Creek	Headwaters to East Verde River @ 34 <u+00b0>25'03.88"/111<u+00b0>15'49.6"</u+00b0></u+00b0>
<u>VR</u>	Munds Creek	Casner Park Tank to Oak Creek @ 34 <u+00b0>54'41.65"/111<u+00b0>43'36.5"</u+00b0></u+00b0>
<u>VR</u>	Rarick Canyon	Headwaters to Wet Beaver Creek @ 34 <u+00b0>38'54.94"/111<u+00b0>45'03.07"</u+00b0></u+00b0>
<u>VR</u>	Secret Canvon	Unnamed Trib at 34 57 02.6. 111 50 19.0 to Dry Creek
<u>VR</u>	Sterling Canyon	Headwaters to Oak Creek @ 35 <u+00b0>01'27.31"/111<u+00b0>44'11.78"</u+00b0></u+00b0>
<u>VR</u>	Sycamore Creek (SYE)	Headwaters to East Verde Rriver @ 34 <u+00b0>18'03.98"/111<u+00b0>21'31.18"</u+00b0></u+00b0>
<u>VR</u>	Unnamed trib (UP1) to Pumphouse Wash	Griffiths Spring to Pumphouse Wash
<u>VR</u>	Unnamed trib (UPM) to Pumphouse Wash	Headwaters to Pumphouse Wash @ 35 <u+00b0>01'28.96"/111<u+00b0>44'09.98"</u+00b0></u+00b0>
VR	Unnamed trib to Big Spring Canyon	Headwaters to Big Spring Canyon
<u>VR</u>	Unnamed trib to Pumphouse Wash	Headwaters to Pumphouse Wash
<u>VR</u>	Unnamed trib to Pumphouse Wash	Headwaters to Unnamed trib (UP1) to Pumphouse Wash
<u>VR</u>	Unnamed trib to Pumphouse Wash	Headwaters to Pumphouse Wash
VR	Unnamed trib to Willimason Valley Wash	Headwaters to Williamson Valley Wash

R18-2-215. Best Management Practices for non-WOTUS Protected Surface Waters

A. The BMPs described in this rule are intended to ensure that activities within the ordinary high-water mark of perennial or intermittent non-WOTUS protected surface waters, or within the bed and bank of other surface waters that materially impact non-WOTUS protected surface waters, and do not violate applicable surface water quality standards in the non-WOTUS protected surface waters. For purposes of this section, the activities described in the prior sentence will be referred to as "regulated activities." Depending on the regulated activities conducted, not all of the BMPS described below may be applicable to a particular project. The owner or operator is responsible to consider the BMPS outlined below and to implement those necessary to ensure that the regulated activities will not violate applicable surface water quality standards in the non-WOTUS protected surface water.

- B. The BMPS described below are not applicable to any activities that are addressed under an individual or general AZPDES permit that are otherwise regulated under A.R.S. Title 49.
- C. Erosion and sedimentation control BMPs:
 - 1. When flow is present in any non-WOTUS protected surface waters within a project area, flow shall not be altered except to prevent erosion or pollution of any non-WOTUS protected surface waters.
 - 2. Any disturbance within the ordinary high-water mark of non-WOTUS protected surface waters or within the bed and banks of other waters, that is not intended to be permanently altered, shall be stabilized as soon as practicable to prevent erosion and sedimentation.
 - 3. When flow in any non-WOTUS protected surface water is sufficient to erode, carry, or deposit material, regulated activities shall cease until:
 - a. The flow decreases below the point where sediment movement ceases; or
 - b. Control measures have been undertaken, i.e., equipment and material easily transported by flow are protected within non-erodible barriers or moved outside the flow area.
 - 4. Silt laden or turbid water resulting from regulated activities should be managed in a manner to reduce sediment load prior to discharging.
 - 5. No washing or dewatering of fill material should occur within the ordinary high-water mark of any perennial or intermittent non-WOTUS protected surface waters. Other than the replacement of native fill or material used to support vegetation rooting or growth, fill placed within the ordinary high-water mark of any perennial or intermittent non-WOTUS protected surface water must resist washout whether such resistance is derived via particle size limits, presence of a binder, vegetation, or other armoring.

D. Pollutant management BMPs:

- 1. If regulated activities are likely to violate applicable surface water quality standards in a perennial or intermittent non-WOTUS protected surface water, operations shall cease until the problem is resolved or until control measures have been implemented.
- 2. Construction material and/or fill (other than native fill or that necessary to support revegetation) placed within surface waters as a result of regulated activities shall not include pollutants in concentrations that will violate applicable surface water quality standards in a perennial or intermittent non-WOTUS protected surface water.

E. Construction phase BMPs:

- 1. Equipment staging and storage areas or fuel, oil, and other petroleum products storage and solid waster containment should not be located within the ordinary high-water mark of any perennial or intermittent non-WOTUS protected surface water.
- 2. Any equipment maintenance, washing, or fueling shall not be done within the ordinary high-water mark of any perennial or intermittent non-WOTUS protected surface waters with the following exception:
 - a. Equipment too large or unwieldy to be readily moved, such as large cranes, may be fueled and serviced in non-WOTUS protected surface waters (but outside of standing or flowing water) provided material specifically manufactured and sold as spill containment is in place during fueling/servicing.
- 3. All equipment shall be inspected for leaks, all leaks shall be repaired, and all repaired equipment shall be cleaned to remove any fuel or other fluid residue prior to use within the ordinary high-water mark of any perennial or intermittent non-WOTUS protected surface waters.
- 4. Washout of concrete handling equipment shall not take place within the ordinary high-water mark of any perennial or intermittent non-WOTUS protected surface waters.

F. Post-construction BMPs:

- 1. Upon completion of regulated activities, areas within the ordinary high-water mark of any perennial or intermittent non-WOTUS protected surface waters shall be promptly cleared of all forms, piling, construction residues, equipment, debris, or other obstructions.
- 2. If fully, partially, or occasionally submerged structures are constructed of cast-in-place concrete instead of precast concrete, steps will be taken using sheet piling or temporary dams to prevent contact between water (instream and runoff) and the concrete until it cures and until any curing agents have evaporated or are no longer a pollutant threat.
- 3. Any permanent water crossings within the ordinary high-water mark of any perennial or intermittent in a non-WOTUS protected surface water (other than fords) shall not be equipped with gutters, drains, scuppers,

- or other conveyances that allow untreated runoff (due to events equal to or lesser in magnitude than the design event for the crossing structure) to directly enter a non-WOTUS protected surface water if such runoff can be directed to a local stormwater drainage, containment, and/or treatment system.
- 4. Debris shall be cleared as needed from culverts, ditches, dips, and other drainage structures within the ordinary high-water mark of any perennial or intermittent non-WOTUS protected surface water to prevent clogging or conditions that may lead to a washout.
- 5. Temporary structures constructed or imported materials shall be removed no later than upon completion of the regulated activities.
- 6. Temporary structures constructed of native materials, if they provide an obstacle to flow or can contribute to or cause erosion, or cause changes in sediment load, shall be removed no later than upon completion of the regulated activities.
- G. Design consideration BMPs: may be included in a permit for a discharge to a non-WOTUS protected surface water:
 - 1. All temporary structures constructed of imported materials and all permanent structures, including but not limited to, access roadways, culvert crossings, staging areas, material stockpiles, berms, dikes, and pads, shall be constructed so as to accommodate overtopping and resist washout by streamflow.
 - 2. Any temporary crossing, other than fords on native material, shall be constructed in such a manner so as to provide armoring of the stream channel. Materials used to provide this armoring shall not include anything easily transportable by flow. Examples of acceptable materials include steel plates, untreated wooden planks, pre-cast concrete planks or blocks. Examples of unacceptable materials include clay, silt, sand, and gravel finer than cobble (roughly fist-sized). The armoring shall, via mass, anchoring systems, or a combination of the two, resist washout.

H. Notification.

1. The owner or operator of any regulated activities shall, five (5) days prior to initiation the regulated activities, submit a notice to ADEQ on a form that includes basic information including the general location, the nearest non-WOTUS protected surface water, general description of planned activities, and contact person.

I. Exclusions:

- 1. The BMPS and notification requirements in this section shall not apply to:
 - a. Activities that are already regulated under A.R.S. Title 49.
 - b. Discharges to a non-WOTUS protected surface water incidental to a recharge project.
 - Established or ongoing farming, ranching and silviculture activities such as plowing, seeding,
 cultivating, minor drainage or harvesting for the production of food, fiber or forest products or upland soil and water conservation practices.
 - d. Maintenance but no construction of drainage ditches.
 - e. Construction and maintenance of irrigation ditches.
 - f. Maintenance of structures as dams, dikes, and levees.

R18-11-216. Variances

- A. Upon request, the Director may establish, by rule, a discharger-specific or water segment(s)-specific variance from a water quality standard if requirements pursuant to this Section are met.
- B. A person who requests a variance must demonstrate all of the following information:
 - 1. Identification of the specific pollutant and water quality standard for which a variance is sought.
 - 2. Identification of the receiving surface water segment or segments to which the variance would apply.
 - 3. A detailed discussion of the need for the variance, including the reasons why compliance with the water quality standard cannot be achieved over the term of the proposed variance, and any other useful information or analysis to evaluate attainability.
 - 4. A detailed description of proposed interim discharge limitations and pollutant control activities that represent the highest level of treatment achievable by a point source discharger or dischargers during the term of the variance.
 - Documentation that the proposed term is only as long as necessary to achieve compliance with applicable water quality standards.
 - 6. Documentation that is appropriate to the type of designated use to which the variance would apply as follows:

- a. For a water quality standard variance documentation must include a demonstration of at least one of the following factors that preclude attainment of the use during the term of the variance:
 - . Naturally occurring pollutant concentrations prevent attainment of the use:
 - ii. Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating state water conservation requirements to enable uses to be met;
 - iii. That human-caused conditions or sources of pollution prevent the attainment of the water quality standard for which the variance is sought and either (1) it is not possible to remedy the conditions or sources of pollution or (2) remedying the human-caused conditions would cause more environmental damage to correct than to leave in place:
 - iv. Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of the use;
 - v. Physical conditions related to the natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of aquatic life protection uses:
 - vi. Actions necessary to facilitate lake, wetland, or stream restoration through dam removal or other significant reconfiguration activities preclude attainment of the designated use and criterion while the actions are being implemented.
- 7. For a waterbody segment(s)-specific variance, the following information is required before the Director may issue a variance, in addition to all other required documentation pursuant to this Section:
 - a. Identification and documentation of any cost-effective and reasonable best management practices for nonpoint source controls related to the pollutant(s) or water quality parameter(s) and water body or waterbody segment(s) specified in the variance that could be implemented to make progress towards attaining the underlying designated use and criterion; and
 - b. If any variance pursuant to subsection (B)(7)(a) previously applied to the water body or waterbody segment(s), documentation must also demonstrate whether and to what extent best management practices for nonpoint source controls were implemented to address the pollutant(s) or water quality parameter(s) subject to the water quality variance and the water quality progress achieved.
- 8. For a discharger-specific variance, the following information is required before the Director may issue a variance, in addition to all other required documentation pursuant to this Section:
 - a. Identification of the permittee subject to the variance;
- C. The Director shall consider the following factors when deciding whether to grant or deny a variance request:
 - Bioaccumulation.
 - 2. The predicted exposure of biota and the likelihood that resident biota will be adversely affected,
 - 3. The known or predicted safe exposure levels for the pollutant for which the variance is requested, and
 - 4. The likelihood of adverse human health effects.
- D. The variance shall represent the highest attainable condition of the water body or water body segment applicable throughout the term of the variance.
- E. A variance shall not result in any lowering of the currently attained ambient water quality, unless the variance is necessary for restoration activities, consistent with subsection (B)(6)(a)(vi). The Director must specify the highest attainable condition of the water body or waterbody segment as a quantifiable expression of one of the following:
 - 1. The highest attainable interim criterion.
 - 2. The interim effluent condition that reflects the greatest pollutant reduction achievable.
- F. A variance shall not modify the underlying designated use and criterion. A variance is only a time limited exception to the underlying standard. For discharge-specific variances, other point source dischargers to the surface water that are not granted a variance shall still meet all applicable water quality standards.
- G. Point source discharges shall meet all other applicable water quality standards for which a variance is not granted
- H. The term of the water quality variance may only be as long as necessary to achieve the highest attainable condition and must be consistent with the supporting documentation in subsection (E).
- I. The Director shall periodically reevaluate whether each variance continues to represent the highest attainable condition.

 Comment on the variance shall be considered regarding whether the variance continues to represent the highest attainable condition during each rulemaking for this Article. If the Director determines that the requirements of the variance do not represent the highest attainable condition, then the Director shall modify or repeal the variance during the active rulemaking.
- J. If the variance is modified by rulemaking, the requirements of the variance shall represent the highest attainable condition at the time of initial adoption of the variance, or the highest attainable condition identified during the current reevaluation, whichever is more stringent.
- K. Upon expiration of a variance, point source dischargers shall comply with the water quality standard.

R18-2-217. Site Specific Standards

- A. The Director shall adopt a site-specific standard by rule.
- B. The Director may adopt a site-specific standard based upon a request or upon the Director's initiative for any of the following reasons:
 - 1. Local physical, chemical, or hydrological conditions of a non-WOTUS protected surface water such as pH, hardness, fate and transport, or temperature alters the biological availability or toxicity of a pollutant;
 - 2. The sensitivity of resident aquatic organisms that occur in a non-WOTUS protected surface water to a pollutant differs from the sensitivity of the species used to derive the numeric water quality standards to protect aquatic life in R18-2-213;
 - 3. Resident aquatic organisms that occur in a non-WOTUS protected surface water represent a narrower mix of species than those in the dataset used by ADEO to derive numeric water quality standards to protect aquatic life in R18-2-213;
 - 4. The natural background concentration of a pollutant is greater than the numeric water quality standard to protect aquatic life prescribed in R18-2-213. "Natural background" means the concentration of a pollutant in a non-WOTUS protected surface water due only to non-anthropogenic sources; or
 - 5. Other factors or combination of factors that upon review by the Director warrant changing a numeric water quality standard for a non-WOTUS protected surface water.
- C. Site-specific standard by request. To request that the Director adopt a site-specific standard, a person must conduct a study to support the development of a site-specific standard using a scientifically-defensible procedure.
 - 1. Before conducting the study, a person shall submit a study outline to the Director for approval that contains the following elements:
 - a. Identifies the pollutant;
 - b. Describes the reach's boundaries:
 - c. Describes the hydrologic regime of the waterbody:
 - d. Describes the scientifically-defensible procedure, which can include relevant aquatic life studies, ecological studies, laboratory tests, biological translators, fate and transport models, and risk analyses;
 - e. Describes and compares the taxonomic composition, distribution and density of the aquatic biota within the reach to a reference reach and describes the basis of any major taxonomic differences:
 - f. Describes the pollutant's effect on the affected species or appropriate surrogate species and on the other designated uses listed for the reach;
 - g. Demonstrates that all designated uses are protected; and
 - h. A person seeking to develop a site-specific standard based on natural background may use statistical or modeling approaches to determine natural background concentration. Modeling approaches include Better Assessment Science Integrating Source and Nonpoint Sources (Basins), Hydrologic Simulation Program-Fortran (HSPF), and Hydrologic Engineering Center (HEC) programs developed by the U.S. Army Corps of Engineers.