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DIRECTOR Administrative Rules Division Scott Cancelosi PUBLISHER SECRETARY OF STATE ADRIAN FONTES RULES MANAGING EDITOR Arizona Administrative Register Rhonda Paschal

From the Publisher

ABOUT THIS PUBLICATION

The authenticated pdf of the *Administrative Register* (A.A.R.) posted on the Arizona Secretary of State's website is the official published version for rulemaking activity in the state of Arizona.

Rulemaking is defined in Arizona Revised Statutes known as the Arizona Administrative Procedure Act (APA), A.R.S. Title 41, Chapter 6, Articles 1 through 10.

The *Register* is cited by volume and page number. Volumes are published by calendar year with issues published weekly. Page numbering continues in each weekly issue.

In addition, the *Register* contains notices of rules terminated by the agency and rules that have expired.

ABOUT RULES

Rules can be: made (all new text); amended (rules on file, changing text); repealed (removing text); or renumbered (moving rules to a different Section number). Rulemaking activity published in the *Register* includes: proposed, final, emergency, expedited, and exempt rules as defined in the APA, and other state statutes.

New rules in this publication (whether proposed or made) are denoted with underlining; repealed text is stricken.

WHERE IS A "CLEAN" COPY OF THE FINAL OR EXEMPT RULE PUBLISHED IN THE *REGISTER*?

The Arizona Administrative Code (A.A.C) contains the codified text of rules. The A.A.C. contains rules promulgated and filed by state agencies that have been approved by the Attorney General or the Governor's Regulatory Review Council. The Code also contains rules exempt from the rulemaking process.

The authenticated pdf of *Code* Chapters posted on the Arizona Secretary of State's website are the official published version of rules in the A.A.C. The *Code* is posted online for free.

LEGAL CITATIONS AND FILING NUMBERS

On the cover: Each agency is assigned a Chapter in the *Arizona Administrative Code* under a specific Title. Titles represent broad subject areas. The Title number is listed first; with the acronym A.A.C., which stands for the *Arizona Administrative Code*; following the Chapter number and Agency name, then program name. For example, the Secretary of State has rules on rulemaking in Title 1, Chapter 1 of the *Arizona Administrative Code*. The citation for this Chapter is 1 A.A.C. 1, Secretary of State, Rules and Rulemaking.very document filed in the office is assigned a file number. This number, enclosed in brackets, is located at the top right of the published documents in the *Register*. The original filed document is available for 10 cents a page.



January 27, 2023 Volume 29, Issue 4

PUBLISHER SECRETARY OF STATE Adrian Fontes

ADMINISTRATIVE RULES STAFF DIRECTOR Scott Cancelosi

> Rules Managing Editor Rhonda Paschal

ADMINISTRATIVE REGISTER This publication is available online for free at <u>www.azsos.gov.</u>

ADMINISTRATIVE CODE The Arizona Administrative Code is available online at <u>www.azsos.gov.</u>

PUBLICATION DEADLINES

Publication dates are published in the back of the *Register*. These dates include file submittal dates with a threeweek turnaround from filing to published document.

CONTACT US

Administrative Rules Division Office of the Secretary of State 1700 W. Washington Street, FI. 2 Phoenix, AZ 85007 (602) 364-3223

The Office of the Secretary of State is an equal opportunity employer.

Participate in the Process

Look for the Agency Notice

Review (inspect) notices published in the *Arizona Administrative Register*. Many agencies maintain stakeholder lists and would be glad to inform you when they proposed changes to rules. Check an agency's website and its newsletters for news about notices and meetings.

Feel like a change should be made to a rule and an agency has not proposed changes? You can petition an agency to make, amend, or repeal a rule. The agency must respond to the petition. (See A.R.S. § 41-1033)

Attend a public hearing/meeting

Attend a public meeting that is being conducted by the agency on a Notice of Proposed Rulemaking. Public meetings may be listed in the Preamble of a Notice of Proposed Rulemaking or they may be published separately in the *Register*. Be prepared to speak, attend the meeting, and make an oral comment.

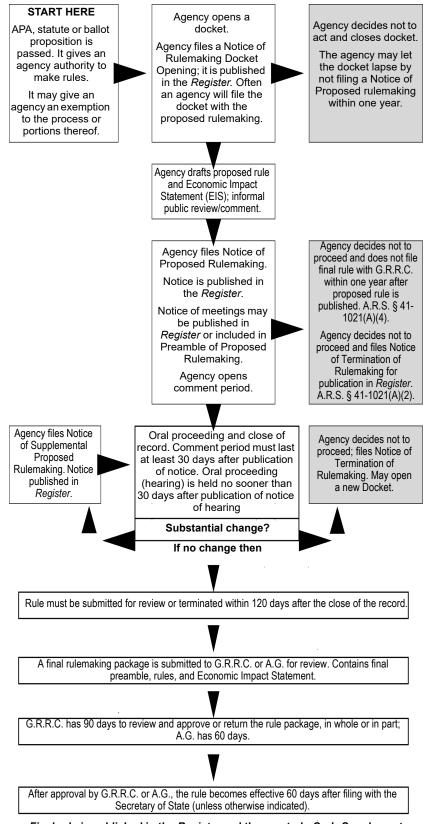
An agency may not have a public meeting scheduled on the Notice of Proposed Rulemaking. If not, you may request that the agency schedule a proceeding. This request must be put in writing within 30 days after the published Notice of Proposed Rulemaking.

Write the agency

Put your comments in writing to the agency. In order for the agency to consider your comments, the agency must receive them by the close of record. The comment must be received within the 30-day comment timeframe following the *Register* publication of the Notice of Proposed Rulemaking.

You can also submit to the Governor's Regulatory Review Council written comments that are relevant to the Council's power to review a given rule (A.R.S. § 41-1052). The Council reviews the rule at the end of the rulemaking process and before the rules are filed with the Secretary of State.





Final rule is published in the Register and the quarterly Code Supplement.

Definitions

Arizona Administrative Code (A.A.C.): Official rules codified and published by the Secretary of State's Office. Available online at www.azsos.gov.

Arizona Administrative Register (A.A.R.): The official publication that includes filed documents pertaining to Arizona rulemaking. Available online at www.azsos.gov.

Administrative Procedure Act (APA): A.R.S. Title 41, Chapter 6, Articles 1 through 10. Available online at www.azleg.gov.

Arizona Revised Statutes (A.R.S.): The statutes are made by the Arizona State Legislature during a legislative session. They are complied by Legislative Council, with the official publication codified by Thomson West. Citations to statutes include Titles which represent broad subject areas. The Title number is followed by the Section number. For example, A.R.S. § 41-1001 is the definitions Section of Title 41 of the Arizona Administrative Procedures Act. The "§" symbol simply means "section." Available online at www.azleg.gov.

Chapter: A division in the codification of the *Code* designating a state agency or, for a large agency, a major program.

Close of Record: The close of the public record for a proposed rulemaking is the date an agency chooses as the last date it will accept public comments, either written or oral.

Code of Federal Regulations (CFR): The *Code of Federal Regulations* is a codification of the general and permanent rules published in the *Federal Register* by the executive departments and agencies of the federal government.

Docket: A public file for each rulemaking containing materials related to the proceedings of that rulemaking. The docket file is established and maintained by an agency from the time it begins to consider making a rule until the rulemaking is finished. The agency provides public notice of the docket by filing a Notice of Rulemaking Docket Opening with the Office for publication in the *Register*.

Economic, Small Business, and Consumer Impact Statement (EIS): The EIS identifies the impact of the rule on private and public employment, on small businesses, and on consumers. It includes an analysis of the probable costs and benefits of the rule. An agency includes a brief summary of the EIS in its preamble. The EIS is not published in the *Register* but is available from the agency promulgating the rule. The EIS is also filed with the rulemaking package.

Governor's Regulatory Review (G.R.R.C.): Reviews and approves rules to ensure that they are necessary and to avoid unnecessary duplication and adverse impact on the public. G.R.R.C. also assesses whether the rules are clear, concise, understandable, legal, consistent with legislative intent, and whether the benefits of a rule outweigh the cost.

Incorporated by Reference: An agency may incorporate by reference standards or other publications. These standards are available from the state agency with references on where to order the standard or review it online.

Federal Register (FR): The *Federal Register* is a legal newspaper published every business day by the National Archives and Records Administration (NARA). It contains federal agency regulations; proposed rules and notices; and executive orders, proclamations, and other presidential documents.

Session Laws or "Laws": When an agency references a law that has not yet been codified into the Arizona Revised Statutes, use the word "Laws" is followed by the year the law was passed by the Legislature, followed by the Chapter number using the abbreviation "Ch.", and the specific Section number using the Section symbol (§). For example, Laws 1995, Ch. 6, § 2. Session laws are available at www.azleg.gov.

United States Code (U.S.C.): The Code is a consolidation and codification by subject matter of the general and permanent laws of the United States. The Code does not include regulations issued by executive branch agencies, decisions of the federal courts, treaties, or laws enacted by state or local governments.

Acronyms

A.A.C. – Arizona Administrative Code

A.A.R. – Arizona Administrative Register

APA - Administrative Procedure Act

A.R.S. - Arizona Revised Statutes

CFR - Code of Federal Regulations

EIS – Economic, Small Business, and Consumer Impact Statement

FR - Federal Register

G.R.R.C. – Governor's Regulatory Review Council

U.S.C. - United States Code

About Preambles

The Preamble is the part of a rulemaking package that contains information about the rulemaking and provides agency justification and regulatory intent.

It includes reference to the specific statutes authorizing the agency to make the rule, an explanation of the rule, reasons for proposing the rule, and the preliminary Economic Impact Statement.

The information in the Preamble differs between rulemaking notices used and the stage of the rulemaking.

NOTICES OF PROPOSED RULEMAKING

This section of the *Arizona Administrative Register* contains Notices of Proposed Rulemaking.

A proposed rulemaking is filed by an agency upon completion and submittal of a Notice of Rulemaking Docket Opening. Often these two documents are filed at the same time and published in the same *Register* issue.

When an agency files a Notice of Proposed Rulemaking under the Administrative Procedure Act (APA), the notice is published in the *Register* within three weeks of filing. See the publication schedule in the back of each issue of the *Register* for more information. Under the APA, an agency must allow at least 30 days to elapse after the publication of the Notice of Proposed Rulemaking in the *Register* before beginning any proceedings for making, amending, or repealing any rule (A.R.S. §§ 41-1013 and 41-1022).

The Office of the Secretary of State is the filing office and publisher of these rules. Questions about the interpretation of the proposed rules should be addressed to the agency that promulgated the rules. Refer to item #4 below to contact the person charged with the rulemaking and item #10 for the close of record and information related to public hearings and oral comments.

NOTICE OF PROPOSED RULEMAKING

TITLE 20. COMMERCE, FINANCIAL INSTITUTIONS, AND INSURANCE CHAPTER 4. DEPARTMENT OF INSURANCE AND FINANCIAL INSTITUTIONS FINANCIAL INSTITUTIONS

[R23-01]

PREAMBLE

Article, Part, or Section Affected (as applicable)	Rulemaking Action
R20-4-201	Amend
R20-4-202	Amend
R20-4-206	Amend
R20-4-207	Amend
R20-4-209	Amend
R20-4-211	Amend
R20-4-214	Amend
R20-4-215	Amend
	R20-4-201 R20-4-202 R20-4-206 R20-4-207 R20-4-209 R20-4-211 R20-4-214

2. <u>Citations to the agency's statutory rulemaking authority to include the authorizing statute (general) and the implementing statute (specific):</u>

Authorizing statute: A.R.S. § 6-123(2) Implementing statute: A.R.S. § 6-181(9)

3. Citations to all related notices published in the *Register* as specified in R1-1-409(A) that pertain to the record of the proposed rule:

Notice of Rulemaking Docket Opening: 29 A.A.R. 423, January 27, 2023 (in this issue)

4. The agency's contact person who can answer questions about the rulemaking:

Name:	Mary E. Kosinski
Address:	Department of Insurance and Financial Institutions 100 N. 15th Ave., Suite 261 Phoenix, AZ 85007-2630
Telephone:	(602) 364-3476
Email:	mary.kosinski@difi.az.gov
Website:	https://difi.az.gov

5. An agency's justification and reason why a rule should be made, amended, repealed or renumbered, to include an explanation about the rulemaking:

The Arizona Department of Insurance and Financial Institutions – Financial Institutions Division ("Department") is proposing changes to A.A.C. Title 20, Chapter 4, Article 2 – Bank Organization and Regulation. The changes the Department is proposing will reflect the structural change to the former Department of Financial Institutions which merged with the Department of Insurance to form the Department of Insurance and Financial Institutions (the "new agency"), on July 1, 2020. The former Department of Financial Institutions became a division of the new agency.

As a result of the merger, the new agency made statutory changes to eliminate the position of Superintendent. Instead, the Director of the new agency assumed those duties. This structural change necessitated replacing references to "Superintendent" with "Director" throughout the Article.

When reviewing the rules in the Article, the Department also endeavored to modernize the current rules since the most recent

rulemaking for this Article was in 2001. The Department is removing the requirement for a stamped copy from the Arizona Corporation Commission for each amendment to the licensee's Articles of Incorporation, and is updating the chart for basic blanket bond coverage and the amount of an excess fidelity bond. In addition, the Department is allowing electronic recordkeeping and moving lists into tables for readability.

- 6. A reference to any study relevant to the rule that the agency reviewed and proposes either to rely on or not to rely on in its evaluation of or justification for the rule, where the public may obtain or review each study, all data underlying each study, and any analysis of each study and other supporting material: The Department did not review and does not propose to rely on any study relevant to this rulemaking.
- 7. A showing of good cause why the rulemaking is necessary to promote a statewide interest if the rulemaking will diminish a previous grant of authority of a political subdivision of this state: The rulemaking does not diminish a previous grant of authority granted to the Department.
- 8. The preliminary summary of the economic, small business, and consumer impact:

Pursuant to A.R.S. § 41-1055(A):

- The rulemaking is not designed to change any conduct. Instead, it is necessary to reflect the new structure of the Department and to modernize and clarify some of the Sections.
- Because this rulemaking is not made in response to a perceived problem caused by the conduct of licensees, it is not intended to reduce the frequency of any potentially violative conduct.
- The compliance costs incurred by corporations holding a banking permit in Arizona are not expected to impact revenues or payroll expenditures.
- The person listed in Item 9 may be contacted to submit or request additional data on the information included in the economic, small business and consumer impact statement.

9. The agency's contact person who can answer questions about the economic, small business and consumer impact statement:

Name: Mary E. Kosinski

Address: Department of Insurance and Financial Institutions 100 N. 15th Ave., Suite 261 Phoenix, AZ 85007-2630

Telephone: (602) 364-3476

Email: <u>mary.kosinski@difi.az.gov</u>

10. The time, place, and nature of the proceedings to make, amend, repeal, or renumber the rule, or if no proceeding is scheduled, where, when, and how persons may request an oral proceeding on the proposed rule:

No proceeding is currently scheduled. Persons who wish to request an oral proceeding on this rulemaking should make a written request to the person listed in item 4. Requests must be received within 30 days of the publication of this Notice of Proposed Rulemaking. A.R.S. § 41-1023(C). If requested, the oral proceeding will be conducted at least 30 days after the receipt of any such request.

In lieu of an oral proceeding, interested parties may submit public comments to: <u>public comments@difi.az.gov</u>. Please use "DFI Article 2 – Bank Organization and Regulation" in the subject line of the email. Persons submitting public comments should be aware that any comments submitted are "public" and may be published by the Department.

If no one requests an oral proceeding, the public comment period will close 30 days after the publication date of this Notice of Proposed Rulemaking. If anyone requests an oral proceeding, the public comment period will close at 11:59 p.m. on the date of the oral proceeding.

11. All agencies shall list other matters prescribed by statute applicable to the specific agency or to any specific rule or class of rules. Additionally, an agency subject to Council review under A.R.S. §§ 41-1052 and 41-1055 shall respond to the following questions:

No other matters prescribed by statute are applicable to the Department or to any specific rule or class of rules.

a. Whether the rule requires a permit, whether a general permit is used and if not, the reasons why a general permit is not used:

Pursuant to A.R.S. § 6-201(A), no person can engage in banking business in Arizona without a banking permit issued by the Department. A general permit is not applicable to banking business.

b. Whether a federal law is applicable to the subject of the rule, whether the rule is more stringent than federal law and if so, citation to the statutory authority to exceed the requirements of federal law:

Section R20-4-214 – Preservation of Records, yields to a preemptive federal law or regulation even if the federal law requires a shorter or longer retention period than required by the Arizona rule. (*See*, subsection (B).)

Subsection (C) lists the following applicable federal laws:

- Bank Secrecy Act
- Federal Deposit Insurance Corporation
- Federal Housing Administration
- Federal Home Loan Mortgage Corporation
- Federal National Mortgage Association
- Government National Mortgage Association
- U.S. Department of Treasury Internal Revenue Service

Section R20-4-214 is not more stringent than the federal laws listed.

c. Whether a person submitted an analysis to the agency that compares the rule's impact of the competitiveness of business in this state to the impact on business in other states:

No formal analysis has been submitted to the Department that compares the rule's impact on the competitiveness of business in this state to the impact of business in other states.

12. <u>A list of any incorporated by reference material as specified in A.R.S. § 41-1028 and its location in the rules:</u> The rule does not incorporate any reference material into the rule as specified at A.R.S. § 41-1028.

13. The full text of the rules follows:

TITLE 20. COMMERCE, FINANCIAL INSTITUTIONS, AND INSURANCE

CHAPTER 4. DEPARTMENT OF INSURANCE AND FINANCIAL INSTITUTIONS FINANCIAL INSTITUTIONS

ARTICLE 2. BANK ORGANIZATION AND REGULATION

Section

- R20-4-201. Articles of Incorporation
- R20-4-202. Bylaws
- R20-4-206. Bankers Blanket Bond Coverage A.R.S. § 6-188
- R20-4-207. Capital Obligations
- R20-4-209. Notice of Permanent Closing of Banking Office
- R20-4-211. Application for a Banking Permit
- R20-4-214. Preservation of Records
- R20-4-215. Trust Business

ARTICLE 2. BANK ORGANIZATION AND REGULATION

R20-4-201. Articles of Incorporation

A licensee shall deliver to the Superintendent Director a copy of each amendment to the licensee's articles of incorporation within 30 days after the amendment is filed with the Arizona Corporation Commission. Before delivery to the Superintendent, Director, an officer of the licensee shall-

- 1. Certify certify the copy delivered in compliance with this Section, in writing, signed by the certifying officer, attesting to the completeness, accuracy, and authenticity of the certified copy; and
- 2. Ensure the copy bears a stamp affixed by the Arizona Corporation Commission to evidence filing with the Commission.

R20-4-202. Bylaws

A licensee shall deliver to the <u>Superintendent Director</u> a copy of each amendment to the licensee's bylaws within 30 days after the amendment is adopted. An officer of the licensee shall certify the copy delivered in compliance with this Section, in writing, attesting to the completeness, accuracy, and authenticity of the certified copy.

R20-4-206. Bankers Blanket Bond Coverage -- A.R.S. § 6-188

A. Each bank shall carry at least the following basic blanket bond coverage:

Banks with Deposits of			Amounts:
Less than \$750,000 \$25	,000,000		\$25,000 <u>\$300,000</u>
\$ 750,000	to	1,500,000	50,000
1,500,000	to	2,000,000	75,000
2,000,000	to	3,000,000	90,000
3,000,000	to	5,000,000	120,000
5,000,000	to	7,500,000	150,000
7,500,000	to	10,000,000	175,000
10,000,000	to	15,000,000	200,000
15,000,000	to	20,000,000	250,000
20,000,000	to	25,000,000	300,000
25,000,000	to	35,000,000	350,000
35,000,000	to	50,000,000	450,000
50,000,000	to	75,000,000	550,000
75,000,000	to	100,000,000	700,000
100,000,000	to	150,000,000	850,000
150,000,000	to	250,000,000	1,200,000
250,000,000	to	500,000,000	1,700,000
500,000,000	to	1,000,000,000	2,500,000
1,000,000,000	to	2,000,000,000	4,000,000
Over 2,000,000,000	•		6,000,000

2,000,000,000	<u>to</u>	5,000,000,000	<u>6,000,000</u>
5,000,000,000	<u>to</u>	20,000,000,000	<u>9,000,000</u>
Over 20,000,000,000			10,000,000

B. Each bank shall supplement the bankers blanket bond coverage with at least a $\frac{1,000,000}{2,000,000}$ excess fidelity bond. Effective 8-8-73.

R20-4-207. Capital Obligations

- A. An applicant for a <u>Superintendent's Director's</u> order of approval to issue a capital obligation shall submit the following documents to the <u>Superintendent</u>, <u>Director</u> and shall not issue any capital obligation before the <u>Superintendent</u> <u>Director</u> issues the order of approval. The required documents are:
 - 1. A certified copy of the resolution adopted by the Board of Directors, or a certified copy of the unanimous written consent of the Board of Directors, authorizing the sale of the capital obligation;
 - 2. A copy of the agreement underlying the capital obligation;
 - 3. A copy of the note or debenture intended to represent the capital obligation; and
 - 4. A copy of the prospectus, if any, proposed for use in the sale of the capital obligation.
- **B.** Each document evidencing a capital obligation shall:
 - 1. Bear on its face, in bold face type, the following: This obligation is not a deposit and is not insured by the Federal Deposit Insurance Corporation.
 - 2. Have a maturity provision that either:
 - a. Gives the obligation a maturity of at least five years, or
 - b. In the case of an obligation or issue that provides for scheduled repayments of principal, gives an average maturity of at least five years. The restriction on maturity stated in this subsection does not apply to any obligation that otherwise meets all the requirements of this rule if the <u>Superintendent Director</u> determines that exigent circumstances require the issuance of the obligation without regard to any restriction on maturity. The provisions of this subsection do not apply to mandatory convertible debt obligations or issues.
 - 3. State expressly on its face that the obligation:
 - a. Is subordinated and junior in right of payment to the issuing bank's obligations to its depositors and to the bank's other obligations to its general and secured creditors, and
 - b. Is ineligible as collateral for a loan by the issuing bank, except as provided in A.R.S. § 6-354.
 - 4. Be unsecured.
 - 5. State expressly on its face that the issuing bank may not retire any part of its capital obligation without the Superintendent's Director's prior written order of approval, and the prior written consent of the Federal Deposit Insurance Corporation.
 - 6. Include, if the obligation is issued to a depository institution, a specific waiver of the right of offset by the lending depository institution.
 - 7. State that, in the event of liquidation, all depositors and other creditors of the bank are to be paid in full before any payment of principal or interest is made on a capital obligation.
- C. No payment shall be made under an optional right of payment reserved to the bank without the separate authorization of the Superintendent. Director. The Superintendent Director may grant that authority in the initial order of approval or in a later order of approval.

R20-4-209. Notice of Permanent Closing of Banking Office

A bank may close fewer than all of its banking offices. Before closing any office, a bank shall deliver a letter to the <u>Superintendent Director</u> specifying the banking office it plans to close and the closing date. The bank shall ensure that the <u>Superintendent Director</u> receives the letter at least 10 days before the closing date. Closing the banking office shall terminate the bank's authority to maintain that banking office on the date of the actual closure.

R20-4-211. Application for a Banking Permit

- **A.** Before an application is filed, the representatives of the potential applicant shall meet with the <u>Superintendent of Banks</u> <u>Director</u> to discuss capitalization, location, and management of the proposed bank.
- **B.** After the meeting required by subsection (A), persons who wish to proceed with the application process shall submit an application in the form the <u>Superintendent Director</u> prescribes. The applicant shall support the application with sufficient information to enable the <u>Superintendent Director</u> to make a determination.

R20-4-214. Preservation of Records

- A. Every bank shall keep its corporate and business records as originals or as copies of the originals made by reproduction methods that accurately and permanently preserve the records. Copies complying with this subsection, when satisfactorily identified, have the same evidentiary status as an original. A bank may use an electronic recordkeeping system. The Department shall not require a bank to keep a written copy of keep its records as electronic records if the bank can generate all information and copies required by this Section in a timely manner within the timeframe set by the Department for examination or other purposes.
- **B.** A bank shall keep its corporate and business records for the period required by this Section. These periods are measured from the date of the last entry or final action date. A bank shall have and comply with its own record retention schedule that is consistent with this Section. A bank may comply with this Section by complying with a preemptive federal regulation, even if the federal regulation requires a shorter retention period than is listed in this Section. This Section does not prohibit record retention for longer periods than these state-required minimums for any reason, including a retention period established by preemptive federal law or regulation. Likewise, this Section does not prohibit a bank from keeping any type of record not required in subsection (D).
- C. Beginning on the effective date of this Section, corporate and business records of a bank operating in the state of Arizona are classified, and their retention periods are prescribed, according to the schedule in subsection (D). Retention periods are listed in subsection (D) using the notations, acronyms, and abbreviations listed in this Section. subsection (C).

- 1. A numerical designation refers to a period of years unless a shorter period of time is specified in the schedule.
- 2. "AC" means after closure.
- "ACH" means automated clearing house. 3.
- 4.
- "AE" means after expiration. "ALC" means after last contact. 5.
- "AP" means after paid. 6.
- "ATD" means after termination date. 7.
- 8. "CTR" means a cash transaction report required by the Federal Bank Secrecy Act.
- "FDIC" means the Federal Deposit Insurance Corporation. 9.
- 10. "FHA" means the Federal Housing Administration.
- 11. "FHLMC" means the Federal Home Loan Mortgage Corporation.
- 12. "FNMA" means the Federal National Mortgage Association.
- "GNMA" means the Government National Mortgage Association. 13.
- 14. "IRS" means the United States Department of the Treasury's Internal Revenue Service.
- 15. "M" means months.
- 16. "P" means the bank shall keep the record permanently.
- 17. "PMI" means private mortgage insurance.
- 18. "SAR" means a suspicious activity report required by the federal Federal Bank Secrecy Act.
- 19. "TTL" means a treasury, tax, and loan account maintained by a bank.
- 20. "UCC" means the Uniform Commercial Code as it is in effect in Arizona.
- D. Retention Schedule
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r.	Service contract	2
s.	Treasury tax and loan account	2
t.	Unclaimed property record	5

- 2. Administration
 - Articles of incorporation or association, a. other record of organization ₽

7

b.	Bankers blanket bond-record showing complia	ince5
	AE	
e.	Bank examiner's report	7
d.	Capital note issuance and transfer record-	P
e.	Depreciation record-office equipment-	3
f.	Dividend check and register	7
g.	Dividend check-outstanding-	P
h.	Expired policy insuring the bank	3 AE
i.	FDIC assessment base, record	5
j .	FDIC certificate	P
k.	Insurance policy number, record of premium p	aid
	and amount recovered	3 AE
1.	Legal proceedings when completed	5
m.	Minute book of:	
	i. Meetings of the board of directors	P
	ii. Meetings of committees of the board of d	irectorsP
	iii. Shareholders' meetings	P
n.	Postage meter record book (from date of final	entry)
		+
0.	Real estate documentation 5	ATD
p.	Report to directors-	3
q.	Stock issuance and transfer record -	P
r.	Required report to supervisory agency	3
s.	Tax controversy or proceeding when complete	d 7
ŧ.	Tax record not material to any controversy	7
u.	Voting list and proxies	3

<u>a.</u>	Articles of incorporation or association, bylaws or	
	other record of organization	<u>P</u>
<u>b.</u>	Bankers blanket bond-record showing compliance	5AE
c.	Bank examiner's report	7
d.	Capital note issuance and transfer record	Р
e.	Depreciation record – office equipment	3
f.	Dividend check and register	7
<u>g.</u>	Dividend check – outstanding	P
ĥ.	Expired policy insuring the bank	<u>3 AE</u>
1.	FDIC assessment base, record	5
1.	FDIC certificate	<u>P</u>
k.	Insurance policy number, record of premium paid and amount recovered	<u>3 AE</u>
I	Legal proceedings when completed	5
<u>m.</u>	Minute book of:	
	i. Meetings of the board of directors	<u>P</u>
	ii. Meeting of committees of the board of directors	<u>P</u>
	<u>iii.</u> Shareholders' meetings	<u>P</u>
<u>n.</u>	Postage meter record book (from date of final entry)	1
<u>0.</u>	Real estate documentation	5 ATD
<u>p.</u>	Report to directors	<u>3</u>
<u>q.</u>	Stock issuance and transfer record	<u>P</u>
<u>r.</u>	Required report to supervisory agency	3
s.	Tax controversy or proceeding when completed	7
<u>t.</u>	Tax record not material to any controversy	7
<u>u.</u>	Voting list and proxies	3
	•	

3. Collections

a.	Collection payment record	+
b.	Collection receipt-carbon	+
e.	Collection register	1
d.	Coupon cash letter-outgoing	1
e.	Coupon envelope	+
f.	Customer file copy	+
g.	Incoming collection letter	+
h.	Incoming contract or note letter	+
	-	

<u>a.</u>	Collection payment record	1
<u>b.</u>	Collection receipt – carbon	1
<u>c.</u>	Collection register	1
<u>d.</u>	Coupon cash letter – outgoing	1

e.	Coupon envelope	1
<u>f.</u>	Customer file copy	1
g.	Incoming collection letter	1
h.	Incoming contract or note letter	1

Customer service 4.

Cub		
a.	Broker account holder-identification	5
b.	Broker's confirmation	3
e.	Broker's invoice	3
d.	Broker's statement	3
e.	E-Bond application	2
f.	E-Bond sold or redeemed-record	2
g.	E-Bond transmittal letter	2
h.	Lock box daily receipts	+
i.	Night depository agreement	1 AC
j.	Night depository daily record	+
k.	Safekeeping record and receipt	5
1.	Securities buy order and sell order	3

<u>a.</u>	Broker account holder – identification	5
<u>b.</u>	Broker's confirmation	3
<u>c.</u>	Broker's invoice	3
<u>d.</u>	Broker's statement	3
<u>e.</u>	E-Bond application	2
<u>f.</u>	<u>E-Bond sold or redeemed – record</u>	2
<u>g.</u>	E-Bond transmittal letter	2
<u>h.</u>	Lock box daily receipts	1
<u>1.</u>	Night depository agreement	<u>1 AC</u>
<u>j.</u>	Night depository daily record	1
<u>k.</u>	Safekeeping record and receipt	<u>5</u>
<u>l.</u>	Securities buy order and sell order	<u>3</u>

5. Data processing (management information systems)

a.	Back-up data (for reconstruction) daily, end of	
	month, quarter, or year	1
b.	Disaster recovery program	P

- Film copy of every IRS financial reporting form 6 e. P
- Program change d.
- System, program and procedure manual e.

<u>a.</u>	Back-up data (for reconstruction) daily, end of month, quarter, or year	1
<u>b.</u>	Disaster recovery program	<u>P</u>
<u>c.</u>	Film copy of every IRS financial reporting form	6
<u>d.</u>	Program change	<u>P</u>
<u>e.</u>	System, program and procedure manual	<u>P</u>

P

Deposits 6.

Dep	00100	
a.	Account opened and account closed report	1
b.	Certificate of deposit purchase record	7
e.	Check paid, withdrawal slip, and other debits to)-
	account	7
d.	Club account check register	+
e.	Club account coupon	1
f.	SAR - for suspicious transaction under \$10,000	5
g.	CTR - for transaction exceeding \$10,000	5
h.	Customer authorization, resolution, and signatu	re-
	eard	AC
i.	Deposit account record needed to reconstruct	7
j.	Deposit and other credits	7
k.	Dormant account after closed or escheated 7.	\LC
1.	Form 1096, and 1099 reports to IRS	7
m.	Individual retirement account record	7
n.	Interest check or other record of interest payme	nt
	and reports	7
0.	Internal management reports:	
	i. Large balance	1
	ii. Overdraft	+

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X. y.

		D 11' C 1		1
		Public funds		÷
	iv.	Service charges		+
	₩.	Stop payment		+
	vi.	Uncollected funds		1
	vii.	Unposted item		1
	viii.	Zero balance		+
p.	Ledg	ger card	5 A	C
q.	Pow	er of attorney document	7 A 1	D
r.	Rece	eipt for statement held at customer's requ	est	1
s.	Reco	ord showing compliance with the following	ng-	
	fede	ral regulations. The stated retention perio	d ap	plies
	unle	ss, and until, it is preempted by federal la	w:	
	i.	Regulation CC, Expedited Funds Availal	bility	y
		Act		2
	ii.	Regulation DD, Truth in Savings Act		2
	iii.	Regulation E, Electronic Funds Transfer	Act	2
Retu	ırned	statement and cancelled checks		6
State	emen	ŧ		6
Stop	- payı	nent order	6 A	E
Doc	umen	t used to request and receive Tax-		
		tion Number		6
Tran	sacti	on journal		6
	l bala			6

	A account among and account aloged	
<u>a.</u> b.	Account opened and account closed	1
	<u>Certificate of deposit purchase record</u> Check paid, withdrawal slip, and other debits to account	7
<u>c.</u> d.		/
<u>a.</u>	Club account check register	<u>+</u>
<u>e.</u>	Club account coupon	1
<u>I.</u>	SAR – for suspicious transaction under \$10,000	<u>2</u>
<u>g.</u>	CTR – for transaction exceeding \$10,000	2
<u>h.</u>	Customer authorization, resolution, and signature card	<u>6 AC</u>
<u>1.</u>	Deposit account record needed to reconstruct	7
<u> .</u>	Deposit and other credits	7
<u>k.</u>	Dormant account – after closed or escheated	AT 0
		ALC
<u>I.</u>	Form 1096 and 1099 reports to IRS	1
<u>m.</u>	Individual retirement account record	1
<u>n.</u>	Interest check or other record of interest payment and reports	<u>/</u>
<u>o.</u>	Internal management reports:	
	<u>i.</u> Large balance	<u>1</u>
	<u>ii.</u> Overdraft	<u>1</u>
	iii. Public funds	1
	iv. Service charges	<u>1</u>
	v. Stop payment	<u>1</u>
	vi. Uncollected funds	1
	vii. Unposted item	1
	viii. Zero balance	1
p.	Ledger card	<u>5 AC</u>
q.	Power of attorney document	7 ATD
<u>r.</u>	Receipt for statement held at customer's request	1
<u>s.</u>	Record showing compliance with the following federal regulations. The state	
	retention period applies unless, and until, it is preempted by federal law:	
	i. Regulation CC, Expedited Funds Availability Act	2
	ii. Regulation DD, Truth in Savings Act	<u>2</u>
	iii. Regulation E, Electronic Funds Transfer Act	2
<u>t.</u>	Returned statement and cancelled checks	<u>6</u>
<u>u.</u>	Statement	6
v.	Stop payment order	<u>6 AE</u>
W.	Document used to request and receive Tax Identification Number	6
х.	Transaction journal	6
у.	Trial balance	6

7. Due from banks

- a. Advice from correspondent bank1
- Bank statement b.
- e. Draft-original

- 1 AP d. Draft register or copy
- Duplicate check-information and documentatione. 7
- pertaining to issuance
- f. Reconcilement register

<u>a.</u>	Advice from correspondent bank	1
<u>b.</u>	Bank statement	1
<u>c.</u>	<u>Draft – original</u>	7
<u>d.</u>	Draft register or copy	<u>1 AP</u>
<u>e.</u>	Duplicate check – information and documentation pertaining to issuance	7
<u>f.</u>	Reconcilement register	1

1

1

+

4

1

2

1

7

5

1

1

+

5

1

2

4

7

8. Due to banks

- Account opened and account closed-reports a.
- b. Advice-copy
- Incoming cash letter memo for credit e.
- d. Incoming cash letter for remittance
- Reconcilement register (TTL) e.
- f. Reconcilement verification
- Resolution 2 ACg. 6 AC
- Signature card h.
- Trial balance (fiche) i. Undelivered statement, reconstruction available j.
- from bank records 4
- k. Undelivered statement, reconstruction not possible7

<u>a.</u>	Account opened and account closed – reports	<u>1</u>
<u>b.</u>	Advice – copy	1
<u>c.</u>	Incoming cash letter memo for credit	1
<u>d.</u>	Incoming cash letter for remittance	1
<u>e.</u>	Reconcilement register (TTL)	2
<u>f.</u>	Reconcilement verification	1
<u>g.</u>	Resolution	<u>2 AC</u>
<u>h.</u>	Signature card	<u>6 AC</u>
1.	Trial balance (fiche)	7
<u>j.</u>	Undelivered statement, reconstruction available from bank records	1
<u>k.</u>	Undelivered statement, reconstruction not possible	7

9. General

- Address change order 1 a. Affidavit from customer including affidavit of loss, b. forgery, or non-use of cashier's check 4 5 e.
- Writ of attachment or garnishment
- d. Attachment, release
- e. Armored car receipt
- f. Check book order
- Cheek book-receipt g. ĥ. Court order memorandum record
- i. Notice of Protest
- Travelers check-application j.
- k. Vault record-opening and closing
- l. Wire transfer debit entry and credit entry

<u>a.</u>	Address change order	1
<u>b.</u>	Affidavit from customer including affidavit of loss, forgery, or non-use of	1
	<u>cashier's check</u>	
<u>c.</u>	Writ of attachment or garnishment	<u>5</u>
<u>d.</u>	Attachment, release	<u>5</u>
<u>e.</u>	Armored car receipt	1
<u>f.</u>	Check book order	1
<u>g.</u>	<u>Check book – receipt</u>	1
<u>h.</u>	Court order memorandum record	5
1.	Notice of Protest	1
1.	Vault record – opening and closing	1
<u>k.</u>	Wire transfer debit entry and credit entry	7

10. General ledger

Daily statement of condition	3
General journal-if byproduct of posting the gener	ral-
ledger	3
General journal-if used as book of original entry	•
	General journal-if byproduct of posting the gener ledger

- 3 5 2 with description General ledger d.
- General ledger ticket-debit and credit e.

<u>a.</u>	Daily statement of condition	3
<u>b.</u>	General journal – if byproduct of posting the general ledger	3
<u>c.</u>	General journal – if used as book of original entry with description	3
d.	General ledger	5
<u>e.</u>	General ledger ticket – debit and credit	2

11. International department

a.	Broker account holder-identification	5
b.	Cable copy	7
e.	Cable requisition	7
d.	Collection paid	1
e.	Correspondence	2
f.	Draft	7
g.	Foreign collection register	6
h.	Foreign draft application	6
i.	Foreign draft-carbon	2 ATD
j.	Foreign exchange remittance sheet or book	6
k.	Foreign financial account-record	7
l.	Foreign mail transfer application	6
m.	Foreign mail transfer-carbon	2 ATD
n.	Foreign outstanding cash	2
0.	Foreign payment-incoming	2
p.	Letter of credit application	2
q.	Letter of credit ledger sheet	7
r.	Transfer outside of the United States in exce	ess of
	\$10,000 – record	5

a.	Broker account holder – identification	5
b.	Cable copy	7
с.	Cable requisition	7
<u>d.</u>	Collection paid	1
<u>e.</u>	Correspondence	2
<u>f.</u>	Draft	7
<u>g.</u>	Foreign collection register	<u>6</u>
<u>h.</u>	Foreign draft application	<u>6</u>
<u>1.</u>	<u>Foreign draft – carbon</u>	<u>2 ATD</u>
<u>j.</u>	Foreign exchange remittance sheet or book	<u>6</u>
<u>k.</u>	Foreign financial account – record	7
<u>I.</u>	Foreign mail transfer application	<u>6</u>
<u>m.</u>	Foreign mail transfer – carbon	<u>2 ATD</u>
<u>n.</u>	Foreign outstanding cash	2
<u>0.</u>	Foreign payment – incoming	2
<u>p.</u>	Letter of credit application	2
<u>q.</u>	Letter of credit ledger sheet	7
r.	Transfer outside of the United States in excess of \$10,000 – record	5

12. Investments

Bonds a.

ч.	Donab		
	i. Ame	ortization record	6
	ii. Con	firmation	3
	iii. Safe	keeping receipt	2
b.	Broker's	securities	
	i. Brol	ter's invoice	3
	ii. Brol	cer's statement	3
	iii. Rep	ort of lost or stolen securities	3
	iv. Safe	keeping advice	2
	v. Taxp	bayer identification number	5
e.	Commerc	vial paper	

d.

Broker's advice	2
Purchase order	2
Remittance advice	2
tgage-backed securities	
Buy-and-sell agreement	3
Commitment letter	7
FHLMC and FNMA loan file	7
GNMA certificate	7
Interest accrual record	7
Monthly remittance report	7
	Purchase order Remittance advice tgage backed securities Buy and sell agreement Commitment letter FHLMC and FNMA loan file GNMA certificate Interest accrual record

<u>a.</u>	Bonds		
	<u>i.</u> A	mortization record	6
	<u>ii.</u> C	Confirmation	3
	<u>111.</u> S	afekeeping receipt	2
<u>b.</u>	Broker's s	securities	
		roker's invoice	3
		roker's statement	3
		eport of lost or stolen securities	3
		afekeeping advice	_2
		axpayer identification number	<u>5</u>
<u>c.</u>	Commerc		
		roker's advice	2
		urchase order	2
		emittance advice	2
<u>d.</u>		-backed securities	
		uy-and-sell agreement	<u>3</u>
		Commitment letter	7
		HLMC and FNMA loan file	7
		NMA certificate	7
		nterest accrual record	7
	<u>vi.</u> M	Ionthly remittance report	7

13. Loans. A bank shall keep each loan record listed for the period required by this subsection. These periods are measured from the date of final activity. A bank shall have and comply with its own record retention schedule that is consistent with this subsection. A bank may comply with this subsection by complying with a preemptive federal regulation, even if the federal regulation requires a shorter retention period than is listed in this subsection. This subsection does not prohibit record retention for longer periods than these state-required minimums for any reason, including a retention period established by preemptive federal law or regulation. Likewise, this Section does not prohibit a bank from keeping any type of record not required by this subsection.

a.	All I	Loans - general			
	i.	Application for loan approved	6		
	ii.	Appraisal	6		
	iii.	Borrower's financial statement	6		
	iv.	Charge-off record	10		
	v.	Charged off note	10		
	vi.	Collateral file	6		
	vii.	Correspondence	6		
		Credit file all documentation	6		
	ix.	Credit report	6		
	X.	Daily proof and record	6		
	xi.	Loan committee minutes	P		
	xii.	Miseellaneous loan reports including new	/ loan		
		journal, paid loan journal, past due report	, and		
		transaction journal as original entry	6		
	xiii.	Other documentation for reconstruction			
		of loan	2		
b.	Commercial loans				
	i.	Application for loan denied	12 M		
	ii.	Bill of sale	6		
	iii.	Borrowing resolution	3		
	iv.	Business annual report (fiscal or year end) _		
		after date of report	3		
	V.	Business cash-flow analysis report - after	date		
		of report	3		
	vi.	Business tax return - after date of return	6		
	vii.	Commitment letter	6		
	viii.	Copy of mortgage note or deed of trust	6		

	ix.	Evidence of insurance	6
	X.	Guaranty	6
		Letter of credit	6
		Participation agreement	6
		Promissory note	6
		Purchase and sale agreement	6
			0 6
		Security agreement	
		Title documentation	6
		. UCC filing	6
e.		nsumer loans	
	l.	Application for loan denied, including	
		action notice	25 M
	ii.	Collateral record	6
	iii.	Hazard insurance record	6
	iv.	Invoice	6
	v.	Life and disability insurance record	6
	vi.	Overdraft loan agreement	6
	vii.	-	ement
	•	copy	6
	wiii	Title documentation	6
		UCC filing - copy	6
d.			0
u.		l estate loans	(
	i.	Assignment of escrow	6
	ii.	Assumption	6
	iii.	Commitment letter	6
	iv.	17 88	
		as it may have been modified	6
	₩.	Escrow analysis and record	6
	vi.	Evidence of any FHA or PMI insurance	- -
		required	6
	vii.		of loan
	viii.	Proof of insurance excluding hazard	6
		Sales contract	6
	X.		6
	xi.		6
		Title documentation	6
		istruction loans. In addition to the docum	
e.			
		cified in subsection (d), a bank shall keep	
		ord for a construction loan as specified in	this
		section:	
	i.	Certificate of occupancy	6
	іі.	Construction progress report	6
	iii.	Contractor's cost breakdown	6
	iv.	Disbursement documentation	6
	v.	Inspection report	6
	vi.	Residential construction specifications	and-
		material list	6
			0

<u>a.</u>	All loans	– general	
	<u>i.</u>	Application for loan approval	6
		Appraisal	<u>6</u>
	<u>iii.</u>	Borrower's financial statement	<u>6</u>
	<u>1V.</u>	Charge-off record	<u>10</u>
	<u>V.</u>	Charged off note	<u>10</u>
	<u>V1.</u>	Collateral file	<u>6</u>
	<u>V11.</u>	Correspondence	<u>6</u>
	V111.	Credit file- all documentation	<u>6</u>
	<u>1X.</u>	<u>Credit report</u>	<u>6</u>
	<u>x.</u>	Daily proof and record	<u>6</u>
	<u>X1.</u>	Loan committee minutes	<u>P</u>
	<u>X11.</u>	Miscellaneous loan reports including new loan journal, paid loan jour-	_
		nal, past due report, and transaction journal as original entry	<u>6</u>
		Other documentation for reconstruction of loan	2
<u>b.</u>	Commerc		
	<u>1.</u>	Application for loan denied	<u>12 M</u>
	<u>11.</u>	Bill of sale	<u>6</u>
	<u>111.</u>	Borrowing resolution	3

<u> </u>	1V.	Business annual report (fiscal or year end) – after date of report	3
	V.	Business cash-flow analysis report – after date of report	3
	vi.	Business tax return – after date of return	6
	V11.	Commitment letter	6
	V111.	Copy of mortgage note or deed of trust	6
	1X.	Evidence of insurance	6
	х.	Guaranty	6
	Xi.	Letter of credit	6
	X11.	Participation agreement	6
	X111.	Promissory note	6
	XIV.	Purchase and sale agreement	6
	XV.	Security agreement	6
	XVI.	Title documentation	6
	XVII.	UCC filing	6
c		ner loans	<u>v</u>
<u> </u>	i	Application for loan denied, including adverse action notice	25 M
	<u>1.</u> 11.	Collateral record	2.5 11
<u> </u>	111.	Hazard insurance record	6
	111. 1V.	Invoice	6
		Life and disability insurance record	6
	V.	Overdraft loan agreement	0
	V1.		0
	V11.	Promissory note and modification agreement – copy	0
	V111.	Title documentation	0
a	<u>iX.</u>	UCC filing – copy	0
<u>d.</u>		tate loans	6
	1.	Assignment of escrow	6
	11.	Assumption	6
	<u>111.</u>	Commitment letter	6
	<u>1V.</u>	Copy of deed of trust or mortgage note, as it may have been modified	6
	<u>V.</u>	Escrow analysis record	6
	V1.	Evidence of any FHA or PMI insurance required	0
	<u>V11.</u>	Hazard insurance	life
			1.01
		Dur of of increases and to do a borrow	loan
	V111.	Proof of insurance excluding hazard	0
	1 <u>X.</u>	Sales contract	<u>6</u>
	<u>x.</u>	Settlement sheet	<u>6</u>
	<u>X1.</u>	Survey	<u>6</u>
	<u>X11.</u>	<u>[litle documentation</u>	<u>6</u>
<u>e.</u>	Constru	action loans. In addition to the documents specified in subsection (d), a	
		hall keep a record for a construction loan as specified in this subsection:	
	<u>1.</u>	Certificate of occupancy	<u>6</u>
	<u>11.</u>	Construction progress report	<u>6</u>
	<u>111.</u>	Contractor's cost breakdown	<u>6</u>
	1V.	Disbursement documentation	<u>6</u>
	<u>V.</u>	Inspection report	6
	V1.	Residential construction specifications and material list	6

14. Official checks and drafts

a.	Affidavit, bond, indemnity agreement, other docu-			
	mentation supporting the issuance of a duplicate			
	check or draft	7		
b.	Bank draft	3		
e.	Cashier's check-cancelled	7		
d.	Cashier's check register-copy	7		
e.	Expense check-cancelled	7		
f.	Expense check register-copy	7		
g.	Expense voucher or invoice	7		
h.	Money order-bank or personal	7		
i.	Money order register-copy	7		
j.	Official check outstanding	P		

<u>a.</u>	Affidavit, bond, indemnity agreement, other documentation sup- porting the issuance of a duplicate check or draft	7
<u>b.</u>	Bank draft	3
<u>c.</u>	Cashier's check – cancelled	7
<u>d.</u>	Cashier's check register – copy	7
<u>e.</u>	Expense check – cancelled	7
<u>f.</u>	<u>Expense check register – copy</u>	7
<u>g.</u>	Expense voucher or invoice	7
<u>h.</u>	<u>Money order – bank or personal</u>	7

	1.	Money order register – copy		7
	<u>j.</u>	Official check outstanding		<u>P</u>
15.	Pers	sonnel Records		
	a.	Attendance record, and time card	3	
	b.	Authorization for payroll deduction	2	
	e.	Department of labor report	5	
	d.	Disability record	5	
	e.	Employee record and personnel folder	5	
	f.	Employment application	3 AT	
	g.	Insurance record	2	
	h.	Payroll check	2	
	i.	Pension fund record	10	
	j .	Profit sharing fund record	10	
	k.	Rejected employee application	2	
	1.	Salary ledger or electronic data processing		
		printout	4	
	m.	Salary receipt	2	
	n.	W-3 reconciliation of income tax withheld	from-	
		wages	3	
	0.	W-4 withholding exemption certificate	3	
	p.	Wage and tax statement record (W-2)	7	
	q.	Wage differential documentation (Fair Labo	or Stan-	
		dards Act)	3	

<u>a.</u>	Attendance record, and time card	3
<u>b.</u>	Authorization for payroll deduction	2
<u>c.</u>	Department of labor report	<u>5</u>
<u>d.</u>	Disability record	5
<u>e.</u>	Employee record and personnel folder	<u>5</u>
<u>f.</u>	Employment application	<u>3 AT</u>
g.	Insurance record	2
<u>h.</u>	Payroll check	2
<u>i.</u>	Pension fund record	10
Ŀ	Profit sharing fund record	10
<u>k.</u>	Rejected employee application	2
<u>l.</u>	Salary ledger or electronic data processing printout	4
<u>m.</u>	Salary receipt	2
<u>n.</u>	W-3 reconciliation of income tax withheld from wages	<u>3</u>
0.	W-4 withholding exemption certificate	<u>3</u>
<u>p.</u>	Wage and tax statement record (W-2)	7
<u>q.</u>	Wage differential documentation (Fair Labor Standards Act)	<u>3</u>

16. Registered mail

- a. Marine insurance book
 b. Record of incoming and out;
 - Record of incoming and outgoing registered mail 1
- e. Return receipt eard

<u>a.</u>	Marine insurance book	3
<u>b.</u>	Record of incoming and outgoing registered mail	<u>1</u>
<u>c.</u>	Return receipt card	<u>3</u>

17. Safe deposit vault

a.	Access ticket or card	6
b.	Court order and correspondence	6
e.	Delivery of will, burial plot deed, insurance p	olicy-
	receipt	6
d.	Forced entry record	6
e.	Lease or contract-closed account	2 AC
f.	Ledger record of account	1
g.	Opened box contents-record and report	7
ĥ.	Rent receipt-copy	1
i.	Sale to satisfy lien-record	7
j.	Signature card, authorization, and resolution	6 AC

3

3

<u>a.</u>	Access ticket or card	6
<u>b.</u>	Court order and correspondence	<u>6</u>
<u>c.</u>	Delivery of will, burial plot deed, insurance policy – receipt	<u>6</u>
<u>d.</u>	Forced entry record	<u>6</u>
<u>e.</u>	Lease or contract – closed account	<u>2 AC</u>
<u>f.</u>	Ledger record of account	1
<u>g.</u>	Opened box contents – record and report	7
<u>h.</u>	<u>Rent receipt – copy</u>	<u>1</u>
<u>1.</u>	Sale to satisfy lien – record	7
<u>j.</u>	Signature card, authorization, and resolution	<u>6 AC</u>

18. Tellers

a.	Mail teller envelope	3 M
b.	Teller's balancing recap or recap book	+
e.	Teller's eash ticket-original and earbons	+
d.	Teller's cash shipment record	+
e.	Teller's exchange ticket	+
f.	Teller's machine tape	+
	-	

<u>a.</u>	Mail teller envelope	3	Μ
<u>b.</u>	Teller's balancing recap or recap book		1
<u>c.</u>	Teller's cash ticket – original and carbons		1
<u>d.</u>	Teller's cash shipment record		1
<u>e.</u>	Teller's exchange ticket		1
<u>f.</u>	Teller's machine tape		1

19. Transit, proof, and clearing

a.	ACH entry	6
b.	Advice of correction to deposit	2
e.	Clearinghouse settlement sheet - recapitulation	əf -
	checks delivered to the clearinghouse or federal	-
	reserve	2
d.	Record of items processed	6
e.	Proof machine tape or other record	2
f.	Receipt for transit letter	1
g.	Return item letter	5

<u>a.</u>	ACH entry	<u>6</u>
<u>b.</u>	Advice of correction to deposit	2
<u>c.</u>	Clearinghouse settlement sheet – recapitulation of checks delivered to the clearinghouse or federal reserve	2
<u>d.</u>	Record of items processed	6
<u>e.</u>	Proof machine tape or other record	2
<u>f.</u>	Receipt for transit letter	1
<u>g.</u>	Return item letter	<u>5</u>

20. Trust department administration

a. Appraisal of real or personal property held as a trust

	asset	3 AC
b.	Correspondence	3 AC
e.	Decree or receipt and release	3 AC
d.	Fee record and supporting data	3 AC
e.	Intermediate and final account	3 AC
f.	Legal documentation including judgment, court-	
	order, and legal opinion	3-AC
g.	Paid bill	3 AP
ĥ.	Real estate insurance policy	1 AE
i.	Real estate and mortgage document	3 AC
j.	Receipt for asset received or delivered	3 AC
k.	Record of asset tax cost	3 AC
1.	Summary card, original instrument, agreement a	nd-
	amendment, and letters of appointment	3 AC
m.	Synopsis sheet	3 AC

<u>a.</u>	Appraisal of real or personal property held as a trust asset	<u>3 AC</u>
<u>b.</u>	Correspondence	<u>3 AC</u>
<u>c.</u>	Decree or receipt and release	<u>3 AC</u>
<u>d.</u>	Fee record and supporting data	<u>3 AC</u>
<u>e.</u>	Intermediate and final account	<u>3 AC</u>
<u>f.</u>	Legal documentation including judgment, court order, and legal opinion	<u>3 AC</u>
<u>g.</u>	Paid bill	<u>3 AP</u>
<u>h.</u>	Real estate insurance policy	<u>1 AE</u>
<u>i.</u>	Real estate and mortgage document	<u>3 AC</u>
<u>j.</u>	Receipt for asset received or delivered	<u>3 AC</u>
<u>k.</u>	Record of asset tax cost	<u>3 AC</u>
<u>l.</u>	Summary card, original instrument, agreement and amendment, and letters of	
	appointment	<u>3 AC</u>
<u>m.</u>	Synopsis sheet	<u>3 AC</u>

21. Corporate trust

a.	Bond registration journal	3-AC
b.	Bond-cancelled	7
e.	Indemnity bond	P
d.	Certification	2
e.	Coupon envelope	6 M
f.	Coupon-cancelled	6 M
g.	Customer receipt	7
h.	Dividend and coupon record	3 AC
i.	Dividend and interest disbursement cheek	
	and list	3 AC
j.	General ledger ticket	2
k.	Legal paper	P
		-
l.	Copy of cancelled stock certificate, original return	rned-
1.	Copy of cancelled stock certificate, original retuite to customer	rned- 1
l. m.	Copy of cancelled stock certificate, original return	
	Copy of cancelled stock certificate, original returned to customer	1
m.	Copy of cancelled stock certificate, original retu- to customer Stock registration journal	1 3 AC
m. n.	Copy of cancelled stock certificate, original retu to customer Stock registration journal Stock transfer memo Stock transfer receipt Tax return	1 3 AC 1
m. n. 0.	Copy of cancelled stock certificate, original retu to customer Stock registration journal Stock transfer memo Stock transfer receipt Tax return Transfer supporting papers	1 3 AC 1 1
m. n. o. p.	Copy of cancelled stock certificate, original retu- to customer Stock registration journal Stock transfer memo Stock transfer receipt	1 3 AC 1 1 3 AC
m. n. 0. p. q.	Copy of cancelled stock certificate, original retu- to customer Stock registration journal Stock transfer memo Stock transfer receipt Tax return Transfer supporting papers Transfer journal Transfer tax waiver	+ 3 AC + + 3 AC 3 AC
m. n. p. p.	Copy of cancelled stock certificate, original returned to customer Stock registration journal Stock transfer memo Stock transfer receipt Tax return Transfer supporting papers Transfer journal	+ + + + 3 AC 3 AC 3 AC

<u>a.</u>	Bond registration journal	<u>3 AC</u>
<u>b.</u>	Bond – cancelled	7
<u>c.</u>	Indemnity bond	<u>P</u>
<u>d.</u>	Certification	2
<u>e.</u>	Coupon envelope	<u>6 M</u>
<u>f.</u>	Coupon – cancelled	<u>6 M</u>
<u>g.</u>	Customer receipt	7
<u>h.</u>	Dividend and coupon record	<u>3 AC</u>
1.	Dividend and interest disbursement check and list	<u>3 AC</u>
<u>].</u>	General ledger ticket	2
<u>k.</u>	Legal paper	<u>P</u>
<u>l.</u>	Copy of cancelled stock certificate, original returned to customer	1
<u>m.</u>	Stock registration journal	<u>3 AC</u>
<u>n.</u>	Stock transfer memo	1
0.	Stock transfer receipt	1
<u>p.</u>	Tax return	<u>3 AC</u>
<u>q.</u>	Transfer – supporting papers	<u>3 AC</u>
<u>r.</u>	Transfer journal	<u>3 AC</u>
<u>s.</u>	Transfer tax waiver	<u>3 AC</u>
<u>t.</u>	Trust ledger – corporate	7

22. Personal trust

a.	Rec	ord of previously discharged fiduciary	
	i.	Accounting	3 AC
	ii.	Decree	3 AC
	iii.	Receipt and release	3-AC
b.	Acc	ounting - recorded	3 AC
	4 1		

b. e. Advice of payment securities department regarding

Notices of Proposed Rulemakin	ıg
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	bond and coupon collection	3 AC
d.	Appraisal	
	i. Real property	3 AC
	ii. Personal property	3 AC
e.	Asset delivery receipt	3 AC
f.	Authorization	
	i. By co-fiduciary	P
	ii. By consultant	P
g.	Approval	
	i. By co-fiduciary	P
	ii. By consultant	P
h.	Broker's statement	7
i.	Buy and sell order	7
i.	Cash documentation	
U	i. Customer cash and asset statement	7
	ii. Cash and security journal	7
	iii. Cash trial balance	1
k.	Common trust fund annual report10	
1.	Correspondence	
	i. Transfer letter	3-AC
	ii. Claim letter	3 AC
m.	Coupon collection record	7
n.	Court accounting and petition	7
o.	Daily transaction journal	6 M
p.	Debits and credits-daily	1
q.	Documentation necessary to support accou	int deci-
•	sion	3 AC
r.	Tax Documentation	
	i. Federal estate tax return	10
	ii. State estate tax return	10
	iii. Tax-related work papers	10
	iv. Federal gift tax return	10
s.	Fee calculations and supporting data	1
ŧ.	Income tax return	
	i. Federal	3 AC
	ii. State	3 AC
u.	Inventory	3 AC
v.	Investment review and related material	3 AC
₩.	Minutes	
	i. Investment committee	P
	ii. Trust committee	P

a.	Record of previously discharged fiduciary	
<u>u.</u>	<u>i. Accounting</u>	3 AC
	ii. Decree	$\frac{3}{3}$ AC
	iii. Receipt and release	3 AC
b.	Accounting – recorded	$\frac{3}{3}$ AC
c.	Advice of payment – securities department regarding bond and	-
	coupon collection	3 AC
d.	Appraisal	
	<u>i.</u> Real property	<u>3 AC</u>
	ii. Personal property	<u>3 AC</u>
<u>e.</u>	Asset delivery receipt	<u>3 AC</u>
<u>f.</u>	Authorization	
	<u>i.</u> <u>By co-fiduciary</u>	<u>P</u>
	<u>ii.</u> By consultant	<u>P</u>
<u>g.</u>	Approval	<u>5</u>
	<u>i.</u> <u>By co-fiduciary</u>	<u>P</u>
	<u>ii. By consultant</u>	<u>P</u>
<u>h.</u>	Broker's statement	7
<u>1.</u>	Buy and sell order	<u>7</u>
<u>i.</u>	Cash documentation	
	i. Customer cash and asset statement	7
	ii. Cash and security journal	7
	<u>iii.</u> Cash trial balance	1
<u>k.</u>	Common trust fund annual report	10
<u>l.</u>	Correspondence	

	<u>i. Transfer letter</u>	3 A C
	ii. Claim letter	3 AC
m	Coupon collection letter	7
<u>m.</u>	*	<u>/</u>
<u>n.</u>	Court accounting and petition	1
0.	Daily transaction journal	<u>6 M</u>
<u>р.</u>	Debits and credits – daily	1
<u>q.</u>	Documentation necessary to support account decision	<u>3 AC</u>
<u>r.</u>	Tax Documentation	
	i. Federal estate tax return	<u>10</u>
	ii. State estate tax return	<u>10</u>
	iii. Tax-related work papers	<u>10</u>
	iv. Federal gift tax return	10
s.	Fee calculations and supporting data	1
<u>t.</u>	Income tax return	
	i. Federal	<u>3 AC</u>
	ii. State	<u>3 AC</u>
<u>u.</u>	Inventory	<u>3 AC</u>
V.	Investment review and related material	<u>3 AC</u>
W.	Minutes	
	i. Investment committee	<u>P</u>
	ii. Trust committee	<u>P</u>

23. Other personal trust records

a.	Legal opinion	3 AC
b.	Correspondence related to legal opinion	3 AC
e.	Paid bill	7
d.	Review and recommendation	3 AC
e.	Safekeeping record and receipt	3 AC
f.	Security ledger sheet	P
g.	Trust check	10
h.	Trust entry-original	3 AC
i.	Trust or agency agreement-original	3 AC
j.	Vault withdrawal and deposit ticket	7
k.	Will-certified copy	P
1.	Work papers supporting tax return	7

<u>a.</u>	Legal opinion	<u>3 AC</u>
<u>b.</u>	Correspondence related to legal opinion	<u>3 AC</u>
<u>c.</u>	Paid bill	7
<u>d.</u>	Review and recommendation	<u>3 AC</u>
<u>e.</u>	Safekeeping record and receipt	<u>3 AC</u>
<u>f.</u>	Security ledger sheet	<u>P</u>
<u>g.</u>	<u>Trust check</u>	<u>10</u>
<u>h.</u>	<u>Irust entry – original</u>	<u>3 AC</u>
<u>1.</u>	<u>Irust or agency agreement – original</u>	<u>3 AC</u>
<u>l.</u>	Vault withdrawal and deposit ticket	7
<u>k.</u>	Will – certified copy	<u>P</u>
<u>l.</u>	Work papers supporting tax return	7

24. Trust Investments

a.	Annual report	
	i. Common trust fund	10
	ii. Pooled fund	10
b.	Valuation	
	i. Common trust fund	10
	ii. Pooled fund	10
e.	Minutes	
	i. Investment committee	P
	ii. Administrative committee	P
d.	Investment order and broker's confirmation	3-AC
e.	investment review and related material	3 AC
f.	Correspondence	3-AC
g.	Summary of annual account activity	3-AC

<u>a.</u>	Annual report	
	i. Common trust fund	<u>10</u>
	ii. Pooled fund	<u>10</u>
<u>b.</u>	Valuation	
	i. Common trust fund	10

	ii. Pooled fund	<u>10</u>
<u>c.</u>	Minutes	
	i. Investment committee	P
	ii. Administrative committee	P
<u>d.</u>	Investment order and broker's confirmation	<u>3 AC</u>
e.	Investment review and related material	<u>3 AC</u>
<u>f.</u>	Correspondence	<u>3 AC</u>
<u>g.</u>	Summary of annual account activity	<u>3 AC</u>

25. Wire transfer

a.	Incoming wire log	1
b.	Outgoing wire log	1
e.	Transmission record	7
d.	Wire transfer request	7

<u>a.</u>	Incoming wire log	<u>1</u>
<u>b.</u>	Outgoing wire log	1
<u>c.</u>	Transmission record	7
d.	Wire transfer request	7

R20-4-215. Trust Business

All banksEach bank authorized to conduct trust business under their banking permit shall comply with the applicable requirements of R20-4-808 through R20-4-816.

NOTICE OF PROPOSED RULEMAKING

TITLE 20. COMMERCE, FINANCIAL INSTITUTIONS, AND INSURANCE

CHAPTER 4. DEPARTMENT OF INSURANCE AND FINANCIAL INSTITUTIONS FINANCIAL INSTITUTIONS

[R23-02]

PREAMBLE

<u>1.</u>	Article, Part, or Section Affected (as applicable) R20-4-801	Rulemaking Action Amend
	R20-4-805	Amend
	R20-4-806	Amend
	R20-4-807	Amend
	R20-4-808	Amend
	R20-4-809	Amend
	R20-4-810	Amend
	R20-4-811	Amend
	R20-4-812	Amend
	R20-4-813	Amend
	R20-4-814	Amend
	R20-4-815	Amend
	R20-4-816	Amend

Citations to the agency's statutory rulemaking authority to include the authorizing statute (general) and the <u>2.</u> implementing statute (specific): Authorizing statute: A.R.S. § 6-123(2)

Implementing statutes: A.R.S. §§ 6-851, 6-853(A) (trust companies), 6-382 and 6-853(B) (banks), 6-434 and 6-853(C) (savings and loan associations), 6-854, 6-859, 6-861, and 6-865

Citations to all related notices published in the Register as specified in R1-1-409(A) that pertain to the record of <u>3.</u> the proposed rule:

Notice of Rulemaking Docket Opening: 29 A.A.R. 424, January 27, 2023 (in this issue)

The agency's contact person who can answer questions about the rulemaking: <u>4.</u>

Name: Mary E. Kosinski

Address:	Department of Insurance and Financial Institutions 100 N. 15th Ave., Suite 261 Phoenix, AZ 85007-2630
Telephone:	(602) 364-3476
Email:	mary.kosinski@difi.az.gov
Website:	https://difi.az.gov

5. <u>An agency's justification and reason why a rule should be made, amended, repealed or renumbered, to include an explanation about the rulemaking:</u>

The Arizona Department of Insurance and Financial Institutions – Financial Institutions Division ("Department") is proposing changes to A.A.C. Title 20, Chapter 4, Article 8 – Trust Companies. The changes the Department is proposing will reflect the structural change to the former Department of Financial Institutions which merged with the Department of Insurance to form the Department of Insurance and Financial Institutions (the "new agency"), on July 1, 2020. The former Department of Financial Institutions became a division of the new agency.

As a result of the merger, the new agency made statutory changes to eliminate the position of Superintendent. Instead, the Director of the new agency assumed those duties. This structural change necessitated replacing references to "Superintendent" with "Director" throughout the Article.

When reviewing the rules in the Article, the Department also endeavored to modernize the current rules since the most recent rulemaking for this Article was in 2002. The Department is removing the definition for "Superintendent" and adding a definition for "Director," correcting statutory references and allowing electronic recordkeeping.

- 6. A reference to any study relevant to the rule that the agency reviewed and proposes either to rely on or not to rely on in its evaluation of or justification for the rule, where the public may obtain or review each study, all data underlying each study, and any analysis of each study and other supporting material: The Department did not review and does not propose to rely on any study relevant to this rulemaking.
- 7. A showing of good cause why the rulemaking is necessary to promote a statewide interest if the rulemaking will diminish a previous grant of authority of a political subdivision of this state: The rulemaking does not diminish a previous grant of authority granted to the Department.

8. The preliminary summary of the economic, small business, and consumer impact:

Pursuant to A.R.S. § 41-1055(A):

- The rulemaking is not designed to change any conduct. Instead, it is necessary to reflect the new structure of the Department and to modernize and clarify some of the Sections.
- Because this rulemaking is not made in response to a perceived problem caused by the conduct of licensees, it is not intended to reduce the frequency of any potentially violative conduct.
- The compliance costs incurred by banks or savings and loan associations with trust departments, or trust companies are not expected to impact revenues or payroll expenditures.
- The person listed in Item 9 may be contacted to submit or request additional data on the information included in the economic, small business and consumer impact statement.

9. The agency's contact person who can answer questions about the economic, small business and consumer impact statement:

Name:	Mary E. Kosinski
Address:	Department of Insurance and Financial Institutions 100 N. 15th Ave., Suite 261 Phoenix, AZ 85007-2630
Telephone:	(602) 364-3476
Email:	mary.kosinski@difi.az.gov

10. The time, place, and nature of the proceedings to make, amend, repeal, or renumber the rule, or if no proceeding is scheduled, where, when, and how persons may request an oral proceeding on the proposed rule:

No proceeding is currently scheduled. Persons who wish to request an oral proceeding on this rulemaking should make a written request to the person listed in item 4. Requests must be received within 30 days of the publication of this Notice of Proposed Rulemaking. A.R.S. § 41-1023(C). If requested, the oral proceeding will be conducted at least 30 days after the receipt of any such request.

In lieu of an oral proceeding, interested parties may submit public comments to: <u>public_comments@difi.az.gov</u>. Please use "DFI Article 8 – Trust Companies" in the subject line of the email. Persons submitting public comments should be aware that any comments submitted are "public" and may be published by the Department.

If no one requests an oral proceeding, the public comment period will close 30 days after the publication date of this Notice of Proposed Rulemaking. If anyone requests an oral proceeding, the public comment period will close at 11:59 p.m. on the date of the oral proceeding.

11. All agencies shall list other matters prescribed by statute applicable to the specific agency or to any specific rule or class of rules. Additionally, an agency subject to Council review under A.R.S. §§ 41-1052 and 41-1055 shall respond to the following questions:

No other matters prescribed by statute are applicable to the Department or to any specific rule or class of rules.

a. <u>Whether the rule requires a permit, whether a general permit is used and if not, the reasons why a general permit is not used:</u>

Pursuant to A.R.S. § 6-201(A), no person can engage in banking business in Arizona without a banking permit issued by the Department. A general permit is not applicable to banking business.

Pursuant to A.R.S. § 6-410, the deputy director of the Department must issue a permit to organize as a savings and loan association. A general permit is not applicable to savings and loan association business. (No savings and loan associations are currently permitted in Arizona.)

Pursuant to A.R.S. § 6-853, no person can engage in business as a trust company without first obtaining a certificate from the deputy director. A general permit is not applicable to trust company business.

- b. Whether a federal law is applicable to the subject of the rule, whether the rule is more stringent than federal law and if so, citation to the statutory authority to exceed the requirements of federal law: No federal law is applicable to the subject of the rule.
- c. Whether a person submitted an analysis to the agency that compares the rule's impact of the competitiveness of business in this state to the impact on business in other states:

No formal analysis has been submitted to the Department that compares the rule's impact on the competitiveness of business in this state to the impact of business in other states.

<u>12.</u> <u>A list of any incorporated by reference material as specified in A.R.S. § 41-1028 and its location in the rules:</u> The rule does not incorporate any reference material into the rule as specified at A.R.S. § 41-1028.

13. The full text of the rules follows:

TITLE 20. COMMERCE, FINANCIAL INSTITUTIONS, AND INSURANCE

CHAPTER 4. DEPARTMENT OF INSURANCE AND FINANCIAL INSTITUTIONS FINANCIAL INSTITUTIONS

ARTICLE 8. TRUST COMPANIES

Section

- R20-4-801. Definitions
- R20-4-805. Reports
- R20-4-806. Records
- R20-4-807. Unsafe or Unsound Condition
- R20-4-808. Administration of Fiduciary Powers
- R20-4-809. Fiduciary Duties
- R20-4-810. Funds Awaiting Investment or Distribution
- R20-4-811. Investment of Trust Funds
- R20-4-812. Self-dealing
- R20-4-813. Custody of Investments
- R20-4-814. Compensation
- R20-4-815. Collective Investments
- R20-4-816. Termination of Trust or Fiduciary Powers and Duties

ARTICLE 8. TRUST COMPANIES

R20-4-801. Definitions

In this Article, unless the context otherwise requires: In addition to the definitions provided in A.R.S. § 6-851, the following terms apply to this Article unless the context otherwise requires:

- "Account" means the trust, estate, or other fiduciary relationship established with a trust department or trust company.
 - "Affiliate" has the meaning stated at A.R.S. § 6-801.

"Certificate" has the meaning stated at A.R.S. § 6-851.

"Director" has the meaning stated at A.R.S. § 20-102.

"Fiduciary" has the meaning stated at A.R.S. § 6-851.

- "Governing instrument" means a document, and all its operative amendments, that:
 - a. Creates a trust and regulates the trustee's conduct,
 - b. Creates an agency relationship between a trust department or trust company and a client, or
 - c. Otherwise evidences a fiduciary relationship between a trust department or trust company and a client.

"Investment responsibility" means full and unrestricted discretion to invest trust funds without direction from anyone as to any matter, including the terms of the trade or the identity of the broker.

"Person" has the meaning stated at A.R.S. § 1-215. 20-105.

"Superintendent" has the meaning stated at A.R.S. § 6-851.

"Trust asset" means any property or property right held by a trust department or trust company for the benefit of another.

"Trust business" has the meaning stated at A.R.S. § 6-851.

"Trust company" has the meaning stated at A.R.S. § 6-851.

"Trust department" means a permittee under both A.R.S. § 6-201 et seq. and Article 2 of this Chapter that possesses a banking permit authorizing it to engage in trust business.

"Trust funds" means any money held by a trust department or trust company for the benefit of another.

"Trustor" means a person who creates or funds a trust, or both.

R20-4-805. Reports

A. Within 90 days following each December 31, each trust department and trust company shall file an annual report of trust assets with the <u>Superintendent Director</u> on the form prescribed by the <u>Superintendent. Director</u>. The annual report shall include the current market value of all trust assets held by the trust department or trust company as of December 31. The report shall also identify and briefly describe all transactions conducted in the report period that are regulated by <u>subsections</u> R20-4-812(E) through R20-4-812(G).

- **B.** Each trust company shall deliver a copy of its annual report and certificate of disclosure to the <u>Superintendent Director</u> within 10 days of filing the report and certificate at the Arizona Corporation Commission. A report or certificate covered by this subsection is one filed under the authority of A.R.S. §§ 10-202 or 10-1622. A copy delivered to the <u>Superintendent, Director</u>, as required in this subsection, shall be date-stamped by the Arizona Corporation Commission to confirm the actual filing date.
- C. Each trust company shall notify the <u>Superintendent Director</u> of any change in the directors or officers of the company within 10 days of the change. Any trust company with more than 25 officers may, after obtaining the <u>Superintendent's Director's</u> written approval, limit the officers covered by this subsection to those with substantial involvement in the trust company's corporate operations or in the trust company's trust business in this state.

R20-4-806. Records

2.

- A. A trust company may use a computer recordkeeping system if the trust company gives the Superintendent advanced written notice that it intends to do so. Every trust company shall keep its records as originals or as copies of the originals made by reproduction methods that accurately and permanently preserve the records. Except for records required by subsections (B)(1)(a) and (B)(1)(b), the Department shall not require a trust company to keep a written copy of A trust company may keep its records as electronic records if the trust company can generate all information and copies required by this Section in a timely manner within the timeframe set by the Department for examination or other purposes. A trust company may add, delete, modify, or customize a computer recordkeeping system's hardware or software components. When requested, or in response to a written notice of an examination, a trust company shall report to the Superintendent any alteration in the computer recordkeeping system's fundamental character, medium, or function if the alteration changes the computer system to a paper-based system.
- **B.** A trust department or trust company shall keep books, accounts, and records adequate to provide clear and readily understandable evidence of all business conducted by the trust department or trust company, including the following:
 - 1. A file for each account that includes:
 - a. The original of the governing instrument,
 - b. The originals of all <u>All</u> contracts and other legal documents,
 - c. Copies of all correspondence,
 - d. Accounting records disclosing all the financial transactions, and
 - e. A listing of all the account's assets and liabilities.
 - An investment file for each account that includes:
 - a. All original documentary evidence of the account's assets; or
 - b. Copies of the original documentary evidence of the account's assets, together with written evidence of custody or receipt of the originals by an authorized holder; and
 - c. A record of the initial and annual investment reviews for the account.
 - The corporate general ledger kept current on a daily basis. This record shall identify and segregate all financial transactions conducted by the trust department or trust company for itself, distinguishing them from those relating to the trust department's or trust company's trust business;
 - 4. Unaudited financial statements. A trust department or trust company shall produce these statements quarterly or more frequently when directed required by the Superintendent. Director. The financial statements shall include at least:
 - a. A balance sheet; and
 - b. A statement of income, expenses, and retained earnings.
 - 5. Adequate records of all pending litigation that names the trust department or trust company as a party.
- C. A trust department shall keep its fiduciary records separate and distinct from the trust department's corporate records.
- **D.** A trust department or trust company shall keep records described in subsections (B)(1) and (B)(2) for at least three years after closing an account. If litigation occurs concerning a particular account, the trust department or trust company shall keep that account's records, described in subsections (B)(1) and (B)(2), for three years after the litigation is resolved.

R20-4-807. Unsafe or Unsound Condition

For purposes of A.R.S. §§ 6-863 and 6-865, a trust company conducts business in an unsafe manner or its affairs are in an unsound condition if it:

- 1. Violates any fiduciary duty or obligation, including those listed in <u>Sections</u> R20-4-809 through R20-4-815;
- 2. Violates any state or federal requirement for operating or maintaining trusts, common trust funds, or other accounts;
- 3. Violates any applicable federal or state law or regulation regarding corporations or securities;
- 4. Employs an officer or director who violates a corporate fiduciary duty;
- 5. Is insolvent; or
- Engages in any conduct that the Superintendent Director determines constitutes an unsafe or unsound business practice jeopardizing the trust company's financial condition or the interests of a stockholder, creditor, trustor, beneficiary, or trust company's principal.

R20-4-808. Administration of Fiduciary Powers

- A. The board of directors and the officers share responsibility for the exercise of fiduciary powers by a trust department or trust company. The board of directors is responsible for determining policy; investing and disposing of trust assets; and directing and reviewing the actions of all directors, officers, and committees of the board that exercise fiduciary powers. The board of directors may delegate the necessary power and authority to perform the trust department's or trust company's duties as a fiduciary to selected directors, officers, employees, or committees of the board if the delegation is consistent with the corporate charter. The minutes of the board's meetings shall duly reflect all those delegations.
- **B.** A trust department or trust company shall not accept a new account without first obtaining the board's approval, or that of the directors, officers, or committees that the board may have authorized to approve new accounts. The trust department or trust company shall keep a written record of each new account approval and of the closing of each account. The trust department or trust company

shall conduct an asset review within 60 days after it accepts each new account if it has investment responsibility for that account. The trust department's or trust company's board shall ensure that an annual review of account assets is conducted for any <u>each</u> account in which the trust department or trust company has investment responsibility, to determine whether to retain or dispose of the assets.

C. A trust department or trust company exercising fiduciary powers shall use independent legal counsel admitted to practice in Arizona to advise and inform the trust department or trust company on fiduciary matters and all other legal issues presented to the trust department or trust company by the conduct of its trust business.

R20-4-809. Fiduciary Duties

A trust department or trust company shall perform all fiduciary duties imposed upon it by law, including the following:

- 1. Administer accounts strictly according to the governing instrument and solely in the account beneficiary's interests;
- 2. Use reasonable care and skill to make the account productive;
- 3. Provide complete and accurate information of <u>about</u> the nature and amount of assets held to each account's beneficiary or principal and permit the beneficiary, principal, or any person duly authorized by the beneficiary or principal to inspect the account's records at any time during normal business hours. The information provided in compliance with this subsection shall be delivered at least quarterly, unless:
 - a. The trust department or trust company and its account's beneficiary, principal, or authorized person agree otherwise in writing;
 - b. The governing instrument provides otherwise; or
 - c. A different frequency is established by a lawful course of dealing before the effective date of this rule; and
- 4. Comply with all lawful provisions of the governing instrument.

R20-4-810. Funds Awaiting Investment or Distribution

- **A.** Trust funds held by a trust department or trust company awaiting investment or distribution shall not remain uninvested or undistributed any longer than is reasonable for the account's proper management.
- **B.** A trust department or trust company may keep trust funds in deposit accounts maintained by the trust department or trust company, unless prohibited by law or by the governing instrument. The trust department or trust company shall set aside collateral security for all deposited trust funds under a third party's control. The collateral shall be the following types of securities, in any combination:
 - 1. Direct obligations of the United States or any agency, department, division, or administration of the federal government;
 - 2. Any other obligations fully guaranteed by the United States government as to principal and interest;
 - 3. Obligations of a Federal Reserve Bank;
 - 4. Obligations of any state, political subdivision of a state, or public authority organized under the laws of a state; or
 - 5. Readily marketable securities that either:
 - a. Qualify as investment securities under the Investment Securities regulations of the Comptroller of the Currency, 12 CFR, Chapter 1, Part 1; or
 - b. Satisfy state pledging requirements under A.R.S. § 6-245(C).
- C. The securities set aside under subsection (B) shall, at all times, have a market value no less than the amount of trust funds deposited. No collateral security is required to the extent the Federal Deposit Insurance Corporation, or its successor, insures the deposited trust funds.

R20-4-811. Investment of Trust Funds

- A. A trust department or trust company shall invest trust funds according to:
 - 1. The governing instrument; and
 - 2. All applicable laws, including A.R.S. §§ 6-862, 14-7402, and 14-7601 through 14-7611. <u>14-7501 through 14-7512</u>
- **B.** A trust department or trust company shall make any collective investment of trust funds exclusively under the terms of <u>Section</u> R20-4-815.

R20-4-812. Self-dealing

- **A.** A trust department or trust company shall not invest trust funds in the following types of property unless expressly authorized by the governing instrument, applicable state or federal law, or court order:
 - 1. Its own securities;
 - 2. Other types of property acquired from the trust department or trust company;
 - 3. Property acquired from the trust department's or trust company's directors, officers, or employees;
 - 4. Property acquired from the trust department's or trust company's affiliates;
 - 5. Property acquired from its affiliates' directors, officers, or employees; or
 - 6. Property acquired from other individuals or organizations with an interest in the trust department or trust company if that interest might affect the trust department's or trust company's exercise of discretion to the detriment of its trust clients.
- **B.** A trust department or trust company may use trust funds to purchase its own securities, or its affiliates' securities:
 - 1. If the trust department or trust company has authority under subsection (A), and
 - 2. If those securities are offered pro rata to all stockholders of the trust department or trust company.
- C. A trust department or trust company shall not sell or loan trust property to itself, or to the following types of persons, unless expressly authorized by the governing instrument, applicable state or federal law, or court order:
 - 1. Its directors, officers, or employees;
 - 2. Its affiliates;

D.

- 3. Its affiliates' directors, officers, or employees; or
- 4. Other individuals or organizations with an interest in the trust department or trust company if that interest might affect the trust department's or trust company's exercise of discretion to the detriment of its trust clients.
- However, a trust department or trust company may sell or loan trust property to persons prohibited by subsection (C) if either:

- 1. Its counsel has advised in writing that, by holding certain property, the trust department or trust company has incurred a contingent or potential liability for breach of fiduciary duty; and
 - a. The proposed sale or loan avoids the contingent or potential liability;
 - b. Its board of directors authorizes the sale or loan by an action duly noted in the trust department's or trust company's minutes;
 - c. Its board of directors' action expressly authorizes reimbursement to the affected account; and
 - d. The affected account is reimbursed, in cash, at no loss to that account; or
- 2. The Superintendent Director requires or approves, in writing, the sale or loan to otherwise prohibited parties.
- E. A trust department or trust company may sell trust property held in one account to another of its accounts if:
 - 1. The transaction is fair to both accounts; and
 - 2. The transaction is not prohibited by the governing instruments, applicable state or federal law, or court order.
- F. A trust department or trust company may loan trust property held in one account to another of its accounts if:
 - 1. The transaction is fair to both accounts; and
 - 2. The transaction is not prohibited by the governing instruments, applicable state or federal law, or court order.
- G. A trust department or trust company may make a loan to a trust account, taking trust assets of the borrowing account as security for repayment, if:
 - 1. The transaction is fair to the borrowing account; and
 - 2. The transaction is not prohibited by the governing instrument, applicable state or federal law, or court order.

R20-4-813. Custody of Investments

- A. A trust department or trust company shall keep each account's investments separate from its own assets. It <u>A trust department or trust</u> <u>company</u> shall place each account's assets in the joint control of at least two officers or employees of the trust department or trust company designated in writing for that purpose by:
 - 1. The trust department's or trust company's board of directors, or
- 2. One or more officers authorized by the trust department's or trust company's board of directors to make the designation.
- **B.** A trust department or trust company shall either:
 - 1. Keep each account's investments separate from all other accounts' investments, except as provided in Section R20-4-815; or
 - 2. Adequately identify each account's property in the trust department's or trust company's records.

R20-4-814. Compensation

- A. A trust department or trust company acting as a fiduciary may charge a reasonable fee for its services. If <u>The trust department or trust</u> company shall receive the fee allowed by the court when it is acting under a court appointment. Any agreement as to fees in the governing instrument shall control the fee unless contrary to law, regulation, or court order.
- **B.** A trust department or trust company shall not permit any of its officers or employees to take any compensation for acting as a co-fiduciary with the trust department or trust company in the administration of an account.

R20-4-815. Collective Investments

- A. All collective investments made by a trust department or trust company shall be in a common trust fund established under A.R.S. § 6-871, and maintained by the trust department or trust company exclusively for the collective investment and reinvestment of funds contributed by the trust department or trust company acting as a fiduciary. A trust department or trust company shall not establish a common trust fund unless it first:
 - 1. Prepares a written plan regarding the common trust fund; and
 - 2. Obtains its board of directors' approval of the plan, evidenced by a duly adopted resolution or the board's unanimous written consent.
- **B.** The plan shall describe the common trust fund's operational details, including a description of:
 - 1. The trust department's or trust company's investment powers and investment policy over all funds deposited in the common trust fund,
 - 2. The manner for allocating the common trust fund's income and losses,
 - 3. The criteria for admission to or withdrawal from participating in the common trust fund, and
 - 4. The method for valuing assets in the common trust fund and the frequency of valuation.
- C. A trust department or trust company shall advise all persons having an interest in its common trust fund of the existence of the plan described in subsection (B), and shall provide a copy of the plan upon request.
- **D.** The annual report required under <u>Section</u> R20-4-805(A) shall include all common trust funds operated by the trust department or trust company.

R20-4-816. Termination of Trust or Fiduciary Powers and Duties

- A. Any trust department that wants to surrender its trust powers shall file with the <u>Superintendent Director</u> a certified copy of the appropriate resolution of its board of directors or of the board's unanimous written consent. If, after investigation, the <u>Superintendent Director</u> concludes that the trust department has no remaining fiduciary duties, the <u>Superintendent Director</u> shall notify the trust department that it no longer has authority to exercise trust powers.
- **B.** Any trust company that wants to surrender its certificate of authority to conduct trust business and wind up its affairs shall file with the <u>Superintendent Director</u> a certified copy of the appropriate resolution of its board of directors or of the board's unanimous written consent. Upon receipt of the resolution or consent, the <u>Superintendent Director</u> shall cancel the trust company's certificate of authority, and the trust company shall not accept new trust accounts.
- C. After winding up its affairs, any trust company that wants to surrender its rights and obligations as a fiduciary and remove itself from the Superintendent's Director's supervision shall file with the Superintendent Director a certified copy of the appropriate resolution of its board of directors or of the board's unanimous written consent. If, after investigation, the Superintendent Director concludes that

the trust company has no further fiduciary duties, the Superintendent Director shall notify the trust company that it no longer has authority to exercise fiduciary powers.

D. Any trust department or trust company that surrenders its powers, rights, obligations, or certificate under this Section or that has them cancelled, suspended, or revoked shall continue to be regulated under A.R.S. § 6-864 and this Article until it winds up its affairs. No action under this Section impairs any liability or cause of action, existing or incurred, against any trust department or trust company or its stockholders, directors, or officers.

NOTICE OF PROPOSED RULEMAKING

TITLE 20. COMMERCE, FINANCIAL INSTITUTIONS, AND INSURANCE

CHAPTER 4. DEPARTMENT OF INSURANCE AND FINANCIAL INSTITUTIONS FINANCIAL INSTITUTIONS

[R23-03]

PREAMBLE

<u>1.</u>	Article, Part, or Section Affected (as applicable)	Rulemaking Action
	R20-4-401	Amend
	R20-4-1001	Amend
	R20-4-1101	Amend
	R20-4-1601	Amend
	R20-4-1602	Amend
	R20-4-1701	Amend
	R20-4-1702	Amend
	R20-4-1704	Amend

<u>Citations to the agency's statutory rulemaking authority to include the authorizing statute (general) and the implementing statute (specific):</u> 2.

Authorizing statute: A.R.S. § 6-123(2)

Implementing statutes: Article 4: A.R.S. §§ 6-537(A)(1), 6-537(C); Article 10: A.R.S. § 6-1003; Article 11: A.R.S. §§ 35-312, 321(3) and (5); Article 16: A.R.S. §§ 6-141, 6-145; Article 17: A.R.S. § 6-327(G)

Citations to all related notices published in the Register as specified in R1-1-409(A) that pertain to the record of 3. the proposed rule:

Notice of Rulemaking Docket Opening: 29 A.A.R. 425, January 27, 2023 (in this issue)

4. The agency's contact person who can answer questions about the rulemaking: Mary E. Kosinski Name: Department of Insurance and Financial Institutions Address: 100 N. 15th Ave., Suite 261 Phoenix, AZ 85007-2630 Telephone: (602) 364-3476 Email: mary.kosinski@difi.az.gov

Website: https://difi.az.gov

5. An agency's justification and reason why a rule should be made, amended, repealed or renumbered, to include an explanation about the rulemaking:

The Arizona Department of Insurance and Financial Institutions - Financial Institutions Division ("Department") is proposing changes to A.A.C. Title 20, Chapter 4, Article 4 - Credit Unions, Article 10 - Safe Deposit and Safekeeping Code, Article 11 -Public Depositories for Public Monies, Article 16 - Acquiring Control of Financial Institutions and Article 17 - Arizona Interstate Bank and Savings and Loan Association Act. The changes the Department is proposing will reflect the structural change to the former Department of Financial Institutions which merged with the Department of Insurance to form the Department of Insurance and Financial Institutions (the "new agency"), on July 1, 2020. The former Department of Financial Institutions became a division of the new agency.

As a result of the merger, the new agency made statutory changes to eliminate the position of Superintendent. Instead, the Director of the new agency assumed those duties. This structural change necessitated replacing references to "Superintendent" or "Superintendent of Banks" with "Director" throughout the Articles.

When reviewing the rules in the Article, the Department also endeavored to modernize the current rules since the most recent rulemaking for Article 4 was in 2001, for Article 10 was in 2003, for Article 11 was in 1975, for Article 16 was in 2004, and for Article 17 was in 2005.

In addition, the Department is fulfilling commitments made in its 2020 Five Year Review Report to make changes to Articles 16 and 17.

A reference to any study relevant to the rule that the agency reviewed and proposes either to rely on or not to <u>6.</u> rely on in its evaluation of or justification for the rule, where the public may obtain or review each study, all data underlying each study, and any analysis of each study and other supporting material:

The Department did not review and does not propose to rely on any study relevant to this rulemaking.

7. A showing of good cause why the rulemaking is necessary to promote a statewide interest if the rulemaking will diminish a previous grant of authority of a political subdivision of this state:

The rulemaking does not diminish a previous grant of authority granted to the Department.

8. <u>The preliminary summary of the economic, small business, and consumer impact:</u>

Pursuant to A.R.S. § 41-1055(A):

- The rulemaking is not designed to change any conduct. Instead, it is necessary to reflect the new structure of the Department and to modernize and clarify some of the Sections.
- Because this rulemaking is not made in response to a perceived problem caused by the conduct of licensees, it is not intended to reduce the frequency of any potentially violative conduct.
- The compliance costs are not expected to impact revenues or payroll expenditures.
- The person listed in Item 9 may be contacted to submit or request additional data on the information included in the economic, small business and consumer impact statement.

9. <u>The agency's contact person who can answer questions about the economic, small business and consumer</u> <u>impact statement:</u>

Name:	Mary E. Kosinski
Address:	Department of Insurance and Financial Institutions 100 N. 15th Ave., Suite 261 Phoenix, AZ 85007-2630
Telephone:	(602) 364-3476
Email:	mary.kosinski@difi.az.gov

10. The time, place, and nature of the proceedings to make, amend, repeal, or renumber the rule, or if no proceeding is scheduled, where, when, and how persons may request an oral proceeding on the proposed rule:

No proceeding is currently scheduled. Persons who wish to request an oral proceeding on this rulemaking should make a written request to the person listed in item 4. Requests must be received within 30 days of the publication of this Notice of Proposed Rulemaking. A.R.S. § 41-1023(C). If requested, the oral proceeding will be conducted at least 30 days after the receipt of any such request.

In lieu of an oral proceeding, interested parties may submit public comments to: <u>public_comments@difi.az.gov</u>. Please use the following in the subject line of the email:

- For comments on Article 4 use "DFI Article 4 Credit Unions"
- For comments on Article 10 use "DFI Article 10 Safe Deposit and Safekeeping Code"
- For comments on Article 11 use "DFI Article 11 Public Depositories for Public Monies"
- For comments on Article 16 use "DFI Article 16 Acquiring Control of Financial Institutions"
- For comments on Article 17 use "DFI Article 17 AZ Interstate Bank and S & L Association Act"

Persons submitting public comments should be aware that any comments submitted are "public" and may be published by the Department.

If no one requests an oral proceeding, the public comment period will close 30 days after the publication date of this Notice of Proposed Rulemaking. If anyone requests an oral proceeding, the public comment period will close at 11:59 p.m. on the date of the oral proceeding.

11. All agencies shall list other matters prescribed by statute applicable to the specific agency or to any specific rule or class of rules. Additionally, an agency subject to Council review under A.R.S. §§ 41-1052 and 41-1055 shall respond to the following questions:

No other matters prescribed by statute are applicable to the Department or to any specific rule or class of rules.

a. Whether the rule requires a permit, whether a general permit is used and if not, the reasons why a general permit is not used:

Pursuant to A.R.S. § 6-507, the deputy director of the Department must issue a certificate of approval to organize as a credit union. A general permit is not applicable to credit union business.

- b. Whether a federal law is applicable to the subject of the rule, whether the rule is more stringent than federal law and if so, citation to the statutory authority to exceed the requirements of federal law: No federal law is applicable to the subject of the rule.
- c. Whether a person submitted an analysis to the agency that compares the rule's impact of the competitiveness of business in this state to the impact on business in other states: No formal analysis has been submitted to the Department that compares the rules' impact on the competitiveness of business in this state to the impact of business in other states.
- **<u>12.</u>** A list of any incorporated by reference material as specified in A.R.S. § 41-1028 and its location in the rules: The rule does not incorporate any reference material into the rule as specified at A.R.S. § 41-1028.
- 13. The full text of the rules follows:

TITLE 20. COMMERCE, FINANCIAL INSTITUTIONS, AND INSURANCE CHAPTER 4. DEPARTMENT OF INSURANCE AND FINANCIAL INSTITUTIONS FINANCIAL INSTITUTIONS

ARTICLE 4. CREDIT UNIONS

Sect R20	tion -4-401.	Fidelity Bond Coverage
1120		ARTICLE 10. SAFE DEPOSIT AND SAFEKEEPING CODE
Sect	tion	
R20	-4-1001.	Notice of Change of Location of Safe Deposit Repository
		ARTICLE 11. PUBLIC DEPOSITORIES FOR PUBLIC MONIES
Sect R20	tion 1-4-1101.	Capital structure of banks; defined Structure of Banks; Defined
		ARTICLE 16. ACQUIRING CONTROL OF FINANCIAL INSTITUTIONS
	tion 0-4-1601. 0-4-1602.	Definitions Application for Approval to Acquire Control of Financial Institution
		ARTICLE 17. ARIZONA INTERSTATE BANK AND SAVINGS AND LOAN ASSOCIATION ACT
R20	tion 0-4-1701. 0-4-1702. 0-4-1704.	Definitions Notice to the Superintendent of Intent to Acquire Control of an In-state Financial Institution; Surrender of an Acquired Financial Institution's Charter Public Notice
		ARTICLE 4. CREDIT UNIONS
А. В.	A credit u A fidelity A credit u	Fidelity Bond Coverage nion shall have a fidelity bond in the form and in the amount required to maintain federal insurance on its accounts. bond purchased by a credit union to comply with this Section shall include faithful-performance-of-duty coverage. nion shall purchase its fidelity bond from an insurer that holds a certificate of authority from the Arizona Director of Insurance surety business in Arizona.

ARTICLE 10. SAFE DEPOSIT AND SAFEKEEPING CODE

R20-4-1001. Notice of Change of Location of Safe Deposit Repository

- A. A corporation or association that moves a repository shall give written notice of the location change to the Superintendent Director and to its customers.
 - 1. A corporation or association shall provide notice of the location change to the <u>Superintendent Director</u> by mailing the notice required under this subsection by first class mail no less than 30 days before the scheduled moving date. The corporation or association shall include a copy of the notice to customers required under subsection (B).
 - 2. A corporation or association shall provide notice of the location change to its customers by:
 - a. Publishing notice of the change of location in:
 - i. An English language newspaper of general circulation in the county where the repository will be closed,
 - ii. In a weekly newspaper for two consecutive publications, or
 - iii. In a daily newspaper for three consecutive days; and
 - b. Publishing the notice no more than 90 days, and no less than 30 days, before the scheduled moving date.
- B. The corporation or association shall include all the following information in the notice:
 - 1. The date the corporation or association intends to move the repository,
 - 2. The earliest date a customer can remove contents and transact other business related to the move,
 - 3. The latest date a customer can remove contents and transact other business related to the move,
 - 4. The street address of the repository to be closed, and
 - 5. The street address of the new repository.

ARTICLE 11. PUBLIC DEPOSITORIES FOR PUBLIC MONIES

R20-4-1101. Capital structure of banks; defined Structure of Banks; Defined

"Capital structure" as the term is applied to banks under Article 2, Article 2.1, Chapter 2, Title 35, Arizona Revised Statutes, means the sum of the following reserves and capital accounts of the institution as stated in the institution's report of condition required by the supervisory banking authority for the year end next preceding the institution's bid for deposit:

- 1. Reserve for bad debt losses on loans.
- 2. Other reserves on loans.
- 3. Reserves on securities.
- 4. Capital notes and debentures.

- 5. Preferred stock -- total par value...
- 6. Common stock -- total par value.,
- 7. Surplus.
- 8. Undivided profits., and
- 9. Reserve for contingencies and other capital reserves.

ARTICLE 16. ACQUIRING CONTROL OF FINANCIAL INSTITUTIONS

R20-4-1601. Definitions

In this Article, unless the context otherwise requires: In addition to the definitions provided in A.R.S. § 6-141, the following terms apply to this Article unless the context otherwise requires:

"Acquiring party" means a person who intends to acquire control of a bank, trust company, savings and loan association, or controlling person under A.R.S. Title 6, Chapter 1, Article 4.

"Acquisition of control" has the meaning stated in A.R.S. § 6-141.

"Bank" has the meaning stated in A.R.S. § 6-101.

"Control" has the meaning stated in A.R.S. § 6-141.

"Controlling person" has the meaning stated in A.R.S. § 6-141.

"Director" has the meaning stated in A.R.S. § 6-101(7).

"Person" has the meaning stated in A.R.S. § 6-141.

"Savings and loan association" means a person required to possess a permit issued by the Superintendent Director under A.R.S. Title 6, Chapter 3.

"Superintendent" has the meaning stated in A.R.S. § 6-101.

"Target company" means a bank, savings and loan association, trust company, or controlling person to be acquired by an acquiring party.

"Trust company" has the meaning stated in A.R.S. § 6-851.

"Voting security" has the meaning stated in A.R.S. § 6-141.

R20-4-1602. Application for Approval to Acquire Control of Financial Institution

- **A.** An applicant seeking approval to acquire control of a bank, savings and loan association, or controlling person of a bank or savings and loan association, under A.R.S. Title 6, Chapter 1, Article 4, shall file with the <u>Superintendent Director</u> copies of all application documents filed with federal regulatory agencies in connection with the planned acquisition of control.
- B. As used in this subsection, "executive officer" includes the chairman of the board, president, each vice president, cashier, secretary, treasurer, and every other person who participates in major policymaking functions of the applicant. Under A.R.S. § 6-145(A), an applicant seeking approval to acquire control of a trust company or controlling person of a trust company, under A.R.S. Title 6, Chapter 1, Chapter 1, Article 4 shall supply all information the Superintendent Director requires under this subsection. The Superintendent Director may require an applicant to supplement or amend its application based on issues raised by the initial submission. The initial application shall consist of the following items:
 - 1. A copy of the signed purchase agreement;
 - 2. The applicant's audited financial statement;
 - 3. A personal history statement, on a form supplied by the Department, for each executive officer and each director of the acquiring party;
 - 4. Each executive officer's and each director's audited personal financial statement;
 - 5. A fingerprint card full set of fingerprints for each executive officer and each director; and
 - 6. A copy of each executive officer's and each director's driver's license.

ARTICLE 17. ARIZONA INTERSTATE BANK AND SAVINGS AND LOAN ASSOCIATION ACT

R20-4-1701. Definitions

In this Article, unless the context otherwise requires: In addition to the definitions provided in A.R.S. § 6-321, the following terms apply to this Article unless the context otherwise requires:

"Acquire" has the meaning stated at A.R.S. § 6-321(1).

"Applicant" means an out-of-state financial institution that intends to acquire control of an in-state financial institution.

"Control" has the meaning stated at A.R.S. § 6-321(2).

"Director" has the meaning stated in A.R.S. § 6-101(7).

"In-state financial institution" has the meaning stated at A.R.S. § 6-321(5).

"Out-of-state financial institution" has the meaning stated at A.R.S. § 6-321(6).

R20-4-1702. Notice to the Superintendent Director of Intent to Acquire Control of an In-state Financial Institution; Surrender of an Acquired Financial Institution's Charter

- A. An applicant shall give written notice of an acquisition to the Superintendent Director in the form of a courtesy copy of its federal application. The acquiring entity shall ensure that the notice is delivered to the Superintendent Director not less than ten days before the effective date of the acquisition. No other application is required under the provisions of A.R.S. Title 6, Chapter 2, Article 7, the Arizona Interstate Bank and Savings and Loan Association Act. The Superintendent Director may impose conditions on an acquisition under the authority of A.R.S. §§ 6-324 and 6-328.
- **B.** An acquired in-state financial institution shall surrender, by delivery to the <u>Superintendent, Director</u>, all permits and certificates issued by the <u>Superintendent Director</u> within ten days after the effective date of the acquisition unless the acquired institution intends to continue operating, after the acquisition, as a <u>stand alone stand-alone</u> subsidiary under the authority of its existing Arizona banking permit.

R20-4-1704. Public Notice

- A. An applicant shall transmit to the Superintendent of Banks two copies <u>Director one copy</u> of each notice and the publisher's affidavit of publication required by the Federal Reserve Board, Federal Home Loan Bank Board, the Federal Deposit Insurance Corporation, or other regulatory authority that has concurrent jurisdiction.
- **B.** An applicant shall provide the <u>Superintendent of Banks Director</u> copies of any protests known to have been received by the Federal Reserve Board, Federal Home Loan Bank Board, the Federal Deposit Insurance Corporation, or other regulatory authority that has concurrent jurisdiction.

NOTICES OF FINAL RULEMAKING

This section of the *Arizona Administrative Register* contains Notices of Final Rulemaking. Final rules have been through the regular rulemaking process as defined in the Administrative Procedures Act. These rules were either approved by the Governor's Regulatory Review Council or the Attorney General's Office. Certificates of Approval are on file with the Office.

The final published notice includes a preamble and text of the rules as filed by the agency.

Economic Impact Statements are not published but are filed by the agency with their final notice.

The Office of the Secretary of State is the filing office and publisher of these rules. Questions about the interpretation of the final rules should be addressed to the agency that promulgated them. Refer to item #5 to contact the person charged with the rulemaking.

The codified version of these rules will be published in the *Arizona Administrative Code*.

NOTICE OF FINAL RULEMAKING

TITLE 18. ENVIRONMENTAL QUALITY

CHAPTER 9. DEPARTMENT OF ENVIRONMENTAL QUALITY WATER POLLUTION CONTROL

[R22-325]

PREAMBLE

<u>1.</u> <u>Article. Part. or Section Affected (as applicable)</u> R18-9-A903

Rulemaking Action Amend

2. Citations to the agency's statutory rulemaking authority to include the authorizing statute (general) and the implementing statute (specific): Authorizing statute: A.R.S. §§49-202(A), 49-203(A)(1)

Implementing statute: A.R.S. §§49-202(A), 49-203(A)

3. The effective date of the rule: February 20, 2023

- a. If the agency selected a date earlier than the 60 day effective date as specified in A.R.S. § 41-1032(A), include the earlier date and state the reason or reasons the agency selected the earlier effective date as provided in A.R.S. § 41-1032(A)(1) through (5): Not applicable
- b. If the agency selected a date later than the 60 day effective date as specified in A.R.S. § 41-1032(A), include the later date and state the reason or reasons the agency selected the later effective date as provided in A.R.S. § 41-1032(B): A.R.S. § 41-1032(B): Net employed.

Not applicable

4. <u>Citations to all related notices published in the Register as specified in R1-1-409(A) that pertain to the record of the proposed rule:</u>

Notice of Rulemaking Docket Opening: 28 A.A.R. 124, January 7, 2022 Notice of Proposed Rulemaking: 28 A.A.R. 2327, September 16, 2022

5. <u>The agency's contact person who can answer questions about the rulemaking:</u>

Name:	Jonathan Quinsey
Address:	Department of Environmental Quality 1110 W. Washington St. Phoenix, AZ 85007
Telephone:	(602) 771-8193
Email:	Quinsey.Jonathan@azdeq.gov or PSWL@azdeq.gov
Website:	http://www.azdeq.gov/swpp

6. An agency's justification and reason why a rule should be made, amended, repealed or renumbered, to include an explanation about the rulemaking:

<u>Background</u>

Historically, a broad spectrum of Arizona's lakes, ponds, streams and wetlands have been protected under the Federal Clean Water Act (CWA). This protection includes the regulation of discharges of pollutants to surface waters via the Arizona Pollution Discharge Elimination System (AZPDES). This regulatory program has only been implemented to regulate discharges into "waters of the United States" (WOTUS).

The CWA does not define WOTUS, instead, it provides discretion for the U.S. Environmental Protection Agency (EPA) and the US Army Corps of Engineers (USACE) to define WOTUS in their rules. Courts have heard a number of cases and issued rulings that effectively modify the extent of federal jurisdiction and different Federal administrations have attempted to change the definition as well. The Arizona Department of Environmental Quality (ADEQ) created the Surface Water Protection Program (SWPP) to

provide clear and consistent regulation for stakeholders despite these changes to the jurisdictional reach of the Federal CWA. The SWPP is the result of a rigorous public process that has resulted in this effort to create a radically simple but effective approach to protect important state waters that are not WOTUS and therefore would not receive the protections of a WOTUS.

HB2691 (2021) directs ADEQ to develop the SWPP and establish a variety of regulations by December 31, 2022. ADEQ is meeting that goal in this publication of the register by amending the proposed Title 18, Chapter 11, Article 2 titled "Water Quality Standards for Non-WOTUS Protected Surface Waters." This specific rulemaking modifies Title 18, Chapter 9, Article 9 which contains the regulations for the permitting program.

Permitting

This proposed rulemaking includes modifications to A.A.C. Title 18, Chapter 9, Article 9. Large portions of the permitting provisions in HB2691 are intentionally self-executing. ADEQ does not intend to meaningfully modify the AZPDES permitting program in this initial SWPP rulemaking, although the need to do so may arise in later rulemakings.

There are currently no permitted discharges to non-WOTUS protected surface waters. The cost of building a separate permitting program will issue no permits in this initial adoption is prohibitive as ADEQ would not see environmental benefits from adopting entirely separate provisions nor would the agency reduce permitting costs.

- <u>7.</u> A reference to any study relevant to the rule that the agency reviewed and proposes either to rely on or not to rely on in its evaluation of or justification for the rule, where the public may obtain or review each study, all data underlying each study, and any analysis of each study and other supporting material: None
- 8. A showing of good cause why the rulemaking is necessary to promote a statewide interest if the rulemaking will diminish a previous grant of authority of a political subdivision of this state: Not applicable

9. The preliminary summary of the economic, small business, and consumer impact:

A. An identification of this rulemaking:

The rulemaking addressed by this Economic, Small Business, and Consumer Impact Statement (EIS) contains amendments made by ADEQ to 18 A.A.C. 9, Article 9, in order to adopt and revise Surface Water Quality Standards (WQS) within the State of Arizona. Additionally, this EIS addresses the adoption of 18 A.A.C 11, Article 2, which adopts WQS for non-WOTUS protected surface waters listed on the Protected Surface Waters List. The WQS in Article 2 do not apply generally and may only be applied to listed surface waters. The rulemakings are co-published in this version of the register.

B. <u>A brief summary of the EIS:</u>

Interested stakeholders should review ADEQ's Social, Environmental, and Economic cost/benefit analysis technical paper at azdeq.gov/node/8173 for more in-depth information. ADEQ's contractors have drafted the paper to meet the statutory EIS requirements. Additionally, ADEQ has also addressed this topic earlier in the preamble and provided specific information regarding the costs and benefits of this proposed rule.

The three case-study waterbodies ADEQ has used to in this rulemaking provide a contrasting and otherwise informative set of examples by which to illustrate various aspects of the economic impact of this rule.

McClure's quantitative analysis based on the data available for various cost and benefit factors incorporates a framework for addressing additional, qualitative aspects of protecting Arizona waterbodies. These qualitative components add context to the quantified portion of ADEQ's analysis and reflect potential elements of the cost/benefit analysis that could be refined during formal rulemaking. Including these qualitative discussions also helps illustrate certain limitations in the current modeling process.

The quantitative elements synthesize the following types of information:

1. Key characteristics of the three case-study waterbodies for which the cost/benefit process will be performed and which influence the application of various cost and benefit factors.

2. Quantified cost and benefit factors to apply to the waterbodies and to the households in the two types of analysis areas.

- 3. Factors for updating cost and benefit estimates derived (by others) in preceding years and for discounting streams of costs and benefits estimated to occur over a subsequent 20-year period.
- 4. Cost and benefit totals for each waterbody, and the ratio of benefits to costs.

Qualitative aspects of the analysis are summarized in the contractor report through a series of tables that discuss the broad implications of additional benefit and cost categories not quantified in the current model, Environmental Justice observations based on the quantified demographic data, and the sensitivity of model results to various quantified variables, including how results compared to certain Arizona-specific cost and benefit estimates in the EPA document.

C. Identification of the person who will be directly affected by, bear the costs of, or directly benefit from the rules:

The table below summarizes the persons who will be directly affected by, bear the costs of, or directly benefit from the rules in a manner consistent with the requirements of the EIS statute. Although the analysis completed by the consultant is more complete, this section may serve as a more accessible summary.

This rulemaking could affect ADEQ, political subdivisions, public and private entities who wish to obtain an AZPDES permit for a discharge to a listed surface water, public and private entities who may need to operate under and AZPDES general permit, and public and private laboratories that test for permit compliance. It will also create health, social, and economic benefits to the general public from access to clean water and protection of fish and wildlife.

The AZPDES permitting program is implemented by ADEQ through various general and individual permits. Individual permit holders can include public and private WWTPs, publicly owned treatment works (POTW), fish hatcheries, power plants, mines,

truck stops, drinking water plants, marinas, and Water Quality Assurance Revolving Fund (WQARF) remediation projects. Because the WQS adopted in Article 1 of this rulemaking are already in effect, and there are planned of current discharges to any waters listed in Article 2, ADEQ expects the costs of adopting this rulemaking to be extremely low. Nonetheless, based on the information above, ADEQ has identified the following list of potential affected parties:

State and local government agencies

ADEQ,

Agencies operating under individual or general AZPDES permits

Political subdivisions

Political subdivisions generally, public WWTPs, POTWs, public laboratories Non-WWTP government entities operating under AZPDES individual permits Non-WWTP government entities operating under AZPDES general permits

Privately-Owned Businesses

Private entities operating under general permits Private, non-WWTP individual permit holders Private WWTPs

Private laboratories

The General Public

D. Cost/Benefit analysis:

Cost and Benefit Factors	Class 1 - sky island stream - Cochise Stonghold Cyn.	Class 2 - isolated lake - Pintail Lake & marshes	Class 3 - unique waterbody - Quitobaquito Pond
Size (acres or acre-equivalents (Class 1))	21.76	65.00	0.50
Forested?	Yes	Yes	No
Costs and benefits over a 20-yr. period, discounted			
Costs			
404 permits	\$9,344	\$9,344	\$9,344
Mitigation			
ADEQ Admin	\$62,641	\$111,067	\$74,938
Total	\$71,985	\$120,411	\$84,282
Benefits, from willingness-to-pay (WTP) factors			
Local	\$5,509,181	\$7,840,675	\$3,151
Non-local	\$8,635,112	\$54,780,036	\$4,066
Total	\$14,144,293	\$62,620,711	\$7,216
Arizona component	\$14,982,646	\$68,136,424	\$8,045
Benefit/cost comparison			
Total benefits, Arizona	\$14,982,646	\$68,136,424	\$8,045
Total costs	\$71,985	\$120,411	\$84,282
Benefits/costs (first number in ratio: to 1)	208.1	565.9	0.10

The costs/benefits for each of these potentially affected parties is listed below. Use the following key to decipher the range of costs:

Minimal	Moderate	Substantial	Significant
\$10,000 or less	\$10,001 to \$1,000,000	\$1,000,001 or more	Cost/Burden cannot be calculated, but the Department expects it to be important to the analysis.

mber of surface waters identified as iding changes in 303(d) listings and on and enforcement of the SWQS sociated with future rulemakings transaction costs, and responsiveness to ding federally-promulgated SWQS. and federal law.	Decreased Revenue Minimal Minimal Significant	Increased Revenue Minimal
ding changes in 303(d) listings and on and enforcement of the SWQS sociated with future rulemakings transaction costs, and responsiveness to ding federally-promulgated SWQS.	Minimal	Minimal
sociated with future rulemakings transaction costs, and responsiveness to ding federally-promulgated SWQS.		Minimal
transaction costs, and responsiveness to ding federally-promulgated SWQS.	Significant	Minimal
ding federally-promulgated SWQS.		Minimal
and federal law.		
		Minimal
ssion to protect and enhance public health		Substantial
ect benefits of clean water dependent atdoor recreation, tourism, etc.)		Cumulatively sub- stantial
osts	Minimal	
ce with standards	Minimal	
h new WQS	Minimal	
ction of errors.		Moderate
accompanying costs.	Minimal	Widerate
ction of errors.		Significant
h new WOS.	Minimal	C
ction of errors.		Significant
h new SWQS.	Minimal	
tion of errors.		Significant
h new SWQS		
ction of errors.		Significant
with accompanying costs.	Minimal	
		Cumulatively sub- stantial
ction of errors.		Significant
h new SWQS.	Minimal, if any	
	ect benefits of clean water dependent ttdoor recreation, tourism, etc.) osts ice with standards h new WQS	ssion to protect and enhance public health ect benefits of clean water dependent itdoor recreation, tourism, etc.) osts Minimal ice with standards Minimal in new WQS Minimal ion and enforcement of water quality stan- ivisions with pretreatment programs. ction of errors. accompanying costs. th new WQS. ton of errors. h new SWQS. ition of errors. h new SWQS. ition of errors. h new SWQS ction of errors. h new SWQS ction of errors. h new SWQS ction of errors. h new SWQS ction of errors. with accompanying costs. with accompanying costs. Minimal ction of errors. Minimal ction of errors.

E. A general description of the probably impact on private and public employment in business agencies, and political subdivisions of this state directly affected by the rulemaking:

ADEQ estimates that this rulemaking will not have an impact on public or private employment. To the best of ADEQ's knowledge, the agency does not believe that any of the rule contained in this rulemaking package will result in a private or public entity needed an AZP-DES permit.

<u>F.</u> A statement of the probably impact of the rules on small business:

The agency uses the term "small business" consistent with A.R.S. § 41-1001(21) which defines a "small business" as a concern, including its affiliates, which is independently owned and operated, which is not dominant in its field and which employs fewer than one hundred full-time employees or which had gross annual receipts of less than four million dollars in its last fiscal year.

1. An identification of the small business subject to the rules.

Among the stakeholders listed above, many could meet the A.R.S. § 41-1001(21) definition of small business. For example, a WWTP

that would potentially discharge to a non-WOTUS protected surface water could be affected by this rule. In its current form, ADEQ cannot identify any small businesses that will be negatively affected by this rulemaking. Conversely, some small businesses may see some benefit in the clarification of WOTUS status of some waters and a clarification of what standards apply to those waters. Some recreational tourism related group may also see benefits from this rulemaking.

2. The administrative and other costs required for compliance with the rules:

Any potential compliance costs associated with this rulemaking would be based on the stakeholder involved. ADEQ's examination of those costs is addressed in the matrix above and the consultant's report.

3. <u>A description of the methods that the agency may use to reduce the impact on small businesses, as required in A.R.S. § 41-1035.</u>

In the event that a small business must acquire an AZPDES permit for a discharge to a non-WOTUS protected surface water, ADEQ has adopted water quality standards that allow ADEQ to establish variances, site-specific standards, or account for natural background pollutants when designing the permit.

4. The probable costs and benefits to private persons and consumers who are directly affected by the rules:

ADEQ's economic consultants prepared an executive summary which address the probable costs/benefits of and individual affected by these rules.

<u>G.</u> A statement of the probable effect on state revenues.

This rule should have a di minimus effect on state revenues.

H. A description of any less instructive or less costly alternative methods of achieving the purpose of this rulemaking:

ADEQ continually reviews and revises its WQS. These standards are adopted to protect public health or welfare and enhance the quality of water in the state. This means that WQS should, wherever attainable, provide water quality for the protection and propagation of fish, shellfish and wildlife and for recreation in and on the water and take into consideration the use and value of water for public water supplies, recreation in and on the water, and agricultural, industrial, and other purposes including navigation.

EPA will review ADEQ's Article 1 WQS to determine if they are consistent with the requirements of the CWA. If EPA determines that ADEQ's SWQS do not meet the requirements of the CWA, EPA will disapprove ADEQ's SWQS and promulgate federal standards. ADEQ has, therefore, developed the proposed WQS to comply with federal and state law, and to avoid federally promulgated WQS. Additionally, water quality criteria must be based on sound scientific rationale to protect the designated use, and not economic considerations. ADEQ is not aware of any less intrusive or less costly alternative methods that would meet ADEQ's legal obligations.

I. A description of any data on which the rule is based with a detailed explanation of how the data was obtained and why the data is acceptable data.

ADEQ recommends that interested stakeholder review ADEQ's Arizona Water Quality Standards technical paper for additional information about how data for calculating water quality standards is obtained. The paper can be accessed here: https://static.azdeq.gov/wqd/swpp/ wqs_tp.pdf.

For information regarding ADEQ's economic analysis, ADEQ recommends that interested stakeholder review the consultant's final report and ADEQ's technical paper describing it. ADEQ's technical paper is available here: https://static.azdeq.gov/wqd/swpp/ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ese_report.pdf.

<u>10. A description of any changes between the proposed rulemaking, to include supplemental notices, and the final rulemaking:</u>

ADEQ has modified this rule during the notice and comment process to provide additional clarity on the restrictions that must be present in any AZPDES permit for a discharge to a non-WOTUS protected surface water.

11. An agency's summary of the public or stakeholder comments made about the rulemaking and the agency response to the comments:

During this rulemaking commentors asked for a change in language that would provide more clarity about potential permitting actions. Specifically, a comment stating the following was received:

"Because ADEQ intends to utilize the existing AZPDES permit program (with some changes mandated by statute) to develop and issue point source discharge permits for discharges to non-WOTUS protected surface waters, the Department has not proposed new permitting regulations. Instead, it has proposed modifying A.A.C. R18-9-A903 to add language stating that AZPDES permits for discharges to non-WOTUS protected surface waters should not include conditions that violate the restrictions of A.R.S. § 49-255.04.

[Stakeholder] supports the intention of this change, but believes additional clarity is required regarding the scope of AZPDES permits for discharges to non-WOTUS protected surface waters. Specifically, some of the prohibitions listed in A.A.C. R18-9-A903 may not "violate the restrictions of" A.R.S. § 49-255.04, but they nevertheless are not appropriate for consideration when issuing an AZPDES permit for a discharge to a non-WOTUS protected surface water. Yet, as the language is proposed, it is possible that some of these prohibitions could be applied when issuing permits for discharges to non-WOTUS protected surface surface water."

ADEQ Response: ADEQ has modified the language in this rulemaking to address the stakeholder's concerns.

12. All agencies shall list other matters prescribed by statute applicable to the specific agency or to any specific rule or class of rules. Additionally, an agency subject to Council review under A.R.S. §§ 41-1052 and 41-1055 shall respond to the following questions:

None

a. Whether the rule requires a permit, whether a general permit is used and if not, the reasons why a general permit is not used:

ADEQ's regulations do allow for general permits for many different types of facilities, but not all facilities qualify for

general permits. In the case that a general permit does not apply this rule may require that entities that discharge to non-WOTUS protected surface water apply for an individual AZPDES permit. Requirements for discharge vary depending on the facility, so many of these discharges would not be able to receive coverage under a general permit.

b. Whether a federal law is applicable to the subject of the rule, whether the rule is more stringent than federal law and if so, citation to the statutory authority to exceed the requirements of federal law:

The Clean Water Act and implementing regulations adopted by EPA apply to the subject of this rule, as described in Section 5 above. Article 2 of this rulemaking establishes water quality standards that are applicable to surface waters that are not protected under the Clean Water Act. These standards are not more stringent than those the standards implemented by federal law, but they apply to waters that may not be protected under federal law.

ADEQ was given explicit statutory authority to develop a program to protect these surface waters by HB2691(2021). That bill is codified at A.R.S. §§ 49-202.01, 49-221, 49-255.04, and 49-255.05.

- c. Whether a person submitted an analysis to the agency that compares the rule's impact of the competitiveness of business in this state to the impact on business in other states: No such analysis was submitted.
- **<u>13.</u>** <u>A list of any incorporated by reference material as specified in A.R.S. § 41-1028 and its location in the rules:</u> No such material shall be incorporated by reference.
- 14. Whether the rule was previously made, amended or repealed as an emergency rule. If so, cite the notice published in the *Register* as specified in R1-1-409(A). Also, the agency shall state where the text was changed between the emergency and the final rulemaking packages: Not applicable
- 15. The full text of the rules follows:

Prohibitions

TITLE 18. ENVIRONMENTAL QUALITY

CHAPTER 9. DEPARTMENT OF ENVIRONMENTAL QUALITY WATER POLLUTION CONTROL

ARTICLE 9. ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM

PART A. GENERAL REQUIREMENTS

Section R18-9-A903.

ARTICLE 9. ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM

PART A. GENERAL REQUIRMENTS

R18-9-A903. Prohibitions

A. The Director shall not issue a permit for a discharge to a WOTUS:

- 1. If the conditions of the permit do not provide for compliance with the applicable requirements of A.R.S. Title 49, Chapter 2, Article 3.1; 18 A.A.C. 9, Articles 9 and 10; and the Clean Water Act;
- 2. Before resolution of an EPA objection to a draft or proposed permit under R18-9-A908(C);
- 3. If the imposition of conditions cannot ensure compliance with the applicable water quality requirements from Arizona or an affected state or tribe, or a federally promulgated water quality standard under 40 CFR 131.31;
- 4. If in the judgment of the Secretary of the U.S. Army, acting through the Chief of Engineers, the discharge will substantially impair anchorage and navigation in or on any navigable water;
- 5. For the discharge of any radiological, chemical, or biological warfare agent, or high-level radioactive waste;
- 6. For any discharge inconsistent with a plan or plan amendment approved under section 208(b) of the Clean Water Act (33 U.S.C. 1288); and
- 7. To a new source or a new discharger if the discharge from its construction or operation will cause or contribute to the violation of a water quality standard. The owner or operator of a new source or new discharger proposing to discharge into a water segment that does not meet water quality standards or is not expected to meet those standards even after the application of the effluent limitations required under R18-9-A905(A)(8), and for which the Department has performed a wasteload allocation for the proposed discharge, shall demonstrate before the close of the public comment period that:
 - a. There are sufficient remaining wasteload allocations to allow for the discharge, and
 - b. The existing dischargers into the segment are subject to schedules of compliance designed to bring the segment into compliance with water quality standards.
- **<u>B.</u>** The Director shall not issue a permit for a discharge to a non-WOTUS protected surface water:
 - 1. If the permit or the conditions of the permit violate the restrictions listed in A.R.S. § 49-255.04; and
 - 2. If the conditions of the permit do not provide for compliance with 18 A.A.C. 11, Article 2 and the applicable requirements of 18 A.A.C. 9, Article 9.

NOTICE OF FINAL RULEMAKING

TITLE 18. ENVIRONMENTAL QUALITY

CHAPTER 11. DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY STANDARDS

[R22-326]

PREAMBLE

<u>1.</u>	Article. Part. or Section Affected (as applicable)	Rulemaking Action Amend
		Amend
	Appendix A	
	Table 1	Amend
	Appendix B	Amend
	Article 2	New Article
	R18-11-201	New Section
	R18-11-202	New Section
	R18-11-203	New Section
	R18-11-204	New Section
	R18-11-205	New Section
	R18-11-206	New Section
	R18-11-207	New Section
	R18-11-208	New Section
	R18-11-209	New Section
	R18-11-210	New Section
	R18-11-211	New Section
	R18-11-212	New Section
	R18-11-213	New Section
	R18-11-214	New Section
	R18-11-215	New Section
	R18-11-216	New Section
	R18-11-217	New Section

2. Citations to the agency's statutory rulemaking authority to include the authorizing statute (general) and the implementing statute (specific): Authorizing statute:A.R.S. §§49-202(A), 49-203(A)(1)

Implementing statute: A.R.S. §§ 49-221, 49-222

3. The effective date of the rule: February 20, 2023

4. <u>Citations to all related notices published in the Register as specified in R1-1-409(A) that pertain to the record of the proposed rule:</u>

Notice of Rulemaking Docket Opening: 28 A.A.R. 125, January 7, 2022. Notice of Proposed Rulemaking: 28 A.A.R. 2329, September 16, 2022.

5. <u>The agency's contact person who can answer questions about the rulemaking:</u>

Name: Jonathan Quinsey					
Address:	Department of Environmental Quality 1110 W. Washington St. Phoenix, AZ 85007				
Telephone:	(602) 771-8193				
Email:	Quinsey.Jonathan@azdeq.gov or PSWL@azdeq.gov				
Website:	http://www.azdeq.gov/swpp				

6. An agency's justification and reason why a rule should be made, amended, repealed or renumbered, to include an explanation about the rulemaking:

<u>Background</u>

Historically, a broad spectrum of Arizona's lakes, ponds, streams and wetlands have been protected under the Federal Clean Water Act (CWA). This protection includes regulating the discharge of pollutants to surface waters via the Arizona Pollution Discharge Elimination System (AZPDES). AZPDES has only been implemented to regulate discharges into "waters of the United States" (WOTUS).

The CWA does not define WOTUS, instead, it provides discretion for the U.S. Environmental Protection Agency (EPA) and the U.S. Army Corps of Engineers (USACE) to define WOTUS in their rules. Courts have heard a number of cases and issued rulings that effectively modify the extent of federal jurisdiction, and different Federal administrations have attempted to change the definition as well. Arizona leadership created the Surface Water Protection Program (SWPP) to provide clear and consistent regulation

for stakeholders despite these changes to the jurisdictional reach of the Federal CWA. The SWPP is the result of a rigorous public process that has resulted in this effort to create a radically simple but effective approach to protect important state waters that are not WOTUS and therefore would not receive the protections of a WOTUS.

House Bill 2691 (2021) directs ADEQ to develop the SWPP and establish a variety of regulations by December 31, 2022. ADEQ is meeting that goal in this rulemaking by adopting Title 18, Chapter 11, Article 2 titled "Water Quality Standards for Non-WOTUS Protected Surface Waters." As part of the rulemaking to adopt standards for non-WOTUS protected surface waters, ADEQ must also modify the portion of the Arizona Administrative Code (A.A.C) that houses the Arizona-specific rules to implement Federal CWA requirements in the State. This rulemaking modifies Title 18, Chapter 11, Article 1 to conform with the requirements of the statute and to ensure that the Federal and State programs can co-exist. Additionally, this edition of the Arizona Administrative Register also includes a separate action which modifies Title 18, Chapter 9, Article 9 which contains the permitting program that implements the standards in Title 18, Chapter 11, Articles 1 and 2.

The scope of the SWPP rulemaking has changed since the initial legislation was passed. The original intent of the SWPP was to fill the gap between the Pre-2015 WOTUS definition and the Navigable Waters Protection Rule (NWPR). In August of 2021, the NWPR was vacated, removing the gap in regulation that the SWPP program was originally intended to fill. Still, ADEQ cannot overstate the importance of building a state-level program to protect surface waters and provide certainty to stakeholders about the future of surface waters in Arizona. At the time of this submission there is more change to the WOTUS definition on the horizon. The EPA is in the process of working on another new WOTUS rule through the regulatory process, and the Supreme Court has granted certiorari on a case that could impact how ADEQ implements the existing pre-2015 rule. ADEQ wants to be clear in this preamble that both of those actions could have an impact on Arizona's regulatory programs for surface water, as well as the rules adopted in this rulemaking.

<u>Rulemaking Summary</u>

This Notice of Final Rulemaking proposes to protect 35 non-WOTUS waters, 33 of which were previously listed on Appendix B of Article 1. Additionally, it adopts water quality-based standards that apply to those waters. The SWPP creates a dual-pronged approach for regulating surface water in Arizona. Waters that are considered Waters of the United States (WOTUS) will be regulated under the CWA program that is codified in Title 18, Chapter 11, Article 1 of the Arizona Administrative Code. Surface waters that are not WOTUS, but qualify to be listed on the Protected Surface Waters List (PSWL) as non-WOTUS protected surface waters, will be regulated by an Arizona-specific program established by ADEQ in this rulemaking in Title 18, Chapter 11, Article 2.

These two programs will exist in tandem, but a surface water reach will only be regulated by either the Federal program or the SWPP. There will be no joint jurisdiction of surface waters. During this initial SWPP rulemaking, ADEQ is striving to keep the two programs as similar as possible to provide consistency and clarity to permittees while the legal reach of the Federal CWA is in

flux. The similarities between the two programs will ensure the original goal of the SWPP is met, and an ever-changing Federal definition of WOTUS will not result in significant compliance issues in Arizona as waters change between being regulated by the Federal program or the State program.

This NFRM is divided into two sections. The first section addresses the changes to Article 1, or the Federal portion of the program that is subject to EPA review. The second section explains the adoption of the new state program.

Modifications to the CWA Program - Article 1

Section 303(c) of the CWA requires that all states adopt and maintain water quality standards. Adopting water quality standards allows the state to assess the health of Arizona waters and provides a legal basis for controlling pollutants entering a protected surface water. Arizona Revised Statutes (A.R.S.) § 49-222 provides the state-level authorization for ADEQ to adopt those water quality standards.

ADEQ uses the adopted water quality standards as the backbone of Arizona's implementation of the federal permitting program implemented by ADEQ that's called AZPDES. The AZPDES program provides permits for discharges to WOTUS that limit the additions of pollutants to those surface waters using five general types of provisions:

- 1. Technology-based effluent limitations;
- 2. Water-quality-based effluent limitations;
- 3. Monitoring and reporting requirements;
- 4. "Boilerplate" conditions;
- 5. Special conditions, for example, site-specific standards that are applicable.

Designated Uses

Arizona's water quality standards under the CWA designate specific uses and then establish standards to protect those uses. The designated uses of a surface water are the most fundamental articulation of the use attainment goal in Arizona's aquatic or human environment. These adopted uses express goals for the water, such as supporting aquatic life and human activities. The concept of protected surface waters having designated uses is central to establishing appropriate water quality standards. Arizona's "menu" of designated uses listed at R18-11-104(B) provides for the protection and propagation of fish, shellfish, and wildlife and for recreation in and on the water. The current ADEQ-adopted designated uses are:

- 1. Domestic water source (DWS),
- 2. Fish consumption (FC),
- 3. Full body contact recreation (FBC),
- 4. Partial body contact recreation (PBC),
- 5. Aquatic and wildlife (cold water) (A&Wc),
- 6. Aquatic and wildlife (warm water) (A&Ww),

- 7. Aquatic and wildlife (effluent-dependent water) (A&Wedw),
- 8. Aquatic and wildlife (ephemeral water) (A&We),
- 9. Agricultural irrigation (AgI), and
- 10. Agricultural livestock watering (AgL).

ADEQ's four subcategories of aquatic and wildlife designated uses are meant to protect fish, shellfish, plants and wildlife (A&Wc, A&Ww, A&Wedw, and A&We). The A&We use is assigned based on the flow characteristics of the water itself. The A&Wedw use is assigned for waters that receive a permitted discharge. The A&Wc and A&Ww are assigned based on the relative elevation of the water, as well as the flow regime of the water. Intermittent and perennial protected surface waters located above 5000' are assigned the A&Wc use.

ADEQ protects water quality for "recreation in and on the water" with the full-body contact recreation (FBC) and partial body contact recreation (PBC) designated uses. These designated uses are intended to maintain and protect water quality for swimming, water-skiing, boating, wading, fishing, and other recreational uses. The FBC designated use is intended to protect public health when people engage in recreational activities that may involve full submergence in the water and likely ingestion of the water. The PBC designated use is intended to protect public health when people engage in water-based recreational activities where full submergence and ingestion of the water are unlikely such as wading or boating. The FC designated use is intended to protect human health when fish or other aquatic organisms are taken from a surface water for human consumption.

ADEQ has considered the use and value of surface waters for public water supply by establishing the domestic water source (DWS) designated use. The DWS designated use applies to a surface water that is used as a raw water source for drinking water supply. The water quality criteria for the DWS designated use were developed assuming that treatment is necessary to yield drinking water suitable for human consumption. The DWS designated use applies to a surface water that has a water intake located along it which uses the surface water as a raw water source.

Finally, ADEQ recognizes the use and value of surface waters for agricultural purposes by establishing the agricultural irrigation (AgI) and agricultural livestock watering (AgL) designated uses. These uses are intended to maintain and protect surface water quality so water can be used for crop irrigation or to water cattle and other livestock.

Water Quality Criteria

The term "criteria" is used when referencing water quality standards in a few different ways. The term is a reference to a specific part of a state water quality standard – that is, a water quality standard is composed of designated uses and the water quality criteria necessary to protect those uses. When Arizona adopts specific criteria they become the applicable regulatory requirements for protected waters. Criteria to protect designated uses in Arizona are expressed in three ways:

- 1. Chemical-specific concentrations;
- 2. Toxicity levels; or
- 3. Narrative statements representing a quality of water that supports a particular use of a surface water.

Chemical-Specific and Toxicity Criteria

The most direct way ADEQ protects a listed designated use is by adopting numeric surface water standards that establish specific limits on the concentrations of pollutants that will protect and maintain that use. ADEQ adopts criteria recommendations for pollutants when they are listed by the EPA as either a toxic pollutant, priority pollutant, or other type of regulated substance. When EPA lists a pollutant, they also publish an analytical test methodology that ADEQ can use to set numeric criteria that are appropriate for Arizona. These individual pollutant parameters are listed in A.A.C. Title 18, Chapter 11, Article 1, Appendix A, and R18-11-109. In adopting numeric water quality standards, ADEQ considers:

- 1. The effect of unique local water quality characteristics on the toxicity of pollutants;
- 2. The varying sensitivities of local affected aquatic populations to these pollutants; and
- 3. The extent to which the stream's natural flow is perennial, intermittent, effluent-dependent, or ephemeral.

Arizona Water Quality Standards Current State

ADEQ revises existing water quality standards under a timetable established by the CWA. The CWA requires the agency to review A.A.C. Title 18, Chapter 11, Article 1, once every three years. This process is called the triennial review. ADEQ makes modifications to Arizona's WOTUS water quality standards through the State's rulemaking process, however, those changes don't take effect until EPA approval is received. EPA is required to review any modifications ADEQ makes to Article 1 water quality standards and approves the standards that meet the requirements of the CWA.

The EPA must approve or disapprove ADEQ's standards within a set amount of time established in the CWA and implementing regulations. If EPA approves ADEQ's submitted standards, the EPA must notify ADEQ within 60 days of receiving the submittal of Arizona's standards, rules, and supporting documentation. If EPA disapproves of Arizona's surface water quality standards, it must do so within 90 days of receiving the complete submittal of the surface water quality standards rules. If the Regional Administrator disapproves a water quality standard, EPA must notify ADEQ, specifying:

- 1. Why the state standards are not in compliance with the CWA, and
- 2. The revisions ADEQ must make to its standards to assure compliance with the CWA before EPA could fully approve the standards. Under § 303(c)(4) of the CWA, EPA must federally promulgate water quality standards no later than 90 days after the date of notice of the disapproval described above if ADEQ does not adopt the necessary revisions as specified by EPA within that time.

ADEQ completed its obligation and submitted the regulatory modifications made during the 2019 triennial review to the EPA on November 19, 2019 (2019 TR). During the review process, EPA signaled to ADEQ that a non-trivial number of individual pollutant parameters developed by ADEQ and listed in A.A.C. Title 18, Chapter 11, Article 1, Appendix A, Table 1 for certain designated uses would be disapproved as they did not meet the requirements of the CWA.

ADEQ submitted a request to formally withdraw portions of the 2019 Triennial Review on December 21, 2021. Specifically, ADEQ withdrew modifications of the individual pollutant parameters established in Appendix A, Table 1 for the domestic water source, fish consumption, full-body contact, and partial body contact designated uses from review. The EPA signaled that the Federal government could not approve these standards for individual pollutants due to incorrect assumptions ADEQ made during their development. ADEQ is committed to resolving those issues before submitting the next triennial review package to the EPA.

As part of the EPA's concurrence with ADEQ's partial withdrawal of the 2019 TR, EPA took additional action to approve some changes to water quality standards (WQS) in the 2019 TR that ADEQ did not withdraw. EPA approved the revisions to the definitions, antidegradation, mixing zones, and variance standards adopted in 2019 on January 24, 2022. The EPA also approved portions of ADEQ's submittal that made minor formatting revisions and other corrections that were non-substantive.

The EPA has not acted in full on the changes to the 2019 TR individual pollutant parameters in Appendix A, Table 1 for the aquatic and wildlife cold, aquatic and wildlife warm, aquatic and wildlife ephemeral, aquatic and wildlife effluent-dependent water, agricultural irrigation, and agricultural livestock watering designated uses. EPA has communicated to ADEQ that they are waiting on the United States Fish and Wildlife Service to complete a consultation as to whether ADEQ's new standards are protective enough of Arizona's threatened and endangered species. EPA has approved some water quality standards submitted during the 2019 TR but not all.

The above facts have left Arizona with a patchwork of effective standards to apply to WOTUS, as illustrated below. Specifically:

- 1. For the domestic water source, fish consumption, full-body contact, and partial body contact designated uses, the individual pollutant parameters from Arizona's 2016 Triennial Review will apply until modified and approved by the EPA in an upcoming Arizona action.
- 2. For all aquatic and wildlife uses and agricultural irrigation use, the individual pollutant parameters from Arizona's 2016 triennial review are currently effective until EPA approves the modifications made during the 2019 TR.
- 3. Narrative standards and changes made to the definitions, antidegradation, mixing zone, and variance portions of Arizona's water quality standards in the 2019 TR are currently effective.

Effective Version of Recently Changed Standards For WOTUS						
Standard	4/1/2022	The version of Standards Expected to be Effec- tive when SWPP is Adopted				
Individual Parameters for Domestic Water Source Use	2016	2016				
Individual Parameters for Fish Consumption	2016	2016				
Individual Parameters for Full-Body Contact	2016	2016				
Individual Parameters for Partial Body Contact	2016	2016				
Individual Parameters for Aquatic and Wildlife Uses	2016	2019*				
Individual Parameters for Agricultural Irrigation Use	2016	2019*				
Individual Parameters for Agricultural Livestock Use	2016	2019*				
R18-11-101. Definitions	2019	2019				
R18-11-107. Antidegradation	2019	2019				
R18-11-114. Mixing Zones	2019	2019				
R18-11-122. Variances	2019	2019				

*Dependent on USFWS review and EPA approval.

Arizona Water Quality Standards after this Rulemaking

This rulemaking revises Article 1 to align the individual criteria for pollutants that are published in the Arizona Administrative Code with the 2016 EPA-approved criteria. The 2019 water quality criteria that ADEQ is modifying were never approved and never took effect in the state. The tables below explicate the changes to the Arizona Administrative Code that will be made to align ADEQ's Article 1 rules with currently approved WQS.

Drinking Water Source Standards Alignment:

Parameter	CAS NUM	EPA Approved 2016 DWS standard (µg/L)	Withdrawn 2019 DWS standard (µg/L)
Acenaphthylene	208968	NA	420
Acrylonitrile	107131	0.06	0.006
Bis(2-chloroethoxy) methane	111911	NA	21
Bis(chloromethyl) ether	542881	NA	0.00015
Chloroethane	75003	NA	280
Chloronaphthalene beta	91587	560	2240
Chromium III	16065831	NA	10500
Dibenz (ah) anthracene	53703	0.005	0.350
Dibromoethane, 1,2-	106934	0.05	0.02
Dinitro-o-cresol, 4,6-	534521	28.0	0.6
Di-n-octyl phthalate	117840	2800	70
Endrin Aldehyde	7421933	NA	2
Guthion	86500	NA	21
Hexachloroethane	67721	2.5	0.9
Indeno (1,2,3 cd) pyrene	193395	0.05	0.4
Nickel	7440020	140 T	210 T
Nitrobenzene	98953	3.5	14
Nitrosodibutylamine	924163	NA	0.006
Nitrosodiethylamine	55185	NA	0.0002
N-nitrosodi-n-phenylamine	86306	0.005	7.1
N-nitrosodi-n-propylamine	621647	7.1	0.005
N-nitrosopyrrolidine	930552	NA	0.02
Parathion	56382	NA	42
Pentachlorobenzene	608935	NA	6
Tetrachlorobenzene, 1,2,4,5-	95943	NA	2.1
Trichlorophenol, 2,4,5-	95954	NA	700

Fish Consumption (FC) Alignment:

Parameter	CAS NUM	EPA Approved 2016 FC standard	Withdrawn 2019 FC standard
	CAS NUM	(µg/L)	(µg/L)
Benzene	71432	140	114
Benzo (a) pyrene	50328	0.02	0.1
Cadmium	7440439	84 T	6 T
Carbon tetrachloride	56235	2	3
Chloroform	67663	470	2133
Chloronaphthalene beta	91587	317	1267

Chlorpyrifos	2921882	N/A	1.0
Cyanide (as free cyanide)	57125	16,000 T	504 T
DDT and break down products	72548	0.0002	0.0003
Dichloromethane	75092	593	2222
Dinitro o cresol 4,6	534521	582	12
Dinoseb	88857	N/A	12
Diquat	85007	N/A	176
Endothall	145733	N/A	16000
Endrin Aldehyde	7421933	N/A	0.06
Guthion	86500	N/A	92
Hexochlorocyclohexane gamma	58999	1.8	5
Hexachlorocyclopentadiene	77474	580	74
Hexachloroethane	67721	3.3	1
Indeno (1,2,3cd) pyrene	193395	0.5	1
Malathion	121755	N/A	103
Mirex	2385855	N/A	0.0002
Nickel	7440020	4,600 T	511 T
Nitrobenzene	98953	138	554
Nitrosodibutylamine	924163	N/A	0.2
Nitrosodiethylamine	55185	N/A	0.1
Nitrosopyrrolidine	930552	N/A	34
Parathion	56382	N/A	16
Pentachlorophenol	87865	1,000	111
Permethrin	52645531	N/A	77
Picloram	26952205	2,710	1806
Tetrachlorodibenzopdioxin 2,3,7,8	1746016	5.00E-09	0.0000001
Tetrachloroethane 1,1,2,2	79345	4	32000
Tetrachloroethylene	127184	261	62
Thallium	7440280	7.2 T	0.07 T
Toluene	108883	201,000	11963
Tributyltin	688733	N/A	0.08
Trichloroethane 1,1,1	71556	428,571	285714
Trichloroethylene	79016	9	8

Full Body Contact (FBC) Alignment:

Parameter	CAS NUM	EPA Approved 2016 FBC standard (µg/L)	Withdrawn 2019 FBC standard (µg/L)
Acenaphthylene	208968	NA	56000
Acrylonitrile	107131	3	9
Aldrin	309002	0.08	0.27
Barium	7440393	98,000 T	186667 T

Benzene	71432	93	133
Benzfluoranthene 3,4	205992	1.9	47.0
Benzidine	92875	0.01	0.02
Benzo (a) anthracene	56553	0.2	47.0
Benzo (a) pyrene	50328	0.2	47.0
Benzo (k) fluoranthene	207089	1.9	47.0
Bis(2-chloroethoxy) methane	111911	NA	2800
Bis(chloroethyl) ether	111444	1	4.0
Bis(Chloromethyl) ether	542881	NA	0.02
Bromoform	75252	180	591
Cadmium	7440439	700 T	467 T
Carbon tetrachloride	56235	11	67
Chlordane	57749	4	13
Chlorine (total residual)	7782505	4000	93333
Chloroethane	75003	NA	93333
Chloroform	67663	230	9333
Chloronaphthalene beta	91587	74667	298667
Chromium (Total)	7440473	NA	100 T
Chrysene	218019	19	0.6
Cyanide (as free cyanide)	57125	18,667 T	588 T
DDT and break down products	72548	4	14
Di(2ethylhexyl) phthalate	117817	100	333
Di(2-ethylhexyl)adipate	103231	560000	3889
Dibenz (ah) anthracene	53703	1.9	47.0
Dibromoethane 1,2	106934	8400	2
Dichlorobenzene, 1,4-	106467	373333	373
Dichlorobenzidine 3.3'	91941	3	10
Dichloroethylene cis 1,2	156592	70	1867
Dichloromethane	75092	190	2333
Dichloropropene 1,3	542756	420	93
Dieldrin	60571	0.09	0.3
Dinitro o cresol 4,6	534521	NA	75
Dinitrotoluene 2.6	606202	2	7
Di-n-octyl phthalate	117840	373333	9333
Diphenylhydrazine 1,2	122667	1.8	6
Endrin	72208	280	1120
Endrin Aldehyde	7421933	NA	1120
Guthion	86500	NA	2800
Heptachlor	76448	0.4	1
Heptachlor epoxide	1024573	0.2	0.5
Hexachlorobenzene	118741	1	3
Hexachlorobutadiene	87683	18	60
Hexachlorocyclohexane alpha	319846	0.22	0.7
Hexachlorocyclohexane beta	319857	0.78	3
Hexachlorocyclopentadiene	77474	9800	11200
Hexachloroethane	67721	100	117
Hexochlorocyclohexane gamma	58999	280	700
Indeno (1,2,3cd) pyrene	193395	1.9	47
Isophorone	78591	1500.0	4912
Methoxychlor	72435	4667	18667
N nitrosodi n propylamine	621647	290	0.7

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Nitrobenzene	98953	467	1867
Nitrosodibutylamine	924163	NA	0.9
Nitrosodiethylamine	55185	NA	0.03
Nitrosopyrrolidine	930552	NA	2
Nnitrosodimethylamine	62759	0.03	0.09
Nnitrosodiphenylamine	86306	0.2	952
Parathion	56382	NA	5600
Pentachlorobenzene	608935	NA	747
Polychlorinatedbiphenyls	1336363	19	2
Tetrachlorobenzene, 1,2,4,5-	95943	NA	280
Tetrachlorodibenzopdioxin 2,3,7,8	1746016	0.00003	0.0007
Tetrachloroethane 1,1,2,2	79345	7	23
Tetrachloroethylene	127184	9333	2222
Thallium	7440280	75 T	9 T
Toluene	108883	280000	149333
Toxaphene	8001352	1.3	4
Tributyltin	688733	NA	280
Trichloroethane 1,1,2	79005	25	82
Trichloroethylene	79016	280000	101
Trichlorophenol 2,4,6	88062	130	424
Trichlorophenol, 2,4,5-	95954	NA	93333
Trichlorophenoxy) propionic acid 2(2,4,5	93721	7467	29867
Vinyl chloride	75014	2	6

Partial Body Contact (PBC) Alignment:

Parameter	CAS NUM	EPA Approved 2016 PBC standard (µg/L)	Withdrawn 2019 PBC standard (µg/L)
Acenaphthylene	208968	N/A	56000
Barium	7440393	98,000 T	186667 T
Benzo (a) anthracene	56553	0.2	280
Benzfluoranthene 3,4	205992	1.9	280
Benzo (a) pyrene	50328	0.2	280
Benzo (k) fluoranthene	207089	1.9	280
Bis(2-chloroethoxy) methane	111911	N/A	2800
Bis(chloroethyl) ether	111444	1	4
Cadmium	7440439	700 T	467 T
Carbon tetrachloride	56235	980	3733
Chlorine (total residual)	7782505	4000	93333
Chloroethane	75003	N/A	93333
Chloronaphthalene beta	91587	74667	298667
Chromium (Total)	7440473	N/A	100 T
Chrysene	218019	19	0.6
Cyanide	57125	18,667 T	588 T

Dibenz (ah) anthracene	53703	1.9	280
Dichlorobenzidine 3,3'	91941	3	10
Dichloroethylene cis 1,2	156592	70	1867
Dichloromethane	75092	56000	5600
Dinitro o cresol 4,6	534521	3.733	75
Dinitrotoluene 2,6	606202	3733	280
Di-n-octyl phthalate	117840	373333	9333
Diphenylhydrazine 1,2	122667	1.8	6
Endrin Aldehyde	7421933	N/A	280
Guthion	86500	N/A	2800
Hexochlorocyclohexane gamma	58999	280	700
Hexachlorocyclopentadiene	77474	9800	11200
Hexachloroethane	67721	933	653
Indeno (1,2,3cd) pyrene	193395	1.9	47
Mirex	2385855	187	0.26
Nitrobenzene	98953	467	1867
Nnitrosodimethylamine	62759	0.03	0.09
N nitrosodi n propylamine	621647	290	0.7
Nnitrosodiphenylamine	86306	88667	952
Parathion	56382	N/A	5600
Pentachlorobenzene	608935	N/A	747
Pentachlorophenol	87865	28000	4667
1,2,4,5-Tetrachlorobenzene	95943	N/A	280
Tetrachloroethane 1,1,2,2	79345	56000	186667
Tetrachloroethylene	127184	9333	5600
Thallium	7440280	75 T	9 T
Toluene	108883	280000	149333
Toxaphene	8001352	933	1867
Tributyltin		N/A	280
Trichloroethylene	79016	280	467
2,4,5-Trichlorophenol	95954	N/A	93333
Trichlorophenoxy) propionic acid 2(2,4,5	93721	7467	29867

Aquatic and Wildlife Standards After the SWPP Rulemaking

In this rulemaking ADEQ has retained some other standards from the 2019 TR that have not yet been approved by the EPA. Specifically, the individual pollutant parameters for Aquatic and Wildlife and Agricultural uses. EPA has communicated to ADEQ that US Fish and Wildlife Service is still doing an Endangered Species Act (ESA) analysis on those changes. EPA originally had expected that review to be finished sometime in the summer.

The EPA has not completed their review by the time of publication of this rulemaking. ADEQ must complete the SWPP rulemaking by the end of the year. ADEQ has reviewed standards not yet reviewed by the EPA and has re-promulgated the most scientifically viable standards to are protect the uses they are associated with. ADEQ's actions in this regard will help insulate AZPDES permittees from any potential ESA liability. ADEQ is working with EPA to maintain the aquatic and wildlife criteria that the agency set during the 2019 TR. This rulemaking makes no modifications to those standards. The agency will continue to follow up with stakeholders regarding standards throughout the rulemaking process.

Appendix B Changes

ADEQ has invested considerable resources in making WOTUS evaluations during this rulemaking. For a water to be protected as an Article 2 water under the state program adopted in this rulemaking, ADEQ must make a determination that the water is not protected under our federal program in Article 1.

ADEQ's work product beyond this functional rulemaking includes developing a brand-new internal database that aggregates all the data ADEQ has gathered that can be used for WOTUS evaluations and producing non-WOTUS reports for each state-protected water that have been published to our website alongside the draft rules. Each one of these non-WOTUS reports have been informally reviewed by the EPA before the publication of this NFRM. EPA has taken no affirmative or opposing action with regard to the non-WOTUS reports ADEQ has published and has simply responded to most non-WOTUS reports with a "no comment" designation. After the SWPP rulemaking is complete all Appendix B changes, which includes removing non-WOTUS waters, will be submitted to the EPA for final action pursuant to EPA's authorities under CWA sections 303(c) and (d).

Stakeholders can review all associated non-WOTUS reports at azdeq.gov/SWPP. This rulemaking removes the following waters and their associated designated uses from Appendix B:

				Aquatic and Wildlife			Human Health			Agricultural			
Water	Surface	rface Segment Description and Location (Latitude	Lake			A&Wed							
shed	Waters	and Longitudes are in NAD 83)	Category	A&Wc	A&Ww	A&We	w	FBC	PBC	DWS	FC	Agl	AgL
CG	Cottonwood	Headwaters to confluence with unnamed		A&Wc				FBC			FC	1	AgL
	Creek	tributary at 35°20'46"/113°35'31"											
CG	Cottonwood	Below confluence with unnamed tributary to			A&Ww			FBC			FC		AgL
	Creek	confluence with Truxton Wash											Ŭ
CG	Red Lake	35°40'03"/114°04'07"			A&Ww			FBC			FC		AgL
CG	Rock Canyon	Headwaters to confluence with Truxton Wash			///////	A&We		100	PBC		10		/ igc
CG	Truxton Wash	Headwaters to Red Lake				A&We			PBC			1	
CG	Wright Canyon	Headwaters to confluence with unnamed		A&Wc				FBC			FC		AgL
	• •							. 20					/ .g_
CG	Creek Wright Canyon	tributary at 35°20'48"/113°30'40" Below confluence with unnamed tributary to			A&Ww			FBC			FC		AgL
00					Aavvw			T DC			10		AyL
~	Creek	confluence with Truxton Wash											
CL	Wellton Ponds	32°40'32"/114°00'26"			A&Ww	-		FBC			FC		
CL	Yuma Proving	32°50'58"/114°26'14"			A&Ww			FBC			FC		
	Ground Pond												
LC	Boot Lake	34°58'54"/111°20'11"	Igneous	A&Wc				FBC			FC		AgL
LC	Camillo Tank	34°55'03"/111°22'40"	Igneous		A&Ww			FBC			FC		AgL
LC	Dry Lake	34°38'02"/110°23'40"	EDW				A&Wed		PBC				
	(EDW)						w						
LC	Little Ortega	34°22'47"/109°40'06"	Igneous	A&Wc				FBC			FC		
	Lake		-										
LC	Mineral Creek	Headwaters to Little Ortega Lake		A&Wc				FBC			FC	Agl	AgL
LC	Mormon Lake	34°56'38"/111°27'25"	Shallow	A&Wc				FBC		DWS	FC	Agl	-
LC	Phoenix Park	Headwaters to Dry Lake				A&We			PBC				
	Wash												
LC	Potato Lake	35°03'15"/111°24'13"	Igneous	A&Wc				FBC			FC		AgL
LC	Pratt Lake	34°01'32"/109°04'18"	Sedimentary	A&Wc				FBC			FC		∧g∟
													<u> </u>
LC	Sponseller	34°14'09"/109°50'45"	Igneous	A&Wc				FBC			FC		AgL
	Lake												L
		Black Mesa Ranger Station WWTP outfall at											
LC	Unnamed	34°23'35"/110°33'36" to confluence of					A&Wed		PBC				
	Wash (EDW)	Oklahoma Flat Draw					w						1
LC	Vail Lake	35°05'23"/111°30'46"	Igneous	A&Wc			**	FBC			FC		AgL
LC	Water Canyon	34°00'16"/109°20'05"	Igneous		A&Ww			FBC			FC	Agl	AgL
	Reservoir		5										Ĭ
MG	Alvord Park	35th Avenue & Baseline Road. Phoenix at	Urban		A&Ww				PBC		FC	-	
		,,,	Jibuit		/				1.50				l
MC	Lake Densell Derk	33°22'23"/ 112°08'20"	Linhan		A 9\A/				DDC		50	<u> </u>	
MG	Bonsall Park	59th Avenue & Bethany Home Road, Phoenix at	Urban		A&Ww				PBC		FC		l
	Lake	33°31'24"/112°11'08"											<u> </u>

MG	Canal Park	College Avenue & Curry Road, Tempe at	Urban		A&Ww			PBC		FC		
WG			Ulball		Adviv			FBC		10		
	Lake	33°26'54"/ 111°56'19"	11.1		A 014/			000		50	A . 1	
MG	Cortez Park	35th Avenue & Dunlap, Glendale at 33°34'13"/	Urban		A&Ww			PBC		FC	Agl	
	Lake	112°07'52"										
MG	Desert Breeze	Galaxy Drive, West Chandler at 33°18'47"/	Urban		A&Ww			PBC		FC		
	Lake	111°55'10"										
MG	Dobson Lake	Dobson Road & Los Lagos Vista Avenue, Mesa	Urban		A&Ww			PBC		FC		
		at 33°22'48"/111°52'35"										
MG	Encanto Park	15th Avenue & Encanto Blvd., Phoenix at	Urban		A&Ww			PBC		FC	Agl	
	Lake	33°28'28"/ 112°05'18"										
MG	Granada Park	6505 North 20th Street, Phoenix at 33°31'56"/	Urban		A&Ww			PBC		FC		
	Lake	112°02'16"										
MG	Maricopa Park	33°35'28"/112°18'15"	Urban		A&Ww			PBC		FC		
10			orban		/ 0.// 10			1 00		10		
10	Lake	Dobson Road & 8th Street, Mesa at 33°25'50"/	Urban		A&Ww			PBC		FC		
MG			Urban		AQVVW			PBC		FC		
	Lake	111°52'29"										
MG	Roadrunner	36th Street & Cactus, Phoenix at 33°35'56"/	Urban		A&Ww			PBC		FC		
	Park Lake	112°00'21"										
SP	Big Creek	Headwaters to confluence with Pitchfork Canyon		A&Wc			FBC			FC		AgL
SP	Bull Tank	32°31'13"/110°12'52"			A&Ww		FBC			FC		AgL
SP	Fly Pond	Fort Huachuca Military Reservation at			A&Ww		FBC			FC		
		31°32'53"/ 110°21'16"										
SP	Goudy Canyon	Headwaters to confluence with Grant Creek		A&Wc			FBC			FC		AgL
	Wash											
SP	Grant Creek	Headwaters to confluence with unnamed		A&Wc			FBC		DWS	FC		AgL
		tributary at 32°38'10"/109°56'37"										
		Below confluence with unnamed tributary to										
SP	Grant Creek	terminus near Willcox Playa			A&Ww		FBC			FC		AgL
SP SP	High Creek	Headwaters to confluence with unnamed		A&Wc	Aavvw		FBC			FC		AgL
	riigh oreek			Advic			100			10		∩g∟
		tributary at 32°33'08"/110°14'42"										
		Below confluence with unnamed tributary to										
SP	High Creek	terminus near Willcox Playa			A&Ww		FBC			FC		AgL
SP	Lake Cochise	South of Twin Lakes Municipal Golf Course at	EDW			A&Wed		PBC				
	(EDW)	32°13'50"/109°49'27"				w						
SP	Moonshine	Headwaters to confluence with Post Creek		A&Wc			FBC			FC		AgL
	Creek											
SP	Pinery Creek	Headwaters to State Highway 181		A&Wc			FBC		DWS	FC		AgL
SP	Pinery Creek	Below State Highway 181 to terminus near			A&Ww		FBC		DWS	FC		AgL
		Willcox Playa										
SP	Post Creek	Headwaters to confluence with Grant Creek		A&Wc			FBC			FC	Agl	AgL
SP	Riggs Lake	32°42'28"/109°57'53"	Igneous	A&Wc			FBC			FC		AgL
SP	Rock Creek	Headwaters to confluence with Turkey Creek Alc					FBC			FC		AgL
SP	Snow Flat Lake	32°39'10"/109°51'54"	Igneous	A&Wc			FBC			FC	Agl	AgL
SP	Soldier Creek	Headwaters to confluence with Post Creek at		A&Wc			FBC			FC		AgL
		32°40'50"/109°54'41"								1		
SP	Turkey Creek	Headwaters to confluence with Rock Creek		A&Wc			FBC			FC	Agl	AgL
		Below confluence with Rock Creek to terminus								1		
SP	Turkey Creek	near Willcox Playa			A&Ww		FBC			FC	Agl	Aal
SP	Ward Canyon	Headwaters to confluence with Turkey Creek		A&Wc			FBC			FC	· '8'	AgL
		From 32°08'19"/109°50'59" in the Sulphur	Sedimentary		A&Ww		FBC			FC		AgL
SP	Willcox Playa		Seumentary		Aavvw		FBC			10		

Adding Drinking Water Use for Bonita Creek in Appendix B

During the rulemaking process, ADEQ received information that Bonita Creek, an indirect tributary to the East Verde River, is used as the source of water for the Bonita Creek Water Company. Pursuant to this information, ADEQ is adding a Domestic Water Source (DWS) use to this water.

<u> The Surface Water Protection Program – Article 2</u>

This portion of the preamble outlines the adoption of the Arizona Surface Water Protection Program (SWPP).

Economic, Social and Environmental Cost-Benefit Analysis

Outside of the process deployed to determine the extent of federal jurisdiction under the currently effective WOTUS rule, the most overarching analysis ADEQ has performed in this rulemaking is the economic, social, and environmental cost/benefit analysis required for SWPP implementation. A.R.S. §49-221 requires that the Director adopt "procedures for determining economic, social and environmental costs and benefits." The procedure for determining the economic, social and environmental costs and benefits of the new SWPP program will be applied in two ways:

- 1. If the water is not categorically excluded from the SWPP as defined in § 49-221 and the economic, social and environmental benefits of adding the water outweigh the economic, environmental and social costs of excluding the water from the list, the water *may* be added to the PSWL.
- 2. In adopting water quality standards at a particular level or for a particular water category for non-WOTUS protected surface waters.

This rulemaking addresses both statutory requirements and includes a regulatory procedure for conducting this crucial analysis in R18-11-213. This rulemaking includes water quality standards for non-WOTUS protected surface waters that have been adopted at a particular level for waters that will be protected by the SWPP. As mentioned in the background section of this preamble, the definition of water quality standard is wide-ranging and encompasses every rule adopted in this article. This rulemaking also adds waters to the PSWL where ADEQ has demonstrated that the benefit of adding that water to the list outweighs the cost.

Although the requirements specific to the SWPP were introduced in HB2691 (2021), ADEQ has performed cost/benefit analyses in a number of historical contexts. A.R.S. § 41-1055 has required a formalized Economic Impact Statement for agency rulemakings since 1995. As these analyses require specialized economic knowledge, the agency has frequently relied on outside expertise to perform baseline economic reports that inform our policy decisions. To conduct the wide-ranging economic analysis required by the SWPP and § 41-1055, ADEQ contracted with McClure Consulting, LLC (McClure) to produce two separate reports to inform the procedure adopted in R18-11-213 and the economic analysis deployed by ADEQ in this rulemaking. The first report was delivered on July 7, 2021, and a second report was delivered on April 29, 2022. This preamble and the accompanying technical paper available at http://azdeq.gov/node/8173 source extensively from those two reports.

The first report drafted by McClure focused generally on the process ADEQ could use to model economic, social and environmental costs and benefits. The second report provides deeper analysis and delves into specific case studies that ADEQ has used to display how the procedures adopted in the rulemaking will be applied. In addition to the reports produced by McClure, ADEQ conducted a 50-state survey to provide an overview of how other states conduct similar analyses. That 50-state report is also available for stakeholder review on ADEQ's website at http://azdeq.gov/node/8173.

McClure Report #1

For the first report, ADEQ asked McClure to produce recommendations for a model-based approach to demonstrate how the procedures adopted in the SWPP rulemaking might work. ADEQ is familiar with modeling in several environmental contexts, so pursuing a model-based approach is a logical outgrowth of institutional expertise within the agency. ADEQ can provide accurate costs of our own regulatory programs through known and quantifiable internal costs. Additionally, ADEQ can estimate costs to permittees through our historic economic impact statements associated with rulemaking. However, for environmental benefits, there are no easily ascertainable market prices as the benefits often relate to "goods and services" that are not traded in markets and therefore are not subject to market-based pricing.

Since there is a need for the economic value of these non-market environmental resources to be expressed in market prices for the purposes of the SWPP rulemaking, ADEQ's consultants provided a literature review for valuing non-market goods and worked with agency staff to evaluate how they could be used to build the statutorily required analysis. Then, McClure built a draft framework for an economic model to display how they would estimate the market value of those resources. The initial report presented the agency with a number of different techniques and research the consultant relied on to build the required procedure.

Modeling Elements and the Benefit Transfer Approach

ADEQ recommends interested stakeholders read the consultant's report for more in-depth information, but this section provides a summary of their work. In their first report, McClure Consulting proposed various valuation methods that all came with their own unique practical and scientific challenges. For example, one such suggestion was using a survey-based methodology. A survey-based methodology would have required ADEQ to use a survey process to derive hypothetical costs and benefits by surveying individuals and businesses who used potentially protected waters. Then, ADEQ would use that input to derive some sort of market cost or price for the protection the SWPP rules would provide.

While the idea of a survey-based methodology seemed viable, the kind of information ADEQ would need to gather from a survey process would require the agency to do an additional level of analysis beyond the scope of the SWPP rulemaking. Although HB2691 prescribed an analysis, the SWPP enabling legislation allowed ADEQ to develop the most reasonable form for that analysis. Given these real-world challenges of developing a valuation procedure, the consultant recommended ADEQ leverage the concept of benefit transfer as a valuation methodology. This approach had substantial appeal to ADEQ as it seemed to be the most reasonable way to conduct the sweeping analyses required to adopt the SWPP within the timeline required by the statute.

The benefit transfer method is a tool that is used to estimate economic values for environmental costs and benefits by transferring available information from studies already completed in another location and/or context. For example, values for recreational fishing in a particular state may be estimated by applying measures of recreational fishing values from a study conducted in another state. Thus, the basic goal of benefit transfer is to estimate benefits for one context by adapting an estimate of benefits from some other context. ADEQ's consultants informed the agency that benefit transfer is often used when it is too expensive and/or there is too little time available to conduct an original valuation study, yet some measure of cost or benefits is needed. It is important to note that benefit transfers can only be as accurate as the initial study. However, this approach comes with challenges of its own, including finding case studies that align with the local policy under consideration.

Based on the consultant's recommendation in the first report, ADEQ expressed interest in using the benefit transfer approach during the deployment of our SWPP program. This approach also gave ADEQ a way to explicitly incorporate opportunities for stakeholder input to supplement and validate the values generated by the model. ADEQ's consultants conducted an extensive search for studies that would be relevant for this approach. Those studies are listed in the consultant's paper and reproduced in the section of this preamble that requires ADEQ to disclose the studies the agency relied on during the rulemaking action.

The next step was to construct a list of inputs that would be relevant in the final model. ADEQ once again relied heavily on the consultant's recommendations, and the first suggestions were wide-ranging and included everything from administrative to scientific influences. The modeling elements proposed by the contractor are discussed at length in the first report and modified heavily in the final report which is addressed later in this preamble. ADEQ has not reproduced the elements suggested in the first report because they were modified in the second report. The appendix list of the first report is annotated with questions and commentary intended to help guide the benefit/cost modeling process for stakeholders who are interested in the evolution of agency thinking.

The initial framework in the first report also did not focus on applying the model in specific situations or for "certain category of waters," although one high-level process did entertain the idea of setting individual pollutant parameters for designated uses. After publication ADEQ and the McClure began work on scoping the second leg of our review to narrow that framework and apply it in the specific contexts.

McClure Report #2

The process of developing the first McClure report highlighted areas that needed further analysis. Simply put, ADEQ determined that the process of assigning "costs" or "value" in a vacuum was untenable for the purposes of SWPP adoption. Surface waters in Arizona have unique characteristics that require a valuation approach that considers those local characteristics. The SWPP enabling legislation contemplated this and contains the requirement that ADEQ consider "the unique characteristics of [Arizona's] surface waters." With this in mind, ADEQ entered into an additional contract with McClure to hone the analysis to meet that specific requirement of the statute. ADEQ received the first draft report on March 2, 2022 and provided input to McClure. The final report and model were delivered on April 29, 2022 and is posted at http://azdeq.gov/node/8173 on the Stakeholder Meetings and Materials link.

Example Water Analysis

The first McClure report contains a section that explains the limitations of the recommended benefits transfer approach. The largest limitation on the recommended approach was simply that it wasn't geared towards any particular real-world scenario. Adjusting water quality standards and applying them to water bodies in a hypothetical situation simply does not work. To develop a methodology, ADEQ needed to first develop a framework for analysis. ADEQ and our consultants prepared three categories of "example waters" to meet the requirement that standards be adopted for a "particular water category" and then be considered to potentially be added to the PSWL. ADEQ developed three categories of waters as a framework for the SWPP cost/benefit analysis:

Class 1 - Sky Island Streams. Representative Water - Stronghold Canyon East. Waterbody ID: AZ15050201-299

Sky Islands are isolated mountain ranges in southeastern Arizona. Some of the mountains rise more than 9,000 feet above the surrounding desert floor making the lowlands and high peaks drastically different. These mountains contain a number of potentially perennial or intermittent surface waters that may have no significant nexus to a traditionally navigable water as the water generally infiltrates or evaporates in the deserts surrounding the sky island. In the mountains, these streams provide valuable habitat, recreational opportunities, and some may hold a level of cultural significance.

ADEQ has picked Stronghold Canyon as an example for this category of waters. The Cochise Stronghold is located in southeast Arizona within the Dragoon Mountains at an elevation of approximately 5,000 ft. This woodland area lies in a protective rampart of granite domes and sheer cliffs which were once the refuge of the Apache Chief Cochise and his people. Perennial springs feeding streams in this area provide water to animals and historically to the people that lived in the area. Now located within the Coronado National Forest, the area remains a popular recreation destination with opportunities for hiking, birding, climbing, mountain biking and camping.

Class 2 - Isolated Lakes. Representative Water - Pintail Lake, Show Low. Waterbody ID: AZ15020005-5000

Pintail Lake is a man-made lake and wetland created from treated water from the City of Show Low. Developed in 1979, it is recognized nationally as one of the first of its kind in the country. Water covers approximately 50 to 100 acres at any given time due to seasonal or climate variations. The lake is an important source of water for local and migrating wildlife, including a variety of birds and big game such as elk and pronghorn antelope. Hunting is allowed in the area and Pintail Lake is popular with waterfowl hunters between November and January. The area is managed in partnership with the City of Show Low, Arizona Game and Fish Department, Apache-Sitgreaves National Forest, and other parties, including the White Mountain Audubon Society.

Class 3 - Ecologically, Culturally, or Historically significant water. Representative Water - Quitobaquito Pond.

Quitobaquito pond is located in the Organ Pipe Cactus National Monument, which was created in 1937 by President Franklin Roosevelt. Historically, the spring-fed pond was located on a prehistoric trade route known as the Old Salt Trail. This route was used to trade salt, obsidian, seashells, and other commodities from the salt beds of Sonora, Mexico. The pond remains culturally significant to the Tohono O'odham Nation located in southern Arizona. From the 1860s and until the area was designated a national monument, the water was used by the settlers for their homes and businesses and to irrigate fruit trees and crops. The pond is home to a species of turtle and snail unique to the pond, as well as a butterfly that coexists solely with a plant found only in this area.

ADEQ's Final Model:

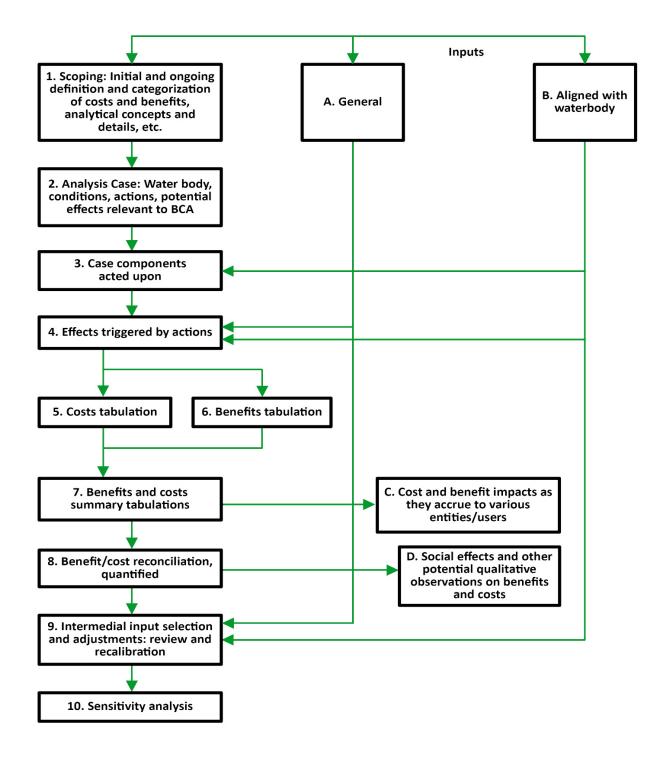
After developing the categories of waters for analysis, ADEQ's consultants began the work to build the final model. The valuation framework used by the contractor includes national and state-level costs as well as estimates for benefits, along with a proposed framework for evaluating benefits at smaller levels of geography. The resulting ADEQ cost/benefit model was adapted by the Consultants to address the types of policy actions that are most likely to occur in Arizona. These adaptations took into account the unique nature of Arizona's surface waters that are described in more detail in the consultant's final report.

The currently effective CWA program deployed in Arizona works. The water quality standards that ADEQ has adopted as part of that program protect the important uses of Arizona's surface waters without creating undue burdens for those who need an AZP-DES permit. The contractor's framework models the adopted SWPP program allows ADEQ to demonstrate the costs/benefits of adopting a state-level program that has similar standards to those in our federal program. ADEQ's consultants used portions of that model but used Arizona specific variables to come to their final result.

The importance of using an ESE analysis framework similar to that of the CWA is because the standards in the SWPP borrow significantly from those adopted to protect waters under the CWA program. This is especially true for the numeric standards adopted by ADEQ in this rulemaking. As mentioned elsewhere in this preamble, ADEQ spends a significant amount of time reviewing the science behind setting numeric standards for protected surface waters. The amount of science that has been done to establish the formulas ADEQ uses to set those standards simply is not replicable by ADEQ in the timeframe available for this rulemaking.

Additionally, the numeric standards that are set by ADEQ for the Federal portion of the program already include Arizona specific information where appropriate. ADEQ uses Arizona specific species lists when setting numeric criteria for aquatic and wildlife uses. In the 2019 TR, ADEQ attempted to use Arizona specific body weight and consumption rates for human health and safety uses.

Thus, the consultants final model implements that unique process into a unified model, where costs/benefits are assessed through an already adopted level of water quality standards to categories of waters that represent those most likely to be protected by the SWPP. The figure below is another conceptual flow chart that ADEQ has included in this preamble to illustrate the inputs the consultants used to model the cost/benefits of the new SWPP program. Key components of the model are also described below (letters and numbers match the diagram labeling and are therefore not necessarily sequential).



Explanation of Inputs.

Item A. Inputs, general:

- 1. Standards by water type, if/as applicable to current or future modeling efforts, and relationships to uses, etc.
- 2. Per-user dollar values tied to specific water use types, such as specific recreation activities, etc.
- 3. Cost factors: permitting or other compliance for public and private entities; ADEQ administrative costs based on categories shown in Appendix D, estimated by ADEQ staff for each of the three case studies classes, for use in the BCA model; possible user charges per unit by type; and consideration of other factors such as health impacts (as burden), as applicable or practical at this level of analysis (current or future). Factors may be directly quantifiable in economic terms, and/or indirectly quantifiable in economic terms or as social effects (as relevant).
- 4. Benefit categories:
 - a. Directly quantifiable economic benefits, as willingness to pay ("WTP") dollar values on a per-household, per-acre basis.
 - b. Benefits applicable, as dollars on some unit basis, to participants in specific activities, recreational or other.
 - c. Benefits indirectly quantifiable in economic terms, or identifiable and addressed on qualitative terms only, including economic and social effects (as relevant).
- 5. Discount rates to apply to future costs and the stream of annual benefits both local and non-local households would experience.

Item B. Inputs, aligned with WTP categorical distinctions:

- 1. Distinctions include: forested, non-forested, and possible other categories, and other conditions specific to the waterbody.
- 2. Cost factors: any variation from general factors based on specifics of waterbody; opportunity costs.
- 3. Selection of local and non-local affected households, as described in relation to Figure 1 Scoping.

Item 9. Recalibration, as appropriate:

1. Maintaining "adding up" integrity in the course of producing benefit and cost estimates related to any single waterbody. This is accomplished primarily by examining estimates for individual waterbodies in comparison with Arizona-wide estimated annualized totals for costs and WTP benefits, which would be initially informed by EPA documentation of estimated state-level costs and benefits.

Item 10. Sensitivity analysis component:

- 1. Reviewing how the overall model structure relates to the specific analysis conditions in ways that could tend to over- or underestimate costs and/or benefits.
- 2. Considering whether and to what extent results of a BCA could be unduly skewed or otherwise unusually sensitive, based on some modeling input or some particular characteristic of the waterbody being analyzed. This would be addressed initially by reviewing: 1) market area designations, 2) identified cost and benefit categories, and 3) cost and benefit factors applied to the estimating model. If warranted by the review, inputs and factors may then be modified, modified model results examined for effects of the sensitivity testing, and modeling components adjusted if necessary, along with accompanying notations.

Item C. Affected entities:

- 1. For benefits: geographic and demographic general description of affected households that are both "local" and "non-local" with respect to waterbody.
- 2. For costs: types of entities affected, with costs allocated among them to extent possible.

Item D. Social effects:

- 1. Documenting Environmental Justice conditions. Data on disadvantaged minority populations within local and non-local market areas are compiled as part of the documentation of demographic conditions within these areas, which at a minimum, for all populations, includes number of households and household incomes as well as racial/ethnic designations by geographic sub-area.
- 2. Categories that may be quantified in the future, but in the interim addressed qualitatively as discussed in the following section.

Modeling Results

ADEQ recommends that stakeholders review the final contractor report for a full discussion of the cost/benefit modeling analysis, but quantitative aspects are summarized in the tables below.

Cost and Benefit Factors	Class 1 - sky island stream - Cochise Stonghold Cyn.	Class 2 - isolated lake - Pintail Lake & marshes	Class 3 - unique waterbody - Quitobaquito Pond
Size (acres or acre-equivalents (Class 1))	21.76	65.00	0.50
Forested?	Yes	Yes	No
Costs and benefits over a 20-yr. period, discounted			
Costs			
404 permits	\$9,344	\$9,344	\$9,344
Mitigation			
ADEQ Admin	\$62,641	\$111,067	\$74,938
Total	\$71,985	\$120,411	\$84,282
Benefits, from willingness-to-pay (WTP) factors			
Local	\$5,509,181	\$7,840,675	\$3,151
Non-local	\$8,635,112	\$54,780,036	\$4,066
Total	\$14,144,293	\$62,620,711	\$7,216
Arizona component	\$14,982,646	\$68,136,424	\$8,045
Benefit/cost comparison			
Total benefits, Arizona	\$14,982,646	\$68,136,424	\$8,045
Total costs	\$71,985	\$120,411	\$84,282
Benefits/costs (first number in ratio: to 1)	208.1	565.9	0.10

Of the three case-study classes, class 1 and class 2 both had benefit/cost ratios well in excess of 1. Class 3 had the opposite condition -a very low cost/benefit ratio of 0.1. A meaningful issue, however, is that the willingness to pay approach to estimate benefits does not encompass a way of capturing the value for the vital role of the Quitobaquito Pond in protecting rare and endangered species. The low cost/benefit ratio of protecting Quitobaquito Pond led to ADEQ excluding this class of water bodies from potential inclusion in the SWPP.

Based on the modeling efforts provided by the contractors, this rulemaking proposes to protect class 1 and class 2 waters with water quality standards that are similar to those applied to the federal program. The modeling effort has demonstrated a significant benefit for protecting these surface waters, especially when considering the context that there are no current discharge permits to any of the surface waters protected by the SWPP. If, in the future, ADEQ proposes to protect a water with a discharge permit, the agency expects that the costs considered by the analysis would dramatically change.

Arizona SWPP Water Quality Standards, Generally

ADEQ's ESE model showed that the benefits of protecting certain classes of waters with water quality standards similar to those adopted for Arizona's CWA program outweighed the costs. However, the SWPP enabling legislation restricts the water quality standards that ADEQ can adopt and the permitting provisions that can be applied to discharges to non-WOTUS protected surface waters. This is best summarized in how the legislation redefined the word "permit." A.R.S. §49-201(32) defines the word permit as follows: "[f]or the purposes of regulating non-WOTUS protected surface waters, [a] *permit shall not include provisions governing the construction, operation, or modification of a facility except as necessary for the purpose of ensuring that discharge meets water quality-related effluent limitation or to require best management practices for the purpose of ensuring that a discharge does not cause an exceedance of an applicable surface water quality standard."*

The restrictions present in the legislation mean the SWPP will regulate discharges to waters primarily based on water quality-based effluent limitations (WQBELs). WQBELS regulate discharges based upon the *actual impact* that a discharge has on receiving waters. The water quality standards established for a particular waterbody serve as the basis for imposing water-quality-based treatment controls in AZPDES permits.

The Difference between CWA and SWPP Standards, Generally

- To reiterate an earlier portion of this preamble, water quality standards are laws or regulations that consist of:
 - 1. The designated use or uses of a waterbody;
 - 2. The water quality criteria that are necessary to protect the use or uses; and
 - 3. An antidegradation policy.

The SWPP borrows significantly from the Federal CWA structure with a few crucial distinctions. ADEQ *may not* adopt or apply water quality standards for non-WOTUS protected surface waters based on:

- 1. Antidegradation
- 2. Antidegradation Criteria
- 3. Outstanding Arizona Waters

Because antidegradation standards and criteria are prohibited from being used in AZPDES permits for discharges to non-WOTUS protected surface waters, the rules that ADEQ is adopting in Title 18, Chapter 11, Article 2 do not include those types of water quality standards. Additionally, permits and conditions for discharges to non-WOTUS protected surface waters are prohibited from implementing any sections of the CWA directly, including sections 301, 302, 306, 307, 308, 312, 318, and 405. Permits issued for these discharges to non-WOTUS waters are not subject to review by the EPA. ADEQ is prohibited from adopting or applying rules regarding the following discharges to non-WOTUS protected surface waters:

- 1. Except as applied to discharges from publicly owned treatment works, requirements specific to new sources or new dischargers under the CWA.
- 2. Except for discharges from publicly owned treatment works, technology-based effluent limitations, standards, or controls, including new source performance standards, under sections 301(b), 304(b), and 306 of the CWA.
- 3. Requirements to express all permit limitations, standards, or prohibitions for a metal solely in terms of total recoverable metal.
- 4. Requirements for review and approval of permits by the USEPA before issuance.

SWPP Definitions – R18-11-201

Regulatory definitions provide clarity and certainty to the public when they engage with ADEQ's regulations. This rulemaking adopts 30 discrete definitions for terms that appear in Article 2. Generally, ADEQ has included specific definitions for designated uses, flow conditions, categories of surface waters, and terms that are defined in the enabling legislation that are implemented for user convenience.

ADEQ has determined some definitions were necessary during the rulemaking process due to stakeholder feedback. The definitions in Article 2 do not deviate significantly from the comparable definitions adopted in the federal program.

SWPP Applicability – R18-11-202

The SWPP enabling legislation prescribes limitations on what types of waters the program ADEQ can protect under this program. ADEQ has drafted R18-11-202 to make the types of waters that the SWPP applies to abundantly clear.

SWPP Designated Uses – R18-11-203

Adopting designated uses for a surface water allows ADEQ to provide a fundamental articulation of its role in Arizona's aquatic or human environment to the public. These adopted uses express goals for the water, such as supporting aquatic life and human activities. The concept of protected surface waters having designated uses is central to establishing appropriate water quality standards and setting those standards at an appropriate level.

Pursuant to the information produced by our economic, social, and environmental cost/benefit analysis, ADEQ is endeavoring to keep as many of the aspects of the new SWPP as similar as possible to the traditional AZPDES program that has already been deployed in Arizona. As a result, this rulemaking includes eight designated uses that are similar to the 10 uses that Arizona has developed for the CWA program. Notably, the SWPP does not apply to ephemeral waterways, therefore, ADEQ will not adopt an aquatic and wildlife (ephemeral) use for the SWPP. ADEQ has determined at this time that there are no EDWs eligible for protection under the SWPP, therefore, ADEQ is not currently adopting EDW standards for non-WOTUS protected surface waters. Standards that cannot be applied to waters only create costs and provide no benefits. Arizona's non-WOTUS protected surface waters list will use the following designated uses:

- 1. Domestic water source AZ (DWSAZ),
- 2. Fish consumption AZ (FCAZ),
- 3. Full body contact recreation AZ (FBCAZ),
- 4. Partial body contact recreation AZ (PBCAZ),
- 5. Aquatic and wildlife (cold water) AZ (A&WcAZ) (acute and chronic),
- 6. Aquatic and wildlife (warm water) AZ (A&WwAZ) (acute and chronic),
- 7. Agricultural irrigation AZ (AgIAZ), and
- 8. Agricultural livestock watering AZ (AgLAZ).

Future rulemakings for non-WOTUS protected surface waters may add or revise these designated uses. The two subcategories of aquatic and wildlife designated uses adopted in the SWPP are meant to protect fish, shellfish, plants, and wildlife. In this initial version of the rulemaking, the A&WcAZ and A&WwAZ are assigned based on the relative elevation of the water, as well as the flow regime of the water. Intermittent and perennial protected surface waters located above 5000' are assigned the A&Wc use and those below 5000' are assigned the A&Ww use. These designations comport with the longstanding science the agency has used to assign the similar uses in the Federal program.

The SWPP will ensure that non-WOTUS protected surface waters will maintain water quality for recreation in and on the water with the full-body contact recreation (FBCAZ) and partial body contact recreation (PBCAZ) designated uses. These designated uses are intended to maintain and protect water quality for swimming, boating, wading, fishing, and other recreational uses. The FCAZ designated use is intended to protect human health when fish or other aquatic organisms are taken from a surface water for human consumption. ADEQ has considered the use and value of surface waters for public water supply by establishing the domestic water

source (DWSAZ) designated use. The DWS designated use applies to a surface water that is used as a raw water source for drinking water supply. Grant Creek, Pinery Creek, and Mormon Lake have all traditionally been protected for this use in Article 1.

A.R.S. § 49-221(G)(3)(a) specifically contemplates protecting non-WOTUS surface waters "that are public waters used as a drinking source, for recreational or commercial fish consumption or for water-based recreation such as swimming, wading and boating and other types of recreation in and on the water." A.R.S. § 49-221(G)(3)(b) specifically protects "perennial waters or intermittent waters of the state that are used as a drinking water source, including ditches and canals." A.R.S. § 49-221(G)(3)(d) specifically protects "perennial or intermittent public waters used for recreational or commercial fish consumption" and A.R.S. § 49-221(G)(3)(d) specifically protects "perennial or intermittent public waters used for water-based recreation such as swimming, wading, boating and other types of recreation in and around the water. The adoption of the DWSAZ, FBCAZ, PBCAZ, FCAZ, A&WcAZ, and A&WwAZ ensure that the specific goals of the statute are met.

Finally, ADEQ recognizes the use and value of surface waters for agricultural purposes by establishing the agricultural irrigation (AgIAZ) and agricultural livestock watering (AgLAZ) designated uses. These uses are intended to maintain and protect surface water quality so water can be used for crop irrigation or to water cattle and other livestock.

SWPP Interim, Presumptive Designated Uses – R18-11-204

ADEQ has endeavored to build a set of regulations that could be used if the definition of WOTUS changes again in the near future. In our federal program, the tributary rule is used to assign standards to surface waters that are discovered to be WOTUS but haven't had designated uses assigned in Appendix B. One of the major limitations towards establishing a lever like the tributary rule is that the SWPP enabling legislation explicitly states that for a water to be protected, it must be listed on the PSWL.

The only time this is not the case is when the director discovers an imminent or substantial threat to public health or the environment that may occur if a surface water isn't listed. In the unlikely event that this happens, ADEQ is proposing the interim, presumptive designated uses rule in Article 2. The intention of this rule is that if the Director discovers an imminent or substantial threat to public health or the environment may occur, then the Director could list a water on the PSWL through the process prescribed in statute and use this rule to assign the proper designated uses outlined in this rule.

SWPP Analytical Methods – R18-11-205

ADEQ has adopted a similar rule to our federal program to ensure that our sampling methodology remains consistent across both state and federal waters. The analytical methods rule ensures that samples collected by ADEQ are analyzed by qualified individuals at qualified locations that have the equipment necessary to produce scientifically verifiable results. This rule ensures that decisions made on non-WOTUS protected surface waters are made with the same level of scientific accuracy and credibility as decisions in the Federal program.

SWPP Mixing Zones – R18-11-206

Occasionally, due to design and economic constraints, permit holders for discharges to non-WOTUS protected surface waters may need to discharge certain pollutants at concentrations that exceed SWQS. ADEQ has added mixing zone provisions to the SWPP to allow dischargers greater flexibility in permitting conditions while still protecting the environment.

A mixing zone is a limited area or volume of water where dilution of a discharge takes place and where numeric water quality criteria may be exceeded in a receiving surface water. The boundary of a mixing zone is the point where the discharged pollutant is completely mixed. The goal of a mixing zone is to ensure that pollutant discharges are mixed so as to prevent acute toxicity and lethality to organisms passing through the mixing zone, and to protect the biological, chemical, and physical integrity of a surface water as a whole.

To ensure the prevention of acute toxicity, the requester of a mixing zone will generally propose a mixing zone boundary based on the following steps:

- 1. Identify the critical flow conditions of the receiving water and discharge, in order to predict the worst-case mixing scenario of the pollutants in the mixing zone.
- 2. Identify conservative pollutant concentration inputs.
- 3. Model the mixing of the discharged pollutants based on the critical flow conditions and concentration assumptions.
- 4. The model run will produce an acceptable mixing zone size. The model will account for whether a mixing zone should or should not be allowed.

Modeling for mixing zone size may be performed, as appropriate, by simple calculation. Ultimately, the factors in determining whether acute toxicity is prevented are (1) duration of exposure, and (2) pollutant concentration. While it is a goal to ensure that mixing zones are not larger than necessary, the size of the mixing zone is not as important as toxicity. The mixing zone standards and requirements in this rulemaking ensure protection of all water quality standards and also are flexible enough for practicable and scientifically defensible implementation.

This rulemaking includes a definition of critical flow conditions. Mixing zone size and boundaries are based on calculations and modeling to account for critical flow conditions. Assigning critical flow conditions for discharge and receiving water flows will allow for sizing of mixing zones based on exposure risk and exceedance frequencies and the particular designated use and criteria.

SWPP Natural Background – R18-11-207

ADEQ has implemented a natural background rule in the SWPP rulemaking. The natural background rule allows ADEQ to consider whether the concentration of the pollutant is caused solely by natural background if a violation of water quality standards occurs.

SWPP Schedules of Compliance – R18-11-208

R18-11-208 allows ADEQ to work with permittees to develop an enforceable schedule in order to allow them time to come back into compliance with their AZPDES permit.

SWPP Variances – R18-11-209

A water quality variance is a time limited exception to an existing water quality criterion. A temporary water quality criterion for a designated use is identified which maintains the highest attainable condition of that water. The highest attainable condition of the water essentially means that the receiving water quality aligns as much as possible with a designated use and is the best water quality that can be achieved during the term of a variance.

A variance is time-limited, discharger or water body-specific, and pollutant-specific. A variance does not result in any change to the underlying designated use and criteria of the receiving water. This means that any discharger to which a variance does not apply must still comply with the applicable designated use and criteria of the water.

Variances are a vital tool to improving water quality in partnership with facilities and ADEQ has had some form of a rule allowing for variances in the federal program since 1996. The variance rule aligns with the federal version of the rule and EPA guidance as no EPA rule previously existed to prescribe and define variance requirements.

Under the rule, variances are tied to a specific discharger/facility or water body segment. For example, if a discharger is granted a variance, the variance will be adopted as a rule, and that rule will be referred to as a basis for a permit condition in that discharger's permit in the next permit renewal or modification. Note that if a variance is repealed, which may occur for some reason that necessitates immediate action, ADEQ would have the authority under the standard reopener clause to modify the permit condition.

ADEQ had adopted the requirements that a variance must protect the "highest attainable condition" of the water body to which a variance applies. "Highest attainable condition" will be defined in a similar way as it is with the federal program, specifically that:

- 1. The condition does not have to be expressed as a use, but rather as a quantifiable expression of the condition;
- 2. The condition cannot lower currently attaining water quality in that the condition does not change the designated use underlying a variance.

Thus, the highest attainable use is a modified aquatic life, wildlife, or recreational use, while the highest attainable condition is an expression of pollutant reduction. Because the "highest attainable condition" must be met at any time throughout a variance term, variance requirements may need to be expressed as a range, and dependent on particular parameters, to account for change over time, or multiple variances may be adopted to allow for incremental change in water quality. The rule allows variances to be issued for longer than five years, but for no longer than is necessary to achieve the highest attainable condition.

SWPP Site-specific Standards – R18-11-210

ADEQ is proposing to adopt a rule that is similar to the federal version of this rule in order to allow the agency to set site-specific standards for listed waters.

Enforcement of Non-Permitted Discharges for Non-WOTUS Waters - R18-11-211

The rule prescribes the minimum data collection requirements for identifying a violation of a standard for enforcement purposes. To be clear, this rule does not apply to exceedances of a permit. ADEQ has included the language that a "non-permitted discharge violation" does not include a discharge regulated under an AZPDES permit. Therefore, this enforcement rule will not be applied in situations where there is a permitted discharge.

What this rule does provide is a mechanism to determine the need for enforcement of suspected unpermitted discharges to non-WOTUS protected surface waters and ensuing violations of water quality standards. ADEQ believes the language in the rule clarifies that it only applies to non-permitted discharge violations.

Although the rule does prescribe the minimum data collection requirements, these requirements are for enforcement purposes only in the situation where a discharge is not permitted. However, because this rule is located in the standards rules, it may be unclear that this rule is not intended to be used for "assessment" purposes. An "assessment" is a required action whereby, every 5 years, ADEQ assesses whether each water or segment of a non-WOTUS protected surface water is meeting the water quality standards that have been set for it.

For assessment and impaired water identification purposes, ADEQ wishes to clarify that the agency must use the relevant standard rule and associated calculation method pursuant to A.A.C. Chapter 11, Article 2 for each pollutant/use, and use the credible data and data interpretation requirements and methodologies in the Impaired Waters Identification rules in A.A.C. Chapter 11, Article 6 to determine whether each water is attaining applicable standards or not. The impaired water identification rules in that article currently apply to non-WOTUS protected surface waters, although ADEQ has a duty to modify those rules within a year of publishing this rulemaking.

SWPP Statements of Intent – R18-11-212

Because the SWPP enabling legislation contains a significant number of limitations regarding the reach of ADEQ's potential regulations, ADEQ has included a rule to specifically suggest the intent of the agency during rulemaking.

SWPP Narrative Standards – R18-11-214

Narrative criteria are general statements designed to protect the aesthetics and health of a waterway. ADEQ is proposing to adopt a majority of the existing narrative criteria to prevent the discharge of pollutants that cause any conditions listed in R18-11-214.

Water quality criteria, numeric criteria, and narrative criteria are all based on a significant body of scientific work. Generally, standards are developed using a workgroup process or informal public meetings and are eventually proposed for public comment. This rule does not include narrative-numeric criteria for bottom deposits, biocriteria, or nutrient standards for lakes. The rules in R18-11-108.03 have not been approved by the EPA, so their inclusion was not part of the ESE analysis that ADEQ performed. There are no waters on this first draft of the PSWL that are perennial, wadable streams so standards that are similar to R18-11-108.01 and R18-11-108.02 would not apply to any listed waters.

SWPP Numeric Standards – R18-11-215

R18-11-215 lists the numeric water quality standards applicable to non-WOTUS protected surface waters. The numeric water quality criteria have been adopted at the same level as those in our federal program.

When calculating water quality standards for human health, the State uses base equation factors found in EPA human health criteria methodology documentation, and then modifies the formulas to reflect the different uses assigned to Arizona waters.

Arizona's human health standards are broken down into domestic water source AZ (DWS AZ), fish consumption AZ (FC AZ), full body contact AZ (FBC AZ) and partial body contact AZ (PBC AZ). The first three standards (DWSAZ, FCAZ, FBCAZ) are further divided and calculated using carcinogenic and non-carcinogenic endpoints. Where the FBCAZ use assumes acute exposure to carcinogens through water consumption, the PBCAZ standard, due to the infrequent, short, and episodic nature of the exposure, assumes an acute dose and uses only the non-carcinogenic endpoint.

Aquatic and wildlife standards are derived using empirical toxicity data for Arizona species to calculate acute and chronic endpoints. For human health standards, data are mainly extrapolated from animal studies. Because of this, the reference dose (RfD) used to calculate a standard incorporates safety factors addressing aspects such as extrapolation of animal data and human weight, age, and sex differences. Also, because humans don't have constant and direct exposure to waterborne toxins, for non-carcinogenic pollutants, ADEQ uses relative source contribution factors (RSC) to account for exposures from other sources, such as food and occupational exposures. For fish consumption, ADEQ also considers the average bioaccumulation potential of a chemical in edible tissues of aquatic organisms that are commonly consumed by humans.

Carcinogenic standards are functionally statistical risk equations that take the potency of a carcinogen and calculate the concentration that would cause one additional cancer case per 1,000,000 people. One in a million is considered an "acceptable" risk when calculating standards. Every exposure carries exactly the same risk for developing cancer.

Unlike aquatic and wildlife standards, human health standards are not broken down into chronic and acute concentrations. A more conservative approach is employed, which assumes acute lifetime exposure due to: a) the unknowns due to lack of empirical data, b) other uncontrolled exposures to toxins, c) the statistical nature of carcinogenic standards and d) the fact that standards are set for the human population as a whole.

For all of the aquatic and wildlife uses (A&W AZ) the State uses data contained in the US EPA CWA § 304(a) Aquatic Life Table for the individual pollutant in question. To tailor the standard to one of the four A&W uses, the State uses the EPA "Revised Deletion Process for the Site-Specific Recalculation Procedure for Aquatic Life Criteria" (EPA, 2013). In this procedure, species that do not occur in a particular waterbody type (e.g. salmonids for the A&W Warmwater use) are deleted from the data set to better reflect the taxonomy of species that occur in that waterbody type and their respective toxicity values in the criteria derivation process. ADEQ utilizes a state-specific species list to tailor the aquatic and wildlife uses as much as possible to calculate A&W standards for Arizona. For standards for the Aquatic and Wildlife Coldwater use, ADEQ uses salmonids and other cold water species. For Aquatic and Wildlife Warmwater, coldwater species like salmonids are usually not considered. For Aquatic and Wildlife Effluent Dependent, ADEQ uses warm water species that generally occur in nutrient rich, lower oxygen environments.

The Protected Surface Waters List – R18-11-216

One of the main features of the new Arizona SWPP is that it requires the Director of ADEQ to maintain and publish a Protected Surface Waters List (PSWL). The Final PSWL is the version of the list that will be codified in this rulemaking at R18-11-216. Pursuant to the requirements of HB2691, the PSWL does include:

- 1. Waters of the United States;
- 2. The Bill Williams River, from its confluence of the Big Sandy River and the Santa Maria River to its confluence with the Colorado River;
- 3. The Colorado River, from the Arizona-Utah border to the Arizona-Mexico border;
- 4. The Gila River, from the Arizona-New Mexico border to its confluence with the Colorado River;
- 5. The Little Colorado River, from the confluence of the East and West Forks of the Little Colorado River to its confluence with the Colorado River;
- 6. The Salt River, from the confluence of the Black River and White River to its confluence with the Gila River;
- 7. The San Pedro River, from the Arizona-Mexico Border to the confluence with the Gila River;
- 8. The Santa Cruz River, from its origins in the Canelo Hills of Southeastern Arizona to its confluence with the Gila River; and
- 9. The Verde River, from Sullivan Lake to its confluence with the Salt River.

The PSWL does not include non-WOTUS waters that are:

- 1. Canals in the Yuma project and ditches, canals, pipes, impoundments and other facilities that are operated by districts organized under Arizona Revised Statutes (A.R.S.) Title 48, Chapters 18, 19, 20, 21 and 22 and that are not used to directly deliver water for human consumption, except when added pursuant to A.R.S. § 49-221(G)(4) and in response to a written request from the owner and operator of the ditch or canal until the owner and operator withdraws its request.
- 2. Irrigated areas, including fields flooded for agricultural production.
- 3. Ornamental and urban ponds and lakes such as those owned by homeowners' associations and golf courses, except when added pursuant to an economic, environmental, and social cost-benefit analysis where the benefits of listing the water outweigh the

costs and in response to a written request from the owner of the ornamental or urban pond or lake until the owner withdraws its request.

- 4. Swimming pools and other bodies of water that are regulated pursuant to A.R.S. § 49-104, subsection (B).
- 5. Livestock and wildlife water tanks and aquaculture tanks that are not constructed within a protected surface water.
- 6. Stormwater control features.
- 7. Groundwater recharge, water reuse and wastewater recycling structures, including underground storage facilities and groundwater savings facilities permitted under A.R.S. Title 45, Chapter 3.1 and detention and infiltration basins, except when added pursuant to A.R.S. §49-221(G)(4) and in response to a written request from the owner of the groundwater recharge, water reuse or wastewater recycling structure until the owner withdraws its request.
- 8. Water-filled depressions created as part of mining or construction activities or pits excavated to obtain fill, sand or gravel.
- 9. All water treatment systems components, including constructed wetlands, lagoons and treatment ponds, such as settling or cooling ponds, designed to either convey or retain, concentrate, settle, reduce or remove pollutants, either actively or passively, from wastewater before discharge to eliminate discharge.
- 10. Groundwater.
- 11. Ephemeral waters
- 12. Lakes and ponds owned and managed by the United States Department of Defense and other surface waters located on and that do not leave United States Department of Defense property, except when added pursuant to paragraph 4 of this subsection and in response to a written request from the United States Department of Defense until it withdraws its request.

The PSWL also includes non-WOTUS surface waters that fall into the following categories:

- 1. All lakes, ponds, and reservoirs that are public waters used as a drinking water source, for recreational or commercial fish consumption or for water-based recreation such as swimming, wading and boating and other types of recreation in and on the water;
- 2. Perennial waters or intermittent waters of the state that are used as a drinking water source, including ditches and canals;
- 3. Perennial or intermittent tributaries to the Bill Williams River, the Colorado River, the Gila River, the Little Colorado River, the Salt River, the San Pedro River, the Santa Cruz River and the Verde River;
- 4. Perennial or intermittent public waters used for recreational or commercial fish consumption;
- 5. Perennial or intermittent public waters used for water-based recreation such as swimming, wading, boating and other types of creation in and on the water;
- 6. Perennial or intermittent wetlands adjacent to waters on the protected surface waters list; and
- 7. Perennial or intermittent waters of the state that cross into another state, the Republic of Mexico or the reservation of a federally recognized tribe.

Non-WOTUS Waters - Table A

This rulemaking adds the following non-WOTUS waters to the PSWL. The table below also includes a rationale for listing the water.

	Segment Description				
Surface	and Location (Latitude				
Waters	and Longitudes are in	Comments			
	NAD 83)				
Cattonwood	Headwaters to confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as			
Cottonwood	unnamed tributary at	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal			
Creek	35°20'46"/113°35'31"	program pursuant to ADEQ's ESE analysis.			
Cottonwood	Below confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as			
Creek	unnamed tributary to	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal			
CIEEK	confluence with Truxton Wash	program pursuant to ADEQ's ESE analysis.			
Wright	Headwaters to confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as			
Canyon	unnamed tributary at	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal			
Creek	35°20'48"/113°30'40"	program pursuant to ADEQ's ESE analysis.			
Wright	Below confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as			
Canyon	unnamed tributary to	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal			
Creek	confluence with Truxton Wash	program pursuant to ADEQ's ESE analysis.			
		Lake, pond, or reservoir that is a public water used as a drinking source, for recreational or commercial fish consumption or for			
Boot Lake	34°58'54"/111°20'11"	water-based recreation such as swimming, wading and boating and other types of recreation in and on the water. Protected by			
		WQS that are similar to those adopted in the federal program pursuant to ADEQ's ESE analysis.			
Little Ortega	34°22'47"/109°40'06"	Lake, pond, or reservoir that is a public water used as a drinking source, for recreational or commercial fish consumption or for			
Lake		water-based recreation such as swimming, wading and boating and other types of recreation in and on the water. Protected by			
Edito		WQS that are similar to those adopted in the federal program pursuant to ADEQ's ESE analysis.			
		Lake, pond, or reservoir that is a public water used as a drinking source, for recreational or commercial fish consumption or for			
Mormon Lake	34°56'38"/111°27'25"	water-based recreation such as swimming, wading and boating and other types of recreation in and on the water. Protected by			
		WQS that are similar to those adopted in the federal program pursuant to ADEQ's ESE analysis.			
		Lake, pond, or reservoir that is a public water used as a drinking source, for recreational or commercial fish consumption or for			
Potato Lake	35°03'15"/111°24'13"	water-based recreation such as swimming, wading and boating and other types of recreation in and on the water. Protected by			
		WQS that are similar to those adopted in the federal program pursuant to ADEQ's ESE analysis.			
		Lake, pond, or reservoir that is a public water used as a drinking source, for recreational or commercial fish consumption or for			
Pratt Lake	34°01'32"/109°04'18"	water-based recreation such as swimming, wading and boating and other types of recreation in and on the water. Protected by			
		WQS that are similar to those adopted in the federal program pursuant to ADEQ's ESE analysis.			
Sponseller		Lake, pond, or reservoir that is a public water used as a drinking source, for recreational or commercial fish consumption or for			
Lake	34°14'09"/109°50'45"	water-based recreation such as swimming, wading and boating and other types of recreation in and on the water. Protected by			
		WQS that are similar to those adopted in the federal program pursuant to ADEQ's ESE analysis.			
		Lake, pond, or reservoir that is a public water used as a drinking source, for recreational or commercial fish consumption or for			
Vail Lake	35°05'23"/111°30'46"	water-based recreation such as swimming, wading and boating and other types of recreation in and on the water. Protected by			
		WQS that are similar to those adopted in the federal program pursuant to ADEQ's ESE analysis.			
Water		Lake, pond, or reservoir that is a public water used as a drinking source, for recreational or commercial fish consumption or for			
Canyon	34°03'38"/109°26'20	water-based recreation such as swimming, wading and boating and other types of recreation in and on the water. Protected by			
Reservoir		WQS that are similar to those adopted in the federal program pursuant to ADEQ's ESE analysis.			
		Ornamental or urban ponds and lakes such as those owned by homeowners' associations and golf courses, added pursuant to an			
Bonsall Park	59th Avenue & Bethany Home	economic, environmental, and social cost-benefit analysis where the benefits of listing the water outweigh the costs and in			
Lake	Road at 33°31'24"/112°11'08"	response to a written request from the owner of the ornamental or urban pond or lake until the owner withdraws its request. ADEQ			
		has received a request from the relevant municipality and determined that protecting this hydrologically isolated lake with the			
		water quality standards in this article produces more benefits than costs.			

		Ornamental or urban ponds and lakes such as those owned by homeowners' associations and golf courses, added pursuant to an
	College Avenue & Curry Road,	economic, environmental, and social cost-benefit analysis where the benefits of listing the water outweigh the costs and in
Canal Park	Tempe at 33°26'54"/	response to a written request from the owner of the ornamental or urban pond or lake until the owner withdraws its request. ADEQ
Lake	111°56'19"	has received a request from the relevant municipality and determined that protecting this hydrologically isolated lake with the
	111 30 13	
		water quality standards in this article produces more benefits than costs.
	Headwaters to confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Big Creek	Pitchfork Canyon Wash	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS that are similar to those in
	•	the federal program pursuant to ADEQ's ESE analysis.
Goudy	Headwaters to confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Canyon	Grant Creek	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
Wash	Shan Shock	program pursuant to ADEQ's ESE analysis.
	Headwaters to confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Grant Creek	unnamed tributary at	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
	32°38'10"/109°56'37"	program pursuant to ADEQ's ESE analysis.
	Below confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Grant Creek	unnamed tributary to terminus	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
	near Willcox Playa	program pursuant to ADEQ's ESE analysis.
	-	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Lligh Crook	Headwaters to confluence with	
High Creek	unnamed tributary at	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
	32°33'08"/110°14'42"	program pursuant to ADEQ's ESE analysis.
	Below confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
High Creek	unnamed tributary to terminus	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
	near Willcox Playa	program pursuant to ADEQ's ESE analysis.
	Headwaters to State Highway 181	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Pinery Creek		swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
		program pursuant to ADEQ's ESE analysis.
		Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Pinery Creek	Below State Highway 181 to	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
	terminus near Willcox Playa	program pursuant to ADEQ's ESE analysis.
		Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Post Creek	Headwaters to confluence with Grant Creek	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
I USI CIEEK		program pursuant to ADEQ's ESE analysis.
Riggs Flat		Lake, pond, or reservoir that is a public water used as a drinking source, for recreational or commercial fish consumption or for
Lake	32°42'28"/109°57'53"	water-based recreation such as swimming, wading and boating and other types of recreation in and on the water. Protected by
		WQS that are similar to those adopted in the federal program pursuant to ADEQ's ESE analysis.
	Headwaters to confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Rock Creek	Turkey Creek	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
	Turkey Oreek	program pursuant to ADEQ's ESE analysis.
	Headwaters to confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Soldier Creek	Post Creek at 32°40'50"/	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
	109°54'41"	program pursuant to ADEQ's ESE analysis.
		Lake, pond, or reservoir that is a public water used as a drinking source, for recreational or commercial fish consumption or for
Snow Flat	32°39'10"/109°51'54"	water-based recreation such as swimming, wading and boating and other types of recreation in and on the water. Protected by
Lake		WQS similar to those adopted in the federal program pursuant to ADEQ's ESE analysis.
		Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Stronghold	Headwaters to 31°55'9.28"/	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the
Canyon East	109°57'53.24"	federal program pursuant to ADEQ's ESE analysis. ADEQ has assigned designated uses of A&WcAZ, PBCAZ, and AgLAZ to this
. ,		water in this rulemaking pursuant to the ESE analysis. Stronghold Canyon East was split into two reaches because the original
		reach is 3.76 miles in length with 1.44 miles above 5000' and 2.32 miles below 5000'.

		Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Stronghold	31°55'9.28"/109°57'53.24" to	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the
Canyon East	confluence with Carlink	federal program pursuant to ADEQ's ESE analysis. ADEQ has assigned designated uses of A&WcAZ, PBCAZ, and AgLAZ to
	Canyon	this water in this rulemaking pursuant to the ESE analysis. Stronghold Canyon East was split into two reaches because the
		original reach is 3.76 miles in length with 1.44 miles above 5000' and 2.32 miles below 5000'.
	Headwaters to confluence with	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Turkey Creek	Rock Creek	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
		program pursuant to ADEQ's ESE analysis.
	Below confluence with Rock	Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Turkey Creek	Creek to terminus near Willcox	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
	Playa	program pursuant to ADEQ's ESE analysis.
		Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Ward Canyon	Headwaters to confluence with	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
Creek	Turkey Creek	program pursuant to ADEQ's ESE analysis.
		Perennial or intermittent public water used for recreational or commercial fish consumption or water-based recreation such as
Moonshine	Headwaters to confluence with	swimming, wading and boating, and other types of recreation in and on the water. Protected by WQS similar to those in the federal
Creek	Post Creek	program pursuant to ADEQ's ESE analysis.

WOTUS-Protected Surface Waters - Table B

This rulemaking includes a list of WOTUS protected surface waters to provide consistency and clarity to stakeholders about how surface waters in Arizona are regulated. The waters listed in Table B have been regulated by ADEQ as WOTUS, under the law that is effective on 11/18/2022. Notwithstanding its inclusion in Table B, the status of a particular water identified as WOTUS can be contested by a person subject to an enforcement or permit proceeding related to that water.

Historically Regulated as WOTUS and Pending Confirmation – Table C

ADEQ has included Table C in this rulemaking as a table of waters that are regulated as WOTUS but do not have a formal WOTUS determination. ADEQ will continue gathering data on these waters to determine whether they should continue to be regulated under the Federal program or if they should more appropriately be protected by the SWPP. Notwithstanding its inclusion in Table C, the status of a particular water identified as WOTUS can be contested by a person subject to an enforcement or permit proceeding related to that water.

ADEQ has included Table C as a separate designation in this rulemaking to provide clarity to stakeholders on the status of a water during the SWPP rulemaking process. The waters on this list need additional analysis to determine whether they should continue to be considered a WOTUS. This list includes waters that are also listed on Appendix B, waters that have been assessed as impaired during ADEQ bi-yearly water quality assessment, and waters that are protected by active AZPDES permits. The inclusion of a surface water in Table C of the PSWL does not change the jurisdictional status of a surface water for purposes of the CWA.

SWPP Best Management Practices – R18-11-217

ADEQ engaged WestLand Engineering & Environmental Associates (WestLand) to identify best management practices (BMPs) that would conform with the requirement in A.R.S. § 49-255.05. Specifically, the statute requires the identification of appropriate BMPs to be used when working within the ordinary high-water mark (OHWM) of intermittent or perennial non-WOTUS protected surface waters, or within the bed and bank of surface waters that materially impact state protected surface waters.

WestLand produced two reports that describe a list of BMPs to meet the following requirements:

1. Rules establishing BMPs for various activities enumerated in § 49-255.05.

2. Notification requirements to ensure that activities enumerated in § 49-255.05 do not violate applicable surface water quality standards.

The Construction General Permit (CGP) (see, e.g., Parts 1.5(3), 1.5(4), 2.3(3)(c), 3.8(2), and 7.0) uses a $\frac{1}{4}$ mile upstream distance to identify situations where activities near sensitive waters (impaired waters or outstanding Arizona waters) require additional review or discharge monitoring. ADEQ has determined that it is protective, including from both a distance and topography perspective (see A.R.S. § 49-255.05(A)(2)), to use a similar $\frac{1}{4}$ mile upstream threshold to determine material impact for purposes of determining applicability of these BMPs.

7. A reference to any study relevant to the rule that the agency reviewed and proposes either to rely on or not to rely on in its evaluation of or justification for the rule, where the public may obtain or review each study, all data underlying each study, and any analysis of each study and other supporting material:

Arizona Administrative Register

Summary: The *Administrative Register* (Register) is a legal publication published by the Administrative Rules Division that contains information about rulemaking activity in the state of Arizona. The issues referenced below include code sections being amended and introduced to Chapter 11, which involves the Department of Environmental Quality Water Quality Standards.

Study Resource: These publications mainly refer to and make reference to topics that contribute to the Economic, Small Business, and Consumer Impact Statements. The studies referred to and referenced in this publication provide a brief summary of tourism, agricul-

ture, or other benefits as well as cost categories or data produced from the findings. The following items are addressed in individual registers cited below:

Arizona Administrative Register (1995). Notice of Proposed Rulemaking, Title 18, Environmental Quality, Chapter 11, Department of Environmental Quality, Water Quality Standards, Volume 1, Issue 50.

Publication Study Resource: Proposed new section to the modification of water quality standards on the grounds of net ecological benefit based on the following criteria:

- 1. The discharge of effluent creates or supports an ecologically valuable aquatic; wetland, or riparian habitat in an area where such resources are limited
- 2. The cost of treatment to comply with a water quality standard is so high that it is more cost effective to eliminate the discharge of effluent rather than upgrade treatment
- 3. It is feasible for a point source discharger to completely eliminate the discharge of effluent
- 4. The environmental benefits associated with the discharge of effluent under a modified water quality standard exceed the environmental costs associated with elimination of the discharge and destruction of the effluent dependent ecosystem
- 5. All practicable point source control discharge programs, including local pretreatment, waste minimization, and source reduction programs are implemented
- 6. The discharge of effluent under a modified water quality standard will not cause or contribute to a violation of a water quality standard that has been established for a downstream surface water
- 7. The discharge of effluent will not produce or contribute to the concentration of a pollutant in the tissues of aquatic organisms or wildlife that is likely to be harmful to humans or wildlife through food chain concentration.

Arizona Administrative Register (1996). Notice of Final Rulemaking, Title 18, Environmental Quality, Chapter 11, Department of Environmental Quality, Water Quality Standards For Surface Waters – Economic Small Business and Consumer Impact Statement, Volume 2, Issue 20.

Publication Study Resource: The adopted Net Ecological Benefit rule provides a benefit to the owners of wastewater treatment plants that support or create effluent dependent waters because it provides a mechanism for relief from a water quality standard that otherwise might force costly treatment plant upgrades. The adopted rule also provides ecosystem benefits in that it provides a regulatory incentive to maintain and preserve in-stream flows in areas where riparian and aquatic resources are limited. The continued discharge of effluent may provide net ecological benefits, even though an applicable water quality standard is not being met. Examples of possible ecological benefits include:

- 1. Enhancement, expansion or restoration of aquatic and riparian habitat for native, threatened or endangered aquatic species, or for migratory waterfowl
- 2. Provision or enhancement of habitat or food sources for native, threatened and endangered species that are terrestrial
- 3. Enhancement of species diversity
- 4. Enhancement or restoration of riparian values (e.g. cottonwood/willow habitat, improved bird and wildlife habitat)

Arizona Administrative Register (2001). Notice of Proposed Rulemaking, Title 18, Environmental Quality, Chapter 11, Department of Environmental Quality, Water Quality Standards, Volume 7, Issue 11.

Publication Study Resource: Proposed decision criteria for *Social and economic impact of Tier 3 antidegradation protection:* The Director may take into consideration the potential social and economic impact of a unique water classification and the establishment of Tier 3 antidegradation protection, including:

- 1. Impact of a prohibition of new point source discharges and expansion of existing point source discharges, including possible limits on discharges to the tributaries of a proposed unique water and possible impacts on growth and development.
- 2. Impact of possible future restrictions on land use activities in a unique water's watershed, including cattle grazing, timber harvesting, mining, recreation, and agriculture.
- 3. The impact of stricter requirements for §401 certification of federal permits and licenses, including NPDES and §404 permits.
- 4. Impact on private property rights and the potential for regulatory "takings."
- 5. Ecosystem and preservation values.

Arizona Administrative Register (2002). Notice of Final Rulemaking, Title 18, Environmental Quality, Chapter 11, Department of Environmental Quality, Water Quality Standards, Volume 8, Issue 13.

Arizona Administrative Register (2008). Notice of Final Rulemaking, Title 18, Environmental Quality, Chapter 11, Department of Environmental Quality, Water Quality Standards, Volume 14, Issue 52.

Arizona Administrative Register (2016). Agency Certificate Notice of Final Rulemaking, Title 18, Environmental Quality, Chapter 11, Department of Environmental Quality, Water Quality Standards, Volume 22, Issue 36.

Publication Study Resource: ADEQ proposed to eliminate the requirement that a discharger have a plan to eliminate the discharge under active consideration as part of what must be demonstrated. Communities and developers should benefit by eliminating an extra burden in seeking to use high quality effluent to create aquatic and riparian ecosystems.

Arizona Administrative Register (2017). Notice of Final Rulemaking, Title 18, Environmental Quality, Chapter 11, Department of Environmental Quality, Water Quality Standards, Volume 23, Issue 6.

Publication Study Resource: Estimated costs and benefits to consumers and the public mentioned in recreation activities (e.g., Ironman at Tempe Town Lake), fishing activities, and agricultural productivity.

Arizona Administrative Register (2019). Notice of Final Rulemaking, Title 18, Environmental Quality, Chapter 11, Department of Environmental Quality, Water Quality Standards, Volume 25, Issue 5.

Publication Study Resource: See notes regarding interface with AOT studies under Agriculture in Arizona's Economy and The Economic Contributions of Water-related Outdoor Recreation in Arizona, below.

Agriculture in Arizona's Economy

Summary: This report explores agriculture's contribution to the Arizona economy by examining the entire agribusiness system in Arizona.

Study Resource: The economic contribution analysis was conducted using input-output modeling and the premiere software for this type of analysis, IMPLAN Version 3.1. IMPLAN is a modeling system of a regional economy that is based on national averages of production conditions. This model was refined based on the best available data to more accurately reflect production conditions in Arizona.

Applicability to current benefit/cost estimating procedures: Uses IMPLAN system to translate direct economic effects of some action into secondary effects, reflecting the multiplier effects of actions through the economic system. The practice represented by this modeling tool, widely used in economic impact assessments, would be a logical eventual extension of cost and benefit estimating for Arizona water bodies.

Kerna, A., & Frisvold, G. (2014). Agriculture in Arizona's Economy: An Economic Contribution Analysis. Department of Agricultural & Resource Economics. University of Arizona.

Buehman Canyon Creek – Economic Benefits of Unique Water Designation Study of Buehman Canyon Creek

Summary: This study reviews the economic benefits of Buehman Canyon Creek for the consideration of determining the water body as a unique water designation.

Study Resource: Provides guidance on factors that need to be considered in a comprehensive examination of costs and benefits in the economic impact statement for proposed unique water designation.

Applicability to current benefit/cost estimating procedures: This study mentions economic benefits that are quantifiable but does not include the data methodology used to support the economic benefits associated with the proposed unique water designation for Buehman Canyon Creek.

Colby, B.G. (1996) Buehman Canyon Creek – Economic Benefits of Unique Water Designation Study – March 1996. Arizona Department of Environmental Quality.

The Economic Benefits of Recreation in Rural Arizona

Summary: This report provides a summary analysis of tourism and recreation as factors influencing the state's economy and local economy's within the state.

Study Resource: This report summarizes park recreation tourism economic benefits, the benefits to rural areas, and the need to develop more facilities to access recreation lands. Drawing from the published survey of visitors of Arizona State Parks conducted between 1987-1988, visitors were asked how much money their group spent during their trip within 50 miles of the state park they were visiting, average expenditures were produced per visitor group per trip and were applied to park attendance counts to document total expenditures spent within 50 miles of state parks by visitors in 1987.

Applicability to current benefit/cost estimating procedures: The reference cited for this document, entitled "The 1987-1988 Use Study of Arizona State Parks Visitors," for the Arizona State Parks Board in 1989, provides some quantified data for visitor expenditures that lends itself to capturing economic benefits of this type.

Spear, S. (1989) Rural Arizona... The Economic Benefits of Recreation, A Summary Analysis of Tourism and Recreation as Factors Influencing State and Local Economies. *Arizona State Parks Board Statewide Planning Section*.

The Economic Contributions of Water-related Outdoor Recreation in Arizona

Summary: A study of outdoor recreational activity on or along the water to estimate the level of participation in the state and the contributions from these activities to the county and state economies.

Study Resource: The analysis is structured around estimating three sets of metrics: participation, spending, and economic contributions. Participation estimates for this study relied largely on two data sources to characterize outdoor recreation on or along the water. Economic Contributions were estimated by combining spending estimates with data that models economic sector interactions in a given geography. Expenditure data were collected for different categories (e.g., groceries, fuel, equipment, etc.) as part of the OIA survey, which enabled allocation of spending to specific economic sectors. These data were then run through an IMPLANTM model of the Arizona statewide economy using software produced by MIG, Inc. The resulting county-level and water-specific estimates reflect the contribution that outdoor recreation in those locales has on the statewide economy. Appendix A in the document provides additional background information on economic contributions.

Applicability to current benefit/cost estimating procedures: See notes on IMPLAN under Agriculture in Arizona's Economy. The Arizona Office of Tourism (AOT) sponsors periodic generalized studies related to Arizona visitors, including types of activities, expenditures, economic impacts, etc. To the extent that benefit/cost modeling of water bodies/designations is expanded into specific consideration of benefits related to riparian-focused activities, these location/activity-specific studies (#4 as well as this one) can add to the specificity of benefits associated with activities of particular interest.

Southwick Associates (2019). The Economic Contributions of Water-related Outdoor Recreation in Arizona: A Technical Report on Study Scope, Methods, and Procedures. *Audubon Arizona*.

Socioeconomic consequences of mercury use and pollution

Summary: In the past, human activities often resulted in mercury releases to the biosphere with little consideration of undesirable consequences for the health of humans and wildlife. This paper outlines the pathways through which humans and wildlife are exposed to mercury.

Study Resource: This paper examines the life cycle of mercury from a global perspective and then identifies several approaches to measuring the benefits of reducing mercury exposure, policy options for reducing Hg emissions, possible exposure reduction mechanisms, and issues associated with mercury risk assessment and communication for different populations. This study also briefly reviews the methods used to quantify the benefits to human health associated with reduced mercury exposure, which include Benefit-cost Analysis and the Cost-effectiveness Analysis.

Applicability to current benefit/cost estimating procedures: This paper does not include any quantifiable data used in its review of the Benefit-cost Analysis or Cost-effectiveness Analysis.

Swain, E. B., Jakus, P. M., Rice, G., Lupi, F., Maxson, P. A., Pacyna, J. M., ... & Veiga, M. M. (2007). Socioeconomic consequences of mercury use and pollution. *Ambio*, 45-61.

Nature-based Tourism and the Economy of Southeastern Arizona

Summary: This study documents expenditures in the Sierra Vista area by visitors to the San Pedro Riparian National Conservation Area (RNCA) and by bird watchers at Ramsey Canyon Preserve. Information on visitor expenditures, characteristics and preferences is reported, along with implications for nature-based tourism in southeastern Arizona. This study examined visitation to only two natural areas and so economic impacts reported here represent only a portion of the impacts of visitor spending associated with all nature preserves located in southeastern Arizona. The study indicates that 95% of visitors to Ramsey Canyon and the San Pedro RNCA go to at least one other site in southern Arizona on a typical visit to the area, and make expenditures in communities located near these sites.

Study Resource: The expenditure analysis indicates the importance of an overnight stay for communities to experience significant economic benefits from visitors.

Applicability to current benefit/cost estimating procedures: See notes regarding interface with AOT studies under The Economic Contributions of Water-related Outdoor Recreation in Arizona, above.

Crandall, K., Leones, J., & Colby, B. G. (1992). Nature-based Tourism and the Economy of Southeastern Arizona: Economic Impacts of Visitation to Ramsey Canyon Preserve and the San Pedro Riparian National Conservation Area, Final Report. Department of Agricultural and Resource Economics, the University of Arizona.

Notes on inclusion of source studies and data preparation for wetlands meta-data

Summary: This memorandum provides reasons for excluding specific wetland valuation studies from the meta-data that was used in the meta-analysis for estimating national benefits in the *Economic Analysis for the Proposed "Revised Definition of 'Waters of the United States*" Rule (U.S. EPA and Army, 2021).

Study Resource: Provides an overview of valuation scenarios considered in literature and the assumptions made to fill in data gaps for each study used for wetlands meta-data.

Applicability to current benefit/cost estimating procedures: Provides a critical meta-analysis of literature and studies that support estimating national benefits in the *Economic Analysis for the Proposed "Revised Definition of Waters of the United States" Rule* (U.S. EPA and Army, 2021).

ICF. 2021. Notes on inclusion of source studies and data preparation for wetlands meta-data. Memorandum to Todd Doley and Steve Whitlock. November 22, 2021.

Using Meta-Analysis for Large-Scale Ecosystem Service Valuation: Progress, Prospects, and Challenges

Summary: This article discusses prospects and challenges related to the use of meta-regression models (MRMs) for ecosystem service benefit transfer, with an emphasis on validity criteria and post-estimation procedures given sparse attention in the ecosystem services literature. Includes a meta-analysis of willingness to pay for water quality changes that support aquatic ecosystem services, and the application of the model to estimate water quality benefits under alternative riparian buffer restoration scenarios in New Hampshire's Great Bay Watershed. These illustrations highlight the advantages of MRM benefit transfers, together with the challenges and data needs encountered when quantifying ecosystem service values.

Study Resource: The illustrated case study discussed in this paper helps to demonstrate how evaluations of issues can help clarify the suitability of Meta-Regression Modeling (MRM) predictions for benefit transfers.

Applicability to current benefit/cost estimating procedures: This illustrates benefit transfers using scenarios of potential water quality, setting variables, geospatial and socioeconomic data for benefit transfer scenarios, the data methodology, indexing calibration, WTP estimate predictions per household, and the challenges for Large-Scale Ecosystem Service Valuations.

Johnston, R. J., & Bauer, D. M. (2020). Using meta-analysis for large-scale ecosystem service valuation: progress, prospects, and challenges. *Agricultural and Resource Economics Review*, 49(1), 23-63

Economic Analysis for the Proposed "Revised Definition of 'Waters of the United States'" Rule

Summary: This Economic Analysis (EA) assesses the potential impacts of the proposed changes to the definition of "waters of the United States" based on the potential effects to Clean Water Act (CWA) programs that rely on that definition.

Study Resource: Provides an overview of economic analysis under the primary and secondary baselines for the CWA. The paper discusses the multiple components of the secondary baseline assessment, and provides estimates of the benefits and costs associated with this assessment, by states and for the US.

Applicability to current benefit/cost estimating procedures: This report provides broad guidance for estimating costs and benefits, key components of which, including benefits based on WTP, and various cost categories, were incorporated into a recommended BCA modeling structure for ADEQ.

U.S. Environmental Protection Agency and Department of the Army. (2021). *Economic Analysis for the Proposed "Revised Definition of 'Waters of the United States'" Rule*. https://www.epa.gov/system/files/documents/2021-11/revised-definition-of-wotus_nprm_economic-analysis.pdf

Supplementary Material to the Economic Analysis for the Proposed "Revised Definition of 'Waters of the United States'" Rule

Summary: This document includes the Compendium of State and Tribal Regulations for CWA programs by state that corresponds to the Economic Analysis for the Proposed "Revision Definition of Waters of the United States" Rule report cited above.

Study Resource: See Economic Analysis for the Proposed "Revision Definition of 'Waters of the United States'" Rule report cited above.

Applicability to current benefit/cost estimating procedures: Adds additional context to the approach EPA used in preparing estimates of costs and benefits, as addressed in Revised Definition of 'Waters of the United States Rule.

U.S. Environmental Protection Agency and Department of the Army. (2021). Supplementary Material to the Economic Analysis for the Proposed "Revised Definition of 'Waters of the United States'" Rule. https://www.epa.gov/system/files/documents/2022-01/epa-hq-ow-2021-0602-0087_content.pdf

Upgrading Wetland Valuation via Benefit Transfer

Summary: This study uses updated meta-data on wetland valuation to illustrate how a state-of-the-art meta-regression framework that is consistent with economic theory can be adapted to generate benefit transfer predictions for incremental changes in wetland acreage over space and time. This study also applies this framework to estimate losses in benefits for realistic changes in wetland acreage for some sub-watersheds, as can be expected under the proposed re-definition of the "Waters of the United States" to be protected under the Clean Water Act (CWA).

Study Resource: This study provides an illustration of how recent advances in meta-analytic methods could be applied to value changes in wetland acreage regionally or nationally.

Applicability to current benefit/cost estimating procedures: This study compiles an updated meta-data set on willingness to pay (WTP) to preserve or restore wetlands in the United States, drawing from 17 primary valuation studies as current as 2016. This study also takes advantage of recent advances in meta-regression modeling and computation of predicted benefits via the econometric framework proposed in the previous Moeltner 2019 study within the context of valuing surface water quality changes via Benefit Transfers (BT).

Moeltner, K., Balukas, J. A., Besedin, E., & Holland, B. (2019). Waters of the United States: Upgrading wetland valuation via benefit transfer. *Ecological Economics*, *164*, 106336.

All of the above studies are available at: http://azdeq.gov/node/8173.

8. A showing of good cause why the rulemaking is necessary to promote a statewide interest if the rulemaking will diminish a previous grant of authority of a political subdivision of this state: Not applicable

9. <u>A summary of the economic, small business, and consumer impact:</u> <u>A. An identification of this rulemaking:</u>

The rulemaking addressed by this Economic, Small Business, and Consumer Impact Statement (EIS) contains amendments made by ADEQ to 18 A.A.C. 11, Article 1, in order to adopt and revise Surface Water Quality Standards (WQS) within the State of Arizona. Additionally, this EIS addresses the adoption of 18 A.A.C 11, Article 2, which adopts WQS for non-WOTUS protected surface waters listed on the Protected Surface Waters List. The WQS in Article 2 do not apply generally, and may only be applied to listed surface waters.

B. A brief summary of the EIS:

Interested stakeholders should review ADEQ's Social, Environmental, and Economic cost/benefit analysis technical paper at azdeq.gov/node/8173 for more in-depth information. ADEQ's contractors have drafted the paper to meet the statutory EIS requirements. Additionally, ADEQ has also addressed this topic earlier in the preamble and provided specific information regarding the costs and benefits of this proposed rule.

The three case-study waterbodies ADEQ has used to in this rulemaking provide a contrasting and otherwise informative set of examples by which to illustrate various aspects of the economic impact of this rule.

McClure's quantitative analysis based on the data available for various cost and benefit factors incorporates a framework for addressing additional, qualitative aspects of protecting Arizona waterbodies. These qualitative components add context to the quantified portion of ADEQ's analysis and reflect potential elements of the cost/benefit analysis that could be refined during formal rulemaking. Including these qualitative discussions also helps illustrate certain limitations in the current modeling process.

The quantitative elements synthesize the following types of information:

1. Key characteristics of the three case-study waterbodies for which the cost/benefit process will be performed and which influence the application of various cost and benefit factors.

- 2. Quantified cost and benefit factors to apply to the waterbodies and to the households in the two types of analysis areas.
- 3. Factors for updating cost and benefit estimates derived (by others) in preceding years and for discounting streams of costs and benefits estimated to occur over a subsequent 20-year period.
- <u>4.</u> <u>Cost and benefit totals for each waterbody, and the ratio of benefits to costs.</u>

Qualitative aspects of the analysis are summarized in the contractor report through a series of tables that discuss the broad implications of additional benefit and cost categories not quantified in the current model, Environmental Justice observations based on the quantified demographic data, and the sensitivity of model results to various quantified variables, including how results compared to certain Arizona-specific cost and benefit estimates in the EPA document.

C. Identification of the person who will be directly affected by, bear the costs of, or directly benefit from the rules:

The table below summarizes the persons who will be directly affected by, bear the costs of, or directly benefit from the rules in a manner consistent with the requirements of the EIS statute. Although the analysis completed by the consultant is more complete, this section may serve as a more accessible summary.

This rulemaking could affect ADEQ, political subdivisions, public and private entities who wish to obtain an AZPDES permit for a discharge to a listed surface water, public and private entities who may need to operate under and AZPDES general permit, and public and private laboratories that test for permit compliance. It will also create health, social, and economic benefits to the general public from access to clean water and protection of fish and wildlife.

The AZPDES permitting program is implemented by ADEQ through various general and individual permits. Individual permit holders can include public and private WWTPs, publicly owned treatment works (POTW), fish hatcheries, power plants, mines, truck stops, drinking water plants, marinas, and Water Quality Assurance Revolving Fund (WQARF) remediation projects. Because the WQS adopted in Article 1 of this rulemaking are already in effect, and there are planned of current discharges to any waters listed in Article 2, ADEQ expects the costs of adopting this rulemaking to be extremely low. Nonetheless, based on the information above, ADEQ has identified the following list of potential affected parties:

State and local government agencies

ADEQ,

Agencies operating under individual or general AZPDES permits

Political subdivisions

Political subdivisions generally, public WWTPs, POTWs, public laboratories Non-WWTP government entities operating under AZPDES individual permits Non-WWTP government entities operating under AZPDES general permits

Privately-Owned Businesses

Private entities operating under general permits Private, non-WWTP individual permit holders

Private WWTPs

Private laboratories

The General Public

D. Cost/Benefit analysis:

Cost and Benefit Factors	Class 1 - sky island stream - Cochise Stonghold Cyn.	Class 2 - isolated lake - Pintail Lake & marshes	Class 3 - unique waterbody - Quitobaquito Pond
Size (acres or acre-equivalents (Class 1))	21.76	65.00	0.50
Forested?	Yes	Yes	No
Costs and benefits over a 20-yr. period, discounted			
Costs			
404 permits	\$9,344	\$9,344	\$9,344
Mitigation			
ADEQ Admin	\$62,641	\$111,067	\$74,938
Total	\$71,985	\$120,411	\$84,282
Benefits, from willingness-to-pay (WTP) factors			
Local	\$5,509,181	\$7,840,675	\$3,151
Non-local	\$8,635,112	\$54,780,036	\$4,066
Total	\$14,144,293	\$62,620,711	\$7,216
Arizona component	\$14,982,646	\$68,136,424	\$8,045
Benefit/cost comparison			
Total benefits, Arizona	\$14,982,646	\$68,136,424	\$8,045
Total costs	\$71,985	\$120,411	\$84,282
Benefits/costs (first number in ratio: to 1)	208.1	565.9	0.10

The costs/benefits for each of these potentially affected parties is listed below. Use the following key to decipher the range of costs:

Minimal	Moderate	Substantial	Significant
\$10,000 or less	\$10,001 to \$1,000,000	\$1,000,001 or more	Cost/Burden cannot be calculated, but the Department expects it to be import- ant to the analysis.

Description of Affected Groups	Description of Effect	Increased Cost/ Decreased Revenue	Decreased Cost/ Increased Revenue
ADEQ	Possible increase in number of surface waters identified as impaired and corresponding changes in 303(d) listings and TMDLs.	Minimal	
	Improved implementation and enforcement of the SWQS	Minimal	
	Administrative costs associated with future rulemakings	Significant	
	Predictability, reduced transaction costs, and responsiveness to stakeholders from avoiding federally-promulgated SWQS.		Minimal
	Compliance with state and federal law.		Minimal
	Support of ADEQ's mission to protect and enhance public health and the environment.		Substantial

Political subdivi- sions generally	lax revenues and indirect benefits of clean water dependent indus- tries (including outdoor recreation, tourism, etc.)	•	Cumulatively sub- stantial
Public WWTP and/ or POTW	Increased monitoring costs	Minimal	
of FOT w	Evaluation of compliance with standards	Minimal	
	Cost of compliance with new WQS	Minimal	
	Improved implementation and enforcement of water quality stan- dards by political subdivisions with pretreatment programs.		
	Clarification and correction of errors.		Moderate
Public laboratories	Testing for WQS with accompanying costs.		woderate
		Minimal	
Non-WWTP Gov- ernment entities	Clarification and correction of errors.		Significant
	Cost of compliance with new WQS.	Minimal	
	Clarification and correction of errors.		Significant
ating under general permits	Cost of compliance with new SWQS.	Minimal	
Private WWTP	Clarification and correction of errors.		Significant
	Cost of compliance with new SWQS		
Laboratories	Clarification and correction of errors.		Significant
	Testing for new SWQS with accompanying costs.	Minimal	
General Public	Economic and social benefits of clean water		Cumulatively sub- stantial
Non-WWTP indi-	Clarification and correction of errors.		Significant
vidual permit hold- ers (Power Plants, Mines, Marinas, etc.)	Cost of compliance with new SWQS.	Minimal, if any	

E. A general description of the probably impact on private and public employment in business agencies, and political subdivisions of this state directly affected by the rulemaking:

ADEQ estimates that this rulemaking will not have an impact on public or private employment. To the best of ADEQ's knowledge, the agency does not believe that any of the rule contained in this rulemaking package will result in a private or public entity needed an AZPDES permit.

<u>F.</u> A statement of the probably impact of the rules on small business:

The agency uses the term "small business" consistent with A.R.S. § 41-1001(21) which defines a "small business" as a concern, including its affiliates, which is independently owned and operated, which is not dominant in its field and which employs fewer than one hundred full-time employees or which had gross annual receipts of less than four million dollars in its last fiscal year.

1. An identification of the small business subject to the rules.

Among the stakeholders listed above, many could meet the A.R.S. § 41-1001(21) definition of small business. For example, a WWTP that would potentially discharge to a non-WOTUS protected surface water could be affected by this rule. In its current form, ADEQ cannot identify any small businesses that will be negatively affected by this rulemaking. Conversely, some small businesses may see some benefit in the clarification of WOTUS status of some waters and a clarification of what standards apply to those waters. Some recreational tourism related group may also see benefits from this rulemaking.

2. The administrative and other costs required for compliance with the rules:

Any potential compliance costs associated with this rulemaking would be based on the stakeholder involved. ADEQ's examination of those costs is addressed in the matrix above and the consultant's report.

3. <u>A description of the methods that the agency may use to reduce the impact on small businesses, as required in A.R.S. §</u> <u>41-1035.</u>

In the event that a small business must acquire an AZPDES permit for a discharge to a non-WOTUS protected surface water, ADEQ has adopted water quality standards that allow ADEQ to establish variances, site-specific standards, or account for natural background pollutants when designing the permit.

4. The probable costs and benefits to private persons and consumers who are directly affected by the rules:

ADEQ's economic consultants prepared an executive summary which address the probable costs/benefits of and individual affected by these rules.

<u>G.</u> A statement of the probable effect on state revenues.

This rule should have a di minimus effect on state revenues.

H. A description of any less instructive or less costly alternative methods of achieving the purpose of this rulemaking:

ADEQ continually reviews and revises its WQS. These standards are adopted to protect public health or welfare and enhance the quality of water in the state. This means that WQS should, wherever attainable, provide water quality for the protection and propagation of fish, shellfish and wildlife and for recreation in and on the water and take into consideration the use and value of water for public water supplies, recreation in and on the water, and agricultural, industrial, and other purposes including navigation. EPA will review ADEQ's Article 1 WQS to determine if they are consistent with the requirements of the CWA. If EPA determines

that ADEQ's SWQS do not meet the requirements of the CWA, EPA will disapprove ADEQ's SWQS and promulgate federal standards. ADEQ has, therefore, developed the proposed WQS to comply with federal and state law, and to avoid federally promulgated WQS. Additionally, water quality criteria must be based on sound scientific rationale to protect the designated use, and not economic considerations. ADEQ is not aware of any less intrusive or less costly alternative methods that would meet ADEQ's legal obligations.

I. <u>A description of any data on which the rule is based with a detailed explanation of how the data was obtained and why the data is acceptable data.</u>

ADEQ recommends that interested stakeholder review ADEQ's Arizona Water Quality Standards technical paper for additional information about how data for calculating water quality standards is obtained. The paper can be accessed here: https://static.azdeq.gov/ wqd/swpp/wqs_tp.pdf.

For information regarding ADEQ's economic analysis, ADEQ recommends that interested stakeholder review the consultant's final report and ADEQ's technical paper describing it. ADEQ's technical paper is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and a copy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and acopy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and acopy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and acopy of the consultant report is available here: https://static.azdeq.gov/wqd/swpp/ ese_tp.pdf and acopy of the consultant eset is available here: https://static.az

10. A description of any changes between the proposed rulemaking, to include supplemental notices, and the final rulemaking:

Appendix A

- Non-substantive changes to correct CAS numbers and ensure values represented previously approved standards.
- Barium missing the distinction T after the PBC and FBC standards.
- Cadmium missing the (d) footnote.
- DDT and its breakdown products fixed to be "14 ug/L" for FBC and "0.0002 ug/L" for FC.
- Corrected 2,4,5 TP PBC standard that was inadvertently crossed out.
- Corrected instances where (e) was transformed to € and (c) was transformed to © by word editing software.
- Removed CAS number for Tributyltin to avoid confusion and ensure applicability to all tributyltin species.

Appendix B

- EPA approved fish consumption use was missing from the Cherry Creek listing with the description "Headwaters to confluence with unnamed tributary at 34°05'09"/110°56'07"

- EPA approved Aquatic & Wildlife Coldwater use was missing from the Christopher Creek listing with the description "Headwaters to confluence with Tonto Creek."

- Modified description of Antelope Creek pursuant to EPA comment to reflect that the surface water segment runs from the Headwaters of Antelope Creek to the confluence with Martinez Creek.

- Modified descriptions of 3 Hassayampa River segments pursuant to EPA comment to more accurately identify the reaches.

- Modified the description of Weaver Creek pursuant to EPA comment to reflect that the surface water segment runs from the Headwaters to the confluence with Antelope Creek, tributary to Martinez Creek.

- Modified the description of the Santa Cruz EDW and Santa Cruz River pursuant to EPA comment to more accurate describe the starting point and end point of the segment.

- Modified the description of Camp Creek pursuant to EPA comment to reflect that the segment runs to the Verde River.

- Modified the description of the Del Monte Gulch (EDW) pursuant to EPA comment to reflect that the segment runs to the Verde River.

- Modified the description of Sycamore Creek pursuant to EPA comment.

R18-11-201

- Definition for "Geometric Mean" was missing the associated formula.

R18-11-202

- Corrected R18-11-202(B)(2)(f) to read "Pond of sump" instead of "pon or sump.

R18-11-210

- Corrected an instance where WOTUS was inadvertently spelled "WTOSU."

<u>R18-11-215</u>

- Non-substantive changes to correct CAS numbers and ensure values are correct.

- Barium missing the distinction T after the PBC and FBC standards.
- Cadmium missing the (d) footnote.

- Corrected instances where (e) was transformed to \in and (c) was transformed to \mathbb{O} by word editing software.

- Removed CAS number for Tributyltin to avoid confusion and ensure applicability to all tributyltin species.

<u>R18-11-216</u>

<u>Table A</u>

- Split Stronghold Canyon into two reaches with more appropriate DUs.

- Removed Alvord Park Lake, Cortez Park Lake, and Encanto Park Lake from the non-WOTUS protected surface waters list at the request of the City of Phoenix.

Table B

- Modified header language to provide clarity.

Table C

- Modified header language to provide clarity. Multiple commentors asked ADEQ to clarify the meaning of the Table headings used in R18-11-216. The changes made to these headings are non-substantive and serve to better illustrate the regulations that apply to listed waters.

R18-11-217

- Added the word "upstream" after "1/4 mile" to clarify the rule.

11. An agency's summary of the public or stakeholder comments made about the rulemaking and the agency response to the comments:

The Protected Surface Waters List

ADEQ received several comments regarding waters listed on the Protected Surface Waters List in R18-11-216. Generally, those comments expressed needing clarification about how waters on each list were regulated. As a response to those comments, ADEQ has modified the header text for the tables and provides the following response to the comments listed below:

Comment 1: Municipality - *Article 2, Table C has not been in any prior version of the proposed rule and creates uncertainty about whether these waters would be regulated as WOTUS.*

Following an October 5th conversation with ADEQ, the City appreciates that Table C represents ADEQ's effort to increase transparency and that ADEQ's intent is that these waters will be regulated as WOTUS. The City recommends ADEQ add clarifying language to the title and introduction paragraph for Table C, explaining that these waters were determined previously by ADEQ to be WOTUS, are still being regulated as WOTUS, and that these determinations are being re-affirmed due to the passage of time (or other reason, as determined during ADEQ's analysis). As written, there is a significant lack of clarity for permittees, resulting in an increased risk of illicit discharges in these waters and creating an apparent contradiction between Article 1 and Article 2 WOTUS lists.

ADEQ Response: ADEQ has modified the headers for the table and added language to this preamble to clarify that the waters listed in Table C will be regulated as WOTUS. If any of these waters are further evaluated, and the result is a non-WOTUS determination made through any of the mechanisms mentioned in the heading, the water will then be evaluated for regulatory status under Article 2.

Comment 2: Non-Profit - We appreciate the amount of staff time and effort that goes into the development of a program such as the SWPP. Regarding the proposed Protected Surface Waters List, [non-profit] feels that it is important to protect the waters currently listed in Appendix B of Article 1. The proposed lists in Tables A and B do not appear to include the waters currently listed in Appendix B and the creation of Table C introduces uncertainty. Will those waters listed on Table C no longer be protected? Why was Table C created? What further study would indicate that a waterway should be removed from protections?

ADEQ Response: ADEQ created the additional tables to provide clarity to stakeholders about the status of WOTUS determinations for Arizona waterways. ADEQ has not changed the regulatory scheme that applies to waters listed in Appendix B.

Comment 3: Mining Group - [Mining Group] believes that the most prudent approach in the final version of the surface water protection rules would be for ADEQ to remove any type of suggested WOTUS list or any other form of WOTUS designations. Such an approach is preferred because the status of the WOTUS definition under the CWA is in flux due to EPA's proposed "Revised Defi-

nition of 'Waters of the United States''' (see 86 Fed. Reg. 69,372 (Dec. 7, 2021)) (final version of rule currently being reviewed by the Office of Management and Budget) and the pending U.S. Supreme Court review of the WOTUS-related decision in Sackett v. EPA, 8 F.4th 1075 (9th Cir. 2021) (oral argument heard October 3, 2022). Such an approach would avoid ADEQ creating potentially erroneous assumptions (which could only be changed by subsequent rulemaking) that certain waters are WOTUS even when ADEQ is not clear how WOTUS will be defined three months, six months, or a year from now.

Although we believe not including a list of WOTUS would be the preferred approach, we support ADEQ's addition of language to Table B (WOTUS Protected Surface Waters) of proposed R18-11-216 to clarify that a party can contest a specific water's status as WOTUS in a subsequent permit or enforcement proceeding, in a challenge to identification of the water as an impaired WOTUS, and/or in a challenge to a proposed TMDL for the water as an impaired WOTUS. Because of the regulatory and judicial uncertainty surrounding the definition of WOTUS, such a recognition of the tentative nature of the waters listed in Table B is appropriate.

We also support ADEQ's inclusion of a separate Table C that identifies certain water segments as historically regulated as WOTUS but that need further study. We interpret this table as simply listing waters that may qualify as WOTUS now or in the future, but for which additional analysis is necessary and which are not currently identified as "WOTUS protected surface waters" by rule. This reflects the reality that ADEQ has not had the resources to conduct a detailed jurisdictional analysis on every surface water in Arizona, especially those where a significant nexus analysis is required before jurisdiction can be asserted under current law. Identifying that the WOTUS status of the waters on Table C is uncertain, rather than assuming they constitute WOTUS, is an appropriate approach if ADEQ wishes to have lists of waters in the final rule.

If ADEQ maintains Tables B and C in the final version of the surface water protection rules, [mining group] requests that the preamble language found at the bottom of page 2352, 28 A.A.R., and at the top of page 2353, 28 A.A.R. be revised to ensure that it is consistent with the lead-in language to both Table B (see 28 A.A.R. at 2416) and Table C (see 28 A.A.R. at 2420) of proposed R18-11-216. In addition, ADEQ should make clear that waters appearing on Table C ultimately may be determined not to constitute either a WOTUS or a non-WOTUS protected surface waters (e.g., an ephemeral water that does not possess a significant nexus with a traditional navigable water).

ADEQ Response: ADEQ appreciates the support in labeling tables and the suggestions provided in this comment. ADEQ has modified the headings in the final rulemaking to help provide clarity and consistency about how waters are regulated. ADEQ has listed all known WOTUS as part of the PSWL on either Table B or Table C because the new §49-221 requires that the PSWL contain "[a]ll WOTUS." Lastly, ADEQ has modified the table headings to create clarity that waters listed on Table B and Table C are regulated as WOTUS.

Comment 4: Public Utility - Under the SWPP, protected surface waters include all WOTUS (Waters of the United States) as defined by 42 U.S.C. § 1362(7) of the Federal Water Pollution Control Act (CWA) and waters of the state that are listed on the protected surface waters list under A.R.S. §49-221(G). A.R.S. § 49-202(38). The Protected Surface Water List (PSWL) in proposed rule A.A.C R18-11-216 identifies three categories of waters in Tables A through C: Non-WOTUS Protected Surface Waters, WOTUS Protected Surface Waters, and Historically Regulated as WOTUS and in Need of Further Study. SRP appreciates ADEQ's efforts to add clarity by distinguishing between WOTUS protected surface waters and non-WOTUS protected surface waters, consistent with the statutory framework. See A.R.S. § 49-202 (27) & (54). SRP believes this distinction will assist regulated entities in preparing permit applications because it makes clear which regulations apply to which waters, at least from ADEQ's perspective.

SRP also recognizes the continuing uncertainty regarding the scope of WOTUS impacts ADEQ's ability to make WOTUS/non-WOTUS determinations and that there will need to be an ongoing regulatory process to update Tables A through C. SRP understands that ADEQ began the process of making updated jurisdictional determinations, based on the currently applicable WOTUS definition. SRP also understands that those updated determinations are reflected in "Table A: Non-WOTUS Protected Surface Waters." and "Table B: WOTUS Protected Surface Waters." While the scope of WOTUS may change following the Supreme Court's decision in Sackett v. U.S. Environmental Protection Agency and future rulemakings by the U.S. Environmental Protection Agency, SRP recommends that ADEQ remove the language preceding Table B that identifies ADEQ's determinations as tentative, as such language creates confusion regarding the distinction between the waters listed in Table B and those identified in "Table C: Historically Regulated as WOTUS and in Need of Further Study" (Table C Waters).

It is unclear how Table C Waters fit within the statutory scheme of A.R.S. § 49-221(G) which identifies WOTUS and non-WOTUS protected surface waters. Because ADEQ previously determined such waters to be WOTUS, by including such waters in Appendix B of Title 18, Chapter 11 of the Arizona Administrative Code, SRP interprets the proposed regulation to mean that ADEQ will regulate the Table C Waters as WOTUS until ADEQ has had the opportunity to make an updated jurisdictional determination. Nonetheless, SRP recommends that the regulation expressly state as such in the text preceding Table C. In addition, ADEQ should rename Table C to better reflect ADEQ's intent that the Table C Waters will be regulated as WOTUS until ADEQ makes a different regulatory determination.

SRP also asks that ADEQ clarify the process by which ADEQ intends to address the regulatory status of the Table C Waters after completing the updated jurisdictional determinations. ADEQ should provide for an open and transparent rulemaking process, subject to notice and comment from the public, as it makes determinations regarding the Table C Waters. SRP suggests that ADEQ take a systemic approach and assess waters within the same watershed or sub-watershed to allow interested parties the opportunity to provide information in a systematic and predictable basis. This formalized rulemaking process is necessary because many of the Table C Waters would be regulated as non-WOTUS protected waters under Table A if they are not considered WOTUS and placed on Table B. For example, the entirety of the Salt River below Granite Reef Dam would be regulated as a non-WOTUS protected water if it is not a WOTUS. See A.R.S. 49-221(G)(1)(b). Similarly, all perennial and intermittent tributaries to the eight major rivers in Arizona (Bill Williams, Colorado, Gila, Little Colorado, Salt, San Pedro, Santa Cruz and Verde) must be placed on Table A if they are not WOTUS. A.R.S. 49-221(G)(1)(3)(b).

ADEQ Response - As a result of the above comments, ADEQ has provided clarifying language in both the preamble and the headers to each table on the PSWL. To once again clarify, waters that are listed under Table A are regulated by the standards listed in Article 2 that apply to non-WOTUS protected surface waters.

Waters that are listed under Table B are protected as WOTUS under ADEQ's current regulations, and are protected by water quality standards in Article 1. Waters that are listed under Table C are protected as WOTUS under ADEQ's current regulations, and are protected by the water quality standards in Article 1.

ADEQ will continue to adhere to the notice and comment process outlined in the Arizona Administrative Procedure act during any future SWPP rulemakings.

ADEO's Economic, Social, and Environmental Cost/Benefit (ESE) Analysis

ADEQ received multiple comments regarding the ESE analysis that was submitted as part of the proposed rulemaking. Much of the commentary regarding the process used by ADEQ is not directed at the specific standards adopted or the waters protected under the program but at variables used throughout the process. ADEQ has not significantly modified our economic analysis between the NPRM and the

NFRM as a result of these comments. ADEQ has selected excerpts from 4 comments that the agency believes accurately express the differing viewpoints of the comments submitted pursuant to the agency's NPRM. These excerpts regarding this process are copied below. Some comments are not presented in their entirety, as ADEQ is only addressing portions of letters that specifically mention the cost-benefit analysis in this section of the NFRM.

Comment 1: Non-Profit - There is no requirement to consider the impacts and negative consequences, including the costs, of not establishing water-quality standards at a particular level for excluded ephemeral waters and springs that do not reach Traditional Navigable Waters. The ecosystem services provided by streams and springs should be part of any cost/benefit analysis.

Social justice and environmental justice should be considered as part of any analysis as well. The narrative accompanying the rule on page 18, Economic, Social and Cost-benefit analysis states, "1. If the water is not categorically excluded from the SWPP as defined in § 49-221 and the economic, social and environmental benefits of adding the water outweigh the economic, environmental and social costs of excluding the water from the list, the water may be added to the PSWL." The rule should be modified to clarify that the water shall be added, rather than may be added to protect additional waters.

The rule includes no consideration of the value of cultural waters for the 22 Tribes and other Indigenous peoples. There is no requirement for protection for this use. This huge oversight in the legislation should be addressed in the implementation of the program. An example is the cost-benefit analysis used for Quitobaquito pond. It does not recognize the economic impact of harm to this pond relative to cultural value nor does it recognize the benefits. As is acknowledged by ADEQ, it also does not adequately address the importance as habitat for rare and endangered species (rule package page 2345).

The Arizona Department of Environmental Quality (ADEQ) should adopt and apply water-quality standards for non-WOTUS protected surface waters based on Outstanding Arizona Waters designation. Additionally, the Surface Water Protection Program should apply to ephemeral waterways and an aquatic and wildlife (ephemeral) designated use should be adopted.

Comment 2: Tribal Group - Of concern is the cost-benefit analysis in the proposed rule as it may be inadequate for properly recognizing and valuing water bodies that have cultural or spiritual importance to the Tribe and/or other Arizona tribes. Given the Arizona Pollutant Discharge Elimination permit for Resolution Copper Mine, LLC, and the resulting litigation initiated by the Tribe, the Tribe is wary of efforts to assign monetary value to cultural or spiritual resources. Furthermore, numerous off-reservation streams, washes and springs that are sacred to Arizona's Native American tribes may slip through the draft classification scheme.

Comment 3: Mining Group - Commenter has several concerns with ADEQ's proposed approach to calculating and considering the economic, social, and environmental costs and benefits that (1) would result from the adoption of a water quality standard at a particular level or for a particular water category for non-WOTUS surface waters (see A.R.S. § 49-221(A)(2)); or (2) would be used to determine whether to add or remove non-WOTUS surface waters from ADEQ's protected surface water list (see A.R.S. § 49-221(G)(4), (6)). These concerns include:

ADEQ's cost-benefit approach does not appear to accurately evaluate the potential economic, social, and environmental costs and benefits of imposing water quality standards on non-WOTUS surface waters, given that ADEQ simply is proposing standards that are equal to those imposed on WOTUS waters using very conservative approaches and criteria following EPA guidance. The requirement for ADEQ to conduct a cost-benefit approach under A.R.S. § 49-221(A)(2) was intended to avoid imposition of national criteria adopted by EPA, which do not necessarily account for the unique nature of Arizona's waters, to non-WOTUS surface waters in Arizona. AMA recognizes that some of Arizona's existing surface water quality criteria for WOTUS waters, and which are being applied to non-WOTUS waters in the NPRM, do account for Arizona species or other Arizona-specific conditions. However, this is not true across the entire suite of criteria that are being proposed to be applied to non-WOTUS protected surface waters.

There does not appear to be a separate cost-benefit approach or analysis when ADEQ is considering adding or removing non-WOTUS surface waters from the protected surface water list or when it is evaluating whether to apply EPA-based surface water quality standards to non-WOTUS waters. These are two different determinations that should consider different costs and benefits and potential approaches, yet that is not fully addressed in the NPRM. For instance, after discussing some cost and benefit factors and including a table on what ADEQ describes as class 1 through class 3 surface features, ADEQ concludes that based on its modeling it proposes to protect class 1 and class 2 waters with water quality standards that are like those applied to waters subject to only federal jurisdiction. See 28 A.A.R. at 2345. However, the only cost categories used were for "404 permits," "mitigation," and "ADEQ Admin." The costs categories do not make sense because the evaluated classes of surface waters are non-WOTUS and therefore would not be subject to 404 permitting or mitigation. In contrast, such waters would be subject to costs associated with potential AZPDES permitting (including under both individual and general permits), compliance with surface water quality standards at the same level as federally-regulated waters, potential impaired waters listings and TMDLs, compliance with best management practices for activities occurring within the ordinary high water mark of such waters or for certain activities within the bed and banks of upstream waters that materially impact the downstream non-WOTUS protected surface water. None of these costs are even listed, mentioned, or discussed in ADEQ's cost-benefit analysis.

Commentor questions ADEQ's and its consultant's use of the joint EPA and Corps 2021 Economic Analysis for the Proposed Revised Definition of WOTUS Rule ("2021 Economic Analysis") as a basis for determining costs and benefits related to imposition of standards on non-WOTUS waters. Overall, we strongly disagree with using an economic model that was crafted specifically to justify a broad expansion of federal jurisdiction over surface waters in the United States as the basis for the cost/benefit analysis under Arizona's surface water protection program. Use of such an economic model likely resulted in biases towards overestimating benefits and underestimating costs. We also agree with many of the criticisms to the 2021 Economic Analysis contained within an expert report submitted to EPA and the Corps as an exhibit to the Waters Advocacy Coalition's comments on EPA's and the Corps' revised definition of WOTUS. See David Sunding, Ph.D., and Gina Waterfield, Ph.D., The Brattle Group, Review of the Environmental Protection Agency and Department of the Army 2021 Economic Analysis for the Proposed "Revised Definition of Waters of the United States'" Rule (Feb. 7, 2022) (copy attached and incorporated as part of these comments). The criticisms, which would apply to ADEQ's use of the 2021 Economic Analysis, include:

EPA and the Corps failed to explain the significant differences between the estimates of benefits and costs found in the 2021 Economic Analysis and the estimates used just two years prior by the same agencies for the Navigable Waters Protection Rule. See id. at 7.

The cost estimate analysis in the 2021 Economic Analysis fails to quantify costs associated with avoidance and minimization measures, even though such costs are likely to be significant in comparison with other identified permit costs. See id. at 9-10.

The cost estimate analysis in the 2021 Economic Analysis fails to quantify implicit costs, such as project delays or transferring projects from jurisdictional to non-jurisdictional areas. See id. at 10.

The benefit estimate analysis in the 2021 Economic Analysis relies heavily on a contingency valuation approach, which has a "tendency [for] survey respondents to provide inaccurate and inconsistent answers. The agencies do not discuss these important shortcomings of the studies that form the basis of their benefits estimate, or the likely bias as a result." Id. at 13.

The willingness to pay estimates relating to perceived benefits are derived from outdated and inaccurate studies. See id.

Because of the numerous issues outlined above with ADEQ's reliance on the EPA and Corps 2021 Economic Analysis, AMA is concerned with ADEQ's use of a benefit transfer approach when calculating costs and benefits and whether this approach, at least as applied by ADEQ for surface waters in Arizona, appropriately calculates potential costs and benefits related to either designation waters as non-WOTUS protected surface waters or imposition of water quality standards on non-WOTUS waters. The selection of the cost and benefit categories or inputs will drive the usefulness of this approach.

We disagree with many of the cost and benefit inputs used in McClure's second report (including in the table found at 28 A.A.R. at 2345) especially as applied to a cost/benefit analysis for determining whether to impose certain water quality standards on non-WOTUS protected surface waters.

Comment 4: Conservation Group - *I have read ADEQ's document packet - Environmental, Social, and Economic Cost/Benefit Analysis.* I certainly appreciate the complex nature of the task to assign costs and benefits to determine the selection and importance of waters to be included for protection.

As the analysis provided by ADEQ and consultants in the documents reported, assigning costs is a much more straightforward task than determining benefits. This is especially true for waters that have perhaps a less clear determination of their value, or are appreciated by consumers or state residents in a way that defies current best attempts at estimating that value.

I understand the attempt to utilize the three scenarios in the document as a way to explain the range of possible cost/benefit analyses that could be accomplished with the tools that ADEQ is considering.

However, the use of these particular scenarios and the analyses of the benefits provided in the examples gave cause for concern.

It is critical that all waters are valued for their important characteristics, many of which may not be adequately measured by the tools that you are considering. Some examples that are perhaps more likely to be erroneously valued are:

- waters that are home to, or provide habitat used by endangered or threatened species

- waters that are valued by anglers because they hold populations of wild, introduced trout (brown, rainbow, and brook trout) that are a rare commodity in Arizona due to the limited cold water habitat in our state

- waters that provide protection, and current or eventual catch and release fishing opportunity for recovery populations of native Gila or Apache trout.

A point of concern in your evaluation of waters related to fishing is whether the act of fishing is intended to result in consumption of the fish. While many of the waters on the ADEQ list fit that criteria, there are many more that do not. These waters are designated as catch and release waters by Arizona Game and Fish Department (AZGFD), and are of incredible value to the state.

Gila trout and our state fish, Apache trout, provide a useful example to our assertion. Both of these native trout were once listed as endangered in Arizona. Apache trout were downlisted to threatened in 1975, and Gila trout were downlisted in 2006 due to an incredible amount of work and investment by several agencies and organizations including: AZGFD, United States Forest Service (USFS), United States Fish and Wildlife Service (USFWS), the White Mountain Apache Tribe, and Trout Unlimited (TU). If the water quality where these recovery populations reside is not maintained, and that contributes to these fish being returned to their endangered status, then these agencies and organizations will incur tremendous cost to bring them back from that designation.

There is an economic driver component for protecting these fish that may not be accounted for in the Department's analysis as well. These native, threatened trout in the AZGFD identified recovery streams are highly sought by anglers, fly fishers in particular, who will travel great distances to catch and release these rare and beautiful trout.

Native Gila and Apache trout are valued by anglers across the state, as well as anglers from across the country and the world who are already coming to the recovery waters that have been opened to catch and release fishing in order to add these special trout to their catch list. AZGFD has a wild trout challenge that anglers from across the country participate in. It is unclear if the economic benefit to the state as a result of anglers traveling to Arizona and the purchases they make (fishing license, fishing equipment, plane fare, rental cars, lodging, meals, etc.) is adequately calculated in your cost/benefit tools. This becomes further complicated by the fact that as AZGFD works to improve these identified recovery streams for Gila and Apache trout, that it sometimes takes several years for the populations to grow and stabilize to the point that catch and release fishing can occur on these streams.

There is another element of protecting these waters that are home to these native and wild trout and other protected species, that may not be adequately included in the calculations that we want to address. Many residents value these waters because they provide habitat for species that these residents do not want to see vanish from Arizona. That puts an additional premium on the quality of the water that is maintained in these streams. Your document notes incremental vs absolute attention to the water quality of a protected stream or lake. Absolute water quality is critical to these streams.

The value of maintaining the highest quality water possible is important to another concern that we have. There is the exponential cost to deal with these protected waters, after the fact, if they are spoiled. The Four Forest Restoration Initiative (4FRI) provides an example to what we mean. We have seen the devastation caused in our state by the ever increasing threat of wildfires. In the case of 4FRI, this footprint includes watersheds that are home to many of the trout streams that we feel are important to protect. It also supplies water to Rim Country communities, and is an extremely important water source for the Phoenix Metro area. Consider the minimal preventive costs of maintaining the quality of these protected waters to that of the treatment costs of severely tainted water before it can be used by people downstream. Add to that the restoration costs to the watershed if an important water source for millions is damaged. We are not sure that the Department's tools provide for this aspect of cost/benefit analysis.

We ask that ADEQ expand their search for tools that better capture the inherent value of Nature to a greater degree than the tools that Department has considered to this point. We offer this link to the Intergovernmental Science-Policy platform on Biodiversity and Ecosystem Services (IPBES) "Assessment Report on the Diverse Values and Valuation of Nature": https://ipbes.net/media_release/Values_Assessment_Published#:~:text=%E2%80%9CNature%20is%20what%20sustains%20us,left%200_ut%20of%20decision%20making_as_a possible source that the Department might want to explore. In addition to a review of this tool by ADEQ, we hope that a more thorough review by ADEQ of other possible tools to better capture the value of the kinds of waters we have highlighted will occur and result in strategies to better assess the true benefits of these valued waters.

ADEQ Answer - The regulations adopted in this rulemaking accomplish two ESE analysis-related statutory requirements. First, the ESE analysis considers the water quality standards adopted by ADEQ, then applies those water quality standards to certain waters to ensure that the benefits of protecting any listed waters outweigh the cost of protecting those waters. Second, this rulemaking establishes a procedure for determining economic, social, and environmental costs/benefits in any future SWPP rulemaking.

The regulations adopted by ADEQ in this rulemaking at R18-11-213 are put in place to provide regulatory guardrails to any future SWPP rulemakings. These guidelines are a recognition that rulemaking done pursuant to the existing statutory authority could take many forms. Potentially, future rulemaking could add or remove waters from the PSWL without modifying water quality standards. The opposite is also true, ADEQ could modify water quality standards for non-WOTUS protected surface waters without modifying what waters are protected. The important part of the process is that the ESE valuation process must be tailored to the rulemaking that ADEQ is looking to accomplish.

The idea of a tailored economic analysis is extremely important in the context of this initial SWPP rulemaking. ADEQ performed two ESE analyses with the help of our contracted economists to ensure the requirements of the statute were met. As mentioned earlier in this preamble, one of the issues with the first analysis ADEQ completed is that it lacked specificity with regard to the variables that were being applied. To state that in another way, in a vacuum, it's impossible to determine costs or benefits without applying the analysis in some specific way.

ADEQ's second ESE analysis addresses that deficiency and quantifies a set of standards that are protective of non-WOTUS protected surface waters without being overly burdensome. The cost of adopting these standards depends on the nature and type of discharge to the protected water body. At the time of this rulemaking, there are no permits currently issued for any discharges to non-WOTUS waters on the protected surface waters list. As applied, the only entity that will bear costs associated with the adopted standards is ADEQ for the purposes of water quality sampling and administration.

In the event that there is a permitted discharge to a non-WOTUS protected surface water, ADEQ has adopted water quality standards that could affect both the costs and benefits of the regulations in this NFRM. The mixing zones standards in R18-11-207, the natural back-ground standards in R18-11-207, the schedule of compliance standard in R18-11-208, the variance standard in R18-11-209, and the site-specific standard rule in R18-11-210 are all water quality standards adopted in this rulemaking that could affect the enforceable limit of any permit issued under the new SWPP.

The hypothetical nature of any of the costs/benefits included in ADEQ's model are extremely important to consider because, as adopted, there are no ascertainable costs/benefits that the agency can assign to the SWPP because there simply is not a permit that will be issued pursuant to it after adoption. ADEQ rulemaking requirements included establishing criteria for the economic, social, and environmental costs and benefits for listing or delisting waters for state-level protection, and for setting standards for non-WOTUS and other waters of the state. Accordingly, the consulting team focused on variables pertaining to modeling the economic costs and benefits associated with decisions for adopting water quality standards for non-WOTUS waters and other waters of the state, and for listing or delisting waters for protection within a new Surface Water Protection Program as well as a parallel consideration in recognizing, at least a qualitative sense, the social effects associated with waterbody actions.

Pursuant to ADEQ's direction, the Consultants used a national study that analyzed economic effects of applying a surface water protection program as a general framework for the Arizona-specific model. The national study includes both national and state-level costs as well as estimates for benefits, along with a proposed framework for evaluating benefits at smaller levels of geography. Ultimately, the ADEQ model used in this rulemaking generally reflects the scope, methodology, and data sources used in the national study, but the consultants adapted and supplemented the framework to address the policy actions that are most likely to occur in Arizona.

This approach is consistent with the requirements of the statute and simultaneously gave ADEQ the specific type of analysis necessary to protect the listed waters, as well as a way to quantify the potential costs and benefits of the standards the agency is adopting. ADEQ released the consultant's report to the public in May of this year for comment and received no written comments on the material until the publication of the NPRM. ADEQ has a statutory deadline of December 31st, 2022, to adopt the rules in this NFRM.

ADEQ appreciates the comments submitted on our ESE analysis, especially the reports that help quantify the costs and benefits of a potential surface water protection program in Arizona. The agency has cataloged these submitted studies for use in any future SWPP rulemaking.

Commenters also suggested additional costs or benefits categories that could be included in future rulemaking. These variables included environmental justice considerations, cultural impacts, prospective costs that could potentially be incurred if a water was determined to be impaired, benefits associated with the preservation of endangered species, and benefits associated with ecosystem services. ADEQ has noted these comments and will explore expanding our ESE analysis in any future rulemaking.

Each SWPP rulemaking is unique, and ADEQ encourages stakeholders to continue to engage on the topic of developing an appropriate ESE analysis for each individual iteration of this program. Variables that are determinative in one analysis may not be included in another. The rules adopted by ADEQ to provide regulatory guardrails in future SWPP rulemakings ensure that a public process relevant to the specific rule is provided by the agency whenever water quality standards are modified, or waters are added or removed from the PSWL.

Typographical Errors

ADEQ Response - ADEQ has addressed typographical errors pointed out by commenters in this NFRM. These changes are outlined in the modifications section of the NFRM.

Protection for Non-WOTUS Ephemeral Streams

Through the rulemaking process, ADEQ has received multiple comments regarding the protection of ephemeral streams under the state program. The enabling legislation for the SWPP prevents ADEQ from adding those waters as non-WOTUS-protected surface waters.

Request for the Addition or Removal of Certain Waters

During the rulemaking process, ADEQ received comments from several parties asking to either add or remove waters from the Protected Surface Waters List.

ADEQ received requests to list the following waters, or portions of the following waters, on the Protected Surface Waters List:

- 1. Benny Creek (LC)
- 2. Benton Creek (LC)
- 3. Grapevine Creek (Agua Fria drainage/MG)
- 4. Soldier Creek Black River (SR)
- 5. Hayground Creek (SR)
- 6. McKittrick Creek (UG)

ADEQ received requests to remove the following waters, or portions of the following waters, from the Protected Surface Waters List:

- 1. Alvord Park Lake
- 2. Cortez Park Lake
- 3. Encanto Park Lake
- 4. Garden Canyon Creek
- 5. Mineral Creek
- 6. Whitewater Draw
- 7. Queen Creek

ADEQ uses a methodology documented across two technical papers to add or remove waters from the PSWL. The technical paper describing the process of adding waters to the PSWL can be accessed here: https://static.azdeq.gov/wqd/swpp/pswl_wp.pdf. The technical paper that describes the WOTUS evaluation process can be accessed here: https://static.azdeq.gov/wqd/swpp/sig_nex_tp.pdf.

For those waters that were nominated for listing on the PSWL, WOTUS evaluations are ongoing to determine jurisdictional status. For waters that were requested to be removed, ADEQ removed Alvord Park Lake, Cortez Park Lake, and Encanto Park Lake from the PSWL. These are non-WOTUS ornamental and urban lakes, which require a confirmation from the lake owner for listing. The lake owner requested removal during the NPRM comment period. Garden Canyon Creek, Mineral Creek, Whitewater Draw, and Queen Creek are currently listed in Appendix B and are waters listed in Table C. These waters need further evaluation to determine jurisdictional status.

12. All agencies shall list other matters prescribed by statute applicable to the specific agency or to any specific rule or class of rules. Additionally, an agency subject to Council review under A.R.S. §§ 41-1052 and 41-1055 shall respond to the following questions:

None

a. Whether the rule requires a permit, whether a general permit is used and if not, the reasons why a general permit is not used:

ADEQ's regulations do allow for general permits for many different types of facilities, but not all facilities qualify for

general permits. In the case that a general permit does not apply this rule may require that entities that discharge to non-WOTUS protected surface water apply for an individual AZPDES permit. Requirements for discharge vary depending on the facility, so many of these discharges would not be able to receive coverage under a general permit.

b. Whether a federal law is applicable to the subject of the rule, whether the rule is more stringent than federal law and if so, citation to the statutory authority to exceed the requirements of federal law:

The Clean Water Act and implementing regulations adopted by EPA apply to the subject of this rule, as described in Section 5 above. Article 2 of this rulemaking establishes water quality standards that are applicable to surface waters that are not protected under the Clean Water Act. These standards are not more stringent than those the standards implemented by federal law, but they apply to waters that may not be protected under federal law.

ADEQ was given explicit statutory authority to develop a program to protect these surface waters by HB2691(2021). That bill is codified at A.R.S. §§ 49-202.01, 49-221, 49-255.04, and 49-255.05.

- c. Whether a person submitted an analysis to the agency that compares the rule's impact of the competitiveness of business in this state to the impact on business in other states: No such analysis was submitted.
- <u>13.</u> <u>A list of any incorporated by reference material as specified in A.R.S. § 41-1028 and its location in the rules:</u> None
- 14. Whether the rule was previously made, amended or repealed as an emergency rule. If so, cite the notice published in the Register as specified in R1-1-409(A). Also, the agency shall state where the text was changed between the emergency and the final rulemaking packages: Not applicable
- 15. The full text of the rules follows:

CHAPTER 11. DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY STANDARDS

ARTICLE 1. WATER QUALITY STANDARDS FOR SURFACE WATERS

Section

- R18-11-101. Definitions
- Appendix A. Numeric Water Quality Standards
- Table 1.Water Quality Criteria By Designated Use
- Appendix B. Surface Waters and Designated Uses

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

Section

Section	
R18-11-201.	Repealed Definitions
R18-11-202.	Repealed Applicability
R18-11-203.	Repealed Designated Uses for Non-WOTUS Protected Surface Waters
R18-11-204.	Repealed Interim, Presumptive Designated Uses
R18-11-205.	Repealed Analytical Methods
R18-11-206.	Repealed Mixing Zones
R18-11-207.	Repealed Natural Background
R18-11-208.	Repealed Schedules of Compliance
R18-11-209.	Repealed Variances
R18-11-210.	Repealed Site Specific Standards
R18-11-211.	Repealed Enforcement of Non-permitted Discharges to Non-WOTUS Protected Surface Waters
R18-11-212.	Repealed Statements of Intent and Limitations on the Reach of Article 2
R18-11-213.	Repealed Procedures for Determining Economic, Social, and Environmental Cost and Benefits
R18-11-214.	Repealed Narrative Water Quality Standards for Non-WOTUS Protected Surface Waters
<u>R18-11-215.</u>	Numeric Water Quality Standards for Non-WOTUS Protected Surface Waters
<u>Table 1.</u>	Water Quality Criteria By Designated Use
<u>Table 2.</u>	Acute Water Quality Standards for Dissolved Cadmium
Table 3.	Chronic Water Quality Standards for Dissolved Cadmium
<u>Table 4.</u>	Water Quality Standards for Dissolved Chromium III
Table 5.	Water Quality Standards for Dissolved Copper
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<u>Table 7.</u>	Water Quality Standards for Dissolved Nickel
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<u>Table 10.</u>	Water Quality Standards for Pentachlorophenol
<u>Table 11.</u>	Acute Standards for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Coldwater, Unionid Mussels Present
<u>Table 12.</u>	Acute Standards for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Warmwater, Unionid Mussels Present
<u>Table 13.</u>	Chronic Criteria for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Coldwater and Warmwater, Unionid
	Mussels Present
<u>Table 13.</u>	

<u>Table 14.</u>	Acute Standards for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Coldwater, Unionid Mussels Absent
<u>Table 15.</u>	Acute Standards for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Warmwater and Effluent Dependent,
	Unionid Mussels Absent
<u>Table 16.</u>	Chronic Standards for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Warmwater and Effluent Dependent,
	Unionid Mussels Absent
<u>Table 17.</u>	Chronic Criteria for Total Ammonia (in mg/L, as N) for Aquatic and Wildlife Coldwater, Unionid Mussels Absent
<u>R18-11-216.</u>	The Protected Surface Waters List
Table A.	Non-WOTUS Protected Surface Waters and Designated Uses
Table B.	WOTUS Protected Surface Waters
Table C.	Historically Regulated as WOTUS and in Need of Confirmation
R18-11-217.	Best Management Practices for Non-WOTUS Protected Surface Waters

ARTICLE 1. WATER QUALITY STANDARDS FOR SURFACE WATERS

R18-11-101. 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 (AgI)" means the use of a surface water for crop irrigation.
- 3. "Agricultural livestock watering (AgL)" means the use of a surface water as a water supply for consumption by livestock.
- 4. "Annual mean" is the arithmetic mean of monthly values determined over a consecutive 12-month period, provided that monthly values are determined for at least three months. A monthly value is the arithmetic mean of all values determined in a calendar month.
- 5. "Aquatic and wildlife (cold water) (A&Wc)" means the use of a surface water by animals, plants, or other cold-water organisms, generally occurring at an elevation greater than 5000 feet, for habitation, growth, or propagation.
- 6. "Aquatic and wildlife (effluent-dependent water) (A&Wedw)" means the use of an effluent-dependent water by animals, plants, or other organisms for habitation, growth, or propagation.
- 7. "Aquatic and wildlife (ephemeral) (A&We)" means the use of an ephemeral water by animals, plants, or other organisms, excluding fish, for habitation, growth, or propagation.
- 8. "Aquatic and wildlife (warm water) (A&Ww)" means the use of a surface water by animals, plants, or other warm-water organisms, generally occurring at an elevation less than 5000 feet, for habitation, growth, or propagation.
- 9. "Arizona Pollutant Discharge Elimination System (AZPDES)" means the point source discharge permitting program established under 18 A.A.C. 9, Article 9.
- 10. "Assimilative capacity" means the difference between the baseline water quality concentration for a pollutant and the most stringent applicable water quality criterion for that pollutant.
- 11. "Clean Water Act" means the Federal Water Pollution Control Act [33 U.S.C. 1251 to 1387].
- 12. "Complete Mixing" means the location at which concentration of a pollutant across a transect of a surface water differs by less than five percent.
- 13. "Criteria" means elements of water quality standards that are expressed as pollutant concentrations, levels, or narrative statements representing a water quality that supports a designated use.
- 14. "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 oneday 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.
- 15. "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 aver-age 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 (7Q10), 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.
- 16. "Deep lake" means a lake or reservoir with an average depth of more than 6 meters.
- 17. "Designated use" means a use specified in Appendix B of this Article for a surface water.
- 18. "Domestic water source (DWS)" means the use of a surface water as a source of potable water. Treatment of a surface water may be necessary to yield a finished water suitable for human consumption.
- 19. "Effluent-dependent water (EDW)" means a surface water or portion of a surface water, elassified under R18-11-113 that consists of a point source discharge of wastewater without which the surface water would be ephemeral. An effluent-dependent water is a surface water that, without the point source discharge of wastewater, would be an ephemeral water. An effluent-dependent water may be perennial or intermittent depending on the volume and frequency of the point source discharge of treated wastewater.
- "Ephemeral water" means a surface water that has a channel that is at all times above the water table and or portion of surface water that flows or pools only in direct response to precipitation.

- 21. "Existing use" means a use attained in the waterbody on or after November 28, 1975, whether or not it is included in the water quality standards.
- 22. "Fish consumption (FC)" means the use of a 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.
- 23. "Full-body contact (FBC)" means the use of a 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.
- 24. "Geometric mean" means the nth root of the product of n items or values. The geometric mean is calculated using the following formula:

$$GM_y = \sqrt[n]{(Y_1)(Y_2)(Y_3)(Y_n)}$$

- 25. "Hardness" means the sum of the calcium and magnesium concentrations, expressed as calcium carbonate (CaCO3) in milligrams per liter. "Igneous lake" means a lake located in volcanic, basaltic, or granite geology and soils.
- 26.
- 27. "Intermittent water" means a stream or reach surface water or portion of surface water that flows continuously only at during certain times of the year and more than in direct response to precipitation, such as when it receives water from a spring, elevated groundwater table or from another surface source, such as melting snow snowpack.
- 28. "Mixing zone" means an area or volume of a surface water that is contiguous to a point source discharge where dilution of the discharge takes place.
- 29. "Oil" means petroleum in any form, including crude oil, gasoline, fuel oil, diesel oil, lubricating oil, or sludge.
- 30. "Outstanding Arizona water (OAW)" means a surface water that is classified as an outstanding state resource water by the Director under R18-11-112.
- 31. "Partial-body contact (PBC)" means the recreational use of a 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.
- 32. "Perennial water" means a surface water or portion of surface water that flows continuously throughout the year.
- 33. "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. A.R.S § 49-201(29)
- 34. "Pollutant Minimization Program" means a structured set of activities to improve processes and pollutant controls that will prevent and reduce pollutant loadings.
- 35. "Practical quantitation limit" means the lowest level of quantitative measurement that can be reliably achieved during a routine laboratory operation.
- "Reference condition" means a set of abiotic physical stream habitat, water quality, and site selection criteria established by the 36. Director that describe the typical characteristics of stream sites in a region that are least disturbed by environmental stressors. Reference biological assemblages of macroinvertebrates and algae are collected from these reference condition streams for calculating the Arizona Indexes of Biological Integrity thresholds.
- "Regional Administrator" means the Regional Administrator of Region IX of the U.S. Environmental Protection Agency. 37.
- 38. "Regulated discharge" means a point-source discharge regulated under an AZPDES permit, a discharge regulated by a § 404 permit, and any discharge authorized by a federal permit or license that is subject to state water quality certification under § 401 of the Clean Water Act.
- 39. "Riffle habitat" means a stream segment where moderate water velocity and substrate roughness produce moderately turbulent conditions that break the surface tension of the water and may produce breaking wavelets that turn the surface water into white water.
- 40. "Run habitat" means a stream segment where there is moderate water velocity that does not break the surface tension of the water and does not produce breaking wavelets that turn the surface water into white water.
- 41. "Sedimentary lake" means a lake or reservoir in sedimentary or karst geology and soils.
- 42. "Shallow lake" means a lake or reservoir, excluding an urban lake, with a smaller, flatter morphology and an average depth of less than 3 meters and a maximum depth of less than 4 meters.
- 43. "Significant degradation" means:
 - The consumption of 20 percent or more of the available assimilative capacity for a pollutant of concern at critical flow cona. ditions, or
 - b. Any consumption of assimilative capacity beyond the cumulative cap of 50 percent of assimilative capacity.
- 44. "Surface water" means "Navigable waters" "WOTUS" as defined in A.R.S. § 49-201(22) § 49-201(53).
- 45. "Total nitrogen" means the sum of the concentrations of ammonia (NH3), ammonium ion (NH4+), nitrite (NO2), and nitrate (NO3), and dissolved and particulate organic nitrogen expressed as elemental nitrogen.
- 46. "Total phosphorus" means all of the phosphorus present in a sample, regardless of form, as measured by a persulfate digestion procedure. "Toxic" means a pollutant or combination of pollutants, that after discharge and upon exposure, ingestion, inhalation, or assimi-
- 47. lation 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.

- 48. "Urban lake" means a manmade lake within an urban landscape.
- 49. "Use attainability analysis" means a structured scientific assessment of the factors affecting the attainment of a designated use including physical, chemical, biological, and economic factors.
- 50. "Variance" means a time-limited designated use and criterion for a specific pollutant(s) or water quality parameter(s) that reflect the highest attainable condition during the term of the variance.
- 51. "Wadable" means a surface water can be safely crossed on foot and sampled without a boat.
- 52. "Wastewater" does not mean:
 - a. Stormwater,
 - b. Discharges authorized under the De Minimus General Permit,
 - c. Other allowable non-stormwater discharges permitted under the Construction General Permit or the Multi-sector General Permit, or
 - d. Stormwater discharges from a municipal storm sewer system (MS4) containing incidental amounts of non-stormwater that the MS4 is not required to prohibit.
- 53. "Wetland" means 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. A wetland includes a swamp, marsh, bog, cienega, tinaja, and similar areas.
- 54. "Zone of initial dilution" means a small area in the immediate vicinity of an outfall structure in which turbulence is high and causes rapid mixing with the surrounding water.

Appendix A

Table 1. Water Quanty Criteria by Designated Ose (see 1)	Table 1.	Water Quality Criteria By Designated Use (see f)
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	I		1			A&Wc	A&Wc		A&Ww		A&Wedw	A&We		T
	CAS	DWS	FC	FBC	PBC	Acute	Chronic	A&Ww	Chronic	A&Wedw	Chronic	Acute		AgL
Demonster		-	-	-	-								A	-
Parameter Acenaphthene	NUMBER 83329	(µg/L) 420	(µg/L) 198	(µg/L) 56,000	(µg/L) 56,000	(µg/L) 850	(µg/L) 550	Acute (µg/L) 850	(µg/L) 550	Acute (µg/L) 850	(µg/L) 550	(µg/L)	Agl (µg/L)	(µg/L)
Acenaphthylene	208968	420	190	56,000 56,000	56,000 56,000	000	000	650	550	000	550			
Acrolein	107028	3.5	1.9	467	467	3	3	3	3	3	3			
Acrylonitrile	107028	0.006-0.06	0.2	9 3	37.333	3.800	250	3.800	250	3.800	250			
Alachlor	15972608	2	0.2	9,333	9,333	2,500	170	2,500	170	2,500	170			──
Aldrin	309002	0.002	0.00005	0.27 0.08	28	3	170	3	170	3	170	4.5	0.003	See (b)
Alpha Particles (Gross)	303002	15 pCi/L See	0.00003	0.21 0.00	20	J		5		5		4.J	0.005	366 (b)
1 ()														
Radioactivity		(h)												<u> </u>
						See (e) &	See (e) &	See (e) &	See (e) &	See (e) &	See (e) &			
Ammonia	7664417					Tables 11	Tables 13	Tables 12	Tables 13	Table 15	Table 16			
						(present)	(present) &	(present) &	(present) &	(absent)	(absent)			
						& 14	17 (absent)	15 (absent)	16 (absent)	、 ,	, ,			
							in (auseill)	13 (auseiil)	io (auseill)					
A. 11	100107	0.400		000.000		(absent)								───
Anthracene	120127	2,100	74	280,000	280,000	00 D	00 D	00 F	00 D	1 000 5	000 D			<u> </u>
Antimony	7440360	6 T	640 T	747 T	747 T	88 D	30 D	88 D	30 D	1,000 D	600 D	440.0	0.000 T	000 T
Arsenic	7440382	10 T	80 T	30 T	280 T	340 D	150 D	340 D	150 D	340 D	150 D	440 D	2,000 T	200 T
Asbestos	1332214	See (a)		~~ ~~-										<u> </u>
Atrazine	1912249	3		32,667	32,667									<u> </u>
Barium	7440393	2,000 T		186,667 T	186,667 T									
				<u>98.000 T</u>	<u>98,000 T</u>									
Benz(a)anthracene	56553	0.005	0.02	4 <u>7-0.2</u>	280 <u>0.2</u>		100		(00					<u> </u>
Benzene	71432	5	<u>114 140</u>	133 <u>93</u>	3,733	2,700	180	2,700	180	8,800	560			
Benzo[b]fluoranthene Benz-	205992	0.005	0.02	4 <u>7-1.9</u>	280 <u>1.9</u>									
fluoranthono														
Benzidine	92875	0.0002	0.0002	0.02 <u>0.01</u>	2,800	1,300	89	1,300	89	1,300	89	10,000	0.01	0.01
Benzo(a)pyrene	50328	0.2	0.1-0.02	47- <u>0.2</u>	280-<u>0.2</u>									
Benzo(k)fluoranthene	207089	0.005	0.02	4 7 <u>1.9</u>	280 <u>1.9</u>									
Beryllium	7440417	4 T	84 T	1,867 T	1,867 T	65 D	5.3 D	65 D	5.3 D	65 D	5.3 D			
Beta particles and photon		4 millirems /												
emitters		year See (i)												
Bis(2 chloroethoxy) methane	111911	21		2,800	2,800									
Bis(2-chloroethyl) ether	111444	0.03	0.5	4-1	41	120,000	6,700	120,000	6,700	120,000	6,700			
Bis(2-chloroisopropyl) ether	108601	280	3,441	37,333	37,333									
Bis(chloromethyl) ether	542881	0.00015		0.02										
Boron	7440428	1,400 T		186,667 T	186,667 T			1					1,000 T	1
Bromodichloromethane	75274	TTHM See (q)	17	TTHM	18,667									
4-Bromophenyl phenyl ether	101553	(6)				180	14	180	14	180	14			
Bromoform	75252	TTHM See (g)	133	591 180	18,667	15,000	10,000	15,000	10,000	15,000	10,000			
Bromomethane	74839	9.8	299	1,307	1,307	5,500	360	5,500	360	5,500	360			
Butyl benzyl phthalate	85687	1,400	386	186,667	186,667	1,700	130	1,700	130	1,700	130	1	1	1
Cadmium	7440439	5 T	6 T 84 T	467T 700 T	467T 700 T	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &	50	50
			_			Table 2	Table 3	Table 2	Table 3	Table 2	Table 3	Table 2	1	1
Carbaryl	63252	{	 	+		2.1	2.1	2.1	2.1	2.1	2.1	2.1	+	┼───
Carbaryi	1563662	40		4,667	4.667	650	50	650	50	650	50	2.1		┼───
Carbon tetrachloride	56235	40 5	<u>32</u>	4,007 67 11	4,007 3,733 <u>980</u>	18,000	1.100	18,000	1.100	18.000	1.100			┼───
							1		7		7	2.2		───
Carbon tetrachioride Chlordane	56235 57749	2	<u>⇒∠</u> 0.0008	67 <u>11</u> 13 <u>4</u>	3,733 <u>980</u> 467	2.4	0.004	2.4	0.2	2.4	0.2	3.2	L	

Chlorine (total residual)	7782505	4,000		93,333	93,333	19	11	19	11	19	11		T	
onionino (total rooladai)		1,000		4000	4000									
Chlorobenzene	108907	100	1,553	18,667	18,667	3,800	260	3,800	260	3,800	260			
Chloroethane	75003	280		93,333	93,333									
2-Chloroethyl vinyl ether	110758					180,000	9,800	180,000	9,800	180,000	9,800			
Chloroform	67663	TTHM See (g)	2,133 470	9,333 <u>230</u>	9,333	14,000	900	14,000	900	14,000	900			
p-Chloro-m-cresol	59507					15	4.7	15	4.7	15	4.7	48,000	<u> </u>	_
Chloromethane	74873	0040 500	4007.047	298,667	298.667	270,000	15,000	270,000	15,000	270,000	15,000		<u> </u>	_
beta-Chloronaphthalene	91587	2240 <u>560</u>	<u>1267 317</u>											
0 Ohlanahaaal	05570	25	20	74,667	74,667	0.000	450	0.000	450	0.000	450			
2-Chlorophenol Chloropyrifos	95578 2921882	35 21	30	4,667 2,800	4,667 2,800	2,200 0.08	150 0.04	2,200 0.08	150 0.04	2,200 0.08	150 0.04			-
Chromium III	16065831	10,500	75,000 T	1,400,000	1,400,000	0.00 See (d) &	0.04 See (d) &	See (d) &	0.04 See (d) &	See (d) &	See (d) &	See (d) &	+	
onomum	10003031	10,000	75,000 1	T,400,000	T,400,000	Table 4		. ,		Table 4	. ,	. ,		
Chromium VI	18540299	21 T	150 T	2,800 T	2.800 T	16 D	Table 4 11 D	Table 4 16 D	Table 4 11 D	16 D	Table 4 11 D	Table 4 34 D	┼───	-
Chromium (Total)	7440473	100 T	150 1	2,000 1	2,000 1	10 0	110	10 D	110	10 0	110	54.0	1.000	1.000
Chrysene	218019	0.005	0.02	0.6 <u>19</u>	0.6-<u>19</u>								.,	.,
Copper	7440508	1,300 T		1,300 T	1,300 T	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &	5,000 T	500 T
						Table 5	Table 5	Table 5	Table 5	Table 5	Table 5	Table 5		
Cyanide (as free cyanide)	57125	200 T	504 T	588 T	588 T	22 T	5.2 T	41 T	9.7 T	41 T	9.7 T	84 T		200 T
			16,000 T	18,667 T	18,667 T									
Dalapon	75990	200	8,000	28,000	28,000			1						
DDT and its breakdown prod-	50293	0.1	0.0003	14 <u>4</u>	467	1.1	0.001	1.1	0.001	1.1	0.001	1.1	0.001	0.001
ucts			0.0002											
Demeton	8065483						0.1		0.1		0.1			
Diazinon	333415					0.17	0.17	0.17	0.17	0.17	0.17	0.17		
Dibenz (ah) anthracene	53703	0.350 <u>0.005</u>	0.02	4 7.0 <u>1.9</u>	280.0 <u>1.9</u>									
Dibromochloromethane	124481	TTHM See (g)	13	TTHM	18,667									
1,2-Dibromo-3-chloropro-	96128	0.2		2,800	2,800									
pane														
1,2-Dibromoethane	106934	0.02 0.05		<u>2 8,400</u>	8,400								<u> </u>	
Dibutyl phthalate	84742	700	899	93,333	93,333	470	35	470	35	470	35	1,100		
1,2-Dichlorobenzene	95501	600	205	84,000	84,000	790	300	1,200	470	1,200	470	5,900	+	-
1,3-Dichlorobenzene 1,4-Dichlorobenzene	541731 106467	75	5755	373,333	373.333	2,500 560	970 210	2,500 2,000	970 780	2,500 2,000	970 780	6,500		
1,4-Dichiorobenzene	100407	75	5755	313,333		500	210	2,000	760	2,000	100	0,000		
3,3'-Dichlorobenzidine	91941	0.08	0.03	10 <u>3</u>	373,333 10 3			-						
1,2-Dichloroethane	107062	5	37	10 <u>5</u> 15	186.667	59,000	41,000	59,000	41,000	59,000	41,000		┼───	-
1,1-Dichloroethylene	75354	7	7,143	46,667	46,667	15,000	950	15,000	950	15,000	950		+	_
1,2-cis-Dichloroethylene	156592	70	1,110	1,867 70	1,867 70	10,000		10,000		10,000				
1,2-trans-Dichloroethylene	156605	100	10,127	18,667	18,667	68,000	3,900	68,000	3,900	68,000	3,900			
Dichloromethane	75092	5	2,222 <u>593</u>	2,333 <u>190</u>	5,600-	97,000	5,500	97,000	5,500	97,000	5,500			
					<u>56.000</u>								<u> </u>	
2,4-Dichlorophenol	120832	21	59	2,800	2,800	1,000	88	1,000	88	1,000	88			
2,4-Dichlorophenoxyacetic	94757	70		9,333	9,333									
acid (2,4-D)	70075	-	47.540	04.000	04.000	00.000	0.000	00.000	0.000	00.000	0.000		<u> </u>	
1,2-Dichloropropane 1,3-Dichloropropene	78875 542756	5 0.7	17,518 42	84,000 93 420	84,000 28,000	26,000 3,000	9,200 1,100	26,000 3,000	9,200 1,100	26,000 3,000	9,200			_
Dieldrin	60571	0.002	42	0.3 0.09	47	0.2	0.06	0.2	0.06	0.2	0.06	4	0.003	See (b)
Diethyl phthalate	84662	5,600	8,767	746,667	746,667	26,000	1,600	26,000	1,600	26,000	1,600	-	0.000	000 (0)
Di (2-ethylhexyl) adipate	103231	400		3,889	560,000		.,		.,		.,			
())/ (560,000										
Di (2-ethylhexyl) phthalate	117817	6												
2,4-Dimethylphenol		0	3	333 <u>100</u>	18,667	400	360	400	360	400	360	3,100	<u> </u>	
	105679	140	3 171	333 <u>100</u> 18,667	18,667 18,667	400 1,000	310	1,000	310	1,000	310	3,100 150,000		
Dimethyl phthalate	131113	140	171	18,667	18,667	1,000 17,000	310 1,000	1,000 17,000	310 1,000	1,000 17,000	310 1,000	- 1		
Dimethyl phthalate 4,6-Dinitro-o-cresol	131113 534521	140 0.6 <u>28</u>	171 <u>+2 582</u>	18,667 75 <u>3,733</u>	18,667 75 <u>3.733</u>	1,000 17,000 310	310 1,000 24	1,000 17,000 310	310 1,000 24	1,000 17,000 310	310 1,000 24	- 1		
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitrophenol	131113 534521 51285	140 0.6 <u>28</u> 14	171 <u>42 582</u> 1,067	18,667 75 3,733 1,867	18,667 75 <u>3,733</u> 1,867	1,000 17,000 310 110	310 1,000 24 9.2	1,000 17,000 310 110	310 1,000 24 9.2	1,000 17,000 310 110	310 1,000 24 9.2	- 1		
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene	131113 534521 51285 121142	140 0.6 <u>28</u> 14 14	171 <u>+2 582</u>	18,667 75 <u>3,733</u> 1,867 1,867	18,667 75 <u>3,733</u> 1,867 1,867	1,000 17,000 310	310 1,000 24	1,000 17,000 310	310 1,000 24	1,000 17,000 310	310 1,000 24	- 1		
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene	131113 534521 51285 121142 606202	140 0.6 28 14 14 0.05	171 <u>42 582</u> 1,067	18,667 75 <u>3,733</u> 1,867 1,867 7 <u>2</u>	18,667 75 <u>3,733</u> 1,867 1,867 280 <u>3,733</u>	1,000 17,000 310 110	310 1,000 24 9.2	1,000 17,000 310 110	310 1,000 24 9.2	1,000 17,000 310 110	310 1,000 24 9.2	- 1		
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene	131113 534521 51285 121142	140 0.6 <u>28</u> 14 14	171 <u>42 582</u> 1,067	18,667 7 <u>6</u> <u>3,733</u> 1,867 1,867 7 <u>2</u> 9,333	18,667 75 <u>3,733</u> 1,867 1,867 280 <u>3,733</u> 9,333	1,000 17,000 310 110	310 1,000 24 9.2	1,000 17,000 310 110	310 1,000 24 9.2	1,000 17,000 310 110	310 1,000 24 9.2	- 1		
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene Di-n-octyl phthalate	131113 534521 51285 121142 606202 117840	140 0.6 28 14 14 0.05 70 2.800	171 <u>42 582</u> 1,067 421	18,667 <u>76 3,733</u> 1,867 <u>1,867</u> <u>7 2</u> 9,333 <u>373,333</u>	18,667 76 <u>3,733</u> 1,867 1,867 280 <u>3,733</u> 9,333 <u>373,333</u>	1,000 17,000 310 110	310 1,000 24 9.2	1,000 17,000 310 110	310 1,000 24 9.2	1,000 17,000 310 110	310 1,000 24 9.2	- 1		
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene Di-n-octyl phthalate Dinoseb	131113 534521 51285 121142 606202 117840 88857	140 0.6 28 14 14 0.05 70 2.800 7	171 <u>42 582</u> 1,067 <u>421</u> 12	18,667 76 3,733 1,867 1,867 9,333 373,333 933	18,667 76 3,733 1,867 1,867 280 3,733 9,333 373,333 933 933	1,000 17,000 310 110 14,000	310 1,000 24 9.2 860	1,000 17,000 310 110 14,000	310 1,000 24 9.2 860	1,000 17,000 310 110 14,000	310 1,000 24 9.2 860	- 1		
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene Di-n-octyl phthalate Dinoseb 1,2-Diphenylhydrazine	131113 534521 51285 121142 606202 117840 88857 122667	140 0.6 28 14 14 14 0.05 70 2.800 7 0.04	171 <u>42 582</u> 1,067 421 <u>42</u> 0.2	18,667 7€ 3,733 1,867 1,867 9,333 373,333 933 € 1.8	18,667 7€ 3,733 1,867 1,867 9,333 373,333 933 € 1.8	1,000 17,000 310 110	310 1,000 24 9.2	1,000 17,000 310 110	310 1,000 24 9.2	1,000 17,000 310 110	310 1,000 24 9.2	- 1		
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene Di-n-octyl phthalate Dinoseb	131113 534521 51285 121142 606202 117840 88857	140 0.6 28 14 14 0.05 70 2.800 7	171 <u>42 582</u> 1,067 <u>421</u> 12	18,667 76 3,733 1,867 1,867 9,333 373,333 933	18,667 76 3,733 1,867 1,867 280 3,733 9,333 373,333 933 933	1,000 17,000 310 110 14,000	310 1,000 24 9.2 860	1,000 17,000 310 110 14,000	310 1,000 24 9.2 860	1,000 17,000 310 110 14,000	310 1,000 24 9.2 860	- 1		
Dimethyl phthalate 4.6-Dinitro-o-cresol 2.4-Dinitrophenol 2.4-Dinitrotoluene 2.6-Dinitrotoluene Di-n-octyl phthalate Dinoseb 1.2-Diphenylhydrazine Diquat	131113 534521 51285 121142 606202 117840 88857 122667 85007	140 0.6 <u>28</u> 14 14 14 0.05 70 <u>2.800</u> 7 0.04 20	171 <u>42 582</u> 1,067 421 <u>42</u> 0.2 176	18,667 76 3,733 1,867 1,867 7,2 9,333 373,333 933 6 1.8 2,053	18,667 76 3,733 1,867 1,867 1,867 3,733 9,333 373,333 933 6 1.8 2,053	1,000 17,000 310 110 14,000 130	310 1,000 24 9.2 860 11	1,000 17,000 310 110 14,000 130	310 1,000 24 9.2 860 11	1,000 17,000 310 110 14,000 130	310 1,000 24 9.2 860 11	150,000		
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene Di-n-octyl phthalate Dinoseb 1,2-Diphenylhydrazine Diquat Endosulfan sulfate	131113 534521 51285 121142 606202 117840 88857 122667 85007 1031078	140 0.66 28 14 14 0.05 70 2.800 7 0.04 20 42	171 <u>42 582</u> 1,067 421 <u>42</u> 0.2 176 18	18,667 76 3,733 1,867 1,867 7,2 9,333 373,333 933 6 2,053 5,600	18,667 76 3,733 1,867 1,867 1,867 3,733 9,333 373,333 933 6 1.8 2,053 5,600 5	1,000 17,000 310 110 14,000 130 0.2	310 1,000 24 9.2 860 11 11	1,000 17,000 310 110 14,000 130 130	310 1,000 24 9.2 860 11 0.06	1,000 17,000 310 110 14,000 130 130 0.2	310 1,000 24 9.2 860 11 0.06	150,000 		
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitroblene 2,6-Dinitrotoluene Di-n-octyl phthalate Dinoseb 1,2-Diphenylhydrazine Diquat Endosulfan sulfate Endosulfan (Total) Endothall Endrin	131113 534521 51285 121142 606202 117840 888857 122667 85007 1031078 115297 145733 72208	140 	171 12582 1,067 421 42 0.2 476 18 18 18 18 18 18 0.06	18,667 7€ <u>3,733</u> 1,867 1,867 7 <u>2</u> 9,333 373,333 933 € <u>1.8</u> 2,053 5,600 18,667 1,120 <u>280</u>	18,667 7 5 <u>3,733</u> 1,867 1,867 9 333 9 333 9 <u>33</u> 6 <u>1.8</u> 2,053 5,600 5,600 5,600 18,667 1,120 <u>280</u>	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09	310 1,000 24 9.2 860 11 11 0.06 0.06 0.04	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09	310 1,000 24 9.2 860 11 0.06 0.06 0.04	1,000 17,000 310 110 14,000 130 130 0.2 0.2 0.09	310 1,000 24 9.2 860 11 0.06 0.06 0.04	150,000	0.004	0.004
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitrotoluene 2,6-Dinitrotoluene Di-n-octyl phthalate Dinoseb 1,2-Diphenylhydrazine Diquat Endosulfan sulfate Endosulfan (Total) Endothall	131113 534521 51285 121142 606202 117840 88857 122667 85007 1031078 115297 145733	140 0.6 28 14 14 0.05 70 2.800 7 0.04 20 42 42 100	171 <u>+2 582</u> 1,067 <u>421</u> <u>421</u> <u>42</u> 0.2 <u>476</u> 18 18 <u>18</u> <u>46,000</u>	18,667 76 3,733 1,867 1,867 9,333 373,333 933 6 1.8 2,053 5,600 18,667	18,667 75 <u>3,733</u> 1,867 1,867 280 <u>3,733</u> 373 <u>333</u> <u>373</u> <u>333</u> <u>933</u> <u>6 1.8</u> 2,053 5,600 5,600 18,667	1,000 17,000 310 110 14,000 130 0.2 0.2	310 1,000 24 9.2 860 11 0.06 0.06	1,000 17,000 310 110 14,000 130 130 0.2 0.2	310 1,000 24 9.2 860 11 0.06 0.06	1,000 17,000 310 110 14,000 130 130 0.2 0.2	310 1,000 24 9.2 860 11 0.06 0.06	150,000 	0.004	0.004
Dimethyl phthalate 4.6-Dinitro-o-cresol 2.4-Dinitroblenel 2.6-Dinitrotoluene 2.6-Dinitrotoluene Di-n-octyl phthalate Dinoseb 1.2-Diphenylhydrazine Diguat Endosulfan sulfate Endosulfan (Total) Endothall Endrin Endrin aldehyde	131113 534521 51285 121142 606202 117840 88857 122667 85007 1031078 115297 145733 72208 7421933	140 0.66 28 14 14 0.05 70 0.04 20 42 42 100 2 2 2	171 42 582 1,067 421 422 0.2 476 18 18 18 18 18 18 46,000 0.06 0.06 0.06	18,667 76 3,733 1,867 1,867 1,867 1,867 9,333 933 € 1.8 2,053 5,600 5,600 5,600 18,667 4,429 280 4,420	18,667 1,867 1,867 1,867 280 3,733 9,333 933 6 1.8 2,053 5,600 18,667 1,420 280 1,420	1,000 17,000 310 110 14,000 130 130 0.2 0.2 0.9 0.09 0.09	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09 0.09	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09 0.09	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04	150,000	0.004	0.004
Dimethyl phthalate 4.6-Dinitro-o-cresol 2.4-Dinitrophenol 2.4-Dinitrotoluene 2.6-Dinitrotoluene Di-n-octyl phthalate Dinoseb 1.2-Diphenylhydrazine Diquat Endosulfan sulfate Endosulfan sulfate Endosulfan (Total) Endothall Endrin Endrin Ethylbenzene	131113 534521 51285 121142 606202 117840 888557 122667 85507 1031078 115297 145733 72208 7421933 100414	140 0.6 28 14 14 0.05 70 2.800 7 0.04 20 42 42 42 100 2 2 2 7 700	171 42 582 1,067 421 421 42 0.2 476 18 18 18 18 18 18 0.06 0.06 0.06 0.06 0.06 0.06 2,133	18,667 76 <u>3,733</u> 1,867 1,867 7 <u>2</u> 9,333 933 933 933 933 933 933 9	18,667 76 <u>3,733</u> 1,867 1,867 280 <u>3,733</u> 9,333 933 6 <u>1.8</u> 2,053 5,600 5,600 18,667 1,120 <u>280</u> 1,120 93,333	1,000 17,000 310 110 14,000 130 130 0.2 0.2 0.9 0.09 23,000	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09 0.09 23,000	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400	1,000 17,000 310 110 14,000 130 0.2 0.2 0.2 0.09 0.09 23,000	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400	150,000	0.004	0.004
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitroblene 2,4-Dinitroblene 2,6-Dinitroblene Di-n-octyl phthalate Dinoseb 1,2-Diphenylhydrazine Diquat Endosulfan sulfate Endosulfan (Total) Endothall Endrin Endrin aldehyde Ethylbenzene Fluoranthene	131113 534521 51285 121142 606202 117840 88857 122667 85007 1031078 115297 145733 72208 7421933 7421934 100414 206440	140 0.6 28 14 14 0.05 70 2.800 7 0.04 20 42 42 100 2 2 7 700 280	171 <u>42 582</u> 1,067 <u>421</u> <u>421</u> <u>42</u> 0.2 <u>476</u> 18 <u>18</u> <u>18</u> <u>46,000</u> 0.06 0.06 <u>9,06</u> 2,133 28	18,667 753,733 1,867 72 9,333 933 933 933 61.8 2,053 5,600 18,667 4,429,280 1,429 93,333 37,333 37,333	18,667 745 3,733 1,867 1,867 280 3,733 9,333 933 933 933 6 1.8 2,053 5,600 18,667 4,420 280 4,420 93,333 37,333	1,000 17,000 310 110 14,000 130 130 0.2 0.2 0.9 0.09 0.09	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09 0.09	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09 0.09	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04	150,000	0.004	0.004
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitroblene 2,4-Dinitroblene 2,6-Dinitroblene Di-n-octyl phthalate Dinoseb 1,2-Diphenylhydrazine Diquat Endosulfan sulfate Endosulfan (Total) Endothall Endrin Endrin aldehyde Ethylbenzene Fluoranthene Fluorene	131113 534521 51285 121142 606202 117840 88857 122667 85007 1031078 115297 145733 72208 7421933 100414 206440 86737	140 141 14 14 14 0.05 70 2.800 7 0.04 20 42 100 2 2 700 280 280	171 42 582 1,067 421 421 42 0.2 476 18 18 18 18 18 18 0.06 0.06 0.06 0.06 0.06 0.06 2,133	18,667 74 3.733 1.867 1.867 1.867 3.333 933 6 2.053 5.600 5.600 18.667 4.120 280 4.120 93.333 37.333 37.333	18,667 74 <u>3,733</u> 1,867 1,867 1,867 1,867 373 <u>333</u> 933 9 9 9 3 9 3 3 1 8 6 1 8 6 1 1 8 6 1 1 1 1 1 1 1 1	1,000 17,000 310 110 14,000 130 130 0.2 0.2 0.9 0.09 23,000	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09 0.09 23,000	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400	1,000 17,000 310 110 14,000 130 0.2 0.2 0.2 0.09 0.09 23,000	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400	150,000	0.004	0.004
Dimethyl phthalate 4.6-Dinitro-o-cresol 2.4-Dinitrotoluene 2.6-Dinitrotoluene 2.6-Dinitrotoluene Di-n-octyl phthalate Dinoseb 1.2-Diphenylhydrazine Diquat Endosulfan sulfate Endosulfan (Total) Endothall Endrin aldehyde Ethylbenzene Fluoranthene Fluorene Fluoride	131113 534521 51285 1121142 606202 117840 888557 122667 85007 1031078 115297 145733 7421934 100414 206440 86737 7782414	140 0.66 28 14 14 0.05 70 20 42 42 100 2 2 700 280 280 280 280	171 42 582 1,067 421 0.2 476 18 18 18 18 18 18 18 18 10.06 0.06 0.06 0.06 0.06 0.06 0.06 1,067 2,133 28 1,067	18,667 76,3,733 1,867 1,867 1,867 1,867 9,333 933 6 2,053 5,600 5,600 5,600 5,600 3,003 4,420,280 4,420,280 37,333 37,333 140,000	18,667 1,867 1,867 1,867 1,867 1,867 9,333 933 6,18 2,053 5,600 18,667 1,120 18,667 1,120 93,333 37,333 37,333 140,000	1,000 17,000 310 110 14,000 130 130 0.2 0.2 0.9 0.09 23,000	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09 0.09 23,000	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400	1,000 17,000 310 110 14,000 130 0.2 0.2 0.2 0.09 0.09 23,000	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400	150,000		0.004
Dimethyl phthalate 4.6-Dinitro-o-cresol 2.4-Dinitroblenel 2.6-Dinitrobluene 2.6-Dinitrobluene Di-n-octyl phthalate Dinoseb 1.2-Diphenylhydrazine Diguat Endosulfan sulfate Endosulfan (Total) Endrin aldehyde Ethylbenzene Fluoranthene Fluorene Fluorene Fluoride Glyphosate	131113 534521 51285 121142 606202 117840 888557 122667 85507 1031078 115297 145733 72208 7421933 7421934 100414 206440 86737 7782414 1071836	140 9+6 28 14 14 0.05 7+9 2.800 7 0.04 20 42 42 42 100 2 2 2 7 700 280 280 4,000 700	171 42 582 1,067 421 421 421 0.2 476 18 18 18 18 46,000 0.06 0.06 0.06 0.06 0.06 1,067 2,133 28 1,067 266,667	18,667 76,3,733 1,867 1,867 1,867 1,867 1,867 1,867 1,867 2,933 933 6 18,667 2,053 5,600 5,600 18,667 4,120 93,333 37,333 37,333 37,333 37,333 37,333 37,333	18,667 18,667 1,867 1,867 1,867 280 3,733 9,333 373,333 933 € <u>1.8</u> 2,053 5,600 5,600 18,667 4,420 280 4,420 93,333 37,333 37,333 37,333 37,333 37,333 37,333 37,333 140,000 93,333	1,000 17,000 310 110 14,000 130 130 0.2 0.2 0.9 0.09 23,000	310 1,000 24 9.2 860 11 0.06 0.06 0.06 0.04 0.04 1,400 1,600	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09 0.09 23,000	310 1,000 24 9.2 860 11 11 0.06 0.06 0.04 0.04 1,400 1,600	1,000 17,000 310 110 14,000 130 0.2 0.2 0.2 0.09 0.09 23,000	310 1,000 24 9.2 860 11 11 0.06 0.06 0.04 0.04 1,400 1,600	150,000	0.004	0.004
Dimethyl phthalate 4.6-Dinitro-o-cresol 2.4-Dinitro-o-cresol 2.4-Dinitrotoluene 2.6-Dinitrotoluene Di-n-octyl phthalate Dinoseb 1.2-Diphenylhydrazine Diquat Endosulfan sulfate Endosulfan sulfate Endosulfan (Total) Endrin aldehyde Ethylbenzene Fluoranthene Fluoranthene Fluoranthene Fluorine Glyphosate Guthion	131113 534521 51285 121142 606202 117840 88857 122667 85007 1031078 115297 145733 72208 7421934 100414 206440 86737 7782414 1071836 86500	140 0.66 28 14 14 0.05 70 2.800 7 0.04 20 42 42 42 100 2 2 2 7 700 280 280 280 280 280 280 280 2	171 42 582 1,067 421 42 0.2 476 18 18 18 18 18 18 10.06 2,133 28 1,067 92	18,667 76 <u>3.733</u> 1,867 1,867 7 <u>2</u> 9,333 933 933 933 933 933 933 9	18,667 18,667 1,867 1,867 1,867 1,867 9,333 373,333 933 6 1.8 2,053 5,600 18,667 4,129 280 4,129 93,333 37,333 37,333 37,333 2,800 2,800	1,000 17,000 310 110 14,000 130 0.2 0.2 0.2 0.09 0.09 23,000 2,000	310 1,000 24 9.2 860 11 0.06 0.06 0.06 0.04 0.04 1,600 1,600	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09 0.09 23,000 2,000 1	310 1,000 24 9.2 860 11 11 0.06 0.06 0.04 0.04 1,400 1,600 0.01	1,000 17,000 310 110 14,000 130 0.2 0.2 0.2 0.09 0.09 0.09 23,000 2,000 2,000	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400 1,600 0.01	150,000	0.004	0.004
Dimethyl phthalate 4,6-Dinitro-o-cresol 2,4-Dinitroblene 2,4-Dinitroblene 2,6-Dinitroblene Di-n-octyl phthalate Dinoseb 1,2-Diphenylhydrazine Diquat Endosulfan sulfate Endosulfan sulfate Endosulfan (Total) Endothall Endrin aldehyde Ethylbenzene Fluorene Fluorene Fluorene Fluorene Glyphosate Gothion Heptachlor	131113 534521 51285 121142 606202 117840 88857 122667 85007 1031078 115297 145733 72208 7421933 7421934 100414 206440 86500 762414 1071836 86500 76448	140 140 14 14 14 0.05 70 2.800 7 0.04 20 42 100 2 2 700 280 280 280 4,000 700 24 0.4	171 12582 1.067 421 421 421 421 1.067 18 18 18 18 18 18 1067 28 1.067 266,667 92 0.00008	18,667 745,3733 1,867 1,867 1,867 1,867 373,333 933 6 18,667 18,667 18,667 4,120 93,333 37,333 37,333 37,333 37,333 2,860 4,04	18,667 18,667 1,867 1,867 1,867 1,867 1,867 1,867 1,867 1,867 1,867 1,053 5,600 18,667 1,129 280 1,129 280 1,280 1,280 2,800 4,733 37,333 37,333 37,333 140,000 93,333 2,800 4,67 4,733 4,000 18,637 4,733 4,000 18,637 4,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,733 14,000 14,735 14,735 14,735 14,735 14,735 14,735 14,735 14,735 14,735 14,755 14,7	1,000 17,000 310 110 14,000 130 0.2 0.2 0.2 0.9 0.09 0.09 23,000 2,000 0.5	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400 1,600 0.01 0.004	1,000 17,000 310 110 14,000 130 0.2 0.09 0.09 0.09 23,000 23,000 0.5	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400 1,600 0.01 0.004	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09 0.09 0.09 23,000 23,000 0.09 0.00 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.09 0.00 0.09 0.00 0.09 0.09 0.00 0.00 0.09 0.00 0.09 0.06	310 1,000 24 9.2 860 11 0.06 0.04 0.04 1,400 1,600 0.01 0.01	150,000 150,000 3 3 0.7 0.7 0.7 0.7 0.7 0.7 0.7	0.004	0.004
Dimethyl phthalate 4.6-Dinitro-o-cresol 2.4-Dinitro-o-cresol 2.4-Dinitrotoluene 2.6-Dinitrotoluene Di-n-octyl phthalate Dinoseb 1.2-Diphenylhydrazine Diquat Endosulfan sulfate Endosulfan sulfate Endosulfan (Total) Endrin aldehyde Ethylbenzene Fluoranthene Fluoranthene Fluoranthene Fluorine Glyphosate Guthion	131113 534521 51285 121142 606202 117840 88857 122667 85007 1031078 115297 145733 72208 7421934 100414 206440 86737 7782414 1071836 86500	140 0.66 28 14 14 0.05 70 2.800 7 0.04 20 42 42 42 100 2 2 2 7 700 280 280 280 280 280 280 280 2	171 42 582 1,067 421 42 0.2 476 18 18 18 18 18 18 10.06 2,133 28 1,067 92	18,667 76 <u>3.733</u> 1,867 1,867 7 <u>2</u> 9,333 933 933 933 933 933 933 9	18,667 18,667 1,867 1,867 1,867 1,867 9,333 373,333 933 6 1.8 2,053 5,600 18,667 4,129 280 4,129 93,333 37,333 37,333 37,333 2,800 2,800	1,000 17,000 310 110 14,000 130 0.2 0.2 0.2 0.09 0.09 23,000 2,000	310 1,000 24 9.2 860 11 0.06 0.06 0.06 0.04 0.04 1,600 1,600	1,000 17,000 310 110 14,000 130 0.2 0.2 0.09 0.09 23,000 2,000 1	310 1,000 24 9.2 860 11 11 0.06 0.06 0.04 0.04 1,400 1,600 0.01	1,000 17,000 310 110 14,000 130 0.2 0.2 0.2 0.09 0.09 0.09 23,000 2,000 2,000	310 1,000 24 9.2 860 11 0.06 0.06 0.04 0.04 1,400 1,600 0.01	150,000	0.004	0.004

Hexachlorocyclohexane alpha Hexachlorocyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma (indane) Hexachlorocyclopentadiene Hexachlorocyclopentadiene Hexachlorocethane Hydrogen sulfide Indeno (1,2,3-cd) pyrene Iron Isophorone Lead		0.006												
Hexachlorocyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma (lindane) Hexachlorocyclopentadiene Hexachloroethane Hydrogen sulfide Indeno (1,2,3-cd) pyrene Iron Isophorone		1	0.005	0.7 <u>0.22</u>	7,467	1,600	130	1,600	130	1,600	130	1,600		
Hexachlorocyclohexane delta Hexachlorocyclohexane gamma (lindane) Hexachlorocyclopentadiene Hexachlorocethane Hydrogen sulfide Indeno (1,2,3-cd) pyrene Iron Isophorone														
Hexachlorocyclohexane gamma (lindane) Hexachlorocyclopentadiene Hydrogen sulfide Indeno (1,2,3-cd) pyrene Iron Isophorone	319868	0.02	0.02	3 0.78	560	1,600	130	1,600	130	1,600	130	1,600		
gamma (lindane) Hexachlorocyclopentadiene Hydrogen sulfide Indeno (1,2,3-cd) pyrene Iron Isophorone						1,600	130	1,600	130	1,600	130	1,600		
Hexachlorocyclopentadiene Hexachloroethane Hydrogen sulfide Indeno (1,2,3-cd) pyrene Iron Isophorone	58899	0.2	5 <u>1.8</u>	700 <u>280</u>	700 <u>280</u>	1	0.08	1	0.28	1	0.61	11		
Hexachloroethane Hydrogen sulfide Indeno (1,2,3-cd) pyrene Iron Isophorone														
Hexachloroethane Hydrogen sulfide Indeno (1,2,3-cd) pyrene Iron Isophorone	77474	50	74 580	11,200	11,200	3.5	0.3	3.5	0.3	3.5	0.3			
Hydrogen sulfide Indeno (1,2,3-cd) pyrene Iron Isophorone			_	9.800	9,800									
Hydrogen sulfide Indeno (1,2,3-cd) pyrene Iron Isophorone	67721	0.9 2.5	<u> 1 3.3</u>	<u>117 100</u>	653 <u>933</u>	490	350	490	350	490	350	850		
Indeno (1,2,3-cd) pyrene Iron Isophorone	7783064	0.0 2.0	1 0.0	111 100	000 000	400	2 See (c)	400	2 See (c)	400	2 See (c)	000		
Iron Isophorone	193395	0.4-0.05	<u> 1 0.49</u>	4 7 1.9	47- <u>1.9</u>		2 000 (0)		2 000 (0)		2 000 (0)			
Isophorone	7439896	0.1.00	1 0.10				1,000 D		1,000 D		1,000 D			
	78591	37	961	4 ,912 1,500	186,667	59,000	43,000	59,000	43,000	59,000	43,000			
	7439971	15 T		15 T	15 T	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &	10,000	100 T
1	7439921	-			-	Table 6	Table 6	Table 6	Table 6	Table 6	Table 6	Table 6	т	
Malathion	121755	140	1.455	18,667	18,667	10010 0	0.1	Table 0	0.1	Tuble 0	0.1	10010-0		
Manganese	7439965	980	1,100	130,667	130,667		0.1		0.1		0.1		10,000	
Mercury	7439976	2 T		280 T	280 T	2.4 D	0.01 D	2.4 D	0.01 D	2.4 D	0.01 D	5 D	10,000	10 T
Methoxychlor	72435	40		18,667	18,667		0.03		0.03		0.03			
				4,667	4.667									
Methylmercury	22967926		0.3 mg/ kg	4,007	4,007									
Mirex	22967926	1	0.3 mg/ kg	0.26 187	187		0.001		0.001		0.001			+
Naphthalene	91203	140	1,524	18,667	18,667	1,100	210	3,200	580	3,200	580			+
Nickel	7440020	210 T 140 T	511 T	28,000 T	28,000 T	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &	See (d) &		+
			4,600 T		-0,000 1		. ,	. /	. ,	. ,		. ,		1
Nitrato	1/707550	10.000	<u>4,000 I</u>	3 700 000	3 700 000	Table 7	Table 7	Table 7	Table 7	Table 7	Table 7	Table 7		+
Nitrate Nitrite	14797558 14797650	10,000		3,733,333 233,333	3,733,333 233,333									
Nitrate + Nitrite	14/9/030	1,000	<u> </u>	200,000	200,000	<u> </u>							}	+
Nitrobenzene	98953	10,000 14 <u>3.5</u>	554 <u>138</u>	1,867 467	1,867 467	1,300	850	1,300	850	1,300	850			+
p-Nitrophenol	100027	17 <u>U.U</u>	00 1 <u>00</u>	1,001 <u>401</u>	1,007 <u>401</u>	4,100	3,000	4,100	3,000	4,100	3,000			+
Nitrosodibutylamino	924163	0.006	0.2	0.9		-1,100	3,000	7,100	3,000	4,100	3,000			
Nitrosodiothylamino	55185	0.0002	0.1	0.03										
N-nitrosodimethylamine	62759	0.001	3	0.09 0.03	0.09 0.03									
N-Nitrosodiphenylamine	86306	7.1	6	952 290	952 290	2,900	200	2,900	200	2,900	200			
N-nitrosodi-n-propylamine	621647	0.005	0.5	0.7 0.2	0.7 88,667	_,		_,		_,				
N nitrosopyrrolidino	930552	0.02	34	2										
Nonylphenol	104405					28	6.6	28	6.6	28	6.6	28		
Oxamyl	23135220	200	6452	23,333	23,333									
Parathion	56382	4 2	16	5,600	5,600	0.07	0.01	0.07	0.01	0.07	0.01			
Pentachlorobenzene	608935	6		747	747									
Paraquat	1910425	32	12,000	4,200	4,200	100	54	100	54	100	54			
Pentachlorophenol	87865	1	111 <u>1,000</u>	12	4 ,667	See (e),	See (e),	See (e),	See (e), (j) &	See (e),	See (e), (j) &	See (e),		
					28,000	(j) & Table	(j) & Table	(j) & Table 10	Table 10	(j) & Table 10	Table 10	(j) & Table		
						10	10	0,		0/		10		
Permethrin	52645531	350	77	46,667	46,667	0.3	0.2	0.3	0.2	0.3	0.2	10		
Phenanthrene	85018	350		40,007	40,007	30	6.3	30	6.3	30	6.3			
Phenol	108952	2,100	37	280,000	280,000	5,100	730	7,000	1,000	7,000	1,000	180,000		
Picloram	1918021	500	1,806	65,333	65,333	0,100	100	1,000	1,000	1,000	1,000	100,000		
1 Iolorann	1010021		2,710	00,000	00,000									
Polychlorinatedbiphenyls	1336363	0.5	0.00006	2 <u>19</u>	19	2	0.01	2	0.02	2	0.02	11	0.001	0.001
, , ,	1330303	0.5	0.00000	± <u>19</u>	19	2	0.01	2	0.02	2	0.02		0.001	0.001
(PCBs)	400000	010	000	00.000	00.000									-
Pyrene Dedium 226 - Dedium 228	129000	210	800	28,000	28,000				L					+
Radium 226 + Radium 228	7700400	5 pCi/L	667 T	4 667 T	1 667 T		о т		о т		<u>о т</u>	22 T	20 T	50 T
Salanium	7782492 7440224	50 T	667 T	4,667 T	4,667 T	Sec (4) 6	2 T	See (d) 9	2 T	See (d) 9	2 T	33 T	201	50 T
Selenium	1440224	35 T	8,000 T	4,667 T	4,667 T	See (d) &		See (d) &		See (d) &		See (d) &		
Selenium Silver	4400.10	L		4.007	4.007	Table 8		Table 8		Table 8		Table 8		-
Silver	112349	4	1	4,667							1	1	1	
Silver Simazine					4,667									
Silver Simazine Strontium	7440246	8 pCi/L				5 600	270	5 600	270	5 600	270			
Silver Simazine Strontium Styrene		8 pCi/L 100		186,667	4,667	5,600	370	5,600	370	5,600	370	100		
Silver Simazine Strontium Styrene Sulfides	7440246 100425	100		186,667	186,667	5,600	370	5,600	370	5,600	370	100		
Silver Simazine Strontium Styrene Sulfides 1,2,4,6 Tetrachlorobonzone	7440246 100425 95943	100 2.1	0.0000001	186,667 280	186,667 280									
Silver Simazine Strontium Styrene Sulfides 1,2,4,6 Tetrachlorobenzone 2,3,7,8-Tetrachlorod- ibenzo	7440246 100425	100	0.0000001	186,667 280 0.0007	186,667 280 0.0007-	5,600 0.01	370 0.005	5,600 0.01	370 0.005	5,600 0.01	370 0.005	0.1		
Silver Strontium Strontium Styrene Sulfides 4.2.4.6 Tetrachlorobenzone 2.3.7.8-Tetrachlorod- ibenzo- p-dioxin (2.3.7.8-	7440246 100425 95943	100 2.1	0.0000001 5x10-9	186,667 280	186,667 280									
Silver Strontium Styrene Sulfides 4,2,4,5 Totrachlorobenzone 2,3,7,8-Tetrachlorod- ibenzo p-dioxin (2,3,7,8- TCDD)	7440246 100425 95943 1746016	100 <u>2.1</u> 0.00003	<u>5x10-9</u>	186,667 280 0.0007 0.00003	186,667 280 0.0007- 0.0009	0.01	0.005	0.01	0.005	0.01	0.005			
Silver Sirontium Styrene Sulfides 4,2,4,6 Totrachlorobonzone 2,3,7,8-Tetrachlorod- ibenzo- p-dioxin (2,3,7,8-	7440246 100425 95943	100 2.1		186,667 280 0.0007	186,667 280 0.0007-									
Silver Strontium Styrene Sulfides 4,24,6 Totrachlorobonzone 2,3,7,8-Tetrachlorod- ibenzo p-dioxin (2,3,7,8- TCDD)	7440246 100425 95943 1746016	100 <u>2.1</u> 0.00003	<u>5x10-9</u>	186,667 280 0.0007 0.00003 23-7 23-7	186,667 280 0.0007- 0.0009	0.01	0.005	0.01	0.005	0.01	0.005			
Silver Strontium Styrene Sulfides 4,24,6 Totrachlorobonzone 2,3,7,8-Tetrachlorod- ibenzo p-dioxin (2,3,7,8- TCDD)	7440246 100425 95943 1746016	100 <u>2.1</u> 0.00003	<u>5x10-9</u>	186,667 280 0.0007 0.00003	186,667 280 0.0007- 0.0009 186,667	0.01	0.005	0.01	0.005	0.01	0.005			
Silver Simazine Strontium Styrene Sulfides 4,2,4,5 Totrachlorobonzone 2,3,7,8-Tetrachlorod- ibenzo p-dioxin (2,3,7,8- TCDD) 1,1,2,2-Tetrachloroethane	7440246 100425 95943 1746016 79345	100 2.1 0.00003 0.2	<u>5x10-9</u> 32,000 <u>4</u>	186,667 280 0.0007 0.00003 23-7 23-7	186,667 280 0.0007- 0.0009 186,667 56.000	0.01	0.005	0.01	0.005	0.01	0.005	0.1		
Silver Simazine Strontium Styrene Sulfides 4,2,4,5 Totrachlorobonzone 2,3,7,8-Tetrachlorod- ibenzo p-dioxin (2,3,7,8- TCDD) 1,1,2,2-Tetrachloroethane	7440246 100425 95943 1746016 79345	100 2.1 0.00003 0.2	<u>5x10-9</u> 32,000 <u>4</u>	186,667 280 0.0007 0.00003 23-7 23-7	186,667 280 0.0007- 0.0009 186,667 56,000 5,600-	0.01	0.005	0.01	0.005	0.01	0.005	0.1		
Silver Strontium Strontium Sulfides <u>1,2,4,5 Tetrachlorobenzone</u> 2,3,7,8-Tetrachlorod- ibenzo- p-dioxin (2,3,7,8- TCDD) 1,1,2,2-Tetrachloroethane Tetrachloroethylene	7440246 100425 95943 1746016 79345 127184	100 2.1 0.00003 0.2 5	<u>5x10-9</u> 32,000 <u>4</u> 62 <u>261</u>	186,667 280 0.0007 0.00003 23-7 2,222 9.333	186,667 280 0.0007- 0.0009 186,667 56.000 6,600- 9.333	0.01 4,700 2,600	0.005 3,200 280	0.01 4,700 6,500	0.005 3,200 680	0.01 4,700 6,500	0.005 3,200 680	0.1		
Silver Simazine Strontium Styrene Sulfides 4.2.4.6 Totrachlorobonzone 2.3.7,8-Tetrachlorod- ibenzo- p-dioxin (2.3.7,8- TCDD) 1,1,2,2-Tetrachloroethane Tetrachloroethylene Thallium	7440246 100425 96943 1746016 79345 127184 7440280	100 2.4 0.00003 0.2 5 2 T	5x10-9 32,000 4 62 261 0.07 T 7.2 I	186,667 280 0.0007 0.00003 23-7 2,222 9,333 9∓75 T	186,667 280 0.0007- 0.0009 186,667 56.000 6,600- 9.333	0.01 4,700 2,600 700 D	0.005 3,200 280	0.01 4,700 6,500 700 D	0.005 3,200 680	0.01 4,700 6,500 700 D	0.005 3,200 680	0.1		
Silver Simazine Strontium Styrene Sulfides <u>1,2,4,6 Totrachlorobenzone</u> 2,3,7,8-Tetrachlorod-ibenzo- p-dioxin (2,3,7,8- TCDD) 1,1,2,2-Tetrachloroethane Tetrachloroethylene	7440246 100425 95943 1746016 79345 127184	100 2.1 0.00003 0.2 5	5x10-9 32,000 <u>4</u> 62 <u>261</u> 0.07 T <u>7.2</u> <u>1</u> 11,063	186,667 280 0.0007 23-7 2,222 9,333 9-7 75 T 140,333	186,667 280 0.0007 0.0009 186,667 56,000 9,333 9∓751 149,333	0.01 4,700 2,600	0.005 3,200 280 150 D	0.01 4,700 6,500	0.005 3,200 680 150 D	0.01 4,700 6,500	0.005 3,200 680 150 D	0.1		
Silver Simazine Strontium Styrene Sulfides <u>4,2,4,6 Totracklorobenzone</u> 2,3,7,8-Tetrachlorod- ibenzo- p-dioxin (2,3,7,8- TCDD) 1,1,2,2-Tetrachloroethane Tetrachloroethylene Thallium Toluene	7440246 100425 96943 1746016 79345 127184 7440280 108883	100 2.4 0.00003 0.2 5 2 T 1,000	5x10-9 32,000 <u>4</u> 62 <u>261</u> 0.07 T <u>7.2</u> I 11,963 201.000	186,667 280 0.0007 0.0003 23-7 2,222 9,333 0.7 75 1 140,333 280,000	186,667 280 0.0007 0.0009 186,667 56,000 \$,600- 9.333 0.7 75 T 149,333 280,000	0.01 4,700 2,600 700 D 8,700	0.005 3,200 280 150 D 180	0.01 4,700 6,500 700 D 8,700	0.005 3,200 680 150 D 180	0.01 4,700 6,500 700 D 8,700	0.005 3,200 680 150 D 180	0.1	0.005	0.005
Silver Simazine Strontium Styrene Sulfides 4:2:4:6 Totrachlorobonzone 2:3,7:8-Tetrachlorod-ibenzo- p-dioxin (2:3,7:8- TCDD) 1,1,2;2-Tetrachloroethane Tetrachloroethylene Thallium Toluene Toxaphene	7440246 100425 9 6943 1746016 79345 127184 7440280 108883 8001352	100 2.4 0.00003 0.2 5 2 T	5x10-9 32,000 4 62 261 0.07 T 7.2 I 11,963 201,000 0.0003	186,667 280 0.00003 23-7 2.222 9,333 0.7 75 T 140,333 280,000 4.1.3	186,667 280 0.0007 0.0009 186,667 56,000 6,600 9,333 9.7 75 I 149,333 280,000 1,867,933	0.01 4,700 2,600 700 D 8,700 0.7	0.005 3,200 280 150 D 180 0.0002	0.01 4,700 6,500 700 D 8,700 0.7	0.005 3,200 680 150 D 180 0.0002	0.01 4,700 6,500 700 D 8,700 0.7	0.005 3,200 680 150 D 180 0.0002	0.1	0.005	0.005
Silver Simazine Strontium Styrene Sulfides 4,2,4,5 Totrachlorobonzone 2,3,7,8-Tetrachlorod-ibenzo- p-dioxin (2,3,7,8- TCDD) 1,1,2,2-Tetrachloroethane Tetrachloroethylene Thallium Toluene Toxaphene Tributyltin	7440246 100425 9 6943 1746016 79345 127184 7440280 108883 8001352 688733	100 2.4 0.00003 0.2 5 2 T 1,000 3	5x10-9 32,000 4 62 261 0.07 T 7.2 I 11,063 201,000 0.0003 0.008	186,667 280 0.0007 0.0003 23.7 2.222 9.333 9.7 75 T 140,333 280.000 41.3 280	186,667 280 0.0007 0.0009 186,667 56,000 9.333 0+7,75 T 149,333 280,000 1.867,933 280,000 280,200	0.01 4,700 2,600 700 D 8,700 0.7 0.5	0.005 3,200 280 150 D 180 0.0002 0.07	0.01 4,700 6,500 700 D 8,700 0.7 0.5	0.005 3,200 680 150 D 180 0.0002 0.07	0.01 4,700 6,500 700 D 8,700 0.7 0.5	0.005 3,200 680 150 D 180 0.0002 0.07	0.1	0.005	0.005
Silver Simazine Strontium Styrene Sulfides <u>1,2,4,5 Tetrachlorobenzone</u> 2,3,7,8-Tetrachlorod- ibenzo- p-dioxin (2,3,7,8- TCDD) 1,1,2,2-Tetrachloroethane Tetrachloroethylene Thallium Toluene Toxaphene Tributyltin 1,2,4-Trichlorobenzene	7440246 100425 96943 1746016 79345 127184 7440280 108883 8001352 688733 120821	100 2.4 0.00003 0.2 5 2 T 1,000 3 70	5x10-9 32,000 <u>4</u> 62 <u>261</u> 1 <u>41,963</u> <u>201,000</u> 0.0003 0.08 70	186,667 280 0.0007 0.0003 23-7 2,222 9,333 9+7 75 T 140,333 28000 4-1.3 280 9,333	186,667 280 0.0007 0.0009 186,667 56,000 9,333 9+7,75,T 149,333 280,000 1,867,933 280 9,333	0.01 4,700 2,600 700 D 8,700 0.7 0.5 750	0.005 3,200 280 150 D 180 0.0002 0.07 130	0.01 4,700 6,500 700 D 8,700 0.7 0.5 1,700	0.005 3,200 680 150 D 180 0.0002 0.07 300	0.01 4,700 6,500 700 D 8,700 0.7 0.5 1,700	0.005 3,200 680 150 D 180 0.0002 0.07 300	0.1		0.005
Silver Simazine Strontium Styrene Sulfides 4,2,4,5 Totrachlorobonzone 2,3,7,8-Tetrachlorod-ibenzo- p-dioxin (2,3,7,8- TCDD) 1,1,2,2-Tetrachloroethane Tetrachloroethylene Thallium Toluene Toxaphene Tributyltin	7440246 100425 9 6943 1746016 79345 127184 7440280 108883 8001352 688733	100 2.4 0.00003 0.2 5 2 T 1,000 3	5x10-9 32,000 4 62 261 1 11,963 201,000 0,0003 0,000 70 285,714	186,667 280 0.0007 0.0003 23.7 2.222 9.333 9.7 75 T 140,333 280.000 41.3 280	186,667 280 0.0007 0.0009 186,667 56,000 9.333 0+7,75 T 149,333 280,000 1.867,933 280,000 280,200	0.01 4,700 2,600 700 D 8,700 0.7 0.5	0.005 3,200 280 150 D 180 0.0002 0.07	0.01 4,700 6,500 700 D 8,700 0.7 0.5	0.005 3,200 680 150 D 180 0.0002 0.07	0.01 4,700 6,500 700 D 8,700 0.7 0.5	0.005 3,200 680 150 D 180 0.0002 0.07	0.1	0.005	0.005
Silver Simazine Strontium Styrene Sulfides <u>1,2,4,6 Tetrachlorobenzone</u> 2,3,7,8-Tetrachlorod- ibenzo- p-dioxin (2,3,7,8- TCDD) 1,1,2,2-Tetrachloroethane Tetrachloroethylene Thallium Toluene Toxaphene Tributyltin 1,2,4-Trichlorobenzene	7440246 100425 96943 1746016 79345 127184 7440280 108883 8001352 688733 120821	100 2.4 0.00003 0.2 5 2 T 1,000 3 70	5x10-9 32,000 <u>4</u> 62 <u>261</u> 1 <u>41,963</u> <u>201,000</u> 0.0003 0.08 70	186,667 280 0.0007 0.0003 23-7 2,222 9,333 9+7 75 T 140,333 28000 4-1.3 280 9,333	186,667 280 0.0007 0.0009 186,667 56,000 9,333 9+7,75,T 149,333 280,000 1,867,933 280 9,333	0.01 4,700 2,600 700 D 8,700 0.7 0.5 750	0.005 3,200 280 150 D 180 0.0002 0.07 130	0.01 4,700 6,500 700 D 8,700 0.7 0.5 1,700	0.005 3,200 680 150 D 180 0.0002 0.07 300	0.01 4,700 6,500 700 D 8,700 0.7 0.5 1,700	0.005 3,200 680 150 D 180 0.0002 0.07 300	0.1		0.005

Trichloroethylene	79016	5	8 <u>29</u>	101	4 67 <u>280</u>	20,000	1,300	20,000	1,300	20,000	1,300			
				280,000										
2,4,5 Trichlorophonol	95954	700		93,333	93,333									
2,4,6-Trichlorophenol	88062	3.2	2	424 <u>130</u>	424 <u>130</u>	160	25	160	25	160	25	3,000		
2,4,5-Trichlorophenoxy pro-	93721	50		29,867	29,867									
prionic acid (2,4,5-TP)				7.467	7,467									
Trihalomethanes (T)		80												
Tritium	10028178	20,000 pCi/L												
Uranium	7440611	30 D		2,800	2,800									
Vinyl chloride	75014	2	5	<u>62</u>	2,800									
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) &	10,000	25,000						
						Table 9	Т	Т						
2 nitrophonol	88755		No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
1,1-dichloroothane	85343		No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
4 chlorophonyl phonyl othor	7005723		No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data
Bonzo (ghi) porylone	191242		No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data	No Data

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 $0.003 \ \mu g/L$.
- 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. If the receiving water has an A&Wedw or A&We designated use, then the hardness is based on the hardness of the effluent 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.
 - iii. 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 at the end of Appendix A for the convenience of the user.
- e. pH is determined according to the following criteria:
 - i. 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. If the receiving water body has an A&Wedw or A&We designated use, then the pH is based on the pH of the effluent from a sample taken at the same time that the sample for pentachlorophenol or ammonia is taken.
 - iii. The mathematical equations for ammonia represent the water quality standards. Examples of criteria for ammonia have been calculated and are presented in separate tables at the end of Appendix A for the convenience of the user.
- f. Table 1 abbreviations.
 - i. $\mu g/L = micrograms$ per liter,
 - ii. mg/kg = milligrams per kilogram,
 - iii. pCi/L = picocuries per liter,
 - iv. D = dissolved,
 - v. 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 at the end of Appendix A 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)

Appendix B. Surface Waters and Designated Uses

(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 Appendix B 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:

WWTP = Wastewater Treatment Plant

Km = kilometers

	Surface	Segment Description and Location	Lake	ŀ	Aquatic a	nd Wild	life	Hu	uman I	Health		Agric	cultura
Watershed	Waters	(Latitude and Longitudes are in NAD 83)	Category	A&Wc	A&Ww	A&We	A&Wedw	FBC	РВС	DWS	FC	Agl	AgL
BW	Alamo Lake	34°14'06"/113°35'00"	Deep		A&Ww			FBC			FC		AgL
BW	Big Sandy River	Headwaters to Alamo Lake			A&Ww			FBC			FC		AgL
BW	Bill Williams River	Alamo Lake to confluence with Colorado River			A&Ww			FBC			FC		AgL
BW	Blue Tank	34°40'14"/112°58'17"			A&Ww			FBC			FC		AqL
BW	Boulder Creek	Headwaters to confluence with unnamed tributary at		A&Wc	Addim			FBC			FC		AgL
		34°41'13"/113°03'37"											ĺ
BW	Boulder Creek	Below confluence with unnamed tributary to confluence with Burro Creek			A&Ww			FBC			FC		AgL
BW	Burro Creek	Headwaters to confluence with Boulder Creek			A&Ww			FBC			FC		AgL
	(OAW)												ĺ
BW	Burro Creek	Below confluence with Boulder Creek to confluence with Big Sandy River			A&Ww			FBC			FC		AgL
BW	Carter Tank	34°52'27"/112°57'31"			A&Ww			FBC			FC		AqL
BW	Conger Creek	Headwaters to confluence with unnamed tributary at		A&Wc	Adviw			FBC			FC		AgL
511	oongor orook	34°45'15"/113°05'46"		/10/10				100			10		, igr
BW	Conger Creek	Below confluence with unnamed tributary to confluence with Burro Creek			A&Ww			FBC			FC		AgL
BW	Copper Basin	Headwaters to confluence with unnamed tributary at		A&Wc				FBC			FC		AgL
	Wash	34°28'12"/112°35'33"											-
BW	Copper Basin	Below confluence with unnamed tributary to confluence				A&We			PBC				AgL
	Wash	with Skull Valley Wash											ĺ
BW	Cottonwood	Headwaters to Bear Trap Spring		A&Wc				FBC			FC		AgL
BW	Canyon Cottonwood	Below Bear Trap Spring to confluence at Sycamore Creek			A&Ww			FBC			FC		AqL
DVV	Canvon	below bear trap spring to confidence at Sycamore creek			havv			T DC			10		∧y∟
BW	Date Creek	Headwaters to confluence with Santa Maria River			A&Ww			FBC			FC		AgL
BW	Francis Creek	Headwaters to confluence with Sunta Mana Tiver Headwaters to confluence with Burro Creek			A&Ww			FBC		DWS	FC	Agl	AgL
	(OAW)												
BW	Kirkland Creek	Headwaters to confluence with Santa Maria River			A&Ww			FBC			FC	Agl	AgL
BW	Knight Creek	Headwaters to confluence with Big Sandy River			A&Ww			FBC			FC		AgL
BW	Peeples Canyon	Headwaters to confluence with Santa Maria River			A&Ww			FBC			FC		AgL
BW	(OAW) Red Lake	35°12'18"/113°03'57"	Sedimentary		A&Ww			FBC			FC		AgL
BW	Santa Maria	Headwaters to Alamo Lake			A&Ww			FBC			FC	Agl	AqL
	River												ľ
BW	Trout Creek	Headwaters to confluence with unnamed tributary at		A&Wc				FBC			FC		AgL

BW	Trout Creek	Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC		AgL
CG	Agate Canyon	with Knight Creek Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Beaver Dam	Headwaters to confluence with the Virgin River			A&Ww			FBC			FC		AgL
CG	Wash Big Springs Tank	36°36'08"/112°21'01"		A&Wc				FBC			FC		AgL
CG	Boucher Creek	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Bright Angel	Headwaters to confluence with Roaring Springs Creek		A&Wc				FBC			FC		
CG	Creek Bright Angel	Below Roaring Spring Springs Creek to confluence with			A&Ww			FBC			FC		
CG	Creek Bright Angel	Colorado River Headwaters to Grand Canyon National Park South Rim				A&We			PBC				
	Wash	WWTP outfall at 36°02'59"/112°09'02"											
CG	Bright Angel Wash (EDW)	Grand Canyon National Park South Rim WWTP outfall to Coconino Wash					A&Wedw		PBC				AgL
CG	Bulrush Canyon Wash	Headwaters to confluence with Kanab Creek				A&We			PBC				
CG	Cataract Creek	Headwaters to Santa Fe Reservoir		A&Wc				FBC		DWS	FC	Agl	AqL
CG	Cataract Creek	Santa Fe Reservoir to City of Williams WWTP outfall at 35°14'40"/112°11'18"		A&Wc				FBC			FC	Agl	AgL
CG	Cataract Creek	City of Williams WWTP outfall to 1 km downstream					A&Wedw		PBC				
CG	(EDW) Cataract Creek	Red Lake Wash to Havasupai Indian Reservation				A&We			PBC				AgL
	-	boundary											
CG	Cataract Lake	35°15′04"/112°12′58"	Igneous	A&Wc				FBC		DWS	FC		AgL
CG	Chuar Creek	Headwaters to confluence with unnamed tributary at 36°11'35"/111°52'20"		A&Wc				FBC			FC		
CG	Chuar Creek	Below unnamed tributary to confluence with the Colorado River			A&Ww			FBC			FC		
CG	City Reservoir	35°13'57"/112°11'25"	Igneous	A&Wc				FBC		DWS	FC		
CG	Clear Creek	Headwaters to confluence with unnamed tributary at	3	A&Wc				FBC			FC		
		36°07'33"/112°00'03"											
CG	Clear Creek	Below confluence with unnamed tributary to confluence with Colorado River			A&Ww			FBC			FC		
CG	Coconino Wash (EDW)	South Grand Canyon Sanitary District Tusayan WRF outfall at 35°58'39"/112°08'25" to 1 km downstream					A&Wedw		PBC				
	(2011)												
CG	Colorado River	Lake Powell to Lake Mead		A&Wc				FBC		DWS	FC	Agl	AgL
66	Cottonwood- Creek	Headwaters to confluence with unnamed tributary at- 35°20'46"/113°35'31"		A&Wo				FBC			FC		AgL
66	Cottonwood Creek	Bolow confluence with unnamed tributary to confluence with Colorado River			A&Ww			FBC			FC		AgL
CG	Crystal Creek	Headwaters to confluence with unnamed tributary at		A&Wc				FBC			FC		
CG	Crystal Creek	36°13'41"/112°11'49" Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC		
CG	Deer Creek	with Colorado River Headwaters to confluence with unnamed tributary at		A&Wc				FBC			FC		
CG	Deer Creek	36°26'15"/112°28'20" Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC		
		with Colorado River											
CG	Detrital Wash	Headwaters to Lake Mead		l		A&We			PBC			1	
CG	Dogtown Reservoir	35°12'40"/112°07'54"	Igneous	A&Wc				FBC		DWS	FC	Agl	AgL
CG	Dragon Creek	Headwaters to confluence with Milk Creek		A&Wc				FBC			FC		
CG	Dragon Creek	Below confluence with Milk Creek to confluence with			A&Ww			FBC			FC		
00	Conders Or 1	Crystal Creek			A 0344			ED0			50		
CG CG	Garden Creek Gonzalez Lake	Headwaters to confluence with Pipe Creek 35°15'26"/112°12'09"	Shallow		A&Ww A&Ww			FBC FBC	<u> </u>		FC FC	Agl	AgL
CG	Gonzalez Lake	Headwaters to Colorado River	Shanow	1	ACC IN M	A&We	-	100	PBC			riyi	ny∟
CG	Grapevine Creek	Headwaters to confluence with the Colorado River			A&Ww	710/10		FBC	1.50		FC		
CG	Grapevine Wash	Headwaters to Colorado River				A&We			PBC				
CG	Hakatai Canyon	Headwaters to confluence with the Colorado River		1	A&Ww			FBC	1		FC		
00	nanatar oanyon				/ 0.111			-					

CG	Havasu Creek	From the Havasupai Indian Reservation boundary to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Hermit Creek	Headwaters to Hermit Pack Trail crossing at 36°03'38"/ 112°14'00"		A&Wc				FBC			FC		
CG	Hermit Creek	Below Hermit Pack Trail crossing to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Horn Creek	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Hualapai Wash	Headwaters to Lake Mead				A&We			PBC				
CG	Jacob Lake	36°42'27"/112°13'50"	Sedimentary	A&Wc				FBC			FC		
			,										1
CG	Kaibab Lake	35°17'04"/112°09'32"	Igneous	A&Wc				FBC		DWS	FC	Agl	AgL
CG	Kanab Creek	Headwaters to confluence with the Colorado River			A&Ww			FBC		DWS	FC		AgL
CG	Kwagunt Creek	Headwaters to confluence with unnamed tributary at 36°13'37"/111°54'50"		A&Wc				FBC			FC		
CG	Kwagunt Creek	Below confluence with unnamed tributary to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Lake Mead	36°06'18"/114°26'33"	Deep	A&Wc				FBC		DWS	FC	Aal	AgL
CG	Lake Nead	36°59'53"/111°08'17"	Deep	A&Wc				FBC		DWS	FC	Agl Agl	AgL
CG	Lonetree Canyon		Deeh	Advic	A&Ww			FBC		0110	FC	луı	∧y∟
	Creek												
CG	Matkatamiba	Below Havasupai Indian Reservation boundary to			A&Ww			FBC			FC		1
	Creek	confluence with the Colorado River			ļ								
CG	Monument Creek	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		L
CG	Nankoweap Creek	Headwaters to confluence with unnamed tributary at 36°15'29"/111°57'26"		A&Wc				FBC			FC		
CG	Nankoweap Creek	Below confluence with unnamed tributary to confluence with Colorado River			A&Ww			FBC			FC		
CG	National Canyon												
00	Creek	Headwaters to Hualapai Indian Reservation boundary at			A&Ww			FBC			FC		1
		36°15'15"/112°52'34"											
CG	North Canyon Creek	Headwaters to confluence with unnamed tributary at 36°33'58"/111°55'41"		A&Wc				FBC			FC		1
CG	North Canyon Creek	Below confluence with unnamed tributary to confluence with Colorado River			A&Ww			FBC			FC		
CG	Olo Canyon	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Parashant Canyon	Headwaters to confluence with unnamed tributary at 36°21'02"/113°27'56"		A&Wc				FBC			FC		
CG	Parashant Canyon	Below confluence with unnamed tributary to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Paria River	Utah border to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Phantom Creek	Headwaters to confluence with unnamed tributary at		A&Wc				FBC			FC		
CG	Phantom Creek	36°09'29"/112°08'13" Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC		. <u></u>
CG	Pipe Creek	with Bright Angel Creek Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Red Canyon	Headwaters to confluence with the Colorado River '			A&Ww			FBC			FC		
	Creek								ļ		L		
CG	Red Lake	35°40'03"/114°04'07"		-	∧&₩w	<u> </u>		FBC			FC		AgL
CG	Roaring Springs	36°11'45"/112°02'06"		A&Wc				FBC		DWS	FC		ŀ
CG	Roaring Springs Creek	Headwaters to confluence with Bright Angel Creek		A&Wc				FBC			FC		
CG	Rock Canyon	Headwaters to confluence with Truxton Wash				A&We			PBC				
CG	Royal Arch Creek	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Ruby Canyon	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Russell Tank	35°52'21"/111°52'45"		A&Wc				FBC			FC		AgL
CG	Saddle Canyon Creek	Headwaters to confluence with unnamed tributary at 36°21'36"/112°22'43"		A&Wc				FBC			FC		
CG	Saddle Canyon	Below confluence with unnamed tributary to confluence			A&Ww		<u> </u>	FBC			FC		
CG	Creek Santa Fe	with Colorado River 35°14'31"/112°11'10"	Igneous	A&Wc				FBC		DWS	FC		
	Reservoir												

CG	Sapphire Canyon	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Serpentine	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
	Canyon												
CG	Shinumo Creek	Headwaters to confluence with unnamed tributary at		A&Wc				FBC			FC		
CG	Shinumo Creek	36°18'18"/112°18'07" Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC		
		with the Colorado River											
CG	Short Creek	Headwaters to confluence with Fort Pearce Wash				A&We			PBC				
CG	Slate Creek	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
00	Ciuto Crock				7.0.11			100			10		
CG	Spring Canyon	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Creek Stone Creek	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Tapeats Creek	Headwaters to confluence with the Colorado River		A&Wc				FBC			FC		
CG	Thunder River	Headwaters to confluence with Tapeats Creek		A&Wc				FBC			FC		
CG	Trail Canyon	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Creek	Headwaters to Grand Canyon National Park North Rim				A&We			PBC				
CG	Transept Canyon	WWTP outfall at 36°12'20"/112°03'35"				Acvve			PBC				
CG	Transept Canyon (EDW)	Grand Canyon National Park North Rim WWTP outfall to 1 km downstream					A&Wedw		PBC				
	(EDW)	From 1 km downstream of the Grand Canyon National											
CG	Transept Canyon					A&We			PBC				
		Angel Creek											
CG	Travertine	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
cc	Canyon Creek Truxton Wash	Headwaters to Red Lake				A&Wo			PBC				
CG	Turquoise	Headwaters to confluence with the Colorado River			A&Ww	hanto		FBC	100		FC		
	Canyon							-					
		Below confluence with unnamed tributary at 36°07'54"/											
CG	Unkar Creek	111°54'06" to confluence with Colorado River			A&Ww			FBC			FC		
	Unnamed Wash	Grand Canyon National Park Desert View WWTP outfall											
CG	(EDW)	at 36°02'06"/111°49'13" to confluence with Cedar					A&Wedw		PBC				
		Canyon											
	Unnamed Wash	Valle Airpark WRF outfall at 35°38'34"/112°09'22" to											
CG	(EDW)	confluence with Spring Valley Wash					A&Wedw		PBC				
CG	Vasey's Paradise	A spring at 36°29'52"/111°51'26"		A&Wc				FBC			FC		
CG	Virgin River	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC	Agl	AgL
CG	Vishnu Creek	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
00	Violina Oreek				7.0.11			100			10		
CG	Warm Springs	Headwaters to confluence with the Colorado River			A&Ww			FBC			FC		
CG	Creek West Cataract	Headwaters to confluence with Cataract Creek		A&Wc				FBC			FC		AgL
00	Creek			Advic				T DC			10		∧y∟
CG	White Creek	Headwaters to confluence with unnamed tributary at		A&Wc				FBC			FC		
		36°18'45"/112°21'03"											
CG	White Creek	Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC		
	White Creek	Below confluence with unnamed tributary to confluence with the Colorado River		A&We	A&Ww			FBC				-	AaL
CG CG		Below confluence with unnamed tributary to confluence		A&We	A&Ww						FC FC		AgL
	White Creek	Below confluence with unnamed tributary to confluence with the Colorado River Headwaters to confluence with unnamed tributary at-		A&Wo	A&Ww								AgL AgL
66 66	White Creek Wright Canyon Creek Wright Canyon Greek	Below confluence with unnamed tributary to confluence with the Colorado River Headwaters to confluence with unnamed tributary at 35°20'48'1413°30'40" Below confluence with unnamed tributary to confluence with Truxton Wach		A&Wo				FBC FBC			FG FG		-
CC CL	White Creek Wright Canyon Greek Wright Canyon Greek A10 Backwater	Below confluence with unnamed tributary to confluence with the Colorado River Hoadwaters to confluence with unnamed tributary at <u>35°20'48'/113°30'40"</u> Below confluence with unnamed tributary to confluence- with Truston Wach 33°31'45"/114°33'19"	Shallow	A&We	A&Ww A&Ww			FBC FBC			FC FC FC		-
CL CL	White Creek Wright Canyon. Creek Wright Canyon. Creek Allo Backwater A7 Backwater	Below confluence with unnamed tributary to confluence with the Colorado River Hoadwaters to confluence with unnamed tributary at <u>36°20'48'/113°30'40"</u> Bolow confluence with unnamed tributary to confluence with Truston Wash 33°31'45''/114°33'19" 33°34'27''/114°32'04"	Shallow	A&We	A&Ww A&Ww A&Ww			FBC FBC FBC FBC			FC FC FC FC		-
CL CL CL	White Creek Wright Canyon. Creek Wright Canyon. Creek A10 Backwater A7 Backwater Adobe Lake	Below confluence with unnamed tributary to confluence with the Colorado River Hoadwaters to confluence with unnamed tributary at <u>36°20'48'/113°30'40"</u> Below confluence with unnamed tributary to confluence with Truston Wash 33°3145'/114°33'19" 33°34'27"/114°32'04" 33°02'36''/114°39'26"	Shallow Shallow	A&We	A&Ww A&Ww A&Ww A&Ww			FBC FBC FBC FBC FBC			FC FC FC FC		-
66 66 CL CL CL CL	White Creek Wright Canyon. Creek Wright Canyon. Creek A10 Backwater A7 Backwater Adobe Lake Cibola Lake	Below confluence with unnamed tributary to confluence with the Colorado River Headwaters to confluence with unnamed tributary at <u>35°20'48'/113°30'40'</u> Below confluence with unnamed tributary to confluence- with Truston Wash 33°31'45'/114°33'19" 33°34'27'/114°32'04" 33°02'36'/114°39'26" 33°14'01'/114°40'31"	Shallow Shallow Shallow	A&We	A&Ww A&Ww A&Ww A&Ww A&Ww			FBC FBC FBC FBC FBC FBC			FC FC FC FC FC		-
CL CL CL CL CL CL CL	White Creek Wright Canyon. Groek Wright Canyon. Groek A10 Backwater A7 Backwater A7 Backwater Cibola Lake Cibal Lake	Below confluence with unnamed tributary to confluence with the Colorado River Headwaters to confluence with unnamed tributary at <u>36°20'48'/413°30'40'</u> Below confluence with unnamed tributary to confluence- with Truxton Wach 33°3145'/114°33'19' 33°34'27'/114°32'04'' 33°02'36'/114°39'26'' 33°14'01'/114°40'31'' 33°01'59'/114°31'19''	Shallow Shallow	A&Wo	A&Ww A&Ww A&Ww A&Ww			FBC FBC FBC FBC FBC			FC FC FC FC		-
CL CL CL CL CL CL CL	White Creek Wright Canyon. Creek Wright Canyon. Creek A10 Backwater A7 Backwater Adobe Lake Cibola Lake	Below confluence with unnamed tributary to confluence with the Colorado River Headwaters to confluence with unnamed tributary at <u>35°20'48'/113°30'40'</u> Below confluence with unnamed tributary to confluence- with Truston Wash 33°31'45'/114°33'19" 33°34'27'/114°32'04" 33°02'36'/114°39'26" 33°14'01'/114°40'31"	Shallow Shallow Shallow	A&We	A&Ww A&Ww A&Ww A&Ww A&Ww	A&We		FBC FBC FBC FBC FBC FBC	PBC		FC FC FC FC FC		-
CL CL CL	White Creek Wright Canyon. Groek Wright Canyon. Groek A10 Backwater A7 Backwater A7 Backwater Cibola Lake Cibal Lake	Below confluence with unnamed tributary to confluence with the Colorado River Headwaters to confluence with unnamed tributary at <u>36°20'48'/413°30'40'</u> Below confluence with unnamed tributary to confluence- with Truxton Wach 33°3145'/114°33'19' 33°34'27'/114°32'04'' 33°02'36'/114°39'26'' 33°14'01'/114°40'31'' 33°01'59'/114°31'19''	Shallow Shallow Shallow	A&We	A&Ww A&Ww A&Ww A&Ww A&Ww	A&We		FBC FBC FBC FBC FBC FBC	PBC	DWS	FC FC FC FC FC	Agl	-
GG CL CL	White Creek Wright Canyon Greek Wright Canyon Greek A10 Backwater A7 Backwater A7 Backwater Adobe Lake Cibola Lake Clear Lake Columbus Wash	Below confluence with unnamed tributary to confluence with the Colorado River Headwaters to confluence with unnamed tributary at <u>36°20'48''/113°30'40"</u> Below confluence with unnamed tributary to confluence with Truxton Wach 33°31'45''/114°33'19" 33°34'27''/14°32'04" 33°0'36'/114°39'C" 33°14'01''/114°40'31" 33°0'159'/114°31'19" Headwaters to confluence with the Gila River	Shallow Shallow Shallow		A&Ww A&Ww A&Ww A&Ww A&Ww	A&We		FBC FBC FBC FBC FBC FBC FBC	PBC	DWS DWS	FC FC FC FC FC FC	Agl	AgL

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Hydram Hydrams	CL	Holy Moses	Headwaters to City of Kingman Downtown WWTP outfall				A&We			PBC				
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Chartery May Magner Magner May Magner Magner May Magner Magner Magner Magner Magner Magner Magner Ma		wash (EDW)												
Yann Yann <th< td=""><td>CI</td><td>Holy Moses</td><td></td><td></td><td></td><td></td><td>Δ&\V/o</td><td></td><td></td><td>PRC</td><td></td><td></td><td></td><td></td></th<>	CI	Holy Moses					Δ&\V/o			PRC				
CL Nature inse 27127114'14'87 Blakov Abive Abive PRC	0L	-	www.rr. outlain to considence with odwinin wash				Adne			1.00				
District	CI		32°31'13"/114°48'07"	Shallow		∆&\Ww			FBC			FC.		Aal
Cl. Imposite Process of all of a	0L		32 31 137114 4007	Grianow		7.0111			100			10		∧g∟
memoria memoria Standar Marka	CI		32°53'02"/114°27'54"	Shallow		A&Ww			FBC		DWS	FC	Aal	Aal
Ch. bardar Startight Start Start Startight Start Start Start S	02			onanon					. 50		50		, .g.	7.gz
Lappen Uspace Uspace Particle Parti	CL		33°01'44"/114°36'42"	Shallow		A&Ww			FBC			FC		
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CL Marine Late Station Shadow AMW PRC PRC <	CL		34°35'18"/114°25'47"	Deep		A&Ww			FBC		DWS	FC	Agl	AgL
C.L. Mitry Late 22*97771127254* Studior AAWe Performants Perfo	CL	Lake Mohave	35°26'58"/114°38'30"	Deep	A&Wc				FBC		DWS	FC	Agl	AgL
CL Morane Wash Intersonants of Lane Conceptions Prove Market Market PRC Market PRC Market PRC PRC PRC PRC <	CL	Martinez Lake	32°58'49"/114°28'09"	Shallow		A&Ww			FBC				Agl	AgL
C.L. Numma Late SY220711473797 Shallow AAWe PRC I FRC				Shallow		A&Ww			FBC			FC		
Cl. Particle Rock Statistics ABWW Pice FBC I FC Ag Ag Cl. Relative Statistics ABWW ABWW FEC A FC Ag Ag Cl. Outgley Add 2114 S2111 F 2011 Statistics ABWW ABWW FEC A FC A Cl. Batternet Statistics ABWW ABWW FEC FC F				o			A&We		500	PBC		50		
Cl. (Borne PR) Lake 337 USST113*0117* Sedimentary AWW Image Processing of the proces proces in the proces proces processing of the proces	CL		33°02'30"/114°37'59"	Shallow		A&Ww		-	FBC			FC		
CL Perty Water 31*1971/11/42157 Bindow A&W PEC PEC FC I Late Redordo Late 22*4329/011375744 Shullow A&W PEC FC I I CL Redordo Late 22*43271/1472937 Shullow A&W PEC I FC I CL Standikow AWW PEC I FC I I Sumit Carryon Below abundoned gaging station at 35'09'471 I A&W PEC I FC I Ad Sumit Carryon Below abundoned gaging station to confluence with holy I A AWW PEC D IS Ad Ad IS FC Ad Ad Ad IS FC Ad Ad IS FC Ad Ad Ad IS FC Ad Ad Ad IS Ad Ad Ad IS Ad Ad Ad Ad Ad Ad Ad Ad <td< td=""><td>0</td><td></td><td>0000415511440004147</td><td>0</td><td></td><td>A 0111</td><td></td><td></td><td>500</td><td></td><td></td><td></td><td></td><td></td></td<>	0		0000415511440004147	0		A 0111			500					
Lafe Lafe <thlafe< th=""> Lafe Lafe <thl< td=""><td>UL</td><td>(Borrow Pit) Lake</td><td>33*04'55"/113*01'1/"</td><td>Sedimentary</td><td></td><td>A&Ww</td><td></td><td></td><td>FBC</td><td></td><td></td><td>FC</td><td>Agl</td><td>AgL</td></thl<></thlafe<>	UL	(Borrow Pit) Lake	33*04'55"/113*01'1/"	Sedimentary		A&Ww			FBC			FC	Agl	AgL
C.L. Oxage Proof. 32:4342/11/375/44 Station A.Ww FRC Image A.Ww FRC Image C Image <td>CL</td> <td>Pretty Water</td> <td>33°19'51"/114°42'19"</td> <td>Shallow</td> <td></td> <td>A&Ww</td> <td></td> <td></td> <td>FBC</td> <td></td> <td></td> <td>FC</td> <td></td> <td></td>	CL	Pretty Water	33°19'51"/114°42'19"	Shallow		A&Ww			FBC			FC		
Reducto Late 32*4432*114*2907 Studiow A&We FBC FBC FC Image: Constraint of the deductors to Topock March CL Secrement Headwaters to Topock March Image: Constraint of the deductors to Topock March Image: Constraint of the deductor topock March Image: Constraint of the deductors to Topock March Image: Constraintoconstophic March		Lake												
Statumento Headwaters to Topook Marsh Image: CL Samill Caryon Headwaters to abandoned gaging sation at 30°9457 A &Ww FBC Image: CL FC Image: CL Addition and the abandoned gaging sation at 30°9457 A &Ww FBC Image: CL FC Image: CL Image: CL FC Image: CL Image: CL FC Image: CL Image: C	CL	Quigley Pond	32°43'40"/113°57'44"	Shallow		A&Ww			FBC			FC		
Weak Vision Number of the solution of a signing station at 35°094571 A AWW A BWW PEC III 35°7.68° FC A AL Sawmill Carryon Below schardoned gaging station at 35°094571 A AWW A AWW PEC III 35°7.68° A AL Cl Topock March Below schardoned gaging station at 33°424371 Shallow A AWW PEC D WS FC Agl Agl CL Topock March M4'832711412597 Shallow A AWW PEC D WS FC Agl Agl CL Topock March M4'832711412597 Shallow A AWW PEC D WS FC Agl Ag		Redondo Lake	32°44'32"/114°29'03"	Shallow		A&Ww			FBC			FC		
Sawnill Campon Headwaters to abandoned gaging station at 35'0945' A&Ww FBC In FFC In Adv Sawnill Campon Meakwaters to abandoned gaging station to confluence with Holy (L Moses Wesh PEC In FFC In Adv CL Topock Marsh 34/3271/14/2829' Shallow Adv FFEC IN Adv PEC IN Adv Adv IN IN IN IN <td< td=""><td>CL</td><td>Sacramento</td><td>Headwaters to Topock Marsh</td><td></td><td></td><td></td><td>A&We</td><td></td><td></td><td>PBC</td><td></td><td></td><td></td><td></td></td<>	CL	Sacramento	Headwaters to Topock Marsh				A&We			PBC				
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Sawmil Caryon Below abandoned gaging station to confluence with Holy AAW AAW PBC	CL	Sawmill Canyon	Headwaters to abandoned gaging station at 35°09'45"/			A&Ww			FBC			FC		AgL
Ci. Mose Wash Mode March A&W A&W PBC V A A Ci. Topock March 34/4327114/289' Shalow A&W FFEC DWS FC A A A Ci. (EDW) 110/13216' D1 hun downstream A														
CL Topock Markh 34*42271/14*28*55 Shallow A&W FBC DNS FC Agl AgL Typon Wash Town of Quartzste WWTP outfal at 33*42*97' Image: Comparison on Advartste WWTP outfal at 33*42*97' Im		Sawmill Canyon	Below abandoned gaging station to confluence with Holy											
Tyson Wash (EDW) Town of Quartzsite WWTP outfail at 33*42397 AAWebw PBC N A CL Veltoc Card Weltor Reads AAWebw FBC DWS Agl Agl CL Weltor Reads 22*072*114*07915 A AAWebw FBC FC FC Che Weltor Reads 22*072*114*07915 A AAWebw FBC FC Agl							A&We			PBC				
CL IEDW 114*1310* to 1 km downstream Image: CL A&Wedw PBC PBC Val Agl Agl CL Welton Canal Welton-Mohaw Kinguton Distric Image: CL Agl Agl <t< td=""><td>CL</td><td></td><td></td><td>Shallow</td><td></td><td>A&Ww</td><td></td><td></td><td>FBC</td><td></td><td>DWS</td><td>FC</td><td>Agl</td><td>AgL</td></t<>	CL			Shallow		A&Ww			FBC		DWS	FC	Agl	AgL
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GL Weither Beneficient 24/002/2111/2002/E PEC PEC <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>A&Wedw</td><td></td><td>PBC</td><td>DUMO</td><td></td><td></td><td></td></t<>								A&Wedw		PBC	DUMO			
GL Yuma Preving General Daed 22:505871141*36*141* A&Ww A&Ww FBC I FG I Agl Agl CL Yuma Area Canals Above municipal water treatment plant intakes drains Image: Comparison of the compari						A 9146.			ERC		DWS	FC	Agi	AgL
Genum Panel Communicipal water treatment plant intakes Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Communicipal water treatment plant intakes and all canals Image: Com									-					
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CL Yuma Area Canals Below municipal water treatment plant intakes and all drains Image: construction of the co														
Canals drains rest	CI		Below municipal water treatment plant intakes and all										Aal	Aal
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ReservoirReservoirImage: CreekHeadwaters to confluence with Nutrioso CreekA&WcImage: CreekFBCImage: CreekImage: CreekAgUcImage: CreekFBCImage: CreekFCImage: CreekImage: Cre	LC	Atcheson	33°59'59"/109°20'43"	Igneous		A&Ww			FBC			FC	Agl	AgL
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LC Bear Canyon Creek Headwaters to confluence with General Springs Canyon Creek A&Wc Image: Section of the confluence with Willow Creek AgL LC Bear Canyon Creek Headwaters to confluence with Willow Creek A&Wc Image: Section of the confluence with Willow Creek FBC Image: Section of the confluence with Willow Creek AgL LC Bear Canyon Lake 34*24*00*/111*00*06* Sedimentary A&Wc FBC Image: Section of the confluence with Willow Creek AgL LC Becker Lake 34*09*11*/109*18*3* Shallow A&Wc Image: Section of the confluence with Show Low Creek FBC Image: Section of the confluence with Show Low Creek A&Wc Image: Section of the confluence with Chevelon Creek A&Wc Image: Section of the confluence with Chevelon Creek A&Wc Image: Section of the confluence with Chevelon Creek A&Wc Image: Section of the confluence with Chevelon Creek A&Wc Image: Section of the confluence with Chevelon Creek A&Wc Image: Section of the confluence with Chevelon Creek A&Wc Image: Section of the confluence with Chevelon Creek A&Wc Image: Section of the confluence with Chevelon Creek A&Wc Image: Section of the confluence with Chevelon Creek A&Wc Image: Section of the confluence with Chevelon Creek A&Wc Image: Section	LC	Barbershop	Headwaters to confluence with East Clear Creek		A&Wc				FBC			FC		AgL
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LC Becker Lake 34°09'11'/109°18'23" Shallow A&Wc Image: Constraint of the constraint o	LC	Bear Canyon	34°24'00"/111°00'06"	Sedimentary	A&Wc				FBC			FC	Agl	AgL
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Lake Lake Image: Constraint of the sector of the sect				Cadireret							DIAIC			
LC Beet Lake 34*86*64*/111*20*11* Igneeue A&We Image: Comparison of the comparison of	LU	-	34 20'32'71'10''40''13''	Seamentary	A&VVC				FBC		DWS	۲C	Agl	AgL
Bow and Arrow Wash Headwaters to confluence with Rio de Flag Image: Confluence with Rio de Flag Image: Confluence with Rio de Flag Image: Reserver A&We Image: Reserver PBC Image: Reserver AgL LC Buck Springs Canyon Creek Headwaters to confluence with Leonard Canyon Creek A&Wc Image: Reserver FBC Image: Reserver FC AgL LC Bunch Reserver 34°0220″/109°26′48″ Igneous A&Wc Image: Reserver FBC Image: Reserver FC AgL	10		24050541/4440201441	Innocut	A 914/-				EDO			50		٨
LC Wash Headwaters to confluence with Rio de Flag A&We PBC I A LC Buck Springs Canyon Creek Headwaters to confluence with Leonard Canyon Creek A&Wc A&Wc FBC I FC AgL LC Bunch Reservoir 34°0220″/109°26′48″ Igneous A&Wc Image: ABW Construction of the construction	L0		34 86 84 7111 20 11"	igneous	₩¥₩	+	<u> </u>	<u> </u>	FBC			⊧ €		//gL
LC Buck Springs Canyon Creek Headwaters to confluence with Leonard Canyon Creek A&Wc FBC FC AgL LC Bunch Reservoir 34°02'0''/109°26'48" Igneous A&Wc Image: Comparison of the comparison	10		Handwaters to confluence with Dir. 1. 71				A 0141			DDC				
Canyon Creek Image: Canyon Creek <td></td> <td></td> <td></td> <td></td> <td>A &\//o</td> <td></td> <td>A&We</td> <td></td> <td>FBC</td> <td>PBC</td> <td></td> <td>FC</td> <td></td> <td>Aal</td>					A &\//o		A&We		FBC	PBC		FC		Aal
LC Bunch Reservoir 34°02'20"/109°26'48" Igneous A&Wc FBC FBC FC AgI AgL	10		THE AMALE IS TO COMMENCE WITH LEONALD CATIYON CREEK		AGAAC				100			10		∩y∟
	10		34°02'20"/109°26'48"	laneous	A&Wc		<u> </u>		FBC			FC	Anl	Aal
LG Camille Tank 34*56*03*/111*22*40* Igneeue A&Ww FBC FG AeL	10	Dunon Neservoll	57 52 20 /100 20 TO	ignoous	ACC INC				100			10	rigi	∩g∟
		1	0.495510000/4.449001400	Innaaua	1	A 9144			EDC		1	EC		Agl

LC	Carnero Lake	34°06'57"/109°31'42"	Shallow	A&Wc				FBC			FC		AgL
LC	Chevelon	34°29'18"/110°49'30"	Sedimentary	A&Wc				FBC			FC	Agl	AgL
LC	Canyon Lake Chevelon Creek	Headwaters to confluence with the Little Colorado River		A&Wc				FBC			FC	Agl	AgL
	Chevelon Creek			Aawc				FBC			FC	Ayı	AyL
_C	Chevelon Creek, West Fork	Headwaters to confluence with Chevelon Creek		A&Wc				FBC			FC		AgL
.C	Chilson Tank	34°51'43"/111°22'54"	Igneous		A&Ww			FBC			FC		AqL
LC	Clear Creek	Headwaters to confluence with the Little Colorado River		A&Wc				FBC		DWS	FC		AgL
LC	Clear Creek	34°57'09"/110°39'14"	Shallow	A&Wc				FBC		DWS	FC	Agl	AgL
LC	Reservoir Coconino	35°00'05"/111°24'10"	Igneous	A&Wc				FBC			FC	Agl	AgL
	Reservoir												
	Colter Creek	Headwaters to confluence with Nutrioso Creek	0	A&Wc				FBC			FC		AgL
LC	Colter Reservoir	33°56'39"/109°28'53"	Shallow	A&Wc				FBC			FC		AgL
LC	Concho Creek	Headwaters to confluence with Carrizo Wash		A&Wc				FBC			FC		AgL
LC	Concho Lake	34°26'37"/109°37'40"	Shallow	A&Wc				FBC			FC	Agl	AgL
LC	Cow Lake	34°53'14"/111°18'51"	Igneous		A&Ww			FBC			FC		AgL
LC	Coyote Creek	Headwaters to confluence with the Little Colorado River		A&Wc				FBC			FC	Agl	AgL
LC	Cragin Reservoir	34°32'40"/111°11'33"	Deep	A&Wc				FBC			FC	Agl	AgL
	(formerly Blue												
	Ridge Reservoir)												
LC	Crisis Lake (Snake Tank #2)	34°47'51"/111°17'32"			A&Ww			FBC			FC		AgL
LC	Dane Canyon	Headwaters to confluence with Barbershop Canyon		A&Wc				FBC			FC		AgL
	Creek	Creek											
LC	Daves Tank	34°44'22"/111°17'15"			A&Ww			FBC			FC		AgL
LC	Deep Lake	35°03'34"/111°25'00"	Igneous		A&Ww			FBC			FC		AgL
LC	Dry Lake (EDW)	34°38'02"/110°23'40"	EDW				A&Wodw		PBC				
LC	Ducksnest Lake	34°59'14"/111°23'57"			A&Ww			FBC			FC		AgL
LC	East Clear Creek	Headwaters to confluence with Clear Creek		A&Wc				FBC			FC	Agl	AgL
LC	Ellis Wiltbank Reservoir	34°05'25"/109°28'25"	Igneous		A&Ww			FBC			FC	Agl	AgL
	Estates at Pine												
LC	Canyon lakes	35°09'32"/111°38'26"	EDW				A&Wedw		PBC				
	(EDW)												
LC	Fish Creek	Headwaters to confluence with the Little Colorado River		A&Wc				FBC			FC		AgL
LC	Fool's Hollow Lake	34°16'30"/110°03'43"	Igneous	A&Wc				FBC			FC		AgL
LC	General Springs	Headwaters to confluence with East Clear Creek		A&Wc				FBC			FC		AgL
	Canyon Creek												
LC	Geneva Reservoir	34°01'45"/109°31'46"	Igneous		A&Ww			FBC			FC		AgL
LC	Hall Creek	Headwaters to confluence with the Little Colorado River		A&Wc				FBC			FC	Agl	AgL
LC	Hart Canyon	Headwaters to confluence with Willow Creek		A&Wc				FBC			FC		AgL
LC	Creek Hay Lake	34°00'11"/109°25'57"	Igneous	A&Wc	1			FBC	1	<u> </u>	FC	-	AgL
LC	Hay Lake Hog Wallow Lake		Igneous	A&Wc A&Wc	1			FBC			FC	Agl	AgL
	llare let	2500315511/44407715011			A 0144			500			50		
LC LC	Horse Lake	35°03'55"/111°27'50"		A 91A/-	A&Ww			FBC			FC FC	-	AgL
	Hulsey Creek Hulsey Lake	Headwaters to confluence with Nutrioso Creek 33°55'58"/109°09'40"	Sedimentary	A&Wc A&Wc	-			FBC FBC		-	FC		AgL AgL
	I WIDEY LONG		Geuinentaly	ACCING				100			10		'ny∟
LC	Indian Lake	35°00'39"/111°22'41"			A&Ww			FBC			FC		AgL
LC	Jacks Canyon	Headwaters to confluence with the Little Colorado River		A&Wc				FBC		_	FC	Agl	AgL
LC	Creek Jarvis Lake	33°58'59"/109°12'36"	Sedimentary		A&Ww			FBC			FC		AgL
LC	Kinnikinick Lake	34°53'53"/111°18'18"	Igneous	A&Wc				FBC			FC		AgL
LC	Knoll Lake	34°25'38"/111°05'13"	Sedimentary	A&Wc				FBC		<u> </u>	FC		AgL
-				1	1	I	1	1	1	1	1	1	

LC	Lake Humphreys	35°11'51"/111°35'19"	EDW				A&Wedw		PBC				
LC	(EDW) Lake Mary,	35°06'21"/111°34'38"	Igneous	A&Wc				FBC		DWS	FC		AgL
LC	Lower Lake Mary,	35°03'23"/111°28'34"	Igneous	A&Wc				FBC		DWS	FC		AgL
LC	Upper Lake of the	34°09'40"/109°58'47"	Igneous	A&Wc				FBC			FC	Agl	AgL
LC	Woods Lee Valley Creek	Headwaters to Lee Valley Reservoir		A&Wc				FBC			FC		
-	(OAW) Lee Valley Creek			A&Wc				FBC			FC		AgL
LC		Fork of the Little Colorado River											-
LC	Lee Valley Reservoir	33°56'29"/109°30'04"	Igneous	A&Wc				FBC			FC	Agl	AgL
LC	Leonard Canyon Creek	Headwaters to confluence with Clear Creek		A&Wc				FBC			FC		AgL
LC	Leonard Canyon Creek, East Fork	Headwaters to confluence with Leonard Canyon Creek		A&Wc				FBC			FC		AgL
LC	Leonard Canyon Creek, Middle Fork	Headwaters to confluence with Leonard Canyon, West Fork		A&Wc				FBC			FC		AgL
LC	Leonard Canyon Creek, West Fork	Headwaters to confluence with Leonard Canyon, East Fork		A&Wc				FBC			FC		AgL
LC LC	Lily Creek Little Colorado	Headwaters to confluence with Coyote Creek Headwaters to Lyman Reservoir		A&Wc A&Wc				FBC FBC			FC FC	Agl	AgL AgL
	River	-										-	-
LC	Little Colorado River	Below Lyman Reservoir to confluence with the Puerco River		A&Wc				FBC		DWS	FC	Agl	AgL
LC	Little Colorado River	Below Puerco River confluence to the Colorado River, excluding segments on Native American Lands			A&Ww			FBC		DWS	FC	Agl	AgL
LC	Little Colorado River, East Fork	Headwaters to confluence with the Little Colorado River		A&Wc				FBC			FC		AgL
LC	Little Colorado River, South Fork	Headwaters to confluence with the Little Colorado River		A&Wc				FBC			FC		AgL
LC	Little Colorado River, West Fork (OAW)	Headwaters to Government Springs		A&Wc				FBC			FC		
LC	Little Colorado River, West Fork	Below Government Springs to confluence with the Little Colorado River		A&Wc				FBC			FC		AgL
LC	Little George Reservoir	34°00'37"/109°19'15"	Igneous		A&Ww			FBC			FC	Agl	
LC	Little Mormon	34°17'00"/109°58'06"	Igneous		A&Ww			FBC			FC	Agl	AgL
FC	Little Ortega-	34°22'47"/109°40'06"	Ignoous	A&We				FBC			FC		
LC	Lake Long Lake,	34°47'16"/111°12'40"	Igneous	A&Wc				FBC			FC	Agl	AgL
LC	Lower Long Lake,	35°00'08"/111°21'23"	Igneous	A&Wc				FBC			FC		AgL
LC	Upper Long Tom Tank	34°20'35"/110°49'22"		A&Wc				FBC			FC		AgL
	Lower Walnut	2E042i0A#/44402Ai07#	EDW				A 9\A/~		DRC				
LC	Canyon Lake (EDW)	35°12'04"/111°34'07"	EDW				A&Wedw		PBC				
LC	Lyman Reservoir	34°21'21"/109°21'35"	Deep	A&Wc				FBC			FC	Agl	AgL
LC	Mamie Creek	Headwaters to confluence with Coyote Creek		A&Wc				FBC			FC		AgL
LC LC	Marshall Lake McKay Reservoir	35°07'18"/111°32'07" 34°01'27"/109°13'48"	Igneous	A&Wc A&Wc				FBC FBC			FC FC	Agl	AgL AgL
LC	Merritt Draw Creek	Headwaters to confluence with Barbershop Canyon Creek		A&Wc				FBC			FC		AgL
LC	Mexican Hay	34°01'58"/109°21'25"	Igneous	A&Wc				FBC			FC	Agl	AgL
LC	Lake Milk Creek	Headwaters to confluence with Hulsey Creek		A&Wc				FBC			FC		AgL

LC	Miller Canyon	Headwaters to confluence with East Clear Creek		A&Wc				FBC			FC		AgL
LC	Creek Miller Canyon	Headwaters to confluence with Miller Canyon Creek		A&Wc				FBC			FC		AgL
20	Creek, East Fork			710110									192
FC	Mineral Creek	Headwaters to Little Ortega Lake		A&Wo	1			FBC			FC	Agl	AgL
LC LC	Mormon Lake	34°56'38"/111°27'25"	Shallow	A&Wo	1			FBC		DWS	FC	Agl	AgL
LC								FBC		0110	FC	rigi	
	Morton Lake	34°53'37"/111°17'41"	Igneous	A&Wc									AgL
LC	Mud Lake	34°55'19"/111°21'29"	Shallow		A&Ww			FBC			FC		AgL
LC	Ned Lake (EDW)	34°17'17"/110°03'22"	EDW				A&Wedw		PBC				
LC	Nelson Reservoir	34°02'52"/109°11'19"	Sedimentary	A&Wc				FBC			FC	Agl	AgL
LC	Norton Reservoir	34°03'57"/109°31'27"	Igneous		A&Ww			FBC			FC		AgL
LC	Nutrioso Creek	Headwaters to confluence with the Little Colorado River		A&Wc				FBC			FC	Agl	AgL
LC	Paddy Creek	Headwaters to confluence with Nutrioso Creek		A&Wc				FBC			FC		AqL
				AQUIC				FDC			FU		AyL
FC	Phoonix Park- Wash	Headwaters to Dry Lake				A&Wo			PBC				
LC	Pierce Seep	34°23'39"/110°31'17"		A&Wc					PBC				
LC	Pine Tank	34°46'49"/111°17'21"	Ignoous		A&Ww	1		FBC		1	FC	1	AqL
			Igneous	<u> </u>	MOVIW		A 014/	FDU	000		гU		AyL
LC	Pintail Lake (EDW)	34°18'05"/110°01'21"	EDW				A&Wedw		PBC				
LC	Porter Creek	Headwaters to confluence with Show Low Creek		A&Wc	1			FBC			FC		AqL
Fe	Potato Lako	35°03'15"/111°24'13"	Igneous	A&Wc	1	1		FBC	<u> </u>	1	FC	1	AgL
<u>не</u>					<u> </u>								Hye
LC	Pratt Lake	34°01'32"/109°04'18"	Sedimentary	A&We				FBC			FC		
LC	Puerco River	Headwaters to confluence with the Little Colorado River			A&Ww			FBC		DWS	FC	Agl	AgL
		Sanders Unified School District WWTP outfall at	1	1		1		1			1	1	
LC	Puerco River	35°12'52"/109°19'40" to 0.5 km downstream					A&Wedw		PBC				
	(EDW)												
LC	Rainbow Lake	34°09'00"/109°59'09"	Shallow Igneous	A&Wc				FBC			FC	Agl	AgL
LC	Reagan	34°02'09"/109°08'41"	Igneous		A&Ww			FBC			FC		AgL
	Reservoir												
LC	Rio de Flag	Headwaters to City of Flagstaff WWTP outfall at 35°12'21"/111°39'17"				A&We			PBC				
LC	Rio de Flag	From City of Flagstaff WWTP outfall to the confluence with San Francisco Wash					A&Wedw		PBC				
20	(EDW)						, lattour		. 50				
LC	River Reservoir	34°02'01"/109°26'07"	Igneous	A&Wc				FBC			FC	Agl	AgL
LC	Rogers Reservoir		Igneous		A&Ww			FBC			FC		AgL
											= 0		
LC LC	Rudd Creek Russel Reservoir	Headwaters to confluence with Nutrioso Creek 33°59'29"/109°20'01"	Igneous	A&Wc	A&Ww			FBC FBC			FC FC	Agl	AgL AgL
LC	San Salvador	33°58'51"/109°19'55"	Igneous	A&Wc				FBC			FC	Agl	AgL
10	Reservoir	24940124#/400957124#	Innerus	A 014/	<u> </u>			ED O			50	A 1	Act
LC LC	Scott Reservoir Show Low Creek	34°10'31"/109°57'31" Headwaters to confluence with Silver Creek	Igneous	A&Wc A&Wc				FBC FBC			FC FC	Agl Agl	AgL AgL
													-
LC	Show Low Lake	34°11'36"/110°00'12"	Igneous	A&Wc				FBC			FC	Agl	AgL
LC	Silver Creek	Headwaters to confluence with the Little Colorado River		A&Wc				FBC			FC	Agl	AgL
LC	Slade Reservoir	33°59'41"/109°20'26"	Igneous		A&Ww			FBC			FC	Agl	AgL
20				1				FBC			FC	Agl	AgL
LC	Soldiers Annex	34°47'15"/111°13'51"	Igneous	A&Wc									
LC	Lake		Igneous										
LC LC		34°47'15"/111°13'51" 34°47'47"/111°14'04"	Igneous Igneous	A&Wc A&Wc				FBC			FC	Agl	AgL
LC	Lake		•		A&Ww			FBC FBC			FC FC	Agl	AgL AgL
LC LC	Lake Soldiers Lake	34°47'47"/111°14'04"	•		A&Ww							Agl	
LC LC LC	Lake Soldiers Lake Spaulding Tank	34°47'47"/111°14'04" 34°30'17"/111°02'06"	Igneous	A&Wc	A&Ww A&Ww			FBC			FC	Agl	AgL
	Lake Soldiers Lake Spaulding Tank Sponcollor Lako St Johns	34°47'47"/111°14'04" 34°30'17"/111°02'06" 34°14'09"/109°50'46"	Igneous	A&Wc				FBC FBC			FC FC		AgL AgL
LC LC LC	Lake Soldiers Lake Spaulding Tank Sponsollor Lake St Johns Reservoir (Little	34°47'47"/111°14'04" 34°30'17"/111°02'06"	Igneous	A&Wc				FBC			FC	Agl	AgL
	Lake Soldiers Lake Spaulding Tank Sponsellor Lake St Johns Reservoir (Little Reservoir)	34°47'47"/111°14'04" 34°30'17"/111°02'06" 34°14'00"/100°50'46" 34°29'10"/109°22'06"	Igneous Igneous Igneous	A&Wc			A&Wedw	FBC FBC	PBC		FC FC		AgL AgL
	Lake Soldiers Lake Spaulding Tank Sponsollor Lake St Johns Reservoir (Little	34°47'47"/111°14'04" 34°30'17"/111°02'06" 34°14'09"/109°50'46"	Igneous	A&Wc			A&Wedw	FBC FBC	PBC		FC FC		AgL AgL

LC	Tunnel Reservoir	34°01'53"/109°26'34"	Igneous	A&Wc				FBC			FC	Agl	AgL
LC	Turkey Draw	High Country Pines II WWTP outfall at 33°25'35"/					A&Wedw		PBC				
	(EDW) Unnamed Wash	110°38'13" to confluence with Black Canyon Creek Bison Ranch WWTP outfall at 34°23'31"/110°31'29" to											
LC	(EDW)	Pierce Seep					A&Wedw		PBC				
		Black Mosa Ranger Station WWTP outfall at 34°23'35"/											
FC	Unnamed Wash-	110°33'36" to confluence of Oklahoma Flat Draw					A&Wedw		PBC				
	(EDW)										= 0		
LC	Vail Lake Walnut Creek	35°05'23"/111°30'46" Headwaters to confluence with Billy Creek	Igneous	A&Wo A&Wc	+		-	FBC FBC			FC FC		AgL AgL
LC	Water Canyon	Headwaters to confluence with the Little Colorado River		A&Wc				FBC			FC		AgL
	Creek												
FC	Water Canyon	34°00'16"/109°20'05"	Ignoous		∧&₩w			FBC			FC	Agl	AgL
LC	Reservoir Whale Lake	35°11'13"/111°35'21"	EDW				A&Wedw		PBC				
10	(EDW)	33 11 3711 3321	LDW				Advicuw		1 00				
LC	Whipple Lake	'34°16'49"/109°58'29"	Igneous		A&Ww			FBC			FC		AgL
LC	White Mountain	34°21'57"/109°59'21"	Igneous	A&Wc				FBC			FC	Agl	AgL
	Lake				-		1						
LC	White Mountain	34°00'12"/109°30'39"	Igneous	A&Wc				FBC			FC	Agl	AgL
LC	Reservoir Willow Creek	Headwaters to confluence with Clear Creek		A&Wc				FBC			FC		AgL
LC	Willow Springs	Headwaters to confluence with Chevelon Creek		A&Wc				FBC			FC		AgL
	Canyon Creek												•
LC	Willow Springs	34°18'13"/110°52'16"	Sedimentary	A&Wc				FBC			FC	Agl	AgL
LC	Lake	24907/25#/400957/04#	Innerus	A 914/a				FRO			50	٨٣١	٨٣١
LC	Woodland Reservoir	34°07'35"/109°57'01"	Igneous	A&Wc				FBC			FC	Agl	AgL
LC	Woods Canyon	Headwaters to confluence with Chevelon Creek		A&Wc				FBC			FC		AgL
	Creek												-
LC	Woods Canyon	34°20'09"/110°56'45"	Sedimentary	A&Wc				FBC			FC	Agl	AgL
LC	Lake Zuni River	Handracker to an America with the Little Octoorde Diverse		A 014/-	-			FBC			50	A1	A
LC	Zuni River	Headwaters to confluence with the Little Colorado River		A&Wc				FBC			FC	Agl	AgL
MG	Agua Fria River	Headwaters to confluence with unnamed tributary at				A&We			PBC				AgL
		34°35'14"/112°16'18"											
MG	Agua Fria River	Below confluence with unnamed tributary to State Route					A&Wedw		PBC				AgL
WG	(EDW)	169					Aavveuw		FBC				Ayı
MG	Agua Fria River	From State Route 169 to Lake Pleasant			A&Ww			FBC		DWS	FC	Agl	AgL
	-											-	
MG	Agua Fria River	Below Lake Pleasant to the City of El Mirage WWTP at ' 33°34'20"/112°18'32"				A&We			PBC				AgL
MG	Agua Fria River	From City of El Mirage WWTP outfall to 2 km downstream			1		A&Wedw		PBC				
	(EDW)	· · · · · · · · · · · · · · · · · · ·											
		Below 2 km downstream of the City of El Mirage WWTP											
MG	Agua Fria River	to City of Avondale WWTP outfall at 33°23'55"/				A&We			PBC				
		112°21'16"											
		From City of Avondale WWTP outfall to confluence with							55.0				
MG MG	Agua Fria River	Gila River 35th Avenue & Baseline Read, Pheenix at-	Urban		A&Ww		A&Wedw		PBC PBC		FC		
		33°22'23"/ 112°08'20"											
MG	Andorra Wash	Headwaters to confluence with Cave Creek Wash				A&We			PBC				
MG MG	Antelope Creek Arlington Canal	Headwaters to confluence with Martinez Wash Creek From Gila River at 33°20'54"/112°35'39" to Gila River at			A&Ww	+		FBC	+		FC		AgL AgL
	, amigion Ganal	33°13'44"/112°46'15"				1			1				, v9⊏
MG	Ash Creek	Headwaters to confluence with Tex Canyon		A&Wc				FBC			FC	Agl	AgL
MG	Ash Creek	Below confluence with Tex Canyon to confluence with			A&Ww			FBC			FC	Agl	AgL
		Agua Fria River				-							
MG MG	Beehive Tank	32°52'37"/111°02'20" Headwaters to confluence with Eugene Gulch		A&Wc	A&Ww			FBC FBC	<u> </u>		FC FC	Agl	AgL AgL
WIG	Big Bug Creek	Below confluence with Eugene Gulch to confluence with		ACTIC		+	1		+		10	Ayı	луL
MG	Big Bug Creek	Agua Fria River			A&Ww			FBC			FC	Agl	AgL
MG	Black Canyon	Headwaters to confluence with the Agua Fria River			A&Ww			FBC			FC		AgL
	Creek		1	1	1	1	1	1	1	1	1	l	

MG	Blind Indian Creek	Headwaters to confluence with the Hassayampa River			A&Ww			FBC			FC		AgL
MG	Bonsall Park	59th Avenue & Bethany Home Read, Phoenix at 33°31'24"/112°11'08"	Urban		∧&₩w				PBC		FC		
MG	Canal Park Lake	College Avenue & Curry Road, Tompo at 33°26'54"/-	Urban		₩₩8				PBC		FC		
MG	Cave Creek	Headwaters to the Cave Creek Dam			A&Ww			FBC			FC		AqL
MG	Cave Creek	Cave Creek Dam to the Arizona Canal			ACCIN	A&We		TBC	PBC		10		луL
MG									PBC				٨٣١
MG	Centennial Wash	Headwaters to confluence with the Gila River at 33°16'32"/112°48'08"				A&We			PBC				AgL
MG	Centennial Wash Ponds	33°54'52"/113°23'47"			A&Ww			FBC			FC		AgL
MG	Chaparral Park	Hayden Road & Chaparral Road, Scottsdale at	Urban		A&Ww				PBC		FC	Agl	
MG	Lake Cortez Park Lake	33°30'40"/111°54'27" 35th Avenue & Dunlap, Clendale at 33°34'13"/-	Urban		A&₩₩				PBC		FG	Agl	
MG	Desert Breeze-	<u>412°07'52"</u> Galaxy Drive, West Chandler at 33°18'47"/ 111°55'10"	Urban		A&Ww				PBC		FC		
110	Lake Davila Commo	Handwalan ta angluana si th Minand Orach			A 014/				500		50		A -1
MG	Devils Canyon	Headwaters to confluence with Mineral Creek			A&Ww				FBC		FC		AgL
MG	Dobson Lake	Dobson Road & Los Lagos Vista Avonuo, Mosa at- 33°22'48"/111°52'35"	Urban		₩₩&A				PBC		FC		
MG	East Maricopa	From Brown and Greenfield Rds to the Gila River Indian			A&We				PBS				AgL
MG	Floodway Eldorado Park	Reservation Boundary Miller Road & Oak Street, Tempe at 33°28'25"/	Urban		A&Ww				PBC		FC		
	Lake	111°54'53"			/////				. 50				
MG	Encanto Park- Lako	15th Avenue & Encanto Blvd., Phoenix at 33°28'28"/ 112°05'18"	Urban		\\\\\				PBC		FC	Agl	
MG	Fain Lake	Town of Prescott Valley Park Lake 34°34'29"/ 112°21'06"	Urban		A&Ww				PBC		FC		
MG	French Gulch	Headwaters to confluence with Hassayampa River			A&Ww				PBC				AgL
MG	Galena Gulch	Headwaters to confluence with the Agua Fria River				A&We			PBC				AgL
	Galloway Wash	Town of Cave Creek WWTP outfall at 33°50'15"/											
MG	(EDW)	111°57'35" to confluence with Cave Creek					A&Wedw		PBC				
MG	Gila River	San Carlos Indian Reservation boundary to the Ashurst-			A&Ww			FBC			FC	Agl	AgL
MG	Gila River	Hayden Dam Ashurst-Hayden Dam to the Town of Florence WWTP				A&We			PBC				AgL
		outfall at 33°02'20"/111°24'19"		-						-			
MG	Gila River (EDW)	Town of Florence WWTP outfall to Felix Road					A&Wedw		PBC				
MG	Gila River	Felix Road to the Gila River Indian Reservation boundary				A&We			PBC				AgL
MG	Gila River (EDW)	From the confluence with the Salt River to Gillespie Dam					A&Wedw		PBC		FC	Agl	AgL
MG	Gila River	Gillespie Dam to confluence with Painted Rock Dam			A&Ww			FBC			FC	Agl	AgL
MG	Granada Park- Lake	6505 North 20th Street, Pheenix at 33°31'56"/ 112°02'16"	Urban		A&Ww				PBC		FC		
MG	Groom Creek	Headwaters to confluence with the Hassayampa River		A&Wc				FBC		DWS	FC		AgL
MG	Hassayampa	34°25'45"/112°25'33"	Igneous	A&Wc				FBC		DWS	FC		
MG	Lake Hassayampa	Headwaters to confluence with Copper Creek unnamed		A&Wc				FBC			FC	Agl	AgL
	River	tributary at 34°26'09"/112°30'32" Bolew confluence with Copper Creek to the confluence-											
MG	Hassayampa	with Blind Indian Creek. Below confluence with unnamed			A&Ww			FBC			FC	Agl	AgL
	River	tributary to confluence with unnamed tributary at										9.	, .ar
		33°51"52"/112°39'56"		1									
	Hassayampa	Below unnamed tributary confluence with Blind Indian-		1	1								
NC						A&We			PBC				AgL
MG	River	Creek to the Buckeye Irrigation Company Canal			A 0144			500			50		A1
MG	Hassayampa	Below Buckeye Irrigation Company canal to the Gila			A&Ww			FBC			FC		AgL
MG	River Horsethief Lake	River 34°09'42"/112°17'57"	Igneous	A&Wc				FBC		DWS	FC		AgL
MG	Indian Bend	Headwaters to confluence with the Salt River				A&We			PBC				
	Wash					ACTION							
MG	Indian Bend	Scottsdale at 33°30'32"/111°54'24"	Urban		1				PBC		FC		

											-		
MG	Indian School Park Lake	Indian School Road & Hayden Road, Scottsdale at 33°29'39"/111°54'37"	Urban		A&Ww				PBC		FC		
MG	Kiwanis Park	6000 South Mill Avenue, Tempe at 33°22'27"/ 111°56'22"	Urban		A&Ww				PBC		FC	Agl	
MG	Lake Pleasant	33°53'46"/112°16'29"	Deep		A&Ww			FBC		DWS	FC	Agl	AgL
MG	Lake Pleasant, Lower	33°50'32"/112°16'03"			A&Ww			FBC			FC	Agl	AgL
MG	Lion Canyon	Headwaters to confluence with Weaver Creek			A&Ww			FBC			FC		AgL
MG	Little Ash Creek	Headwaters to confluence with Ash Creek at			A&Ww			FBC			FC		AgL
MG	Lynx Creek	Headwaters to confluence with unnamed tributary at 34°34'29"/112°21'07"		A&Wc				FBC			FC		AgL
MG	Lynx Creek	Below confluence with unnamed tributary at 34°34'29"/ 112°21'07" to confluence with Agua Fria River			A&Ww			FBC			FC		AgL
MG	Lynx Lake	34°31'07"/112°23'07"	Deep	A&Wc				FBC		DWS	FC	Agl	AqL
MG	Maricopa Park-	33°35'28"/112°18'15"	Urban		A&Ww				PBC		FC		
MG	Martinez Canyon	Headwaters to confluence with Box Canyon			A&Ww			FBC			FC		AgL
MG	Martinez Wash	Headwaters to confluence with the Hassayampa River			A&Ww			FBC			FC	Agl	AgL
MG	Creek McKellips Park	Miller Road & McKellips Road, Scottsdale at 33°27'14"/	Urban		A&Ww				PBC		FC	Agl	
	Lake	111°54'49"			<u> </u>								
	McMicken Wash	City of Peoria Jomax WWTP outfall at 33°43'31"/											
MG MG	(EDW) Mineral Creek	112°20'15" to confluence with Agua Fria River Headwaters to 33°12'34"/110°59'58"			A&Ww		A&Wedw	FBC	PBC		FC		AqL
MG	Mineral Creek	Headwaters to 33°12'34"/110°59'58"			A&WW			FBC			FC		AgL
NC		22842124#/4408E01E0# 1- 22807/EC#/4408E0124#						DDC					
MG	(diversion tunnel	33°12'24"/110°59'58" to 33°07'56"/110°58'34"						PBC					
	and lined												
	channel)							500			50		
MG	Mineral Creek	End of diversion channel to confluence with Gila River			A&Ww			FBC			FC		AgL
MG	Minnehaha Creek	Headwaters to confluence with the Hassayampa River			A&Ww			FBC			FC		AgL
MG	New River	Headwaters to Interstate 17 at 33°54'19.5"/112°08'46"			A&Ww			FBC			FC	Agl	AgL
MG	New River	Below Interstate 17 to confluence with Agua Fria River				A&We			PBC				AgL
MG	Painted Rock Reservoir	33°04'23"/113°00'38"	Sedimentary		A&Ww			FBC			FC	Agl	AgL
MG	Papago Park	Galvin Parkway, Phoenix at 33°27'15"/111°56'45"	Urban		A&Ww				PBC		FC		
MG	Ponds Papago Park	Curry Road, Tempe 33°26'22"/111°55'55"	Urban		A&Ww				PBC		FC		
	South Pond								-				
MG	Perry Mesa Tank	34°11'03"/112°02'01"			A&Ww			FBC			FC		AgL
MG	Phoenix Area Canals	Granite Reef Dam to all municipal WTP intakes								DWS		Agl	AgL
MG	Phoenix Area	Below municipal WTP intakes and all other locations										Agl	AgL
MG	Canals Picacho	32°51'10"/111°28'25"	Shallow		A&Ww			FBC			FC	Agl	AgL
110	Reservoir			A 0141				500		<u> </u>	50		A
MG MG	Poland Creek Poland Creek	Headwaters to confluence with Lorena Gulch Below confluence with Lorena Gulch to confluence with		A&Wc	A&Ww			FBC FBC			FC FC		AgL AgL
MG	Queen Creek	Black Canyon Creek Headwaters to the Town of Superior WWTP outfall at			A&Ww				PBC		FC		AgL
		33°16'33"/111°07'44" Below Town of Superior WWTP outfall to confluence with											
MG	Queen Creek (EDW)	Potts Canyon					A&Wedw		PBC				
MG	(EDW) Queen Creek	Below Potts Canyon to ' Whitlow Dam			A&Ww			FBC		<u> </u>	FC		AgL
MG	Queen Creek	Below Whitlow Dam to confluence with Gila River			ACTIV	A&We			PBC		10		nyL
MG	Riverview Park-	Dobcon Road & 8th Stroot, Moca at 33°25'50"/-	Urban		<u>∧&₩₩</u>		-		PBC		FC		
-	Lako	111°52'29"											
MG	Roadrunnor Park-		Urban		A&Ww				PBC		FC		
	Lako											Agl	
MG	Salt River	Verde River to 2 km below Granite Reef Dam			A&Ww			FBC		DWS	FC		AgL

		2 km below Granite Reef Dam to City of Mesa NW WRF										
MG	Salt River	outfall at 33°26'22"/111°53'14"				A&We			PBC			
MG	Salt River (EDW)						A&Wedw		PBC			
MG	Salt River	Below Tempe Town Lake to Interstate 10 bridge				A&We			PBC	FC		
MG	Salt River	Below Interstate 10 bridge to the City of Phoenix 23rd Avenue WWTP outfall at 33°24'44"/ 112°07'59"			A&Ww				PBC	FG		
					Aavvw							
MG	Salt River (EDW)	From City of Phoenix 23rd Avenue WWTP outfall to					A&Wedw		PBC	FC	Agl	AgL
		confluence with Gila River		-								
		Superstition Mountains CFD WWTP outfall at 33°21'40"/										
MG	Siphon Draw	111°33'30" to 6 km downstream					A&Wedw		PBC			
	(EDW)			-								
MG	Sycamore Creek	Headwaters to confluence with Tank Canyon		A&Wc				FBC		FC		AgL
MG	Sycamore Creek	Below confluence with Tank Canyon to confluence with						FBC	1	FC		AgL
		Agua Fria River			A&Ww							Ű
MG	Tempe Town	At Mill Avenue Bridge at 33°26'00"/111°56'26"	Urban		A&Ww			FBC		FC		
	Lake											
MG	The Lake Tank	32°54'14"/111°04'15"			A&Ww			FBC		FC		AgL
MG	Tule Creek	Headwaters to confluence with the Agua Fria River			A&Ww			FBC		FC		AgL
MG	Turkey Creek	Headwaters to confluence with unnamed tributary at		A&Wc				FBC		FC	۸al	Ad
IVIG	Turkey Creek			AGVVC				FBC		FG	Agl	AgL
MG	Turkey Creek	34°19'28"/112°21'33" Below confluence with unnamed tributary to confluence		1	A&Ww			FBC	\vdash	FC	Agl	AgL
	Turkey Oleek	with Poland Creek			AUTW			1.00			Agi	Ag∟
MG	Unnamed Wash	Gila Bend WWTP outfall to confluence with the Gila River					A&Wedw		PBC			
	(EDW)						, la l'ioun		. 50			
MG	Unnamed Wash	Luke Air Force Base WWTP outfall at 33°32'21"/					A&Wedw		PBC			
	(EDW)	112°19'15" to confluence with the Agua Fria River										
		-		_								
	Unnamed Wash	North Florence WWTP outfall at 33°03'50"/ 111°23'13" to										
MG	(EDW)	confluence with Gila River		-			A&Wedw		PBC			
MG	Unnamed Wash	Town of Prescott Valley WWTP outfall at34°35'16"/					A&Wedw		PBC			
	(EDW)	112°16'18" to confluence with the Agua Fria River										
	Unnamed Wash	Town of Cave Creek WRF outfall at 33°48'02"/										
MG	(EDW)	111°59'22" to confluence with Cave Creek					A&Wedw		PBC			
MG	Wagner Wash	City of Buckeye Festival Ranch WRF outfall at 33°39'14"/					A&Wedw		PBC			
	(EDW)	112°40'18" to 2 km downstream										
MG	Walnut Canyon	Headwaters to confluence with the Gila River			A&Ww			FBC		FC		AgL
	Creek											
MG	Weaver Creek	Headwaters to confluence with Antelope Creek, tributary			A&Ww			FBC		FC		AgL
		to Martinez Wash <u>Creek</u>										
MG	White Canyon	Headwaters to confluence with Walnut Canyon Creek			A&Ww			FBC		FC		AgL
	Creek			-					+			
MG	Yavapai Lake	Town of Prescott Valley WWTP outfall 002 at 34°36'07"/										
SC	(EDW)	112°18'48" to Navajo Wash 12325 East Roger Road, Tucson 32°16'51"/ 110°43'52"	EDW Urban	-	A&Ww		A&Wedw	-	PBC PBC	FC		
30	Agua Caliente	12325 East Roger Road, Tucson 32 16 51 / 110 43 52	Urban		AGVVW				PBC	FG		
SC	Lake Agua Caliente	Headwaters to confluence with Soldier Trail			A&Ww			FBC		FC		AgL
	Wash											gr
SC	Agua Caliente	Below Soldier Trail to confluence with Tangue Verde				A&We			PBC		1	AgL
	Wash	Creek										
SC	Aquirre Wash	From the Tohono O'odham Indian Reservation boundary				A&We			PBC			
	°,	to 32°28'38"/111°46'51"										
SC	Alambre Wash	Headwaters to confluence with Brawley Wash				A&We			PBC			
SC	Alamo Wash	Headwaters to confluence with Rillito Creek				A&We			PBC			
SC	Altar Wash	Headwaters to confluence with Brawley Wash				A&We			PBC			
SC	Alum Gulch	Headwaters to 31°28'20"/110°43'51"				A&We		500	PBC		<u> </u>	AgL
SC	Alum Gulch	From 31°28'20"/110°43'51" to 31°29'17"/110°44'25"			A&Ww			FBC		FC		AgL
SC	Alum Gulch	Below 31°29'17"/110°44'25" to confluence with Sonoita		1		A&We			PBC			AgL
	, sain Guion	Creek										ar
SC	Arivaca Creek	Headwaters to confluence with Altar Wash		1	A&Ww			FBC	\vdash	FC	1	AqL
SC	Arivaca Lake	31°31'52"/111°15'06"	Igneous	1	A&Ww		1	FBC		FC	Agl	AgL
SC	Atterbury Wash	Headwaters to confluence with Pantano Wash				A&We			PBC			AgL
SC	Bear Grass Tank				A&Ww			FBC		FC		AgL
				1	1	1		1	i I		1	1

		Pima County WWMD Avra Valley WWTP outfall at										
SC	Black Wash	32°09'58"/111°11'17" to confluence with Brawley Wash					A&Wedw		PBC			
SC	(EDW) Bog Hole Tank	31°28'36"/110°37'09"			A&Ww			FBC		FC		AgL
SC	Brawley Wash	Headwaters to confluence with Los Robles Wash				A&We			PBC			
SC	California Gulch	Headwaters To U.S./Mexico border			A&Ww			FBC		FC		AgL
SC	Cañada del Oro	Headwaters to State Route 77			A&Ww			FBC		FC	Agl	AgL
SC	Cañada del Oro	Below State Route 77 to confluence with the Santa Cruz				A&We			PBC			AgL
		River										
SC	Cienega Creek	Headwaters to confluence with Gardner Canyon			A&Ww			FBC		FC		AgL
SC	Cienega Creek (OAW)	From confluence with Gardner Canyon to USGS gaging			A&Ww			FBC		FC		AgL
SC	(OAW) Davidson	station (#09484600) Headwaters to unnamed spring at 31°59'00"/ 110°38'49"				A&We			PBC			AgL
~~	Canyon							500		50		
SC	Davidson Canyon (OAW)	From unnamed Spring to confluence with unnamed tributary at 31°59'09"/110°38'44"			A&Ww			FBC		FC		AgL
SC	Davidson	Below confluence with unnamed tributary to unnamed				A&We			PBC			AgL
	Canyon (OAW)	spring at 32°00'40"/110°38'36"										<u> </u>
00	Davidson	From unnamed spring to confluence with Cienega Creek		1	A 0144			FDC				A -1
SC SC	Canyon (OAW) Empire Gulch	Headwaters to unnamed spring at 31°47'18"/ 110°38'17"			A&Ww	A&We		FBC	PBC	FC		AgL
SC	Empire Gulch	From 31°47'18"/110°38'17" to 31°47'03"/110°37'35"			A&Ww			FBC		FC		
SC	Empire Gulch	From 31°47'03"/110°37'35" to 31°47'05"/ 110°36'58"				A&We			PBC			AgL
SC	Empire Gulch	From 31°47'05"/110°36'58" to confluence with Cienega			A&Ww			FBC		FC		
60	Flux Canyon	Creek				A&We			PBC			Ard
<u>SC</u> SC	Gardner Canyon	Headwaters to confluence with Alum Gulch Headwaters to confluence with Sawmill Canyon		A&Wc		Active		FBC	PBC	FC		AgL
	Creek	······································										
SC	Gardner Canyon Creek	Below Sawmill Canyon to confluence with Cienega Creek			A&Ww			FBC		FC		
SC	Greene Wash	Santa Cruz River to the Tohono O'odham Indian				A&We			PBC			
		Reservation boundary Tohono O'odham Indian Reservation boundary to										
SC	Greene Wash	confluence with Santa Rosa Wash at 32°53'52"/				A&We			PBC			
SC	Harshaw Creek	111°56'48" Headwaters to confluence with Sonoita Creek at				A&We			PBC			AgL
SC	Hit Tank	32°43'57"/111°03'18"			A&Ww	710/10		FBC	1 00	FC		AgL
SC	Holden Canyon Creek	Headwaters to U.S./Mexico border			A&Ww			FBC		FC		
SC		31°21'11"/110°30'18"			A&Ww			FBC		FC		AgL
SC	Julian Wash	Headwaters to confluence with the Santa Cruz River				A&We			PBC			
SC	Kennedy Lake	Mission Road & Ajo Road, Tucson at 32°10'49"/	Urban		A&Ww				PBC	FC		1
SC	Lakeside Lake	111°00'27" 8300 East Stella Road, Tucson at 32°11'11"/ 110°49'00"	Urban	1	A&Ww				PBC	FC	-	
SC	Lemmon Canyon	Headwaters to confluence with unnamed tributary at		A&Wc	1			FBC		FC		
SC	Creek	32°23'48"/110°47'49" Below unnamed tributary at 32°23'48"/110°47'49" to			A&Ww			FBC	$\left \right $	FC	+	<u> </u>
30	Lemmon Canyon Creek	confluence with Sabino Canyon Creek			Mavvw			FDU		FC		
SC	Los Robles Wash	Headwaters to confluence with the Santa Cruz River				A&We			PBC		1	
SC	Madera Canyon	Headwaters to confluence with unnamed tributary at		A&Wc	1			FBC		FC		AgL
SC	Creek Madera Canyon	31°43'42"/110°52'51" Below unnamed tributary at 31°43'42"/110°52'51 to		+	A&Ww			FBC	$\left \right $	FC	-	AgL
	Creek	confluence with the Santa Cruz River										
SC	Mattie Canyon	Headwaters to confluence with Cienega Creek			A&Ww			FBC		FC		AgL
SC	Nogales Wash	Headwaters to confluence with Potrero Creek			A&Ww				PBC	FC		
SC	Oak Tree Canyon	Headwaters to confluence with Cienega Creek				A&We			PBC			
	Palisade Canyon	Headwaters to confluence with unnamed tributary at		A&Wc	1	1		FBC	1	FC	1	1

SC	Palisade Canyon	Below 32°22'33"/110°45'31" to unnamed tributary of Sabino Canyon			A&Ww			FBC			FC		
SC	Pantano Wash	Headwaters to confluence with Tanque Verde Creek				A&We			PBC				
SC	Parker Canyon	Headwaters to confluence with unnamed tributary at	A&Wc					FBC			FC		
SC	Creek Parker Canyon	31°24'17"/110°28'47" Below unnamed tributary to U.S./Mexico border			A&Ww			FBC			FC		
SC	Creek Parker Canyon	31°25'35"/110°27'15"	Deep	A&Wc				FBC			FC	Agl	AgL
SC	Lake Patagonia Lake	31°29'56"/110°50'49"	Deep		A&Ww			FBC		<u> </u>	FC	Agl	AgL
SC	Peña Blanca	31°24'15"/111°05'12"	Igneous		A&Ww			FBC		<u> </u>	FC	Agl	AgL
	Lake											g.	-
SC	Potrero Creek	Headwaters to Interstate 19				A&We			PBC				AgL
SC	Potrero Creek	Below Interstate 19 to confluence with Santa Cruz River			A&Ww			FBC			FC		AgL
SC	Puertocito Wash	Headwaters to confluence with Altar Wash				A&We			PBC				
SC	Quitobaquito Spring	(Pond and Springs) 31°56'39"/113°01'06"			A&Ww			FBC			FC		AgL
SC	Redrock Canyon Creek	Headwaters to confluence with Harshaw Creek			A&Ww			FBC			FC		
SC	Rillito Creek	Headwaters to confluence with the Santa Cruz River				A&We			PBC				AgL
SC	Romero Canyon	Headwaters to confluence with unnamed tributary at		A&Wc				FBC			FC		
SC	Creek Romero Canyon	32°24'29"/110°50'39" Below unnamed tributary to confluence with Sutherland			A&Ww			FBC			FC		
	Creek	Wash								\vdash	┣	<u> </u>	ļ
SC	Rose Canyon Creek	Headwaters to confluence with Sycamore Canyon		A&Wc				FBC			FC		
SC	Rose Canyon	32°23'13"/110°42'38"	Igneous	A&Wc				FBC			FC		AgL
~~	Lake							500		<u> </u>	50		
SC	Ruby Lakes	31°26'29"/111°14'22"	Igneous		A&Ww			FBC		DIAG	FC		AgL
SC SC	Sabino Canyon	Headwaters to 32°23'20"/110°47'06"		A&Wc	A&Ww			FBC FBC		DWS DWS	FC FC	Agl	
	Sabino Canyon	Below 32°23'20"/110°47'06" to confluence with Tanque Verde River			AQVVW			FBC		DWS		Agl	
SC	Salero Ranch Tank	31°35'43"/110°53'25"			A&Ww			FBC			FC		AgL
SC	Santa Cruz River	Headwaters to the at U.S./Mexico border			A&Ww			FBC			FC	Agl	AgL
		U.S./Mexico border to the Nogales International WWTP											
SC	Santa Cruz River	outfall at 31°27'25"/110°58'04"			A&Ww			FBC		DWS	FC	Agl	AqL
SC													
	Santa Cruz River	Nogales International WWTP outfall to the Josephine-					A&Wedw		PBC				AgL
	Santa Cruz River (EDW)	Nogales International WWTP outfall to the Josephine-					A&Wedw		PBC				AgL
SC		Nogales International WWTP outfall to the Jocephine Canyon Tubac Bridge				A&We	A&Wedw		PBC PBC				
SC	(EDW)	Nogales International WWTP outfall to the Josephine- Canyon Tubac Bridge -Josephine Canyon <u>Tubac Bridge</u> to Agua Nueva WRF				A&We	A&Wedw						AgL AgL
	(EDW) Santa Cruz River Santa Cruz River	Nogales International WWTP outfall to the Jocephine Canyon Tubac Bridge				A&We	A&Wedw A&Wedw						
	(EDW) Santa Cruz River Santa Cruz River (EDW)	Nogales International WWTP outfall to the Josephine- Canyon Tubac Bridge -Josephine Canyon <u>Tubac Bridge</u> to Agua Nueva WRF outfall at 32°17'04"/111°01'45"				A&We			PBC				
SC	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz	Nogales International WWTP outfall to the Josephine- Canyon <u>Tubac Bridge</u> -Josephine <u>Canyon</u> <u>Tubac Bridge</u> to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road							PBC PBC				AgL
SC	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West	Nogales International WWTP outfall to the Josephine- Canyon Tubac Bridge -Josephine Canyon <u>Tubac Bridge</u> to Agua Nueva WRF outfall at 32°17'04"/111°01'45"				A&We A&We			PBC				-
sc sc sc	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz	Nogales International WWTP outfall to the Josephine- Canyon Tubac Bridge Josephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation							PBC PBC				AgL
sc sc sc	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch Santa Cruz River	Nogales International WWTP outfall to the Jesephine- Canyon Tubac Bridge -Jesephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary				A&We A&We			PBC PBC PBC PBC				AgL AgL
sc sc sc	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch	Nogales International WWTP outfall to the Josephine- Canyon Tubac Bridge Josephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary Headwaters to City of Casa Grande WRF outfall at				A&We			PBC PBC PBC				AgL AgL
sc sc sc	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch Santa Cruz River	Nogales International WWTP outfall to the Jesephine- Canyon Tubac Bridge -Jesephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary				A&We A&We			PBC PBC PBC PBC				AgL AgL
sc sc sc	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch Santa Cruz River Santa Cruz Wash, North	Nogales International WWTP outfall to the Josephine- Canyon Tubac Bridge Josephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary Headwaters to City of Casa Grande WRF outfall at				A&We A&We			PBC PBC PBC PBC				AgL AgL
SC SC SC SC	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch Santa Cruz Wash, North Branch Santa Cruz	Nogales International WWTP outfall to the Josephine- Canyon Tubac Bridge Josephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary Headwaters to City of Casa Grande WRF outfall at 32°54'57"/111°47'13"				A&We A&We			PBC PBC PBC PBC				AgL AgL
SC SC SC SC	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch Santa Cruz Wash, North Branch Santa Cruz Wash, North	Nogales International WWTP outfall to the Josephine- Canyon Tubac Bridge Josephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary Headwaters to City of Casa Grande WRF outfall at 32°54'57"/111°47'13"				A&We A&We	A&Wedw		PBC PBC PBC PBC PBC				AgL AgL
sc sc sc sc sc	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch Santa Cruz Wash, North Branch Santa Cruz Wash, North Branch (EDW)	Nogales International WWTP outfall to the Jesephine- Canyon Tubac Bridge -Jecephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary Headwaters to City of Casa Grande WRF outfall at 32°54'57"/111°47'13" City of Casa Grande WRF outfall to 1 km downstream				A&We A&We A&We	A&Wedw		PBC PBC PBC PBC PBC				AgL AgL
sc sc sc sc sc	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch Santa Cruz Wash, North Branch Santa Cruz Wash, North Branch Branch (EDW) Santa Rosa	Nogales International WWTP outfall to the Josephine- Canyon Tubac Bridge Josephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary Headwaters to City of Casa Grande WRF outfall at 32°54'57"/111°47'13" City of Casa Grande WRF outfall to 1 km downstream Below Tohono O'odham Indian Reservation to the Ak				A&We A&We	A&Wedw		PBC PBC PBC PBC PBC				AgL AgL
sc sc sc sc sc	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch Santa Cruz River Santa Cruz Wash, North Branch Santa Cruz Wash, North Branch (EDW) Santa Rosa Wash	Nogales International WWTP outfall to the Jesephine- Canyon Tubac Bridge -Jecephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary Headwaters to City of Casa Grande WRF outfall at 32°54'57"/111°47'13" City of Casa Grande WRF outfall to 1 km downstream Below Tohono O'odham Indian Reservation to the Ak Chin Indian Reservation				A&We A&We A&We	A&Wedw		PBC PBC PBC PBC PBC				AgL AgL
sc sc sc sc sc sc	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch Santa Cruz Wash, North Branch Santa Cruz Wash, North Branch (EDW) Santa Rosa Wash Santa Rosa	Nogales International WWTP outfall to the Jesephine- Canyon Tubac Bridge -Jesephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04'/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary Headwaters to City of Casa Grande WRF outfall at 32°54'57"/111°47'13" City of Casa Grande WRF outfall to 1 km downstream Below Tohono O'odham Indian Reservation to the Ak Chin Indian Reservation Palo Verde Utilities CO-WRF outfall at 33°04'20'/				A&We A&We A&We	A&Wedw A&Wedw		PBC PBC PBC PBC PBC PBC				AgL AgL
sc sc sc sc sc sc sc	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch Santa Cruz Wash, North Branch Santa Cruz Wash, North Branch (EDW) Santa Rosa Wash Santa Rosa Wash (EDW)	Nogales International WWTP outfall to the Josephine- Canyon Tubac Bridge Josephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary Headwaters to City of Casa Grande WRF outfall at 32°54'57"/111°47'13" City of Casa Grande WRF outfall to 1 km downstream Below Tohono O'odham Indian Reservation to the Ak Chin Indian Reservation Palo Verde Utilities CO-WRF outfall at 33°04'20"/ 112°01'47" to the Chin Indian Reservation				A&We A&We A&We	A&Wedw		PBC PBC PBC PBC PBC				AgL AgL AgL
SC SC SC SC	(EDW) Santa Cruz River Santa Cruz River (EDW) Santa Cruz River, West Branch Santa Cruz Wash, North Branch Santa Cruz Wash, North Branch (EDW) Santa Rosa Wash Santa Rosa	Nogales International WWTP outfall to the Jesephine- Canyon Tubac Bridge -Jesephine Canyon Tubac Bridge to Agua Nueva WRF outfall at 32°17'04'/111°01'45" Agua Nueva WRF outfall to Baumgartner Road Headwaters to the confluence with Santa Cruz River Baumgartner Road to the Ak Chin Indian Reservation boundary Headwaters to City of Casa Grande WRF outfall at 32°54'57"/111°47'13" City of Casa Grande WRF outfall to 1 km downstream Below Tohono O'odham Indian Reservation to the Ak Chin Indian Reservation Palo Verde Utilities CO-WRF outfall at 33°04'20'/				A&We A&We A&We	A&Wedw A&Wedw	FBC	PBC PBC PBC PBC PBC PBC		FC		AgL AgL

		1				1	1	1		-	
	Sonoita Creek	Town of Patagonia WWTP outfall to permanent									
SC	(EDW)	groundwater upwelling point approximately 1600 feet				A&Wedw		PBC			AgL
		downstream of outfall									
		Below 1600 feet downstream of Town of Patagonia							F	;	
SC	Sonoita Creek	WWTP outfall groundwater upwelling point to confluence		A&W	w		FBC			Agl	AgL
		with the Santa Cruz River									
SC	Split Tank	31°28'11"/111°05'12"		A&W	w		FBC		F	;	AgL
SC	Sutherland Wash	Headwaters to confluence with Cañada del Oro		A&W	w		FBC		F	;	
SC	Sycamore	Headwaters to 32°21'60" / 110°44'48"	A&\	Vc			FBC		F	;	
	Canyon										
SC	Sycamore	From 32°21'60" / 110°44'48" to Sycamore Reservoir		A&W	w		FBC		F	;	
	Canyon										
SC	Sycamore	Headwaters to the U.S./Mexico border		A&W	w		FBC		F	;	AgL
	Canyon										
SC	Sycamore	32°20'57'/110°47'38"	A&\	Vc			FBC		F	;	AgL
	Reservoir										-
SC	Tanque Verde	Headwaters to Houghton Road		A&W	w		FBC		F	;	AgL
	Creek			-			-				Ĵ
SC	Tangue Verde	Below Houghton Road to confluence with Rillito Creek			A&We			PBC			AgL
00	Creek	bolow Houghton Houd to connuclice with Hunto of con			//0//0			1.00			, ıg∟
SC	Three R Canyon	Headwaters to Unnamed Trib to Three R Canyon at			A&We		1	PBC	\vdash	+	AgL
	Theo is carryon				Addie			1.00			лу∟
SC	Three R Canyon	31°28'26"/110°46'04" From 31°28'26"/110°46'04" to 31°28'28"/110°47'15"		A&W		+	FBC	+	F		AgL
30	Three R Canyon			AQV	w		FBC		F	,	AgL
00	TI DO							-		_	
SC	Three R Canyon	From (Cox Gulch) 31°28'28"/110°47'15" to confluence			A&We			PBC			AgL
		with Sonoita Creek					-				-
SC	Tinaja Wash	Headwaters to confluence with the Santa Cruz River			A&We			PBC			AgL
SC	Unnamed Wash	Oracle Sanitary District WWTP outfall at 32°36'54"/				A&Wedw		PBC			
30						Advieuw		FDC			
	(EDW)	110°48'02" to 5 km downstream					-	-			-
	Unnamed Wash	Arizona City Sanitary District WWTP outfall at 32°45'43"/									
SC	(EDW)	111°44'24" to confluence with Santa Cruz Wash				A&Wedw		PBC			
	Unnamed Wash	Saddlebrook WWTP outfall at 32°32'00"/110°53'01" to									
SC	(EDW)	confluence with Cañada del Oro				A&Wedw		PBC			
00	(2011)	Headwater to Santa Cruz Wash: Those reaches not				/ latitudii					
SC	Vekol Wash	located on the Ak-Chin, Tohono O'odham and Gila River			A&We			PBC			
00	VEROI VVASIT	Indian Reservations			Advic			100			
SC	Wakefield	Headwaters to confluence with unnamed tributary at	A&\	Vo			FBC		F		AgL
00			Add	vc			100			,	Ag∟
SC	Canyon Wakefield	31°52'48"/110°26'27" Below confluence with unnamed tributary to confluence		A&W			FBC		F		AgL
30				Advi	w		FDC		E,	, 	AgL
SC	Canyon Wild Burro	with Cienega Creek		A 014			FBC	-	F		A!
30		Headwaters to confluence with unnamed tributary at		A&W	w		FBC		F	,	AgL
	Canyon	32°27'43"/111°05'47"									
SC	Wild Burro	Below confluence with unnamed tributary to confluence			A&We			PBC			AgL
	Canyon	with Santa Cruz River									
SP	Abbot Canyon	Headwaters to confluence with Whitewater Draw		A&W			FBC		F		AgL
SP	Aravaipa Creek	Headwaters to confluence with Stowe Gulch		A&W	W		FBC		F	;	AgL
	Aravaipa Creek	Stowe Gulch to downstream boundary of Aravaipa						1			
SP	(OAW)	Canyon Wilderness Area		A&W	w	<u> </u>	FBC		F		AgL
		Below downstream boundary of Aravaipa Canyon				1	1		F		AgL
SP	Aravaipa Creek	Wilderness Area to confluence with the San Pedro River		A&W	w		FBC	1			
SP	Ash Creek	Headwaters to 31°50'28"/109°40'04"		A&W	w		FBC	+	F	; Agl	AgL
SP	Babocomari	Headwaters to confluence with the San Pedro River		A&W			FBC		F		AgL
-	River			Addi			. 50	1			, ıg∟
SP	Bass Canyon	Headwaters to confluence with unnamed tributary at	A&\	Vc			FBC	-	F	. —	AgL
01	,		Mai			1	1.00			´	лу∟
	Creek	32°26'06"/110°13'22"				+	+	+	┝──┼	+	-
		Below confluence with unnamed tributary to confluence						1			
SP	Bass Canyon	with Hot Springs Canyon Creek		A&W	w	1	FBC		F	;	AgL
	Creek									_	_
SP	Bass Canyon	32°24'00"/110°13'00"		A&W	w		FBC	1	F	;	AgL
	Tank	ļ				_				+	
SP	Bear Creek	Headwaters to U.S./Mexico border		A&W	w		FBC	1	F		AgL
SP	Big Creek	Headwaters to confluence with Pitchfork Canyon	/&/				FBC		F		AgL
		East Live above Military Descention at 0480410411						1			1
SP	Blacktail Pond	Fort Huachuca Military Reservation at 31°31'04"/		A&W	w		FBC		F	;	

					A&Ww			FBC			FC		AgL
SP	Black Draw	Headwaters to the U.S./Mexico border						<u> </u>	<u> </u>				
SP	Booger Canyon	Headwaters to confluence with Aravaipa Creek			A&Ww			FBC			FC		AgL
SP	Buck Canyon	Headwaters to confluence with Buck Creek Tank			A&Ww			FBC			FC		AgL
SP	Buck Canyon	Below Buck Creek Tank to confluence with Dry Creek				A&We			PBC				AgL
	Buehman	Headwaters to confluence with unnamed tributary at											
SP	Canyon Creek	32°24'54"/110°32'10"			A&Ww			FBC			FC		AgL
SP	(OAW) Buehman	Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC		AgL
	Canyon Creek	with San Pedro River							<u> </u>				
SP	Bull Tank	<u>32°31'13"/110°12'52"</u>			A&Ww			FBC	<u> </u>		FC		AgL
SP	Bullock Canyon	Headwaters to confluence with Buehman Canyon			A&Ww			FBC			FC		AgL
SP	Carr Canyon Creek	Headwaters to confluence with unnamed tributary at 31°27'01"/110°15'48"		A&Wc				FBC			FC		AgL
SP	Carr Canyon	Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC		AgL
0.0	Creek	with the San Pedro River			4.0146			500	<u> </u>		50		A
SP SP	Copper Creek Copper Creek	Headwaters to confluence with Prospect Canyon			A&Ww	A&We		FBC	PBC		FC		AgL AgL
01	oohhei oisek	Below confluence with Prospect Canyon to confluence with the San Pedro River				Adde			1 00				r∖y∟
SP	Deer Creek	Headwaters to confluence with unnamed tributary at		A&Wc				FBC	<u>├</u> ──┤		FC		AgL
		32°59'57"/110°20'11"						20					
SP	Deer Creek	Below confluence with unnamed tributary to confluence			A&Ww	1		FBC			FC	┝──┦	AgL
		with Aravaipa Creek											Ĵ
SP	Dixie Canyon	Headwaters to confluence with Mexican Canyon			A&Ww			FBC			FC		AgL
SP	Double R	Headwaters to confluence with Bass Canyon			A&Ww			FBC			FC		
SP	Canyon Creek Dry Canyon	Headwaters to confluence with Whitewater draw	1		A&Ww	<u> </u>		FBC	<u>├</u> ──┤		FC		AgL
SP	East Gravel Pit	Fort Huachuca Military Reservation at 31°30'54"/	Sedimentary		A&Ww	1	[FBC			FC		, ıg∟
-	Pond	110°19'44"	,										
SP	Espiritu Canyon Creek	Headwaters to confluence with Soza Wash			A&Ww			FBC			FC		AgL
SP	Fly Pond	Fort Huachuca Military Recorvation at 31°32'53"/ 110°21'16"			A&Ww			FBC			FC		
SP	Fourmile Creek	Headwaters to confluence with Aravaipa Creek			A&Ww			FBC			FC		AgL
SP	Fourmile	Headwaters to confluence with unnamed tributary at		A&Wc				FBC			FC		AgL
	Canyon, Left	32°43'15"/110°23'46"											Ť
	Prong Fourmile	Below confluence with unnamed tributary to confluence						<u> </u>					
SP	Canyon, Left	with Fourmile Canyon Creek			A&Ww			FBC			FC		AgL
	Prong												
SP	Fourmile Canyon, Right	Headwaters to confluence with Fourmile Canyon			A&Ww			FBC			FC		AgL
	Prong												
SP	Gadwell Canyon	Headwaters to confluence with Whitewater Draw			A&Ww			FBC			FC		AgL
SP	Garden Canyon Creek	Headwaters to confluence with unnamed tributary at 31°29'01"/110°19'44"		A&Wc				FBC		DWS	FC	Agl	
SP	Garden Canyon	Below confluence with unnamed tributary to confluence			A&Ww			FBC		DWS	FC	Agl	
	Creek	with the San Pedro River						 	↓ '		<u> </u>	\vdash	<u> </u>
SP	Glance Creek	Headwaters to confluence with Whitewater Draw			A&Ww			FBC	+		FC FC		AgL
SP SP	Gold Gulch Goudy Canyon	Headwaters to U.S./Mexico border Headwaters to confluence with Grant Creek		A&Wo	A&Ww			FBC FBC	\vdash		FC FC		AgL AgL
01	Wash	The and the companies with order of the		, . 									, . 9=
SP	Grant Creek	Headwaters to confluence with unnamod tributary at 32°38'10"/109°56'37"		A&Wo				FBC		DWS	£		AgL
		Bolow confluence with unnamed tributary to terminus-											
SP SP	Grant Greek	near Willcox Playa	Cadimanton		A&Ww			FBC	├ ──		F C		AgL
SP	Gravel Pit Pond	Fort Huachuca Military Reservation at 31°30'52"/ 110°19'49"	Sedimentary		A&Ww			FBC			FC		
SP	Greenbush Draw	From U.S./Mexico border to confluence with San Pedro				A&We			PBC				
	+	River Fort Huachuca Military Reservation at 32°30'30"/		1	A&Ww			FBC	+		FC		
SP	Hidden Pond				Aann		1					ι i	
SP SP	Hidden Pond	109°22'17" Headwaters to confluence with unnamed tributary at		A&Wc	Addim			FBC			FG		AgL

SP High Crock near Willex Play SP Horse Camp Headwaters to Canyon SP Hot Springs Headwaters to Canyon Creek SP Johnson Canyon 109°43'32" SP Johnson Canyon 109°43'32" SP Lake Cochice- (EDW) South of Twin Ling SP Leslie Canyon Headwaters to Canyon SP Miller Canyon Headwaters to Canyon SP Mule Canyon Headwaters to Canyon SP Mountain View Fort Huachuca I (Goff Course SP Mule Gulch Headwaters to Canyon SP Mule Gulch Headwaters to Canyon SP Oak Grove Headwaters to Canyon SP Oak Grove Headwaters to Canyon SP Oak Grove Headwaters to Canyon SP Oak Grove <t< th=""><th>confluence with Aravaipa Creek confluence with the San Pedro River Whitewater Draw at 31°32'46"/ </th><th>Sedimentary</th><th>A&Wc</th><th>A&Ww A&Ww A&Ww</th><th></th><th>A&Wodw</th><th>FBC FBC FBC FBC FBC FBC FBC FBC FBC FBC</th><th>PBC</th><th>DWS</th><th>FC FC FC FC FC FC FC</th><th></th><th>AgL AgL AgL AgL AgL AgL AgL</th></t<>	confluence with Aravaipa Creek confluence with the San Pedro River Whitewater Draw at 31°32'46"/ 	Sedimentary	A&Wc	A&Ww A&Ww		A&Wodw	FBC FBC FBC FBC FBC FBC FBC FBC FBC FBC	PBC	DWS	FC FC FC FC FC FC FC		AgL AgL AgL AgL AgL AgL AgL
SP Horse Camp Canyon Headwaters to C Anyon Creek SP Hot Springs Canyon Creek Headwaters to C Headwaters to C Anyon Creek SP Johnson Canyon 109"43'32" SP Johnson Canyon 109"43'32" SP Lake Cechice- (EDW) South of Twin Le 409"49'27" SP Leslie Canyon Headwaters to C Creek SP Lower Garden Canyon Pond Fort Huachuca I 110"15'04" SP Mexican Canyon Headwaters to C 110"15'04" SP Miller Canyon Headwaters to C 110"15'04" SP Miller Canyon Headwaters to C 10"15'04" SP Miller Canyon Headwaters to C 10"15'04" SP Mulle Canyon Below Broken A San Pedro Rive Golf Course SP Mountain View Golf Course Fort Huachuca I 10"18'52" SP Mule Gulch Headwaters to C Creek SP Mule Gulch Headwaters to C Canyon SP Mule Gulch Headwaters to C Creek SP Oak Grove Headwaters to C Creek SP Paige Canyon Headwaters to C Creek	confluence with Aravaipa Creek confluence with the San Pedro River Whitewater Draw at 31°32'46"/ 	Sedimentary		A&Ww A&Ww A&Ww A&Ww A&Ww A&Ww A&Ww		A&Wodw	FBC FBC FBC FBC FBC FBC FBC FBC	PBC	DWS	FC FC FC FC FC		AgL AgL AgL AgL AgL
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Image Image Image SP Leslie Canyon Headwaters to c SP Lower Garden Fort Huachuca I Creek SP Mexican Canyon SP Mexican Canyon Headwaters to E SP Miller Canyon Headwaters to E SP Miller Canyon Below Broken A SP Miller Canyon Below Broken A SP Miller Canyon Below Broken A SP Moenechine- Headwaters to E Goff Course 110°18'52" Pond 10°18'52" Pond 10°18'52" SP Mule Gulch Headwaters to t SP Mule Gulch Below the Highy Whitewater Dran SP Oak Grove SP Oak Grove Headwaters to c Creek SP Paige Canyon SP Paige Canyon Headwaters to c Creek SP Paige Canyon SP Paige Canyon Headwaters to c Creek SP Paige Canyon SP Paige Canyon Head	Military Reservation at 31°29'39'/ confluence with Dixie Canyon Broken Arrow Ranch Road at 31°25'35'/ Arrow Ranch Road to confluence with the ar confluence with Past Crook Military Reservation at 31°32'14''/ the Lavender Pit at 31°26'11''/ 109°54'02'			A&Ww A&Ww A&Ww			FBC FBC FBC FBC		DWS	FC FC		AgL
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SP Officers Club Fort Huachuca I Pond 110°21'37" SP Paige Canyon Headwaters to c Creek	confluence with Turkey Creek			A&Ww			FBC			FC		AgL
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SP Pinery Creek Headwaters to 6 SP Pinery Creek Below State Hig SP Peet Greek Headwaters to 7 SP Ramsey Canyon Headwaters to 7 Creek 110°17'30" SP Ramsey Canyon Creek Wash SP Rattlesnake SP Redfield Canyon Headwaters to c 32°3340"/110°	confluence with Aravaipa Creek			A&Ww			FBC			FC		AgL
SP Peet Greek Headwaters to F SP Ramsey Canyon Headwaters to F Creek 110°17'30" SP Ramsey Canyon Below Forest Se Creek Wash SP Rattlesnake Headwaters to F Creek Wash SP Rattlesnake Headwaters to C Creek SP Rattlesnake Below confluenc Creek Aravaipa Creek SP Redfield Canyon Headwaters to C 32°33'40"/110°	State Highway 181		A&We				FBC		DWS	FC		AgL
SP Ramsey Canyon Headwaters to F Creek 110°17'30" SP Ramsey Canyon Below Forest Se Creek Wash SP Rattlesnake Headwaters to C Creek SP Rattlesnake SP Rattlesnake Below confluence Creek Aravaipa Creek SP Redfield Canyon Headwaters to c 32°33'40"/110°	ghway 181 to terminus near Willcox Playa			∧&₩w			FBC		DWS	FC		AgL
SP Ramsey Canyon Headwaters to F Creek 110°17'30" SP Ramsey Canyon Below Forest Se Creek Wash SP Rattlesnake Headwaters to f Creek Wash SP Rattlesnake Below confluence Creek Aravaipa Creek SP Rattlesnake Below confluence Creek Aravaipa Creek SP Redfield Canyon Headwaters to constrained 32°33'40"/110°'	confluence with Grant Creek		A&Wo				FBC			FC	Agl	AgL
SP Ramsey Canyon Below Forest Se Creek Wash SP Rattlesnake Headwaters to c Creek Creek Elow confluence SP Rattlesnake Below confluence Creek Aravaipa Creek SP SP Redfield Canyon Headwaters to c 32°33'40"/110° 32°33'40"/110°	Forest Service Road #110 at 31°27'44"/		A&Wc				FBC			FC	Agl	AgL
Creek Wash SP Rattlesnake Headwaters to c Creek SP Rattlesnake Below confluenc Creek Aravaipa Creek SP Redfield Canyon Headwaters to c 32°33'40"/110° 32°33'40"/110°												<u> </u>
Creek SP Rattlesnake Below confluenc Creek Aravaipa Creek SP Redfield Canyon Headwaters to c 32°33'40"/110° 32°33'40"/110°	Service Road #110 to confluence with Carr			A&Ww			FBC			FC	Agl	AgL
SP Rattlesnake Below confluence Creek Aravaipa Creek SP Redfield Canyon Headwaters to c 32°33'40"/110° 32°33'40"/110°	confluence with Brush Canyon		A&Wc				FBC			FC		AgL
SP Redfield Canyon Headwaters to c 32°33'40"/110°	ce with Brush Canyon to confluence with			A&Ww			FBC			FC		AgL
, 32°33'40"/110°1									L			
	confluence with unnamed tributary at 18'42"		A&Wc				FBC			FC		AgL
with the San Pe	ice with unnamed tributary to confluence			A&Ww			FBC			FC		AgL
SP Riggs Lake 32°42'28"/109°t		Igneous	A&We				FBC			FC	Agl	AgL
	0/ 00-						FBC			FC		AgL
	confluence with Turkey Creek Ale		A&Wc		L		FBC	ļ		FC		AgL
SP Rucker Canyon 31°46'46"/109° Lake	confluence with Turkey Creek Ale confluence with Whitewater Draw	Shallow	A&Wc				FBC			FC		AgL
	confluence with Turkey Creek Ale confluence with Whitewater Draw			A&Ww			FBC			FC	Agl	AgL
SP San Pedro River From Buehman	confluence with Turkey Creek Ale confluence with Whitewater Draw			A&Ww			FBC			FC		AgL
SP Snow Flat Lake 32°39'10"/109°(confluence with Turkey Greek Ale confluence with Whitewater Draw '18'30"						FBC			FC	Agl	AgL
	ordfluence with Turkey Creek Ale confluence with Whitewater Draw '18'30" order to Buehman Canyon n canyon to confluence with the Gila River	Igneous	A&Wc				FRC			FG		AgL
100°54'41" SP Soto Canyon Headwaters to compare the second seco	ordfluence with Turkey Creek Ale confluence with Whitewater Draw '18'30" order to Buehman Canyon n canyon to confluence with the Gila River		A&We A&We				FBC	1				

				1	1	1		1	1		<u> </u>		
SP	Swamp Springs	Headwaters to confluence with Redfield Canyon			A&Ww			FBC			FC		AgL
	Canyon												
SP	Sycamore Pond I	Fort Huachuca Military Reservation at 31°35'12"/	Sedimentary		A&Ww			FBC			FC		
		110°26'11"											
SP	Sycamore Pond	Fort Huachuca Military Reservation at 31°34'39"/	Sedimentary		A&Ww			FBC			FC		
01		•	ocumentary		Addim			100			10		
		110°26'10"											
SP	Turkey Creek	Headwaters to confluence with Aravaipa Creek			A&Ww			FBC			FC	Ļ	AgL
SP	Turkey Greek	Headwaters to confluence with Rock Creek		A&Wo				FBC			FC	Agl	AgL
		Below confluence with Rock Creek to terminus near-											
SP	Turkey Greek	Willoox Playa			A&Ww			FBC			FC	Agl	AgL
SP SP	Unnamed Wash	Mt. Lemmon WWTP outfall at 32°26'51"/110°45'08" to			/ 10/11		A&Wedw		PBC			7 tg.	7 ige
01							namoun		1 00				
	(EDW)	0.25 km downstream											
SP	Virgus Canyon	Headwaters to confluence with Aravaipa Creek			A&Ww			FBC			FC		AgL
SP	Walnut Gulch	Headwaters to Tombstone WWTP outfall at 31°43'47"/				A&We			PBC				
		110°04'06"											
SP	Walnut Gulch	Tombstone WWTP outfall to the confluence with					A&Wedw		PBC				
0.0	(EDW)	Tombstone Wash				A 014/-			DDO		-		
SP	Walnut Gulch	Tombstone Wash to confluence with San Pedro River				A&We			PBC				
											= 0		
SP	Ward Canyon-	Headwaters to confluence with Turkey Creek		A&We				FBC			FC		AgL
SP	Whitewater Draw	Headwaters to confluence with unnamed tributary at			1	A&We			PBC		1		AgL
		31°20'36"/109°43'48"											
SP	Whitewater Draw	Below confluence with unnamed tributary to U.S./ Mexico			A&Ww			FBC			FC		AgL
					1	1					-	1	Ŭ
00	Willow Direct	border	Coding at the	+	A 0144			FRO			50	<u> </u>	٨٣١
SP	Willcox Playa	From 32°08'19"/109°50'59" in the Sulphur Springs Valley	Sedimentary		∧&₩w	1		FBC			FC		AgL
00	Marada "	East Unashing Million Data in a 040000071	In a second	+	A 0141			EDC.			50	<u> </u>	<u> </u>
SP	Woodcutters	Fort Huachuca Military Reservation at 31°30'09"/	Igneous		A&Ww			FBC			FC		
	Pond	110°20'12"											
SR	Ackre Lake	33°37'01"/109°20'40"		A&Wc				FBC			FC	Agl	AgL
SR	Apache Lake	33°37'23"/111°12'26"	Deep		A&Ww			FBC		DWS	FC	Agl	AgL
SR	Barnhard Creek	Headwaters to confluence with unnamed tributary at		A&Wc				FBC			FC		AgL
0.11	Barrindia oroon			/ 10/110									7.gz
		34°05'37/111°26'40"		-							= 0		
SR	Barnhardt Creek	Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC		AgL
		with Rye Creek											
SR	Basin Lake	33°55'00"/109°26'09"	Igneous		A&Ww			FBC			FC		AgL
SR	Bear Creek	Headwaters to confluence with the Black River		A&Wc				FBC			FC	Agl	AgL
SR	Bear Wallow	Headwaters to confluence with the Black River		A&Wc				FBC			FC		AgL
	Create (OAM)												Ŭ
	Creek (OAW)										-		
	Bear Wallow												
SR	Creek, North	Headwaters to confluence with Bear Wallow Creek		A&Wc				FBC			FC		AgL
	Fork (OAW)												
	Bear Wallow							FBC			FC		
0.5													
SR	Creek, South	Headwaters to confluence with Bear Wallow Creek		A&Wc									AgL
	Fork (OAW)												
SR	Beaver Creek	Headwaters to confluence with Black River		A&Wc				FBC			FC	Agl	AgL
SR	Big Lake	33°52'36"/109°25'33"	Igneous	A&Wc				FBC		DWS	FC	Agl	AgL
SR	Black River	Headwaters to confluence with Salt River		A&Wc				FBC		DWS	FC	Agl	AgL
SR	Black River, East	From 33°51'19"/109°18'54" to confluence with the Black		A&Wc	1	1	l	FBC		DWS	FC	Agl	AgL
					1	1					Ĺ	.5,	5-
	Fork	River	}	+	 						 	<u> </u>	<u> </u>
	Black River,	Headwaters to confluence with Boneyard Creek											
SR	North Fork of			A&Wc				FBC		DWS	FC	Agl	AgL
	East Fork												
SR	Black River,	Headwaters to confluence with the Black River		A&Wc				FBC		DWS	FC	Agl	AgL
5					1	1				2.10			9-
00	West Fork	Hereberters to Oshelf - D 1 D 1		-		A 0141			P.9.2			<u> </u>	A .:
SR	Bloody Tanks	Headwaters to Schultze Ranch Road			1	A&We			PBC		1	1	AgL
	Wash												
SR	Bloody Tanks	Schultze Ranch Road to confluence with Miami Wash				A&We			PBC		1		
	Wash				1	1					1	1	1 '
SR	Boggy Creek	Headwaters to confluence with Centerfire Creek		A&Wc	1	1		FBC			FC	Agl	AgL
									-				
SR	Boneyard Creek	Headwaters to confluence with Black River, East Fork		A&Wc	1	1		FBC			FC	Agl	AgL
				+	A 0144			ED0			50	<u> </u>	├───┘
00		Headwaters to confluence with LaBarge Creek		+	A&Ww			FBC			FC	 	
SR	Boulder Creek	11 1 1 1 D 11 1		1	A&Ww	1	1	FBC	1	1	FC	1	AgL
SR SR	Boulder Creek Campaign Creek	Headwaters to Roosevelt Lake			/			-					
SR	Campaign Creek												
	1	Headwaters to Roosevelt Lake Headwaters to the White Mountain Apache Reservation		A&Wc				FBC		DWS	FC	Agl	AgL
SR	Campaign Creek			A&Wc						DWS	FC	Agl	AgL
SR SR	Campaign Creek	Headwaters to the White Mountain Apache Reservation	Deep	A&Wc	A&Ww					DWS DWS	FC FC		-
SR	Campaign Creek Canyon Creek	Headwaters to the White Mountain Apache Reservation boundary	Deep	A&Wc A&Wc				FBC				Agl Agl Agl	AgL AgL AgL

					1	1				1	<u></u>
SR	Chambers Draw Creek	Headwaters to confluence with the North Fork of the East Fork of Black River		A&Wc			FBC		FC		AgL
SR	Cherry Creek	Headwaters to confluence with unnamed tributary at 34°05'09"/110°56'07"		A&Wc			FBC		<u>FC</u>	Agl	AgL
SR	Cherry Creek	Below unnamed tributary to confluence with the Salt			A&Ww		FBC		FC	Agl	AgL
SR	Christopher	River Headwaters to confluence with Tonto Creek		<u>A&Wc</u>			FBC		FC	Agl	AgL
SR	Creek Cold Spring	Headwaters to confluence with unnamed tributary at		A&Wc			FBC		FC		AgL
SR	Canyon Creek Cold Spring	33°49'50"/110°52'58" Below confluence with unnamed tributary to confluence			A&Ww		FBC		FC		AgL
	Canyon Creek	with Cherry Creek							_		
SR	Conklin Creek	Headwaters to confluence with the Black River		A&Wc			FBC	+ +	FC	Agl	AgL
SR	Coon Creek	Headwaters to confluence with unnamed tributary at 33°46'41"/110°54'26"		A&Wc			FBC		FC		AgL
SR	Coon Creek	Below confluence with unnamed tributary to confluence with Salt River			A&Ww		FBC		FC		AgL
SR	Corduroy Creek	Headwaters to confluence with Fish Creek		A&Wc			FBC		FC	Agl	AgL
SR	Coyote Creek	Headwaters to confluence with the Black River, East Fork		A&Wc			FBC		FC	Agl	AgL
CD.	Crossest - I	22°54'20"/100°25'10"	Shallow	A 914/-			EDO		50	A -1	A ~!
SR	Crescent Lake	33°54'38"/109°25'18"	Shallow	A&Wc			FBC		FC	Agl	AgL
SR	Deer Creek	Headwaters to confluence with the Black River, East Fork		A&Wc			FBC		FC		AgL
SR	Del Shay Creek	Headwaters to confluence with Gun Creek			A&Ww		FBC		FC		AgL
SR	Devils Chasm Creek	Headwaters to confluence with unnamed tributary at 33°48'46" /110°52'35"		A&Wc			FBC		FC		AgL
SR	Devils Chasm	Below confluence with unnamed tributary to confluence			A&Ww		FBC		FC		AgL
	Creek	with Cherry Creek					_				
SR	Dipping Vat Reservoir	33°55'47"/109°25'31"	Igneous		A&Ww		FBC		FC		AgL
SR	Double Cienega Creek	Headwaters to confluence with Fish Creek		A&Wc			FBC		FC		AgL
SR	Fish Creek	Headwaters to confluence with the Black River		A&Wc			FBC		FC	Agl	AgL
SR	Fish Creek	Headwaters to confluence with the Salt River			A&Ww		FBC		FC		· · · · · · · · · · · · · · · · · · ·
SR	Gold Creek	Headwaters to confluence with unnamed tributary at 33°59'47"/111°25'10"		A&Wc			FBC		FC		AgL
SR	Gold Creek	Below confluence with unnamed tributary to confluence with Tonto Creek			A&Ww		FBC		FC		AgL
SR	Gordon Canyon	Headwaters to confluence with Hog Canyon		A&Wc			FBC		FC		AgL
	Creek						-				Ĵ
SR	Gordon Canyon Creek	Below confluence with Hog Canyon to confluence with Haigler Creek			A&Ww		FBC		FC		AgL
SR	Greenback	Headwaters to confluence with Tonto Creek			A&Ww		FBC		FC		AgL
SR	Creek Haigler Creek	Headwaters to confluence with unnamed tributary at		A&Wc			FBC		FC	Agl	AgL
00		34°12'23"/111°00'15"			A 014		500	+ $+$ $-$	50		A -1
SR	Haigler Creek	Below confluence with unnamed tributary to confluence with Tonto Creek			A&Ww		FBC		FC	Agl	AgL
SR	Hannagan Creek	Headwaters to confluence with Beaver Creek		A&Wc			FBC		FC		AgL
SR	Hay Creek (OAW)	Headwaters to confluence with the Black River, West Fork		A&Wc			FBC		FC		AgL
SR	Home Creek	Headwaters to confluence with the Black River, West		A&Wc			FBC		FC		AgL
SR	Horse Creek	Fork Headwaters to confluence with the Black River, West		A&Wc			FBC		FC		AgL
SR	Horse Camp	Fork Headwaters to confluence with unnamed tributary at		A&Wc			FBC		FC	-	AgL
SR	Creek Horse Camp	33°54'00"/110°50'07" Below confluence with unnamed tributary to confluence			A&Ww		FBC	+ $+$	FC		AgL
	Creek	with Cherry Creek									
	Horton Creek	Headwaters to confluence with Tonto Creek		A&Wc			FBC		FC	Agl	AgL
SR		Headwaters to confluence with Tonto Creek		1	A&Ww		FBC		FC	1	AgL
SR	Houston Creek										1 1 1
	Houston Creek Hunter Creek	Headwaters to confluence with Christopher Creek		A&Wc			FBC		FC		AgL
SR SR	Hunter Creek	Headwaters to confluence with Christopher Creek		A&Wc							AgL
SR				A&Wc A&Wc	A&Ww		FBC FBC FBC		FC FC FC	Agl	AgL AgL

Second Second Second <th></th> <th>1</th> <th></th> <th>1</th> <th>1</th> <th>1</th> <th></th> <th></th> <th>-</th> <th>1</th> <th></th> <th>r</th> <th>1</th> <th>-</th>		1		1	1	1			-	1		r	1	-
Cost. Standard Mark 2000 (2009) AMNC AMNC <th< td=""><td>SR</td><td>Mule Creek</td><td>Headwaters to confluence with Canyon Creek</td><td></td><td>A&Wc</td><td></td><td></td><td></td><td>FBC</td><td></td><td>DWS</td><td>FC</td><td>Agl</td><td>AgL</td></th<>	SR	Mule Creek	Headwaters to confluence with Canyon Creek		A&Wc				FBC		DWS	FC	Agl	AgL
Photome Photome <td>SR</td> <td>Open Draw</td> <td>Headwaters to confluence with the East Fork of Black</td> <td></td> <td>A&Wc</td> <td></td> <td></td> <td></td> <td>FBC</td> <td></td> <td></td> <td>FC</td> <td></td> <td>AgL</td>	SR	Open Draw	Headwaters to confluence with the East Fork of Black		A&Wc				FBC			FC		AgL
Image: Control (Control (Contro)(Control (Control (Control (Contro) (Contro) (Contro) (Contro) (C		Creek	River											
SR P5 Cores Description from Sinch Fraid Statuting EUT wash (COME VITI 19 ST22001119 4207) App. App. App. PDC N PC N PA BR Prof Conc Continuous thui named FDX wash (Edke WVTP) is parameter S12002119 4207 Imp. N	SR	P B Creek			A&Wc				FBC			FC		AgL
Index WIFE at 12/25/07 (1997) In	SR	P B Creek				A&Ww			FBC			FC		AgL
SNA Final Case	SR	Pinal Creek	Headwaters to confluence with unnamed EDW wash				A&We			PBC				AgL
EDW SSEXY110 OF 2F Image: SSEXY110 OF 2			(Globe WWTP) at 33°25'29"/110°48'20"											
Number Proof 2668/01149/0275 Stoce/Prior Deces with Weight 35 Stoce/Prior Deces Proof Deces	SR							A&Wedw		PBC				
Bind India Case Instance Instan		(EDW)												
No. Prior Lower Lowe	CD	Pinal Crook					A8\M/o			DRC				Ad
Image: Consigner 37.2267/1000 Formulations with strammed in the stramme							Admo	A 014/						∧g∟
SNM Pred Cess Pred Cess First and advances ad	SR	Pinal Creek						A&Wedw		PBC				
Image: Image:<	SR	Pinal Creek				Δ.&.\/\/w			FRC					
SR Prof Coole Form unerand tabulary to confluence with Self New ANNW ANNW PRC PRC PC PC PC SR Prof Direk Headwaters to confluence with unared tabulary at any profile of	on	T mar oreek	•			Addin			100					
SR Proc Cresk Housdness to confunce with unreamed tibulary at 33*37711100175 AMVC PIC PIC A A A SR Pinto Creak Exist confunces with unreamed tibulary to Labor Igreess A A FC A A A A FC A A A A A FC FC A A A FC FC FC A A A A FC FC A A A A FC A A A A A A A A A A A A A A A A A<	SR	Pinal Creek				A&Ww			FBC			FC		
SR Pino Cresk Insolutions to confinence with unamed Houtary at M3119271105152 AMVC Pino Creak	SR	Pine Creek	Headwaters to confluence with the Salt River			A&Ww			FBC			FC		
SR Paids Creak Balow confusance with unnamed tributary be Roosevell. ASWW Paids FBC No. FC Ag. Ag. SR Paids Corray Lake 333071110'015' Ignecus AXWc Paids Corray FBC I. FC Ag. Ag. SR Paids Corray Heedwates to confluence with unnamed tributary at Creak 3350721'10'517' AdW AXWc PEC I. FC Ag. Ag. SR Paids Corray 3350721'10'517' AdWc PEG I. FC I. Ag. SR Reveloc Headsochattores with unnamed tributary to confluence AWW PEG I. FC I. Ag. SR Reveloc Headsochattores confluence with Workman Creak AWW PEG I. FC I. Ag. SR Rooseent Lake 33521711110'017 Deep AXWw PEG IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					A&Wc								Agl	AgL
Late Late <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>														
SR Pole Carral Last 33*307/110*0715* Igneous A&W PBC PBC Apl Apl SR Public Gayon Headwaters to confluence with unramed tribulary at 3r50227110*5137 Apl ABW PBC PBC Apl Apl SR Public Gayon Belox confluence with unramed tribulary to confluence with Cherry Carek ABW ABW PBC PBC Apl SR Reveal Oreak Headwaters to confluence with the Black River ABW PBC PBC Apl SR Reveal Oreak Headwaters to confluence with Workman Creak ABW PBC PBC Apl SR Reveal Oreak Headwaters to confluence with Mam Wash PBC PBC PC Apl SR Reportable ABW ABW PBC PBC PD Apl SR Reportable ABW ABW PBC PBC Apl Apl SR Reportable ABW ABW PBC DWS FC Apl Apl SRB	SR	Pinto Creek				A&Ww			FBC			FC	Agl	AgL
Creak S135027110*1517* Image: S13502*110*1517* Image: S13502*110*1517*11* Image: S13502*110*1517* Image: S13502*10*157* Image: S13502*110*157* <t< td=""><td>SR</td><td>Pole Corral Lake</td><td></td><td>Igneous</td><td></td><td>A&Ww</td><td></td><td></td><td>FBC</td><td></td><td></td><td>FC</td><td>Agl</td><td>AgL</td></t<>	SR	Pole Corral Lake		Igneous		A&Ww			FBC			FC	Agl	AgL
Creak Str30227110*5137 Image: Strange				-									Č	•
SR Pueblo Carryon Below confluence with unmaned tibulary to confluence with Oherry Creek A&W FBC FBC FC FC A A SR Relevis Creek Headwaters to confluence with the Black River A&W A FBC I FC I A SR Relevis Creek Headwaters to confluence with the Black River A&W I FBC I FC I A A A I FBC I FC I A A I FBC I FC A	SR	-			A&Wc				FBC			FC		AgL
SR Reservation Headwaters to confluence with the Black River A&Wv ABWv FBC IC FC AdJ SR Reservation Headwaters to confluence with the Black River ABWc IC FBC IC AdJ SR Reprods Creek Headwaters to confluence with Workman Creek ABWc IC FBC IC AdJ SR Rosewell Lake 33*5217/1110017* Deep ABWv IC FBC IC AdJ AdJ SR Ryzenk Headwaters to confluence with Torlo Creek IC AdWv IC FBC IC AdJ AdJ SR Saty are hardwaters to confluence with Torlo Creek IC AdWv IC FBC IC AdJ AdJ <td< td=""><td>SR</td><td></td><td></td><td></td><td></td><td>A&Ww</td><td></td><td></td><td>FBC</td><td></td><td></td><td>FC</td><td></td><td>AgL</td></td<>	SR					A&Ww			FBC			FC		AgL
SR Resonation Hadwaters to confluence with the Black River A&WC Resonation FBC Resonation FC Resonation SR Reported Scuttal 337217711100177 Deep A&WC Resonation FBC Resonation FBC Resonation FBC Resonation FBC Resonation FBC Resonation Resonation FBC Resonation FBC Resonation Resonation Resonation FBC Resonation Resonation Resonation FBC Resonation Resonation Resonation FBC Resonation Resonation Resonation Resonation Resonation FBC Resonation <		Creek	with Cherry Creek											
SR Resonation Hadwaters to confluence with the Black River A&WC Resonation FBC Resonation FC Resonation SR Reported Scuttal 337217711100177 Deep A&WC Resonation FBC Resonation FBC Resonation FBC Resonation FBC Resonation FBC Resonation Resonation FBC Resonation FBC Resonation Resonation Resonation FBC Resonation Resonation Resonation FBC Resonation Resonation Resonation FBC Resonation Resonation Resonation Resonation Resonation FBC Resonation <	SR	1				A&Ww			FBC			FC		
SR Reynolds Creek Headwaters to confluence with Workman Creek Deep A&Wc N FBC N FC Agl. SR RoosenelLake 33*52171111*0017* Deep A&Wv ABWe PBC DW FC Agl. Agl. SR Rye Creek Headwaters to confluence with Marini Wash ABWe ABWe PBC DW FC Agl. Agl. SR Signer Creek Headwaters to confluence with Tonto Creek A&Ww PBC DW FC Agl. Agl. SR Satiome Creek Headwaters to confluence with the SatiRiver A&Ww PBC DW FC Agl. Agl. SR Sati Rover White Mountain Agache Reservation Boundary at 3*45527110*313*10 Roosewell Lake A&Ww ABWw PBC D DW FC Agl. Agl. SR Sati Rover Theodore Roosevelt Dam to 2 km below Granite Reef Dam ABWw ABWw PBC D DW FC Agl. Agl. SR Satie Creek <t< td=""><td></td><td>Reservation</td><td></td><td></td><td>A&Wc</td><td></td><td></td><td></td><td>FBC</td><td></td><td></td><td>FC</td><td></td><td>AgL</td></t<>		Reservation			A&Wc				FBC			FC		AgL
Image: Section of the sectin of the section of the section	SR	1	Headwaters to confluence with Workman Creek		∆&\\/c				FBC			FC		Aal
SR Russell Gulch From Headwaters to confluence with Mami Wash A&We PBC PBC PC Add SR Rye Creek Headwaters to confluence with Tooto Creek Deep A&Ww FBC PC Add Add SR Salumo Lake 33'33'41'111''120'S' Deep A&Ww FBC DWS FC Add Add Add FBC FD FD FD FD Add Add Add FD	UK .	Reynolds Oreek			Advic				1 DO			10		лу∟
Image: Constraint of the set of		Roosevelt Lake	33°52'17"/111°00'17"	Deep		A&Ww			FBC		DWS	FC	Agl	AgL
SR Saguaro Lake 33°33'44'111'30°5'' Deep A&Ww Image: Constraint of the sait River Add SR Salome Creek Headwaters to confluence with the Sait River A&Ww FBC FBC FC Agl Agl SR Salt House Lake 33°5704'109'20'1' Igneous A&Ww FBC FBC FC Agl Agl SR Salt River White Mountain Apache Reservation Boundary at 39°570'11'33' to Roosevelt Lake A&Ww FBC FBC FC Agl Agl. SR Salt River Theodore Roosevelt Lake A&Ww FBC FBC FC Agl. SR Stale Creek Headwaters to confluence with Tonto Creek A&Ww FBC FBC FC Agl. SR Snake Creek Headwaters to confluence with tonto Creek A&Ww FBC FBC FC Agl. SR Snake Creek Headwaters to confluence with tento Creek A&Ww FBC FBC FC Agl. SR Snike Creek Headwaters to confluence with tento Creek A&Wc FBC FC Agl. SR Snike Creek Headwaters to confluence with tento Creek A&Wc FBC FC Agl. SR Tonto Creek<	SR	Russell Gulch	From Headwaters to confluence with Miami Wash				A&We			PBC				
SR Satoma Creet Headwaters to confluence with the Sal River Igneous A&Wv Image: Sal River FBC Image: Sal River FBC Image: Sal River Sal River White Mountain Apache Reservation Boundary at 33*4652/110*1313* to Roosevelt Lake Image: Sal River FBC Image: Sal River <t< td=""><td>SR</td><td>Rye Creek</td><td>Headwaters to confluence with Tonto Creek</td><td></td><td></td><td>A&Ww</td><td></td><td></td><td>FBC</td><td></td><td></td><td>FC</td><td></td><td>AgL</td></t<>	SR	Rye Creek	Headwaters to confluence with Tonto Creek			A&Ww			FBC			FC		AgL
SR Salt House Lake 33*5704*/109*20*11** Igneous A AWw Image: Constraint of the constraint of	SR	Saguaro Lake	33°33'44"/111°30'55"	Deep		A&Ww			FBC		DWS	FC	Agl	AgL
Sector	SR	Salome Creek	Headwaters to confluence with the Salt River			A&Ww			FBC			FC	Agl	AgL
Image: state stat	SR	Salt House Lake	33°57'04"/109°20'11"	Igneous		A&Ww			FBC			FC		AgL
SR Salt River Theodore Roosevelt Dam to 2 km below Granite Reef Dam A&Ww SM FBC M MWS FC Ag. SR State Creek Headwaters to confluence with Tonto Creek A&Ww A&Ww FBC M FC A Ag. SR State Creek Headwaters to confluence with Tonto Creek A&Ww M FBC M FC M Ag. SR Spring Creek Headwaters to confluence with Tonto Creek A A&Ww M FBC M FC M Ag. SR Spring Creek Headwaters to confluence with Tonto Creek A A&Ww M FBC M FC M Ag. SR Thomas Creek Headwaters to confluence with Beaver Creek A&Ww M FBC M FC A Ag. SR Thomas Creek Headwaters to confluence with unamed tributary at 34*18*11*11*1*1*18* A&Ww M M FBC M FC Ag. SR Tonto Creek Headwaters to confluence with unamed tributary at 34*18*11*11*1*1*1*18* A&Ww M M FBC M FC Ag. SR Tonto Creek Headwaters to confluence with Rock Creek A&Ww M M <	SR	Salt River				A&Ww			FBC			FC		AgL
Dam Dag D	SR	Salt River				A&Ww			FBC		DWS	FC	Aal	AaL
SR Snake Creek (DAW) Headwaters to confluence with the Black River A&Wc FBC FC AgL SR Spring Creek Headwaters to confluence with Tonto Creek A&Wc FBC FC AgL SR Stinky Creek Headwaters to confluence with the Black River, West (DAW) A&Wc FBC FC AgL SR Thomas Creek Headwaters to confluence with Beaver Creek A&Wc FBC FC AgL SR Thomas Creek Headwaters to confluence with Beaver Creek A&Wc FBC FC AgL SR Thompson Creek Headwaters to confluence with unnamed tributary at 34*18*11*/111*04*18* A&Wc FBC FC AgL SR Tonto Creek Below confluence with Rock Creek A&Wc FBC FC Agl SR Turkey Creek Headwaters to confluence with Rock Creek A&Wc FBC FC Agl SR Turkey Creek Headwaters to confluence with Rock Creek A&Wc FBC FC Agl SR Turkey Creek Headwaters to confluence with Rock Creek A&Wc FBC FC AgL	011	Call Haron									5.110		, .g.	g=
(AW)Constraint of the constraint of the c	SR	Slate Creek	Headwaters to confluence with Tonto Creek			A&Ww			FBC			FC		AgL
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SR Wildcat Creek Headwaters to confluence with Centerfire Creek A&Wc FBC FC AgL SR Willow Creek Headwaters to confluence with Beaver Creek A&Wc FBC FC AgL SR Willow Creek Headwaters to confluence with Beaver Creek A&Wc FBC FC AgL SR Workman Creek Headwaters to confluence with Reynolds Creek to confluence A&Wc FBC FC AgI SR Workman Creek Below confluence with Reynolds Creek to confluence A&Wc FBC FC AgI UG Apache Creek Headwaters to confluence with the Gila River A&Ww FBC FC AgL UG Ash Creek Headwaters to confluence with unnamed tributary at A&Wc FBC FC AgL	SR	Tonto Creek	,											ļ
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UG Apache Creek Headwaters to confluence with the Gila River A&Ww FBC FC AgL UG Ash Creek Headwaters to confluence with unnamed tributary at A&Wc FBC FC AgL	SR SR SR	Turkey Creek Wildcat Creek Willow Creek	Lake Headwaters to confluence with Rock Creek Headwaters to confluence with Centerfire Creek Headwaters to confluence with Beaver Creek		A&Wc A&Wc				FBC FBC			FC FC	Agl	AgL
UG Ash Creek Headwaters to confluence with unnamed tributary at A&Wc FBC FC AgL	SR SR SR SR	Turkey Creek Wildcat Creek Willow Creek Workman Creek	Lake Headwaters to confluence with Rock Creek Headwaters to confluence with Centerfire Creek Headwaters to confluence with Beaver Creek Headwaters to confluence with Reynolds Creek Below confluence with Reynolds Creek to confluence		A&Wc A&Wc	A&Ww			FBC FBC FBC			FC FC FC	_	AgL AgL
	SR SR SR SR SR	Turkey Creek Wildcat Creek Willow Creek Workman Creek Workman Creek	Lake Headwaters to confluence with Rock Creek Headwaters to confluence with Centerfire Creek Headwaters to confluence with Beaver Creek Headwaters to confluence with Reynolds Creek Below confluence with Reynolds Creek to confluence with Salome Creek		A&Wc A&Wc				FBC FBC FBC FBC			FC FC FC	_	AgL AgL AgL
32°46'15"/109°51'45"	SR SR SR SR SR UG	Turkey Creek Wildcat Creek Willow Creek Workman Creek Workman Creek Apache Creek	Lake Headwaters to confluence with Rock Creek Headwaters to confluence with Centerfire Creek Headwaters to confluence with Beaver Creek Headwaters to confluence with Reynolds Creek Below confluence with Reynolds Creek to confluence with Salome Creek Headwaters to confluence with the Gila River		A&Wc A&Wc A&Wc				FBC FBC FBC FBC FBC			FC FC FC FC FC	_	AgL AgL AgL AgL AgL

UG Bennett Wash Headwaters to the Gila River A&We FBC UG Bitter Creek Headwaters to confluence with the Gila River A&We FBC UG Bitter Creek Headwaters to confluence with Gila River A&We FBC UG Blue River Headwaters to confluence with Strayhorse Creek at 33°29'02"/109°12'14" A&Wc FBC UG Blue River Below confluence with Strayhorse Creek to confluence A&We FBC UG Blue River with San Francisco River A&Ww FBC UG Bonita Creek San Carlos Indian Reservation boundary to confluence (OAW) A&Ww FBC UG Buckelew Creek Headwaters to confluence with Castle Creek A&Wc Image: Creek FBC UG Campbell Blue Creek Headwaters to confluence with Castle Creek A&Wc Image: Creek FBC UG Castle Creek Headwaters to confluence with South Fork Cave Creek A&Wc Image: Creek FBC UG Cave Creek Headwaters to confluence with South Fork Cave Creek to (OAW) A&Wc Image: Creek FBC UG Cave Creek Headwaters to confluence wi		DWS	FC FC FC FC	Agl Agl	AgL
UG Bitter Creek Headwaters to confluence with the Gila River A&Ww FBC UG Blue River Headwaters to confluence with Strayhorse Creek at 33°29'02"/109°12'14" A&Wc FBC FBC UG Blue River with San Francisco River A&Ww FBC FBC UG Blue River with San Francisco River A&Ww FBC FBC UG Bonita Creek San Carlos Indian Reservation boundary to confluence (OAW) A&Ww FBC FBC UG Bonita Creek San Carlos Indian Reservation boundary to confluence (OAW) A&Ww FBC FBC UG Buckelew Creek Headwaters to confluence with Castle Creek A&Wc Image: Creek FBC UG Campbell Blue Headwaters to confluence with Castle Creek A&Wc Image: Creek FBC UG Castle Creek Headwaters to confluence with Campbell Blue Creek A&Wc Image: Creek FBC UG Cave Creek Headwaters to confluence with South Fork Cave Creek A&Wc Image: Creek FBC UG Cave Creek Headwaters to confluence with South Fork Cave Creek (OAW) EBC FBC		DWS	FC FC FC		
UG Blue River Headwaters to confluence with Strayhorse Creek at 33°2902"/109°12'14" A&Wc FBC UG Blue River with San Francisco River A&Ww FBC UG Bonita Creek San Carlos Indian Reservation boundary to confluence (OAW) A&Ww FBC UG Bonita Creek San Carlos Indian Reservation boundary to confluence (OAW) with the Gila River A&Ww FBC UG Buckelew Creek Headwaters to confluence with Castle Creek A&Wc FBC UG Campbell Blue Headwaters to confluence with Castle Creek A&Wc FBC UG Castle Creek Headwaters to confluence with Castle Creek A&Wc FBC UG Castle Creek Headwaters to confluence with Castle Creek A&Wc FBC UG Castle Creek Headwaters to confluence with Campbell Blue Creek A&Wc FBC UG Cave Creek Headwaters to confluence with South Fork Cave Creek A&Wc FBC UG Cave Creek Headwaters to confluence with South Fork Cave Creek (OAW) A&Wc FBC UG C	1	DWS	FC FC FC		
Image: Sign of the second s		DWS	FC		
UG Blue River with San Francisco River A&Ww FBC UG Bonita Creek San Carlos Indian Reservation boundary to confluence A&Ww FBC UG Bonita Creek San Carlos Indian Reservation boundary to confluence A&Ww FBC UG Buckelew Creek Headwaters to confluence with Castle Creek A&Wc Image: Creek FBC UG Campbell Blue Headwaters to confluence with the Blue River A&Wc Image: Creek FBC UG Castle Creek Headwaters to confluence with Campbell Blue Creek A&Wc Image: Creek FBC UG Castle Creek Headwaters to confluence with South Fork Cave Creek A&Wc Image: Creek FBC UG Cave Creek Headwaters to confluence with South Fork Cave Creek to A&Wc Image: Creek FBC UG Cave Creek Below confluence with South Fork Cave Creek to A&Wc Image: Creek FBC UG Cave Creek Below confluence with South Fork Cave Creek to A&Ww FBC FBC		DWS	FC	Agl	٨٩
UG Bonita Creek (OAW) San Carlos Indian Reservation boundary to confluence with the Gila River A&Ww FBC UG Buckelew Creek Headwaters to confluence with Castle Creek A&Wc Image: Creek FBC UG Campbell Blue Creek Headwaters to confluence with the Blue River Creek A&Wc Image: Creek FBC UG Castle Creek Headwaters to confluence with the Blue River Creek A&Wc Image: Creek FBC UG Castle Creek Headwaters to confluence with Campbell Blue Creek A&Wc Image: Creek FBC UG Cave Creek Headwaters to confluence with South Fork Cave Creek to A&Wc Image: Creek FBC UG Cave Creek Below confluence with South Fork Cave Creek to A&Wc Image: Creek FBC UG Cave Creek Below confluence with South Fork Cave Creek to A&Ww FBC FBC		DWS	FC		۸al
(OAW) with the Gila River Image: Constraint of the Gila River Image: Constraint of the Gila River Image: Constraint of the Gila River A&Wc Image: Constraint of the Gila River FBC UG Buckelew Creek Headwaters to confluence with Castle Creek A&Wc Image: Constraint of the Gila River FBC FBC UG Campbell Blue Creek Headwaters to confluence with Blue River A&Wc Image: Constraint of the Gila River FBC UG Castle Creek Headwaters to confluence with Campbell Blue Creek A&Wc Image: Constraint of the Gila River FBC UG Cave Creek Headwaters to confluence with South Fork Cave Creek to A&Wc Image: Constraint of the Gila River FBC UG Cave Creek Below confluence with South Fork Cave Creek to A&Ww FBC		DWS			AgL
UG Buckelew Creek Headwaters to confluence with Castle Creek A&Wc FBC UG Campbell Blue Creek Headwaters to confluence with the Blue River A&Wc FBC UG Castle Creek Headwaters to confluence with Campbell Blue Creek A&Wc FBC UG Castle Creek Headwaters to confluence with Campbell Blue Creek A&Wc FBC UG Cave Creek Headwaters to confluence with South Fork Cave Creek A&Wc FBC UG Cave Creek Below confluence with South Fork Cave Creek to A&Ww FBC UG Cave Creek Below confluence with South Fork Cave Creek to A&Ww FBC			FC		AgL
Image: Campbell Blue Creek Leadwaters to confluence with the Blue River A&Wc FBC UG Castle Creek Headwaters to confluence with Campbell Blue Creek A&Wc Image: Castle Creek UG Cave Creek Headwaters to confluence with South Fork Cave Creek A&Wc Image: Castle Creek UG Cave Creek Headwaters to confluence with South Fork Cave Creek to A&Wc Image: Castle Creek UG Cave Creek Below confluence with South Fork Cave Creek to A&Ww FBC			FC		
Creek Creek UG Castle Creek Headwaters to confluence with Campbell Blue Creek A&Wc Image: Castle Creek UG Cave Creek Headwaters to confluence with South Fork Cave Creek A&Wc Image: Castle Creek UG Cave Creek Headwaters to confluence with South Fork Cave Creek A&Wc Image: Castle Creek UG Cave Creek Below confluence with South Fork Cave Creek to A&Ww FBC					AgL
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UG Cave Creek (OAW) Headwaters to confluence with South Fork Cave Creek Below confluence with South Fork Cave Creek to A&Wc FBC UG Cave Creek Below confluence with South Fork Cave Creek to A&Ww FBC			FC		AgL
(OAW) Image: Comparison of the comparison of			FC		AgL
UG Cave Creek Below confluence with South Fork Cave Creek to A&Ww FBC			FC	Agl	AgL
(OAW) Coronado National Forest boundary			FC	Agl	AgL
UG Cave Creek Below Coronado National Forest boundary to New A&Ww FBC			FC	Agl	AgL
Mexico border					
UG Cave Creek, Headwaters to confluence with Cave Creek A&Wc FBC			FC	Agl	AgL
South Fork					1
UG Chase Creek Headwaters to the Phelps-Dodge Morenci Mine A&Ww FBC			FC		AgL
	PBC		FC		
with San Francisco River					
UG Chitty Canyon Headwaters to confluence with Salt House Creek A&Wc FBC			FC		AgL
Creek					
UG Cima Creek Headwaters to confluence with Cave Creek A&Wc FBC			FC		AgL
UG Cluff Reservoir 32°48'55"/109°50'46" Sedimentary A&Ww FBC	Т		FC	Agl	AgL
#1					
UG Cluff Reservoir 32°48'21"/109°51'46" Sedimentary A&Ww FBC			FC	Agl	AgL
UG Coleman Creek Headwaters to confluence with Campbell Blue Creek A&Wc FBC			FC		AgL
UG Dankworth Lake 32°43'13"/109°42'17" Sedimentary A&Wc FBC FBC			FC		
UG Deadman Headwaters to confluence with unnamed tributary at A&Wc FBC	[DWS	FC		AgL
Canyon Creek 32°43'50'/109°49'03"					
Deadman Below confluence with unnamed tributary to confluence	[DWS			
UG Canyon Creek with Graveyard Wash A&Ww FBC			FC		AgL
UG Eagle Creek Headwaters to confluence with unnamed tributary at A&Wc FBC	[DWS	FC	Agl	AgL
33°22'32"/109°2943"					
UG Eagle Creek Below confluence with unnamed tributary to confluence FBC				Agl	
with the Gila River A&Ww	(DWS	FC		AgL
UG East Eagle Creek Headwaters to confluence with Eagle Creek A&Wc FBC			FC		AgL
UG East Turkey Headwaters to confluence with unnamed tributary at A&Wc FBC			FC		AgL
Creek 31°58'22"/109°12'20"					
Below confluence with unnamed tributary to terminus	Т				
UG East Turkey near San Simon River A&Ww FBC			FC		AgL
UG A&Ww FBC					1
East Whitetail Headwaters to terminus near San Simon River			FC		AgL
UG Emigrant Canyon Headwaters to terminus near San Simon River					
A&Ww FBC			FC		AqL
UG Evans Pond #1 32°49'19"/109°51'12" Sedimentary A&Ww FBC			FC	Agl	AgL
UG Evans Pond #2 32°49'14"/109°51'09" Sedimentary A&Ww FBC FBC			FC	Agl	AgL
UG Fishhook Creek Headwaters to confluence with the Blue River A&Wc FBC FBC			FC		AgL
UG Foote Creek Headwaters to confluence with the Blue River A&Wc FBC			FC		AgL
UG Frye Canyon Headwaters to Frye Mesa Reservoir A&Wc FBC	[DWS	FC		AgL
Creek Frye Mesa reservoir to terminus at Highline Canal. A&Ww	-+				<u> </u>
UG Frye Canyon FBC			FC		AgL
Creek					

			1.		1	1			r	-	= 0		
UG	Frye Mesa	32°45'14"/109°50'02"	Igneous	A&Wc				FBC		DWS	FC		
UG	Reservoir Gibson Creek	Headwaters to confluence with Marijilda Creek		A&Wc				FBC			FC		AaL
UG	Gila River	New Mexico border to the San Carlos Indian Reservation		AQVVC	A&Ww			FBC			FC	Agl	AgL
	ond ratio	boundary										, .g.	7.92
UG	Grant Creek	Headwaters to confluence with the Blue River		A&Wc				FBC			FC		AgL
UG	Judd Lake	33°51'15"/109°09'35"	Sedimentary	A&Wc				FBC			FC		2
UG	K P Creek	Headwaters to confluence with the Blue River		A&Wc				FBC			FC		AgL
	(OAW)												
UG	Lanphier Canyon	Headwaters to confluence with the Blue River		A&Wc				FBC			FC		AgL
	Creek												
UG	Little Blue Creek	Headwaters to confluence with Dutch Blue Creek		A&Wc				FBC			FC		AgL
UG	Little Blue Creek	Below confluence with Dutch Blue Creek to confluence			A&Ww			FBC			FC		AqL
		with Blue Creek											7.92
UG	Little Creek	Headwaters to confluence with the San Francisco River		A&Wc				FBC			FC		
UG	George's	33°51'24"/109°08'30"	Sedimentary	A&Wc				FBC			FC		AgL
	Georges Tank												
UG	Luna Lake	33°49'50"/109°05'06"	Sedimentary	A&Wc				FBC			FC		AgL
110	Mariilda Oraala	Hereitersterstersterster		A 014/-				500			50		A
UG UG	Marijilda Creek Marijilda Creek	Headwaters to confluence with Gibson Creek Below confluence with Gibson Creek to confluence with		A&Wc	A&Ww			FBC FBC			FC FC	Agl	AgL AgL
00	Walijilda Creek				Addim			1 BC			10	Ayı	Ag∟
UG	Markham Creek	Stockton Wash Headwaters to confluence with the Gila River			A&Ww			FBC			FC		AgL
00	Martalan Grook				//////			1.00			10		, igr
UG	Pigeon Creek	Headwaters to confluence with the Blue River			A&Ww			FBC			FC		AgL
UG	Raspberry Creek	Headwaters to confluence with the Blue River		A&Wc				FBC			FC		
											= 0		
UG	Roper Lake	32°45'23"/109°42'14"	Sedimentary		A&Ww			FBC			FC		
UG	San Francisco	Headwaters to the New Mexico border		A&Wc				FBC			FC	Agl	AgL
	River										_	Ŭ	5
UG	San Francisco	New Mexico border to confluence with the Gila River			A&Ww			FBC			FC	Agl	AgL
	River											Ŭ	0
UG	San Simon River	Headwaters to confluence with the Gila River				A&We			PBC				AgL
UG	Sheep Tank	32°46'14"/109°48'09"	Sedimentary		A&Ww			FBC			FC		AgL
UG	Smith Pond	32°49'15"/109°50'36"	Sedimentary		A&Ww			FBC			FC		
00	onnarr ond	32 43 13 7103 30 30	ocumentary		7.0111			1 00			10		
UG	Squaw Creek	Headwaters to confluence with Thomas Creek		A&Wc				FBC			FC		AgL
UG	Stone Creek	Headwaters to confluence with the San Francisco River		A&Wc				FBC			FC	Agl	AgL
UG	Strayhorse Creek	Headwaters to confluence with the Blue River		A&Wc				FBC			FC		
UG	Thomas Creek	Headwaters to confluence with Rousensock Creek		A&Wc				FBC			FC		AgL
UG	Thomas Creek	Below confluence with Rousensock Creek to confluence			A&Ww			FBC			FC		AgL
		with Blue River											
UG	Tinny Pond	33°47'49"/109°04'27"	Sedimentary		A&Ww			FBC			FC		AgL
	T							500			50		
UG	Turkey Creek	Headwaters to confluence with Campbell Blue Creek		A&Wc				FBC			FC		AgL
		Headwaters to the Northern Gila County Sanitary District						FBC			FC		
VR	American Gulch	WWTP outfall at 34°14'02"/111°22'14"			A&Ww							Agl	AgL
	American Gulch	Below Northern Gila County Sanitary District WWTP										J	2
VR	(EDW)	outfall to confluence with the East Verde River					A&Wedw		PBC				
								500			50		
VR VR	Apache Creek Ashbrook Wash	Headwaters to confluence with Walnut Creek Headwaters to the Fort McDowell Indian Reservation			A&Ww	A&We		FBC	PBC		FC		AgL
*11	Manurouk Wash					Adde			100				
VR	Aspen Creek	boundary Headwaters to confluence with Granite Creek			A&Ww			FBC			FC		
VR	Bar Cross Tank	35°00'41"/112°05'39"		1	A&Ww	1	1	FBC	l		FC		AgL
											Ĺ		5-
VR	Barrata Tank	35°02'43"/112°24'21"			A&Ww			FBC			FC		AgL
VR	Bartlett Lake	33°49'52"/111°37'44"	Deep		A&Ww			FBC		DWS	FC	Agl	AgL
VR	Beaver Creek	Headwaters to confluence with the Verde River			A&Ww			FBC			FC		AgL
VR	Big Chino Wash	Headwaters to confluence with Sullivan Lake				A&We			PBC				AgL
VR	Bitter Creek	Headwaters to the Jerome WWTP outfall at 34°45'12"/			1	A&We			PBC				AgL
		112°06'24"		1									5-
	1	112 0024	I	1	I	I	I	I	I	1			

VR	Bitter Creek	Jerome WWTP outfall to the Yavapai Apache Indian			1		A&Wedw	<u> </u>	PBC		1	1	Aal
VK	(EDW)	Reservation boundary					Activedw		PBC				AgL
		Below the Yavapai Apache Indian Reservation boundary											
VR	Bitter Creek	to confluence with the Verde River			A&Ww			FBC			FC	Agl	AgL
VR	Black Canyon	Headwaters to confluence with unnamed tributary at		A&Wc				FBC			FC		AgL
	Creek	34°39'20"/112°05'06"											
VR	Black Canyon	Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC		AgL
VR	Creek Bonita Creek	with the Verde River Headwaters to confluence with Ellison Creek		A&Wc				FBC		DWS	FC		
VR	Bray Creek	Headwaters to confluence with Webber Creek		A&Wc				FBC		0110	FC		AqL
VR	Camp Creek	Headwaters to confluence with the Sycamore Crock			A&Ww			FBC			FC		AgL
		Verde River											
VR	Cereus Wash	Headwaters to the Fort McDowell Indian Reservation boundary				A&We			PBC				
VR	Chase Creek	Headwaters to confluence with the East Verde River		A&Wc				FBC		DWS	FC		
VR	Clover Creek	Headwaters to confluence with Headwaters of West Clear Creek		A&Wc				FBC			FC		AgL
VR	Coffee Creek	Headwaters to confluence with Spring Creek			A&Ww			FBC			FC		AqL
VR	Colony Wash	Headwaters to the Fort McDowell Indian Reservation				A&We			PBC				
		boundary											
VR	Dead Horse Lake	34°45'08"/112°00'42"	Shallow		A&Ww			FBC			FC		1
VR	Deadman Creek	Headwaters to Horseshoe Reservoir			A&Ww			FBC			FC		AgL
VR	Del Monte Gulch	Headwaters to confluence with City of Cottonwood				A&We			PBC				
		WWTP outfall 002 at 34°43'57"/112°02'46"											L
VR	Del Monte Gulch	City of Cottonwood WWTP outfall 002 at 34°43'57"/					A&Wedw		PBC				
	(EDW)	112°02'46" to confluence with Blowout Crock Verde River											
VR	Del Rio Dam Lake	34°48'55"/112°28'03"	Sedimentary		A&Ww			FBC			FC		AgL
VR	Dry Beaver	Headwaters to confluence with Beaver Creek			A&Ww			FBC			FC	Agl	AgL
	Creek	Sedona Ventures WWTP outfall at 34°50'02"/ 111°52'17"											
VR	Dry Creek (EDW)	to 34°48'12"/111°52'48"					A&Wedw		PBC				
VR	Dude Creek	Headwaters to confluence with the East Verde River		A&Wc				FBC			FC	Agl	AgL
VR	East Verde River	Headwaters to confluence with Ellison Creek		A&Wc				FBC		DWS	FC	Agl	AgL
VR	East Verde River	Below confluence with Ellison Creek to confluence with the Verde River			A&Ww			FBC		DWS	FC	Agl	AgL
VR	Ellison Creek	Headwaters to confluence with the East Verde River		A&Wc				FBC			FC		AgL
VR	Fossil Creek (OAW)	Headwaters to confluence with the Verde River			A&Ww			FBC			FC		AgL
VR	Fossil Springs	34°25'24"/111°34'27"			A&Ww			FBC		DWS	FC		
VR	(OAW) Foxboro Lake	34°53'42"/111°39'55"			A&Ww			FBC			FC		AgL
VR	Fry Lake	35°03'45"/111°48'04"			A&Ww			FBC			FC		AgL
VR	Gap Creek	Headwaters to confluence with Government Spring		A&Wc				FBC			FC		AgL
VR	Gap Creek	Below Government Spring to confluence with the Verde			A&Ww			FBC			FC		AgL
	1	River		ļ		ļ							
VR VR	Garrett Tank Goldwater Lake,	35°18'57"/112°42'20" 34°29'56"/112°27'17"	Codiment	A&Wc	A&Ww			FBC		DWS	FC FC		AgL
	Lower		Sedimentary					FBC					
VR	Goldwater Lake, Upper	34°29'52"/112°26'59"	Igneous	A&Wc				FBC		DWS	FC		
VR	Granite Basin Lake	34°37'01"/112°32'58"	Igneous	A&Wc				FBC			FC	Agl	AgL
VR	Granite Creek	Headwaters to Watson Lake		A&Wc	1			FBC			FC	Agl	AgL
VR	Granite Creek	Below Watson Lake to confluence with the Verde River			A&Ww			FBC			FC	Agl	AgL
									-			L	—
VR	Green Valley Lake (EDW)	34°13'54"/111°20'45"	Urban				A&Wedw		PBC		FC		
	Heifer Tank	35°20'27"/112°32'59"			A&Ww			FBC			FC		AgL
VR													AgL
VR VR	Hells Canyon Tank	35°04'59"/112°24'07"	Igneous		A&Ww			FBC			FC		∧y∟

VR	Horse Park Tank	34°58'15"/111°36'32"			A&Ww			FBC			FC		AgL
VR	Horseshoe Reservoir	34°00'25"/111°43'36"	Sedimentary		A&Ww			FBC			FC	Agl	AgL
VR	Houston Creek	Headwaters to confluence with the Verde River			A&Ww			FBC			FC		AgL
VR	Huffer Tank	34°27'46"/111°23'11"			A&Ww			FBC			FC		AqL
/R	J.D. Dam Lake	35°04'02"/112°01'48"	Shallow	A&Wc				FBC			FC	Agl	AgL
VR	Jacks Canyon	Headwaters to Big Park WWTP outfall at 34°45'46"/ 111°45'51"				A&We			PBC				
VR	Jacks Canyon	Below Big Park WWTP outfall to confluence with Dry					A&Wedw		PBC				
	(EDW)	Beaver Creek						500			50		
VR VR	Lime Creek	Headwaters to Horseshoe Reservoir 35°13'32"/112°24'10"		A&Wc	A&Ww			FBC FBC			FC FC	Agl	AgL AgL
	Masonry Number 2 Reservoir			AQVVC								Ĵ	
VR	McLellan Reservoir	35°13'09"/112°17'06"	Igneous		A&Ww			FBC			FC	Agl	AgL
VR	Meath Dam Tank	35°07'52"/112°27'35"			A&Ww			FBC			FC		AgL
VR	Mullican Place Tank	34°44'16"/111°36'10"	Igneous		A&Ww			FBC			FC		AgL
VR	Oak Creek (OAW)	Headwaters to confluence with unnamed tributary at 34°59'15"/111°44'47"		A&Wc				FBC		DWS	FC	Agl	AgL
VR	Oak Creek	Below confluence with unnamed tributary to confluence			A&Ww			FBC		DWS	FC	Agl	AgL
	(OAW)	with Verde River		A 0147		<u> </u>		550			50		Aal
VR	Oak Creek, West Fork (OAW)	Headwaters to confluence with Oak Creek		A&Wc				FBC			FC		AgL
VR	Odell Lake	34°56'5"/111°37'53"	Igneous	A&Wc	1	1		FBC	1		FC		
VR	Peck's Lake	34°46'51"/112°02'01"	Shallow		A&Ww			FBC	1		FC	Agl	AgL
VR	Perkins Tank	35°06'42"/112°04'12"	Shallow	A&Wc				FBC			FC		AgL
VR	Pine Creek	Headwaters to confluence with unnamed tributary at 34°21'51"/111°26'49"		A&Wc				FBC		DWS	FC	Agl	AgL
VR	Pine Creek	Below confluence with unnamed tributary to confluence			A&Ww			FBC		DWS	FC	Agl	AgL
VR	Red Creek	with East Verde River			A&Ww			FBC			FC		٨٣١
VR	Red Creek Reservoir #1	Headwaters to confluence with the Verde River 35°13'5"/111°50'09"	Igneous		A&Ww A&Ww			FBC			FC		AgL
VR	Reservoir #2	35°13'37'11' 30'09 35°13'17"/111°50'39"	Igneous		A&Ww A&Ww			FBC			FC		
VR	Roundtree Canyon Creek	Headwaters to confluence with Tangle Creek	Igneous		A&Ww			FBC			FC		AgL
VR	Scholze Lake	35°11'53"/112°00'37"	Igneous	A&Wc				FBC			FC		AgL
VR	Spring Creek	Headwaters to confluence with unnamed tributary at	ignoodo	A&Wc				FBC			FC	Agl	AgL
VR	Spring Creek	34°57'23"/111°57'21" Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC	Agl	AgL
VR	Steel Dam Lake	with Oak Creek 35°13'36"/112°24'54"	Igneous	A&Wc				FBC			FC		AgL
VR	Stehr Lake	34°22'01"/111°40'02"	Sedimentary		A&Ww			FBC			FC		AgL
VR	Stoneman Lake	34°46'47"/111°31'14"	Shallow	A&Wc				FBC			FC	Agl	AgL
VR	Sullivan Lake	34°51'42"/112°27'51"			A&Ww			FBC			FC	Agl	AgL
VR	Sycamore Creek			A&Wc				FBC			FC	Agl	AgL
VR	Sycamore Creek	Below confluence with unnamed tributary to confluence			A&Ww			FBC			FC	Agl	AgL
VR	Sycamore Creek				A&Ww			FBC			FC	Agl	AgL
VR	Sycamore Creek	111°39'58" Headwaters to confluence with Vorde River at 34°04'42"/			A&Ww			FBC			FC		AgL
		111°42'14" Fort McDowell Indian Reservation boundary at 33°39'19.8"/-111°37'42.7"											
VR	Tangle Creek	Headwaters to confluence with Verde River			A&Ww			FBC			FC	Agl	AgL
VR	Trinity Tank	35°27'44"/112°48'01" Flagstaff Meadows WWTP outfall at '35°13'59"/			A&Ww			FBC			FC		AgL
VR	Unnamed Wash	111°48'35" to Volunteer Wash					A&Wedw		PBC				
		From headwaters at confluence of Chino Wash and			Ι	ſ		T					
VR	Verde River	Granite Creek to Bartlett Lake Dam		I	A&Ww	L		FBC			FC	Agl	AgL
VR	Verde River	Below Bartlett Lake Dam to Salt River			A&Ww	ļ		FBC		DWS	FC	Agl	AgL
VR	Walnut Creek	Headwaters to confluence with Big Chino Wash		<u> </u>	A&Ww	ļ		FBC			FC		AgL
1/0	Watson Lake	34°34'58"/112°25'26"	Igneous	1	A&Ww	1	1	FBC	1		FC	Agl	AgL
VR VR	Webber Creek	Headwaters to confluence with the East Verde River	Ignoodo	A&Wc	71041111			FBC			FC	rig.	AgL

VR	West Clear	Headwaters to confluence with Meadow Canyon		A&Wc			FBC			FC		AgL
	Creek											
VR	West Clear	Below confluence with Meadow Canyon to confluence			A&Ww		FBC			FC	Agl	AgL
	Creek	with the Verde River										
VR	Wet Beaver	Headwaters to unnamed springs at 34°41'17"/		A&Wc			FBC			FC	Agl	AgL
	Creek	111°34'34"										
VR	Wet Beaver	Below unnamed springs to confluence with Dry Beaver			A&Ww		FBC			FC	Agl	AgL
	Creek	Creek										
VR	Whitehorse Lake	35°06'59"/112°00'48"	Igneous	A&Wc			FBC		DWS	FC	Agl	AgL
VR	Williamson	Headwaters to confluence with Mint Wash				A&We		PBC				AgL
	Valley Wash											
VR	Williamson	From confluence of Mint Wash to 10.5 km downstream			A&Ww		FBC			FC		AgL
	Valley Wash											
	Williamson	From 10.5 km downstream of Mint Wash confluence to										
VR	Valley Wash	confluence with Big Chino Wash				A&We		PBC				AgL
VR	Williscraft Tank	35°11'22"/112°35'40"			A&Ww		FBC			FC		AgL
VR	Willow Creek	Above Willow Creek Reservoir		A&Wc			FBC			FC		AgL
VR	Willow Creek	Below Willow Creek Reservoir to confluence with Granite			A&Ww		FBC			FC		AgL
		Creek										
VR	Willow Creek	34°36'17"/112°26'19"	Shallow		A&Ww		 FBC			FC	Agl	AgL
	Reservoir											
VR	Willow Valley	34°41'08"/111°20'02"	Sedimentary		A&Ww		FBC			FC		AgL
	Lake											

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

R18-11-201. Repealed 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. "Assimilative capacity" means the difference between the baseline water quality concentration for a pollutant and the most stringent applicable water quality criterion for that pollutant.
- 7. "Complete Mixing" means the location at which concentration of a pollutant across a transect of a surface water differs by less than five percent.
- 8. "Criteria" means elements of water quality standards expressed as pollutant concentrations, levels, or narrative statements representing a water quality that supports a designated use.
- 9. "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 oneday 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.
- 10. "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 (7Q10), 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.
- 11. "Designated use" means a use specified on the Protected Surface Waters List for a non-WOTUS protected surface water.
- 12. "Domestic water source AZ (DWS AZ)" means the use of a non-WOTUS protected surface water as a source of potable water. Treatment of a surface water may be necessary to yield a finished water suitable for human consumption.

- 13. "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.
- 14. "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.
- 15. "Geometric mean" means the nth root of the product of n items or values. The geometric mean is calculated using the following formula:

$$GM_y = \sqrt[n]{(Y_1)(Y_2)(Y_3)(Y_n)}$$

- 16. "Hardness" means the sum of the calcium and magnesium concentrations, expressed as calcium carbonate (CaCO3) in milligrams per liter.
- 17. "Mixing zone" means an area or volume of a surface water that is contiguous to a point source discharge where dilution of the discharge takes place.
- 18. "Non-WOTUS protected surface water" means a protected surface water designated in Table A of R18-11-216 or added to the PSWL by an emergency action authorized by A.R.S. §49-221(G)(7) that is not a WOTUS.
- 19. "Oil" means petroleum in any form, including crude oil, gasoline, fuel oil, diesel oil, lubricating oil, or sludge.
- 20. "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.
- 21. "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.
- 22. "Practical quantitation limit" means the lowest level of quantitative measurement that can be reliably achieved during a routine laboratory operation.
- 23. "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.
- 24. "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.
- 25. "Urban lake" means a manmade lake within an urban landscape.
- 26. "Wastewater" does not mean:
 - a. Stormwater,
 - b. Discharges authorized under the De Minimus General Permit,
 - c. Other allowable non-stormwater discharges permitted under the Construction General Permit or the Multi-sector General Permit, or
 - d. Stormwater discharges from a municipal storm sewer system (MS4) containing incidental amounts of non-stormwater that the MS4 is not required to prohibit.
- 27. "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.
- 28. "WOTUS" means waters of the state that are also navigable waters as defined by Section 502(7) of the Clean Water Act.
- WOTUS means where or the state that are the surface water that is a WOTUS.
 "WOTUS protected surface water" means a protected surface water that is a WOTUS.
- 30. "Zone of initial dilution" means a small area in the immediate vicinity of an outfall structure in which turbulence is high and causes rapid mixing with the surrounding water.

R18-11-202. Repealed 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. <u>A man-made surface impoundment and any associated ditch and conveyance used in the extraction, beneficiation, or processing of metallic ores including:</u>
 - <u>a. A pit,</u>
 - b. Pregnant leach solution pond
 - c. <u>Raffinate pond</u>,
 - d. <u>Tailing impoundment</u>,
 - e. Decant pond,
 - f. Pond of 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. <u>A surface water located on tribal lands.</u>
- 5. WOTUS Protected Surface Waters

R18-11-203. Repealed 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 R18-11-215. Narrative water quality standards to protect non-WOTUS protected surface waters are prescribed in R18-11-214.
- <u>C.</u> 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;
 - 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. Repealed Interim, Presumptive Designated Uses

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. \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. Repealed 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. Repealed 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:
 - An identification of the pollutant for which the mixing zone is requested;
 - 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:
 - The assimilative capacity of the receiving water;
 - The likelihood of adverse human health effects;
 - <u>2.</u> <u>3.</u> 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;
 - Whether there will be acute toxicity in the mixing zone, and, if so, the size of the zone of initial dilution;
 - The known or predicted safe exposure levels for the pollutant for which the mixing zone is requested;
 - <u>6.</u> <u>7.</u> <u>8.</u> 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.
 - 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.
 - <u>2.</u> 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.
- The Director shall reevaluate a mixing zone upon issuance, reissuance, or modification of the AZPDES permit for the point source or <u>F.</u> a modification of the outfall structure.
- G. Mixing zone requirements.
 - A mixing zone shall be as small as practicable in that it shall not extend beyond the point in the waterbody at which complete 1. mixing occurs under the critical flow conditions of the discharge and of the receiving water.
 - The total horizontal area allocated to all mixing zones on a lake shall not exceed 10 percent of the surface area of the lake.
 - <u>3.</u> Adjacent mixing zones in a lake shall not overlap or be located closer together than the greatest horizontal dimension of the largest mixing zone.
 - The design of any discharge outfall shall maximize initial dilution of the wastewater in a surface water.
 - 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,
 - DDT and its metabolites (DDD and DDE),
 - <u>2.</u> <u>3.</u> Dieldrin,
 - Dioxin,
 - <u>4.</u> <u>5.</u> Endrin,
 - Endrin aldehyde. <u>6.</u>
 - <u>7.</u> Heptachlor,
 - 8. Heptachlor epoxide,
 - <u>9.</u> Lindane,
 - 10. Mercury,
 - 11. Polychlorinated biphenyls (PCBs), and
 - 12. Toxaphene.

R18-11-207. Repealed 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. Repealed-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. Repealed Variances

- A. Upon request, the Director may establish, by rule, a discharger-specific or water segment-specific or water segments-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. <u>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.</u>
 - 5. 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. 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:
 - a. <u>Naturally occurring pollutant concentrations prevent attainment of the use;</u>
 - b. 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;
 - c. 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;
 - d. 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 n a way that would result in the attainment of the use;
 - e. 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;
 - f. 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-specific or segments-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 or pollutants or water quality parameter or parameters and water body or waterbody segment or segments 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 or segments, documentation must also demonstrate whether and to what extent best management practices for nonpoint source controls were implemented to address the pollutant or pollutants or water quality parameter or parameters 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: 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:
 - 1. 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. <u>The interim effluent condition that reflects the greatest pollutant reduction achievable.</u>
- **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.
- **<u>G.</u>** 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, but not more than every five years, 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 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.

R18-11-210. Repealed 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 R18-11-215;
 - 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 ADEQ to derive numeric water quality standards to protect aquatic life in R18-11-215;
 - 4. The natural background concentration of a pollutant is greater than the numeric water quality standard to protect aquatic life prescribed in R18-11-215. "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. Before conducting the study, a person shall submit a study outline to the Director for approval that contains the following elements:
 - 1. Identifies the pollutant;
 - 2. Describes the reach's boundaries;
 - 3. Describes the hydrologic regime of the waterbody:
 - 4. 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;
 - 5. 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;
 - 6. Describes the pollutant's effect on the affected species or appropriate surrogate species and on the other designated uses listed for the reach;
 - 7. Demonstrates that all designated uses are protected; and
 - 8. A person seeking to develop a site-specific standard based on natural background may use statistical or modeling approaches to determine natural background concentration.

R18-11-211. Repealed-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.

R18-11-212. Repealed-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 as non-WOTUS protected surface waters 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.

R18-11-213. Repealed 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;
 - 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. <u>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.</u>
- **<u>B.</u>** 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. <u>A description of the probable impact of the rulemaking on any existing AZPDES permits that are impacted by the rulemaking action:</u>
 - 5. <u>A description of the probable amount of additional AZPDES permits that will be required for known and ongoing point-source</u> <u>discharges after the rulemaking is completed that otherwise would not have been required if the Director did not undertake the</u> <u>rulemaking action; and</u>
 - 6. The administrative and other costs to ADEQ 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.
- <u>E.</u> The Director is not required to prepare the economic, social, and environmental cost and benefits analysis required by this rule when:
 <u>1.</u> 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).

R18-11-214. Repealed-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.

<u>R18-11-215.</u> <u>Numeric Water Quality Standards for Non-WOTUS Protected Surface Waters</u>

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

<u>E. coli</u>	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>	576

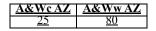
<u>B.</u> <u>pH.</u> The following water quality standards for non-WOTUS protected surface waters pH are expressed in standard units:

<u>рН</u>	<u>DWSAZ</u>	FBC AZ, PBC AZ, A&Ww AZ, A&Wc AZ	<u>Agl AZ</u>	<u>AgLAZ</u>
Maximum	<u>9.0</u>	<u>9.0</u>	<u>9.0</u>	<u>9.0</u>
<u>Minimum</u>	<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:

<u>D.</u> 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.



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&WwAZ	<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.

<u>F.</u> 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)

Parameter	CAS NUM-	DWS AZ (µg/L)	<u>FC AZ</u> (µg/L)	FBC AZ (µq/L)	PBC AZ (µg/L)	A&Wc AZ Acute (µg/L)	<u>A&Wc AZ</u> Chronic (µa/L)	A&Ww AZ Acute (µg/L)	<u>A&Ww AZ</u> Chronic (µa/L)	<u>Agi AZ</u> (µg/L)	<u>ÁgL ÁZ</u> (µg/L)
<u>r arameter</u>	BER	(<u>pg/c/</u>	<u>(µg/ ⊏/</u>	(µg/с/	(µg/L/	<u>Heute (µg/L)</u>		Acute (pg/L)		(<u>µg/L/</u>	
Acenaphthene	83329	420	198	56,000	56,000	850	550	850	550		
Acrolein	107028	3.5	1.9	467	467	<u>3</u>	3	3	<u>3</u>		
Acrylonitrile	107131	0.06	0.2	3	37,333	3,800	<u>250</u>	3 <u>,800</u>	<u>250</u>		
Alachlor	15972608	2		9,333	9,333	2,500	170	2,500	170		
Aldrin	309002	0.002	0.00005	0.08	28	<u>3</u>		3		0.003	See (b)
Alpha Particles (Gross) Radio-		15 pCi/L									
activity		See (h)									
	7664417					See (e) &	See (e) &	See (e) &	See (e) &		
Ammonia	7664417					Tables 11 (procent) & 14	Tables 13 (present) & 17	Tables 12 (procent) & 15	Tables 13 (present) & 16		
						(absent) & 14	(absent)	(absent)	(absent)		
						(absent)	(absent)	(absent)	(absent)		
Anthracene	120127		/4	280,000	280,000						
Antimony	7440360	<u>6 T</u>	<u>640 T</u>	747 <u>T</u>	<u>747 T</u>	<u>88 D</u>	<u>30 D</u>	<u>88 D</u>	<u>30 D</u>		
Arsenic	/440382	<u>10 T</u>	80 T	<u>30 T</u>	<u>280 T</u>	340 D	150 D	340 D	150 D	2,000 T	200 T
Asbestos	1332214	<u>See (a)</u>									
Atrazine	191224 <u>9</u>	<u>3</u>		32,667	32,667						
Barium	/440393	2,000 T		<u>98,000 T</u>	<u>98,000 T</u>						
Benz(a)anthracene	5655 <u>3</u>	0.005	0.02	0.2	0.2						
Benzene	71432	<u>5</u>	140	<u>93</u>	<u>3,733</u>	2,700	180	2 <u>,700</u>	180		
Benzo[b]fluoranthene Benzfluo-	205992	0.005	0.02	1.9	1.9						
ranthene											
Benzidine	92875	0.0002	0.0002	0.01	2,800	1,300	<u>89</u>	1,300	<u>89</u>	0.01	0.01
Benzo(a)pyrene	50 <u>328</u>	<u>0.2</u>	<u>0.02</u>	0. <u>2</u>	<u>0.2</u>						
Benzo(k)fluoranthene	207089	0.005	0.02	<u>1.9</u>	1.9						
Beryllium	/440417	<u>4 T</u>	<u>84 T</u>	1,867 T	1,867 T	<u>65 D</u>	5.3 D	65 D	5.3 D		
Beta particles and photon emit- ters		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		186.667 T	186.667 T					1.000 T	
Bromodichloromethane	/52/4	TTHM See	17	ГТНМ	18,667						
		(g)									
4-Bromophenyl phenyl ether	101553					180	14	180	14		
Bromotorm	15252	ITHM See	133	180	18,667	15,000	10,000	15,000	10,000		
	- 1020	<u>(g)</u>	300				2.0		3		
Bromomethane	74839		<u>299</u>	<u>1,307</u>	1,307	5,500	<u>360</u>	5,500	<u>360</u>		
Butyl benzyl phthalate	<u>85687</u>	1,400	<u>386</u>	186,667	186,667	1,700	130	1,700	<u>130</u>	- 0	
Cadmium	/440439	<u>5 T</u>	84 T	700 T	700 T	See (d) & Table 2	See (d) & Table 3	See (d) & Table 2	See (d) & Table 3	50	50
Carbaryl	53252	l		l		<u>1able 2</u> 2.1	<u>1able 5</u> 2.1	<u>1able 2</u> 2.1	<u>1able 5</u> 2.1		$ \longrightarrow $
Carbofuran	<u>1563662</u>	40		4.667	4,667	<u>2.1</u> 650		<u>2.1</u> 650	<u>2.1</u> 50		┟───┤
	1303002	10		1,007	1,007	050	00	050	00		

Carbon tetrachloride	56235	5	2	11	980	18,000	1,100	18,000	1,100	1	
Carbon tetrachioride Chlordane	5 <u>6235</u> 57749	<u>k</u>	$\frac{2}{0.0008}$	4	<u>980</u> 467	<u>18,000</u> 2.4	1,100 0.004	2.4	0.2	<u> </u>	
Chlorine (total residual)	7782505	<u>4.000</u>	0.0000	± 4000	4000	2. <u>4</u> 19	0.004 11	<u>2.4</u> 19	<u>0.2</u> 11		
Chlorobenzene	108907	100	1,553	18,667	18,667	3,800	260	3,800	260	<u> </u>	
2-Chloroethyl vinyl ether	100758	100	1,555	10,007	10,007	180,000	9,800	180,000	9,800		
Chloroform	57663	ГТНМ See	470	230	9,333	14.000	900	14,000	900		
	57005	(g)	170	250	<u>,,,,,,,</u>	11,000	200	11,000	<u> </u>		
p-Chloro-m-cresol	59507					15	4.7	15	4.7		
Chloromethane	/48//3					270,000	15,000	270,000	15,000		
beta-Chloronaphthalene	91587	560	317	/4,667	/4,667						
2-Chlorophenol	95578	35	30	4,667	4,667	2,200	150	2,200	150		
Chloropyrifos	2921882	21		2,800	2,800	0.08	0.04	0.08	0.04		
Chromium III	16065831		/5,000 T	1,400,000	1,400,000	See (d) &	See (d) &	See (d) &	See (d) &		
				T	Т	Table 4	Table 4	Table 4	Table 4		
Chromium VI	18540299	<u>21 T</u>	<u>150 T</u>	2 <u>,800 T</u>	<u>2,800 T</u>	<u>16 D</u>	<u>11 D</u>	<u>16 D</u>	<u>11 D</u>		
Chromium <u>(Total)</u>	/440473	100 T								1,000	1,000
Chrysene	218019	0.005	0.02	19	19						
Copper	7440508	<u>1,300 T</u>		<u>1,300 T</u>	<u>1,300 T</u>	<u>See (d) &</u>	<u>See (d) &</u>	<u>See (d) &</u>	<u>See (d) &</u>	5,000 T	500 T
	5771715					Table 5	Table 5	Table 5	Table 5		
Cyanide (as free cyanide)	57125	200 T		18,667 <u>1</u>	<u>18,667 T</u>	<u>22 T</u>	<u>5.2 T</u>	<u>41 T</u>	<u>9.7 T</u>		200 T
Dalapon	7 <u>5990</u>	200	8,000	<u>28,000</u>	28,000		0.001	1 1	0.001	0.001	0.001
DDT and its breakdown prod-	5029 <u>3</u>	0.1	0.0002	14	<u>467</u>	<u>1.1</u>	<u>0.001</u>	<u>1.1</u>	0.001	0.001	0.001
ucts Demeton	8065483						0.1		0.1		
Diazinon	333415					0.17	0.17	0.17	0.17		
Dibenz (ah) anthracene	53703	0.005	0.02	1.9	1.9	0.1/	V.17	<u>v.17</u>	<u>v.17</u>	 	
Dibromochloromethane	124481	TTHM See		<u>1.9</u> ГТНМ			+	1	1	<u> </u>	
Dioromocinorometinane	124401	(g)	1.5	1 1 1 1 1 1 1 1	18,667					1	
1,2-Dibromo-3-chloropro- pane	96128	0.2		2,800	2,800	<u> </u>	1	1	1	-	
				-,000	_,						
1,2-Dibromoethane	106934	0.05		8,400	8,400	ł	1	1	1	1	
Dibutyl phthalate	84742	/00	899	93,333	93,333	470	35	470	35	1	
1,2-Dichlorobenzene	95501	600	205	84,000	84,000	790	300	1,200	470	<u> </u>	
1,3-Dichlorobenzene	541731					2,500	970	2,500	970	1	
I,4-Dichlorobenzene	106467	/5	5755	373,333	373,333	560	210	2,000	780		
3,3'-Dichlorobenzidine	91941	0.08	0.03	3	3						
1,2-Dichloroethane	107062	5	37	15	186,667	59.000	41.000	59.000	41.000		
I,I-Dichloroethylene	/5354	7	7,143	46,667	46,667	15,000	950	15,000	950		
1,2-cis-Dichloroethylene	156592	70	/, <u>1 15</u>	70	70	15,000	<u>,,,,</u>	10,000	<u>)))</u>		
1,2-trans-Dichloroethylene	156605	100	10,127	18,667	18,667	68.000	3,900	68,000	3,900		
Dichloromethane	75092	5	593	190	56,000	97.000	5,500	97,000	5,500		
2,4-Dichlorophenol	120832	<u>5</u> 21	5 <u>95</u> 59	2,800	2,800	1,000	88	1,000	88		
			59			1,000	00	1,000	00		
2.4-Dichlorophenoxyacetic acid (2.4-D)	94/3/	<u>70</u>		9 <u>,333</u>	9 <u>,333</u>						
(2,4-D) (,2-Dichloropropane	78875	5	17,518	84,000	84,000	26,000	9,200	26,000	9,200		
1,3-Dichloropropene	542756	0.7	42	420	28,000	3,000	1,100	3,000	1,100		
Dieldrin	54 <u>2750</u> 50571	0.002	0.00005	0.09	<u>28,000</u> 47	0.2	0.06		0.06	0.003	See (b)
		<u>5,600</u>		<u>0.09</u> /46,667	746,667	<u>0.2</u> 26,000	1,600	<u>0.2</u> 26,000		0.003	See <u>(b)</u>
Diethyl phthalate	84662		8,767		560,000	20,000	1,000	20,000	1,600		
D1 (2-ethylhexyl) adıpate	103231	400		560,000		400	37.0	100	37.0		
Di (2-ethylhexyl) phthalate	117817	<u>0</u>	<u>)</u>	<u>100</u>	<u>18,667</u>	4 <u>00</u>	<u>360</u>	<u>400</u>	<u>360</u>		
2,4-Dimethylphenol	105679	140	171	18,667	18,667	1,000	<u>310</u>	1,000	<u>310</u>		
Dimethyl phthalate	<u>131113</u>					17,000	1,000	17,000	1,000		
4,6-Dinitro-o-cresol	5 <u>34521</u>	<u>28</u>	<u>582</u>	<u>3,733</u>	<u>3,733</u>	<u>310</u>	24	310	<u>24</u>		
2,4-Dinitrophenol	51285	14	1,067	1,867	1,867	<u>110</u>	<u>9.2</u>	110	<u>9.2</u>		
2,4-Dinitrotoluene	121142	14	421	1,867	1,867	14,000	860	14,000	<u>860</u>		
2,6-Dinitrotoluene	506202	<u>0.05</u>		2	<u>3,733</u>						
D1-n-octyl phthalate	117840	2,800		373,333	373,333						
Dinoseb	88857	<u>/</u>		<u>933</u>	<u>933</u>						
1,2-Diphenylhydrazine	122667	0.04	0. <u>2</u>	<u>1.8</u>	<u>1.8</u>	<u>130</u>	<u>11</u>	<u>130</u>	<u>11</u>		
Diquat	85007	20		2,053	2,053	Γ	Γ	Γ	Γ	1	
Endosultan sultate	1031078	42	18	5,600	5,600	<u>0.2</u>	0.06	<u>0.2</u>	0.06		
<u>Endosulfan (Total)</u>	115297	<u>42</u>	18	5,600	<u>5,600</u>	<u>0.2</u>	0.06	<u>0.2</u>	0.06		
Endothall	145733	100		18,667	18,667						
Endrin	/2208	2	0.06	280	280	0.09	0.04	0.09	0.04	0.004	0.004
Endrin aldehyde	7421934	<u>2</u>				<u>0.09</u>	0.04	0.09	0.04		
Ethylbenzene		700	2,133	93,333	93, <u>333</u>	23,000	1,400	23,000	1,400	1	1
Fluoranthene	100414				127 1 1 1	******			1 700	1	
Fluorene	100414 206440	280	28	37,333	37,333	2,000	1,600	2,000	1,600		
		280 280		37,333	<u>37,333</u>	2,000	1,600	2,000	1,000		
Fluoride	206440 867 <u>37</u> 7782414	280	28			2,000	1,600	2,000	1,000		
Fluoride Glyphosate	206440 86737	280 280	28	37,333	37,333	2,000	1,600	2 <u>,000</u>	1,000		
	206440 867 <u>37</u> 7782414	280 280 4,000	<u>28</u> 1,067	37, <u>333</u> 140,000	37 <u>,333</u> 140,000	2,000	0.01	<u>2,000</u>	0.01		
Glyphosate	206440 86737 7782414 1071836	280 280 4,000	<u>28</u> 1,067	37, <u>333</u> 140,000	37 <u>,333</u> 140,000	<u>2,000</u> 		<u>2,000</u>			
Glyphosate Guthion	206440 86737 7782414 1071836 86500	280 280 4,000 700	<u>28</u> 1,067 266,667	37,333 140,000 93,333 0.4	<u>37,333</u> 140,000 93,333 467		0.01		0.01		
Glyphosate Guthion Heptachlor	206440 86737 7782414 1071836 86500 76448	280 280 4,000 700 0.4	28 1,067 266,667 0.00008	<u>37,333</u> 140,000 93,333	<u>37,333</u> 140,000 93,333	<u>0.5</u>	0.01 0.004 0.004	0.5	0.01 0.004		
Glyphosate Guthion Heptachlor Heptachlor epoxide Hexachlorobenzene	206440 36737 7782414 1071836 36500 76448 1024573	280 280 4,000 700 0.4 0.2 1	28 1,067 266,667 0.00008 0.00004	37,333 140,000 93,333 0.4 0.2 1	37,333 140,000 93,333 467 12 747	0.5 0.5 6	0.01 0.004 0.004 <u>0.004</u> 3.7	0.5 0.5 6	0.01 0.004 0.004 3.7		
Glyphosate Guthion Heptachlor Heptachlor epoxide Hexachlorobenzene Hexachlorobutadiene	206440 86737 7782414 1071836 86500 76448 1024573 118741 87683	280 280 4,000 700 0.4 0.2 1 0.2 1 0.4	28 1,067 266,667 0.00008 0.00004 0.0003 18	37,333 140,000 93,333 0.4 0.2 1 18	37,333 140,000 93,333 467 12 747 187	0.5 0.5 0.5 6 45	0.01 0.004 0.004 3.7 8.2	0. <u>5</u> 0. <u>5</u> 6 4 <u>5</u>	0.01 0.004 0.004 3.7 8.2		
Glyphosate Guthion Heptachlor Heptachlor epoxide Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclohexane alpha	206440 86737 7782414 1071836 86500 76448 1024573 118741 57683 519846	280 280 4.000 700 0.4 0.2 1 0.2 1 0.4 0.006	28 1,067 266,667 0.00008 0.00004 0.0003 18 0.005	37,333 140,000 93,333 0.4 0.2 1 18 0.22	37,333 140,000 93,333 467 12 147 147 187 1,467	0.5 0.5 6 45 1,600	0.01 0.004 0.004 3.7 8.2 130	0.5 0.5 0.5 6 45 1,600	0.01 0.004 0.004 3.7 8.2 130		
Glyphosate Guthion Heptachlor Heptachlor epoxide Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclohexane alpha Hexachlorocyclohexane beta	206440 36737 7782414 1071836 36500 76448 1024573 118741 37683 319846 319857	280 280 4,000 700 0.4 0.2 1 0.2 1 0.4	28 1,067 266,667 0.00008 0.00004 0.0003 18	37,333 140,000 93,333 0.4 0.2 1 18	37,333 140,000 93,333 467 12 747 187	0.5 0.5 6 45 1,600 1,600	0.01 0.004 0.004 3.7 8.2 130 130	0.5 0.5 6 45 1,600 1,600	0.01 0.004 0.004 3.7 8.2 130 130		
Glyphosate Guthion Heptachlor Heptachlor epoxide Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclohexane alpha Hexachlorocyclohexane beta Hexachlorocyclohexane delta	206440 36737 7782414 1071836 36500 76448 1024573 118741 37683 319846 319857 319868	280 280 4,000 700 0.4 0.2 1 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	28 1,067 266,667 0.00008 0.00004 0.0003 18 0.005 0.02	37,333 140,000 93,333 0.4 0.2 1 18 0.22 0.78	37,333 140,000 93,333 467 12 747 187 7,467 560	0.5 0.5 6 45 1,600	0.01 0.004 0.004 3.7 8.2 130 130 130	0.5 0.5 0.5 6 45 1,600	0.01 0.004 0.004 3.7 8.2 130 130 130		
Glyphosate Guthion Heptachlor Heptachlor epoxide Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclohexane alpha Hexachlorocyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma	206440 36737 7782414 1071836 36500 76448 1024573 118741 37683 319846 319857	280 280 4.000 700 0.4 0.2 1 0.2 1 0.4 0.006	28 1,067 266,667 0.00008 0.00004 0.0003 18 0.005	37,333 140,000 93,333 0.4 0.2 1 18 0.22	37,333 140,000 93,333 467 12 147 147 187 1,467	0.5 0.5 6 45 1,600 1,600	0.01 0.004 0.004 3.7 8.2 130 130	0.5 0.5 6 45 1,600 1,600	0.01 0.004 0.004 3.7 8.2 130 130		
Glyphosate Guthion Heptachlor Hestachlorobenzene Hexachlorobutadiene Hexachlorocyclohexane alpha Hexachlorocyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma (lindane)	206440 36737 7782414 1071836 36500 76448 1024573 118741 379846 319846 319857 319868 3899	280 280 4.000 700 0.4 0.2 1 0.4 0.4 0.4 0.04 0.02 0.2 0.02	28 1,067 266,667 0.00008 0.00004 0.0003 18 0.005 0.02 1.8	37,333 140,000 93,333 0.4 0.2 1 1 8 0.22 0.78 280	37,333 140,000 93,333 467 12 747 187 7,467 560 280	0.5 0.5 6 45 1.600 1.600 1.600 1.600 1	0.01 0.004 0.004 3.7 8.2 130 130 130 130 0.08	0.5 0.5 6 45 1.600 1.600 1.600 1 1.600 1	0.01 0.004 0.004 3.7 8.2 130 130 130 130 0.28		
Glyphosate Guthion Heptachlor Heptachlor epoxide Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclohexane alpha Hexachlorocyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma (indane) Hexachlorocyclopentadiene	206440 36737 7782414 1071836 36500 76448 1024573 118741 37683 319846 319857 319868 58899 74744	280 280 4,000 700 0.4 0.2 1 0.2 1 0.2 0.006 0.002 0.2 0.2 0.2 0.2 50	28 1.067 266.667 0.00008 0.00004 0.0003 18 0.0005 0.02 1.8 580	37,333 140,000 93,333 0.4 0.2 1 1 18 0.22 0.78 0.78 280 9,800	37,333 140,000 93,333 467 12 747 187 7,467 560 280 9,800	0.5 0.5 6 45 1.600 1.600 1.600 1.35	0.01 0.004 0.004 3.7 8.2 130 130 130 0.08 0.3	0.5 0.5 6 45 1.600 1.600 1.600 1.3.5	0.01 0.004 0.004 3.7 8.2 130 130 130 0.28 0.3		
Glyphosate Guthion Heptachlor Heptachlor epoxide Hexachlorobutadiene Hexachlorocyclohexane alpha Hexachlorocyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma (lindane) Hexachlorocyclopentadiene Hexachlorocyclopentadiene Hexachlorocyclopentadiene	206440 36737 7782414 1071836 36500 76448 1024573 118741 37683 319846 319857 319868 58899 77474 57721	280 280 4.000 700 0.4 0.2 1 0.4 0.4 0.4 0.4 0.04 0.02 0.2 0.02	28 1,067 266,667 0.00008 0.00004 0.0003 18 0.005 0.02 1.8	37,333 140,000 93,333 0.4 0.2 1 1 8 0.22 0.78 280	37,333 140,000 93,333 467 12 747 187 7,467 560 280	0.5 0.5 6 45 1.600 1.600 1.600 1.600 1	0.01 0.004 0.004 3.7 8.2 130 130 130 130 0.08 0.3 350	0.5 0.5 6 45 1.600 1.600 1.600 1 1.600 1	0.01 0.004 0.004 3.7 8.2 130 130 130 0.28 0.3 350		
Glyphosate Guthion Heptachlor Heptachlor epoxide Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclohexane alpha Hexachlorocyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma (lindane) Hexachlorocyclopentadiene Hexachlorocyclopentadiene Hexachlorocyclopentadiene Hexachlorocyclonetadiene Hexachlorocyclonetadiene Hexachlorocyclonetadiene	206440 \$6737 7782414 1071836 \$6500 76448 1024573 118741 \$7683 \$19846 \$19857 \$19868 \$19868 \$58899 77474 \$7721 7783064	280 280 4.000 <u>700</u> <u>0.4</u> 0.2 1 0.4 0.006 0.02 0.2 50 <u>2.5</u>	28 1.067 266.667 0.00008 0.00004 0.0003 18 0.002 0.02 1.8 580 3.3	37,333 140,000 93,333 0.4 0.2 1 1 8 0.22 1 1 8 0.22 0.78 280 9,800 100	37,333 140,000 93,333 467 12 747 187 7,467 560 280 9,800 933 53 53 53 53 53 53 53 53 53	0.5 0.5 6 45 1.600 1.600 1.600 1.35	0.01 0.004 0.004 3.7 8.2 130 130 130 0.08 0.3	0.5 0.5 6 45 1.600 1.600 1.600 1.3.5	0.01 0.004 0.004 3.7 8.2 130 130 130 0.28 0.3		
Glyphosate Guthion Heptachlor Heptachlor epoxide Hexachlorobutadiene Hexachlorocyclohexane alpha Hexachlorocyclohexane beta Hexachlorocyclohexane delta Hexachlorocyclohexane delta Hexachlorocyclohexane gamma (lindane) Hexachlorocyclopentadiene Hexachlorocyclopentadiene Hexachlorocyclopentadiene	206440 36737 7782414 1071836 36500 76448 1024573 118741 37683 319846 319857 319868 58899 77474 57721	280 280 4,000 700 0.4 0.2 1 0.2 1 0.2 0.006 0.002 0.2 0.2 0.2 0.2 0.2 0.2	28 1.067 266.667 0.00008 0.00004 0.0003 18 0.0005 0.02 1.8 580	37,333 140,000 93,333 0.4 0.2 1 1 18 0.22 0.78 0.78 280 9,800	37,333 140,000 93,333 467 12 747 187 7,467 560 280 9,800	0.5 0.5 6 45 1.600 1.600 1.600 1.35	0.01 0.004 0.004 3.7 8.2 130 130 130 130 0.08 0.3 350	0.5 0.5 6 45 1.600 1.600 1.600 1.3.5	0.01 0.004 0.004 3.7 8.2 130 130 130 0.28 0.3 350		

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lsophorone	78591	37	961	1,500	186,667	59,000	43,000	59,000	43,000	1	1
Lead	/439921	15 T		15 T	15 T	See (d) &	See (d) &	See (d) &	See (d) &	10,000	100 T
						Table 6	Table 6	Table 6	Table 6	T	
Malathion	121755	140		18,667	18,667		0.1		0.1		
Manganese	7439965	980		130,667	130,667					10,000	
Mercury	/439976	<u>2 T</u>		280 T	280 T	2.4 D	0.01 D	2.4 D	0.01 D		10 T
Methoxychlor	/2435	40		4,667	4,667		0.03		0.03		
Methylmercury	22967926		0.3 mg/								
			kg								
Mirex	2385855	1		187	187		0.001		0.001		
Naphthalene	91203	140	1,524	18,667	18,667	1,100	210	3,200	580		
Nickel	7440020	140 T	4,600 T	28,000 T	28,000 T	See (d) &	See (d) &	See (d) &	See (d) &		
						Table 7	Table 7	Table 7	Table 7		
Nitrate	14797558	10,000		3,733,333	3,733,333						
Nitrite	14797650	1,000		233,333	233,333						
Nitrate + Nitrite		10,000									
Nitrobenzene	98953	3.5	138	467	467	1,300	850	1,300	850		
p-Nitrophenol	100027					4,100	3,000	4,100	3,000		
N-nitrosodimethylamine	52759	0.001	3	0.03	0.03						
N-Nitrosodiphenylamine	86306	7.1	6	290	290	2,900	200	2,900	200		1
N-nitrosodi-n-propylamine	521647	0.005	0.5	0.2	88,667		<u> </u>				+
Nonylphenol	104405			—		28	6.6	<u>28</u>	6.6		+
Oxamyl	23135220	200		23,333	23,333	F	<u> </u>	<u> </u>			+
Parathion	56382		<u> </u>			0.07	0.01	0.07	0.01	<u> </u>	+
Paraquat	1910425	32		4,200	4,200	100	54	100	54		
Pentachlorophenol	<u>1910425</u> 87865	<u>54</u>	1,000		4,200 28,000	<u>100</u> See (e),		<u>100</u> See (e),		L	<u> </u>
rentachiorophenoi	5/803	<u>1</u>	1,000	12	28,000	(i) & Table 10	<u>See (e),</u> (j) & Table 10	<u>see (e),</u> (j) & Table 10	See (e), (j) & Table 10		
						$(j) \approx 1able 10$	<u>(j) & Table 10</u>	$(j) \propto 1able 10$			
Permethrin	52645531	350		46,667	46,667	0.3	0.2	0.3	0.2		
Phenanthrene	85018					30	6.3	30	6.3		
Phenol	108952	2,100	37	280,000	280,000	5,100	/30	7,000	1,000		
Picloram	1918021	500	2,710	65,333	65,333	0,100	150	7,000	1,000		-
Polychlorinatedbiphenyls	1336363	0.5	0.00006	2 19	19	2	0.01	2	0.02	0.001	0.001
(PCBs)	1330303	0.5	0.00000	2 1 9	19	<u> </u>	0.01	<u> </u>	0.02	0.001	0.001
Pyrene	129000	210	800	28,000	28,000						
Radium 226 + Radium 228	12/000	5 pC1/L	000	20,000	20,000						-
Selenium	7782492	50 T	667 T	4,667 T	4,667 T		2 Т		2 Т	20 T	50 T
	/440224	35 T	8,000 T	4,667 T	4,667 T	Soo (d) k	21	Soo (d) &	<u> </u>	20 1	<u>50 1</u>
Silver	/440224	351	<u>0,000 1</u>	4,007 1	4,007 1	See (d) & Table 8		<u>See (d) &</u> Table 8			
Simazine	112349	4		4,667	4,667	14010 0		Table 6			
Strontium	7440246	8 pCi/L		1,007	1,007						
Styrene	100425	100		196.667	196 667	5,600	370	5,600	370		-
Sulfides	100423	100		186,667	186,667	5,000	370	5,000	370		
	174(01)	0.00002	510-0	0.00002	0 0000	0.01	0.005	0.01	0.005		
2,3,7,8-Tetrachlorod- ibenzo-p- dioxin (2,3,7,8-	174601 <u>6</u>	0.00003	5x10-9	0.00003	0.0009	0.01	0.005	<u>0.01</u>	0.005		
TCDD)											
1,1,2,2-Tetrachloroethane	79345	0.2	и	7	56,000	4,700	3,200	4,700	3,200		
Tetrachloroethylene	7 <u>9343</u> 127184	5	1 261	<u>.</u>	9,333	2,600	280	6,500	<u>5,200</u> 680		
Thallium	<u>12/184</u> /440280	2.1	<u>201</u> 7.2 T	9 <u>,333</u> 75 T	9, <u>555</u> 75 T	2, <u>000</u> 700 D	280 150 D	0, <u>300</u> 700 D	080 150 D	L	<u> </u>
											
Toluene	108883	1,000	201.000	<u>280,000</u>	280,000	<u>8,700</u>	180 0.0001	8 <u>,700</u>	<u>180</u>	0.007	0.002
loxaphene	8001352	<u>v</u>	0.0003	1.3	933	0.7	0.0002	0.7	0.0002	0.005	0.005
Tributyltin						0.5	0.07	0. <u>5</u>	0.07		
1,2,4-Trichlorobenzene	120821	70	<u>70</u>	9 <u>,333</u>	9 <u>,333</u>	750	<u>130</u>	1,700	<u>300</u>		
1,1,1-Trichloroethane	/1556	200	428,571	1,866,667	1,866,667	2,600	1,600	2,600	1,600	1,000	T
1,1,2-Trichloroethane	/9005	5	16	25	3,733	18,000	12,000	18,000	12,000		T
Trichloroethylene	79016	5	29	280,000	280	20,000	1,300	20,000	1,300		1
2,4,6-Trichlorophenol	88062	3.2	2	130	130	160	2 <u>5</u>	160	25		1
2,4,5-Trichlorophenoxy propri-	93721	50		/,467	7,467		1				1
onic acid (2,4,5-TP)		1			1						1
Trihalomethanes (T)		<u>80</u>									
Tritium	10028178	20,000 pC1/		1	1		İ	İ		<u> </u>	1
		L —									1
Uranium	/440611	<u>30 D</u>		2,800	2,800						
Vinyl chloride	75014	2	5	2	2,800		1	İ		1	1
Xylenes (T)	1330207	10,000		186,667	186,667	1	ł	1		1	1
			1			1	1	1		1	h
Zinc	/440666	2,100 T	5,106 T	280,000 T	280,000 T	See (d) &	See (d) &	See (d) &	See (d) &	10,000	25,000

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:
 - i. 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.
- <u>f.</u> <u>Table 1 abbreviations.</u>
 - <u>i.</u> $\mu g/L = micrograms per liter,$
 - <u>ii.</u> <u>mg/kg = milligrams per kilogram,</u>
 - <u>iii.</u> pCi/L = picocuries per liter,
 - <u>iv.</u> D = dissolved,
 - <u>v.</u> <u>T = total recoverable</u>,</u>
 - vi. <u>TTHM indicates that the chemical is a trihalomethane.</u>
- 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.
- <u>k.</u> <u>Abbreviations for the mathematical equations are as follows:</u>
- \underline{e} = the base of the natural logarithm and is a mathematical constant equal to 2.71828
- LN = is the natural logarithm
- <u>CMC = Criterion Maximum Concentration (acute)</u>
- CCC= Criterion Continuous Concentration (chronic)

Table 2. Acute Water Quality Standards for Dissolved Cadmium

Aquatic and Wildlife	Coldwater AZ	Aquatic and Wildlife		
Hard. mg/L	<u>Std. μg/L</u>	<u>Hard. mg/L</u>	<u>Std. μg/L</u>	
<u>20</u>	<u>0.40</u>	<u>20</u>	<u>2.1</u>	
<u>100</u>	<u>1.8</u>	<u>100</u>	<u>9.4</u>	
400	<u>6.5</u>	<u>400</u>	<u>34</u>	
e(0.9789*LN(Hardness)-3.866)*(1.	136672-LN(Hard-	e(0.9789*LN(Hardness)-2.208)*(1.		
ness)*0.041838)		ness)*0.041838)		

Table 3. Chronic Water Quality Standards for Dissolved Cadmium

Aquatic and Wildlife Coldwater AZ and Warmwater AZ								
Hard. mg/L	Std. µg/L							
20	0.21							
100	0.72							
400	2.0							
e(0.7977*LN(Hardness)	-3.909)*(1.101672-LN(Hardness)*0.041838)							

 Table 4.
 Water Quality Standards for Dissolved Chromium III

	/ildlife Coldwater AZ 1water AZ	<u>Chronic Aquatic and Wildlife Coldwa-</u> <u>ter AZ and Warmwater AZ</u>					
Hard. mg/L	<u>Std. µg/L</u>	Hard. mg/L	<u>Std. µg/L</u>				
<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>	400	<u>231</u>				
e(0.819*LN(Hardness)	+3.7256)*(0.316)	e(0.819*LN(Hardness)+0.6848)*(0.86)					

Table 5. Water Quality Standards for Dissolved Copper

Acute Aquat		
Coldwater AZ ar	C	
Hard. mg/L	<u>Std. μg/L</u>]
<u>20</u>	<u>2.9</u>	
<u>100</u>	<u>13</u>	
400	<u>50</u>	
e(0.9422*LN(Hardn	ess)-1.702)*(0.96)	e(0.8

	<u>Chronic Aqua</u>	<u>tic and Wildlife</u>
	Coldwater AZ ar	nd Warmwater AZ
	<u>Hard. mg/L</u>	<u>Std. μg/L</u>
	<u>20</u>	<u>2.3</u>
	<u>100</u>	<u>9.0</u>
	<u>400</u>	<u>29</u>
	e(0.8545*LN(Hardn	ess)-1.702)*(0.96)

Table 6. Water Quality Standards for Dissolved Lead

-	<u>c and Wildlife</u> d Warmwater AZ	-	d Wildlife Coldwater rmwater AZ
Hard. mg/L	<u>Std. μg/L</u>	<u>Hard. mg/L</u>	<u>Std. μg/L</u>
<u>20</u>	<u>10.8</u>	<u>20</u>	<u>0.42</u>
<u>100</u>	<u>64.6</u>	<u>100</u>	<u>2.5</u>
<u>400</u>	<u>281</u>	<u>400</u>	<u>10.9</u>
e(1.273*LN(Hardness))*(0.1		e(1.273*LN(Hardness) (1.46203- (LN(Hardness))*(0.14)-4.705) * 5712))

Table 7. Water Quality Standards for Dissolved Nickel

Acute Aquatic and <u>A</u> <u>AZ and War</u>			d Wildlife Coldwater Irmwater AZ
Hard. mg/L	<u>Std. μg/L</u>	<u>Hard. mg/L</u>	<u>Std. µg/L</u>
<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(Hardne	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													
<u>Hard. mg/L</u>	<u>Std. μg/L</u>												
20	0.20												
100	3.2												
400	34.9												
e(1.72*LN(Hardness)-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>	<u>117</u>											
400	<u>379</u>											
<u>e(0.8473*LN(Hardness)+0.884)*(0.978)</u>												

Table 10. Water Quality Standards for Pentachlorophenol

	Wildlife Coldwater rmwater AZ		l Wildlife Coldwater rmwater AZ
<u>pH</u>	<u>μg/L</u>	<u>pH</u>	<u>μg/L</u>
<u>3</u>	<u>0.16</u>	<u>3</u>	<u>0.1</u>
<u>6</u>	<u>3.3</u>	<u>6</u>	<u>2.1</u>
<u>9</u>	<u>67.7</u>	<u>9</u>	<u>42.7</u>
<u>e(1.005*(</u>	pH)-4.83)	<u>e(1.005*(</u>	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.

								Tem	perature	(°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>	27	<u>25</u>	<u>23</u>	<u>21</u>	<u>19</u>	18	<u>16</u>	<u>15</u>	14	<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>	26	<u>24</u>	<u>22</u>	20	18	<u>17</u>	<u>16</u>	<u>14</u>	13	<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>	<u>9.8</u>	<u>9</u>
<u>6.8</u>	<u>28</u>	<u>28</u>	27	<u>25</u>	<u>23</u>	<u>21</u>	<u>20</u>	18	<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>6.9</u>	<u>26</u>	<u>26</u>	25	<u>23</u>	21	<u>20</u>	18	17	<u>15</u>	<u>14</u>	<u>13</u>	<u>12</u>	11	<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>	18	<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>	<u>11</u>	<u>9.8</u>	<u>9</u>	<u>8.3</u>	<u>7.7</u>	<u>7</u>	<u>6.5</u>	<u>6</u>	<u>5.5</u>	<u>5.1</u>	<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>	4.8	<u>4.4</u>	<u>4</u>
<u>7.6</u>																<u>3.5</u>	
<u>7.7</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>	4.8	<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>	<u>4</u>	<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>	<u>2.1</u>
<u>8</u>	<u>5.6</u>	<u>5.6</u>	<u>5.4</u>	<u>5</u>	<u>4.6</u>	4.2	<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>A1</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> <u>2</u> <u>1.8</u> <u>1.7</u> <u>1.5</u> <u>1.4</u>															<u>1.4</u>	
<u>8.2</u>	2 3.8 3.7 3.5 3.1 2.9 2.7 2.4 2.3 2.1 1.9 1.8 1.6 1.5 1.4 1.3 1.2															<u>1.2</u>	
<u>8.3</u>	3 <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>0.90</u>															<u>0.96</u>	
<u>8.4</u>	<u>14</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> <u>0.93</u> <u>0.86</u> <u>0.7</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>	<u>1.1</u>	<u>0.98</u>	<u>0.9</u>	<u>0.83</u>	<u>0.77</u>	<u>0.71</u>	<u>0.65</u>
<u>8.6</u>	<u>1.8</u>	<u>1.8</u>	<u>1.7</u>	<u>1.6</u>	<u>1.5</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	<u>0.96</u>	<u>0.88</u>	0.81	<u>0.75</u>	<u>0.69</u>	<u>0.63</u>	<u>0.59</u>	<u>0.54</u>
<u>8.7</u>	<u>1.5</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	<u>0.94</u>	0.87	<u>0.8</u>	<u>0.74</u>	<u>0.68</u>	<u>0.62</u>	<u>0.57</u>	<u>0.53</u>	<u>0.49</u>	<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>	<u>0.62</u>	<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>	<u>0.85</u>	<u>0.79</u>	<u>0.72</u>	<u>0.67</u>	<u>0.61</u>	<u>0.56</u>	<u>0.52</u>	<u>0.48</u>	<u>0.44</u>	<u>0.4</u>	<u>0.37</u>	<u>0.34</u>	<u>0.32</u>
<u>9</u>	<u>0.88</u>	<u>0.88</u>	<u>0.86</u>	<u>0.79</u>	<u>0.73</u>	<u>0.67</u>	<u>0.62</u>	<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>0.34</u>	<u>0.32</u>	<u>0.29</u>	<u>0.27</u>
			MIN((0.273 (1+10 ^{7.21}	5 34-pR ⁺ 1 -	39.0 + 10 ^{pH-7.}	204), (0.7	249×(1 -	0.0114 + 10 ^{7.204-}	₽ ^{₽₽} + <u>1</u> 1+1	.6181 10 ^{pH-7.204}) x (23.12	X 10 ^{0.036}	ix(20-7))			

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

									1	emper	ature (°	<u>°C)</u>									
<u>pH</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>	44	<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>	44	<u>40</u>	<u>37</u>	<u>34</u>	<u>31</u>	<u>29</u>	27	<u>24</u>	<u>22</u>	<u>21</u>	<u>19</u>	<u>18</u>	<u>16</u>	15	<u>14</u>	<u>13</u>	<u>12</u>	<u>11</u>	<u>9.8</u>	<u>9</u>
<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>
<u>6.9</u>	<u>41</u>	<u>38</u>	<u>35</u>	<u>32</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</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>	<u>11</u>	<u>9.8</u>	<u>9</u>	<u>8.3</u>	7.7	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>	<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>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>8.6</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>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>7.3</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>	<u>9.3</u>	<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>	<u>7.7</u>	<u>7.1</u>	<u>6.6</u>	<u>3</u>	<u>5.6</u>	<u>5.1</u>	<u>4.7</u>	<u>4.3</u>	<u>4</u>	<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>	<u>2.1</u>
<u>8</u>	<u>8.8</u>	<u>8.2</u>	<u>7.6</u>	7	<u>6.4</u>	<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>	<u>2</u>	<u>1.9</u>	<u>1.7</u>
<u>8.1</u>	<u>7.2</u>	<u>6.8</u>	<u>6.3</u>	<u>5.8</u>	<u>5.3</u>	<u>4.9</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>	<u>2</u>	<u>1.8</u>	<u>1.7</u>	<u>1.5</u>	<u>1.4</u>
<u>8.2</u>	<u>6</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>3.1</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>4.9</u>	<u>4.6</u>	<u>4.3</u>	<u>3.9</u>	<u>3.6</u>	<u>3.3</u>	<u>3.1</u>	<u>2.8</u>	<u>2.6</u>	<u>2.4</u>	<u>2.2</u>	2	<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>	1	<u>0.96</u>
<u>8.4</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>	<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>	1	<u>0.93</u>	0.86	<u>0.79</u>
<u>8.5</u>	<u>3.3</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>1.1</u>	0.98	<u>0.9</u>	0.83	<u>0.77</u>	0.71	<u>0.65</u>
<u>8.6</u>	2.8	<u>2.6</u>	<u>2.4</u>	<u>2.2</u>	2	<u>1.9</u>	1.7	<u>1.6</u>	1.5	1.3	1.2	<u>1.1</u>	1	<u>0.96</u>	0.88	0.81	0.75	0.69	0.63	0.58	<u>0.54</u>
<u>8.7</u>	<u>2.3</u>	<u>2.2</u>	2	<u>1.8</u>	1.7	<u>1.6</u>	1.4	1.3	1.2	<u>1.1</u>	1	<u>0.94</u>	0.87	<u>0.8</u>	0.74	0.68	0.62	0.57	0.53	0.49	0.45
<u>8.8</u>	<u>1.9</u>	<u>1.8</u>	<u>1.7</u>	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	1.2	<u>1.1</u>	1	<u>0.93</u>	0.86	<u>0.79</u>	0.73	<u>0.67</u>	0.62	0.57	0.52	0.48	0.44	0.41	<u>0.37</u>
<u>8.9</u>	1.6	1.5	1.4	<u>1.3</u>	1.2	<u>1.1</u>	1	<u>0.93</u>	0.85	0.79	0.72	0.67	0.61	0.56	0.52	0.48	0.44	0.4	0.37	0.34	0.32
<u>9</u>	<u>1.4</u>	<u>1.3</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>	<u>0.62</u>	<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>0.34</u>	<u>0.32</u>	<u>0.29</u>	<u>0.27</u>
	0	.724	19 X	(0.01	14 204-pl	 + -	1	.61	81	<u>_)</u> ;	×M	IN(5	51.93	3,23	.12	× 10	0.036	×(20	-T)	
	_			(1 +	107	204-p1	H .	1 + :	10 ^{ph}	(-7.2	04)				-						

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.

											<u>T</u> (empera	ture (°	<u>C)</u>										
<u>pH</u>	<u>0-7</u>	<u>8</u>	<u>9</u>	<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>	<u>1.2</u>	<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>	2.4	<u>2.2</u>	<u>2.1</u>	2	<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>	1.2	<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>	2.7	<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>6.8</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>	<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>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>	2.1	<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>	4.1	<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>	2.4	<u>2.3</u>	<u>2.2</u>	2	<u>1.9</u>	1.8	<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>	1	<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>	2.7	<u>2.5</u>	<u>2.4</u>	2.2	<u>2.1</u>	<u>2</u>	1.8	<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>	<u>2.6</u>	<u>2.4</u>	<u>2.2</u>	2.1	<u>2</u>	1.8	<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>0.97</u>	<u>0.91</u>	<u>0.85</u>
<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>	1	<u>0.96</u>	<u>0.9</u>	<u>0.85</u>	<u>0.79</u>
<u>7.5</u>	<u>3.2</u>	<u>3</u>	2.8	<u>2.7</u>	<u>2.5</u>	<u>2.3</u>	2.2	<u>2.1</u>	<u>1.9</u>	1.8	<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>0.89</u>	<u>0.83</u>	<u>0.78</u>	<u>0.73</u>
<u>7.6</u>	<u>2.9</u>	2.8	<u>2.6</u>	<u>2.4</u>	<u>2.3</u>	2.1	<u>2</u>	<u>1.9</u>	<u>1.8</u>	1.6	<u>1.5</u>	<u>1.4</u>	<u>1.4</u>	<u>1.3</u>	1.2	<u>1.1</u>	<u>1.1</u>	<u>0.98</u>	<u>0.92</u>	0.86	<u>0.81</u>	<u>0.76</u>	<u>0.71</u>	<u>0.67</u>
<u>7.7</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>	1	<u>0.94</u>	<u>0.88</u>	<u>0.83</u>	<u>0.78</u>	<u>0.73</u>	<u>0.68</u>	<u>0.64</u>	<u>0.6</u>

<u>7.8</u>	2.3	<u>2.2</u>	<u>2.1</u>	<u>1.9</u>	<u>1.8</u>	<u>1.7</u>	1.6	<u>1.5</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	1.2	<u>1.1</u>	<u>1</u>	<u>0.95</u>	<u>0.89</u>	0.84	<u>0.79</u>	<u>0.74</u>	<u>0.69</u>	<u>0.65</u>	<u>0.61</u>	<u>0.57</u>	0.53
<u>7.9</u>	2.1	<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>	0.95	<u>0.89</u>	0.84	<u>0.79</u>	0.74	<u>0.69</u>	<u>0.65</u>	0.61	<u>0.57</u>	<u>0.53</u>	<u>0.5</u>	0.47
<u>8</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>1</u>	<u>0.94</u>	<u>0.88</u>	<u>0.83</u>	<u>0.78</u>	<u>0.73</u>	<u>0.68</u>	<u>0.64</u>	<u>0.6</u>	<u>0.56</u>	<u>0.53</u>	<u>0.5</u>	<u>0.44</u>	<u>0.44</u>	<u>0.41</u>
<u>8.1</u>	<u>1.5</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>0.92</u>	<u>0.87</u>	<u>0.81</u>	<u>0.76</u>	<u>0.71</u>	<u>0.67</u>	<u>0.63</u>	<u>0.59</u>	<u>0.55</u>	<u>0.52</u>	<u>0.49</u>	<u>0.46</u>	<u>0.43</u>	<u>0.4</u>	<u>0.38</u>	<u>0.35</u>
<u>8.2</u>	<u>1.3</u>	<u>1.2</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	<u>0.96</u>	<u>0.9</u>	<u>0.84</u>	<u>0.79</u>	<u>0.74</u>	<u>0.7</u>	<u>0.65</u>	0.61	<u>0.57</u>	0.54	<u>0.5</u>	<u>0.47</u>	<u>0.44</u>	<u>0.42</u>	<u>0.39</u>	<u>0.37</u>	<u>0.34</u>	<u>0.32</u>	<u>0.3</u>
<u>8.3</u>	<u>1.1</u>	<u>1.1</u>	<u>0.99</u>	<u>0.93</u>	<u>0.87</u>	<u>0.82</u>	<u>0.76</u>	<u>0.72</u>	<u>0.67</u>	<u>0.63</u>	<u>0.59</u>	<u>0.55</u>	<u>0.52</u>	<u>0.49</u>	<u>0.46</u>	<u>0.43</u>	<u>0.4</u>	<u>0.38</u>	<u>0.35</u>	<u>0.33</u>	<u>0.31</u>	<u>0.29</u>	<u>0.27</u>	<u>0.26</u>
<u>8.4</u>	<u>0.95</u>	<u>0.89</u>	<u>0.84</u>	<u>0.79</u>	<u>0.74</u>	<u>0.69</u>	0.65	<u>0.61</u>	<u>0.57</u>	<u>0.53</u>	<u>0.5</u>	<u>0.47</u>	<u>0.44</u>	<u>0.41</u>	<u>0.39</u>	<u>0.36</u>	<u>0.34</u>	<u>0.32</u>	<u>0.3</u>	<u>0.28</u>	<u>0.26</u>	<u>0.25</u>	<u>0.23</u>	<u>0.22</u>
<u>8.5</u>	<u>0.8</u>	<u>0.75</u>	<u>0.71</u>	<u>0.67</u>	<u>0.62</u>	<u>0.58</u>	<u>0.55</u>	<u>0.51</u>	<u>0.48</u>	<u>0.45</u>	<u>0.42</u>	<u>0.4</u>	0.37	<u>0.35</u>	<u>0.33</u>	<u>0.31</u>	0.29	0.27	<u>0.25</u>	0.24	<u>0.22</u>	<u>0.21</u>	<u>0.2</u>	<u>0.18</u>
<u>8.6</u>																<u>0.15</u>								
<u>8.7</u>																<u>0.13</u>								
<u>8.8</u>	<u>0.49</u>	<u>0.46</u>	<u>0.43</u>	<u>0.4</u>	<u>0.38</u>	<u>0.35</u>	<u>0.33</u>	<u>0.31</u>	<u>0.29</u>	0.27	<u>0.26</u>	<u>0.24</u>	0.23	<u>0.21</u>	0.2	<u>0.19</u>	<u>0.17</u>	<u>0.16</u>	<u>0.15</u>	<u>0.14</u>	<u>0.13</u>	<u>0.13</u>	0.12	<u>0.11</u>
<u>8.9</u>	<u>0.42</u>	<u>0.39</u>	<u>0.37</u>	<u>0.34</u>	<u>0.32</u>	<u>0.3</u>	<u>0.28</u>	<u>0.27</u>	<u>0.25</u>	<u>0.23</u>	<u>0.22</u>	<u>0.21</u>	<u>0.19</u>	<u>0.18</u>	<u>0.17</u>	<u>0.16</u>	<u>0.15</u>	<u>0.14</u>	<u>0.13</u>	<u>0.12</u>	<u>0.12</u>	<u>0.11</u>	<u>0.1</u>	<u>0.09</u>
<u>9</u>	<u>0.36</u>	<u>0.34</u>	<u>0.32</u>	<u>0.3</u>	<u>0.28</u>	<u>0.26</u>	0.24	<u>0.23</u>	<u>0.21</u>	<u>0.2</u>	<u>0.19</u>	<u>0.18</u>	0.17	<u>0.16</u>	<u>0.15</u>	<u>0.14</u>	<u>0.13</u>	<u>0.12</u>	<u>0.11</u>	<u>0.11</u>	<u>0.1</u>	<u>0.09</u>	<u>0.09</u>	<u>0.08</u>
							0	.8876	$\times \left(\frac{1}{1}\right)$	0.02 + 10 ^{7.}	78 688 - pH	$\frac{1}{1} + \frac{1}{1}$	1.199 - 10 ^{pH}	94 - 7.688)×(2	.126 ×	10 ^{0.02}	8×(20-	-MAX (7	(,7)))				

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.

								Te	mperature	(°C)							
pH	<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>	22	<u>23</u>	<u>24</u>	25	26	27	<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>	28	28	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	<u>28</u>	28	28	28	<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>
7	<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>	<u>24</u>	24	<u>23</u>	<u>21</u>	<u>20</u>
<u>7.1</u>	22	<u>22</u>	<u>22</u>	<u>22</u>	22	22	22	22	22	22	22	22	22	22	21	<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>	14	<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>	<u>11</u>
<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>	8.6	<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>	<u>3.2</u>	<u>3.2</u>	<u>3.2</u>	<u>3.2</u>	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</u>	<u>2.8</u>	<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>	1.8	<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>
<u>8.8</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>1.2</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>8.9</u>	<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>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>0.92</u>	<u>0.85</u>
<u>9</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.88</u>	<u>0.85</u>	<u>0.78</u>	<u>0.72</u>
MIN	$V(\left(\frac{0}{1+1}\right))$).275 0 ^{7.204}	- <i>pH</i> +	3 1 + 10	39.0 0 ^{pH-7.20}	a), (0.72	249×(-	0.011 + 10 ^{7.2}	.4 04-рR +	1.61 1 + 10 ^{p.}	81 H-7.204)	× (62.1	5×10	0.036×(2	0 <i>-T</i>))		

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

								T	emperati	ıre (°C)							
<u>pH</u>	<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>	<u>51</u>	<u>51</u>	<u>51</u>	<u>51</u>	<u>51</u>	<u>51</u>	<u>51</u>	<u>51</u>	<u>48</u>	<u>44</u>	<u>40</u>	<u>37</u>	<u>34</u>	<u>31</u>	<u>29</u>	<u>27</u>
<u>6.6</u>	<u>49</u>	<u>49</u>	<u>49</u>	<u>49</u>	49	<u>49</u>	<u>49</u>	<u>49</u>	49	<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>	37	<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>	44	44	44	44	<u>44</u>	44	44	<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>
<u>7</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>	38	<u>35</u>	<u>32</u>	<u>30</u>	27	<u>25</u>	<u>23</u>	<u>21</u>	<u>20</u>
<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>	24	<u>22</u>	<u>21</u>	<u>19</u>	<u>17</u>	<u>16</u>
<u>7.3</u>	7.3 27 27 27 27 27 27 27 26 23 22 20 18 17 16 14 7.4 24 24 24 24 24 24 24 24 24 24 24 24 24 19 17 16 14 13															<u>14</u>	
<u>7.4</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>	21	<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>	<u>9.3</u>
<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 8.8 8.8 8.8 8.8 8.2 7.5 6.9 6.4 5.9 5.4 5 4.6															<u>4.6</u>	
<u>8.1</u>	8.1 7.3 7.3 7.3 7.3 7.3 7.3 7.3 6.8 6.2 5.7 5.3 4.9 4.5 4.1 3.8															<u>3.8</u>	
<u>8.2</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>	<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>	<u>4</u>	<u>3.7</u>	<u>3.4</u>	<u>3.1</u>
<u>8.3</u>	<u>4.9</u>	<u>4.9</u>	<u>4.9</u>	<u>4.9</u>	<u>4.9</u>	<u>4.9</u>	<u>4.9</u>	<u>4.9</u>	<u>4.9</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>8.4</u>	<u>4.1</u>	<u>4.1</u>	<u>4.1</u>	<u>4.1</u>	<u>4.1</u>	<u>4.1</u>	<u>4.1</u>	<u>4.1</u>	<u>4.1</u>	<u>3.8</u>	<u>3.4</u>	<u>3.2</u>	<u>3</u>	<u>2.7</u>	<u>2.5</u>	<u>2.3</u>	<u>2.1</u>
<u>8.5</u>	<u>3.3</u>	<u>3.3</u>	<u>3.3</u>	<u>3.3</u>	<u>3.3</u>	<u>3.3</u>	<u>3.3</u>	<u>3.3</u>	<u>3.3</u>	<u>3.1</u>	<u>2.9</u>	<u>2.6</u>	<u>2.4</u>	<u>2.2</u>	<u>2.1</u>	<u>1.9</u>	<u>1.8</u>
<u>8.6</u>	<u>2.8</u>	<u>2.8</u>	<u>2.8</u>	<u>2.8</u>	<u>2.8</u>	<u>2.8</u>	<u>2.8</u>	<u>2.8</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>8.7</u>	<u>2.3</u>	<u>2.3</u>	<u>2.3</u>	<u>2.3</u>	<u>2.3</u>	<u>2.3</u>	<u>2.3</u>	<u>2.3</u>	<u>2.3</u>	<u>2.2</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>8.8</u>	<u>1.9</u>	<u>1.9</u>	<u>1.9</u>	<u>1.9</u>	<u>1.9</u>	<u>1.9</u>	<u>1.9</u>	<u>1.9</u>	<u>1.9</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>
<u>8.9</u>	<u>1.6</u>	<u>1.6</u>	<u>1.6</u>	<u>1.6</u>	<u>1.6</u>	<u>1.6</u>	<u>1.6</u>	<u>1.6</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</u>	<u>0.92</u>	<u>0.85</u>
<u>9</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	<u>0.93</u>	<u>0.85</u>	<u>0.78</u>	<u>0.72</u>
		0.724	49 × ($\frac{0}{1+1}$	0114 0 ^{7.204-}	рН + -	1.6 1 + 10	5181) ^{pH-7.2})×	MIN ((51.93	, (62.1	5×1	0 ^{0.036×(}	^{20-T)}))		

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.

											Tem	pera	ture ((°C)										
<u>pH</u>	<u>0-7</u>	<u>8</u>	<u>9</u>	<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>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>	<u>9.7</u>	<u>9.1</u>	<u>8.5</u>	<u>8</u>	<u>7.5</u>	7	<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>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>	<u>9</u>	<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>5.4</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>	<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>6.8</u>	<u>17</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>5.8</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>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>	<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>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>	4	<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>	<u>9</u>	<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>	<u>11</u>	<u>10</u>	<u>9.6</u>	<u>9</u>	<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>5.4</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>7.4</u>	<u>13</u>	<u>12</u>	<u>12</u>	<u>11</u>	<u>10</u>	<u>9.5</u>	<u>9</u>	<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>	<u>3.1</u>	<u>2.9</u>	<u>2.8</u>

<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>	<u>2</u>	<u>1.9</u>	<u>1.8</u>
<u>8</u>	<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>	<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>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>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>8.2</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>	<u>2.8</u>	<u>2.6</u>	<u>2.5</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>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>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>	<u>0.99</u>	<u>0.92</u>	<u>0.87</u>	<u>0.81</u>
<u>8.5</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>0.89</u>	<u>0.83</u>	<u>0.78</u>	<u>0.73</u>	<u>0.69</u>
<u>8.6</u>	<u>2.6</u>	<u>2.4</u>	<u>2.2</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>1.4</u>	<u>1.3</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	<u>0.97</u>	<u>0.91</u>	<u>0.85</u>	<u>0.8</u>	<u>0.75</u>	<u>0.7</u>	<u>0.66</u>	<u>0.62</u>	<u>0.58</u>
<u>8.7</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>1</u>	<u>0.93</u>	<u>0.88</u>	<u>0.82</u>	<u>0.77</u>	<u>0.72</u>	<u>0.68</u>	<u>0.63</u>	<u>0.6</u>	<u>0.56</u>	<u>0.52</u>	<u>0.49</u>
<u>8.8</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>0.85</u>	<u>0.79</u>	<u>0.74</u>	<u>0.7</u>	<u>0.65</u>	<u>0.61</u>	<u>0.58</u>	<u>0.54</u>	<u>0.51</u>	<u>0.47</u>	<u>0.44</u>	<u>0.42</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>	<u>1</u>	<u>0.94</u>	<u>0.88</u>	<u>0.82</u>	<u>0.77</u>	<u>0.72</u>	<u>0.68</u>	<u>0.64</u>	<u>0.6</u>	<u>0.56</u>	<u>0.52</u>	<u>0.49</u>	<u>0.46</u>	<u>0.43</u>	<u>0.4</u>	<u>0.38</u>	<u>0.36</u>
<u>9</u>	<u>1.4</u>	<u>1.3</u>	<u>1.2</u>	<u>1.1</u>	<u>1</u>	<u>0.98</u>	<u>0.92</u>	<u>0.86</u>	<u>0.81</u>	<u>0.76</u>	<u>0.71</u>	<u>0.66</u>	<u>0.62</u>	<u>0.58</u>	<u>0.55</u>	<u>0.51</u>	<u>0.48</u>	<u>0.45</u>	<u>0.42</u>	<u>0.4</u>	<u>0.37</u>	<u>0.35</u>	<u>0.33</u>	<u>0.31</u>
							0.940	$5 \times \left(\frac{1}{1}\right)$	0.0 + 10	278 7.688-p.	# + <u>1</u>	1.19 + 10 ^p	94 H-7.688) × (7	.547 ×	10 ^{0.02}	8×(20-	•MAX (T	(,7)))					

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.

								Temp	erature (° <u>C)</u>							
pH	<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>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>	7	<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>6.6</u>	<u>7.2</u>	<u>7.2</u>	<u>7.2</u>	<u>7.2</u>	<u>7.2</u>	<u>7.2</u>	<u>7.2</u>	<u>7.2</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>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>	<u>6.7</u>	<u>6.7</u>	<u>6.7</u>	<u>6.7</u>	<u>6.7</u>	<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>
7	<u>6.5</u>	<u>6.5</u>	<u>6.5</u>	<u>6.5</u>	<u>6.5</u>	<u>6.5</u>	<u>6.5</u>	<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>
<u>7.2</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>5.9</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>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>	<u>3.6</u>	<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>
<u>7.5</u>	<u>4.8</u>	<u>4.8</u>	<u>4.8</u>	<u>4.8</u>	<u>4.8</u>	<u>4.8</u>	<u>4.8</u>	<u>4.8</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>7.6</u>	<u>4.4</u>	4.4	<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>	<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>3.5</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>	<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>	<u>2.3</u>	<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>	<u>2.1</u>	<u>2</u>	<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>	<u>2.3</u>	<u>2.3</u>	<u>2.3</u>	<u>2.3</u>	<u>2.3</u>	<u>2.3</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>8.2</u>	<u>2</u>	<u>2</u>	2	2	2	2	2	2	<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>	<u>1.7</u>	<u>1.7</u>	<u>1.7</u>	<u>1.7</u>	<u>1.7</u>	<u>1.7</u>	<u>1.7</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>0.96</u>
<u>8.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</u>	<u>1.4</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>0.93</u>	<u>0.87</u>	<u>0.81</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>0.95</u>	<u>0.89</u>	<u>0.83</u>	<u>0.78</u>	<u>0.73</u>	<u>0.69</u>
<u>8.6</u>	<u>1</u>	1	1	1	1	1	1	1	<u>0.97</u>	<u>0.91</u>	<u>0.85</u>	<u>0.8</u>	<u>0.75</u>	<u>0.7</u>	<u>0.66</u>	<u>0.62</u>	<u>0.58</u>
<u>8.7</u>	<u>0.86</u>	0.82	<u>0.77</u>	<u>0.72</u>	<u>0.68</u>	<u>0.64</u>	<u>0.6</u>	<u>0.56</u>	<u>0.52</u>	<u>0.49</u>							
<u>8.8</u>	<u>0.73</u>	<u>0.7</u>	<u>0.65</u>	<u>0.61</u>	<u>0.58</u>	<u>0.54</u>	<u>0.51</u>	<u>0.47</u>	<u>0.44</u>	<u>0.42</u>							
<u>8.9</u>	<u>0.62</u>	<u>0.6</u>	<u>0.56</u>	<u>0.52</u>	<u>0.49</u>	<u>0.46</u>	<u>0.43</u>	<u>0.41</u>	<u>0.38</u>	<u>0.36</u>							
<u>9</u>	<u>0.54</u>	<u>0.54</u>	<u>0.54</u>	<u>0.54</u>	<u>0.54</u>	<u>0.54</u>	<u>0.54</u>	<u>0.54</u>	<u>0.51</u>	<u>0.48</u>	<u>0.45</u>	<u>0.42</u>	<u>0.4</u>	<u>0.37</u>	<u>0.35</u>	<u>0.33</u>	<u>0.31</u>

0.0405	0.0278	1.1994	(20-7)
0.9405 × ($1+10^{7.688-pH}$	$1+10^{pH-7.688}$	$\times MIN\left(6.920, (7.547 \times 10^{0.028 \times (20-T)})\right)$

R18-11-216. The Protected Surface Waters List

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

		Segment Description and Location (Lati-	Aquatic and Wildlife		Human Health				Agricultural		
Watershed	Surface Waters	tude and Longitudes are in NAD 83)	A&Wc AZ	<u>A&Ww AZ</u>	<u>FBC AZ</u>	PBC AZ	<u>DWS AZ</u>	FC AZ	<u>Agl AZ</u>	AgL AZ	
<u>CG</u>	Cottonwood Creek	Headwaters to confluence with unnamed tributary at 35°20'46"/113°35'31"	A&Wc AZ		FBC AZ			FC AZ		<u>AgL AZ</u>	
<u>CG</u>	Cottonwood Creek	Below confluence with unnamed tributary to conflu- ence with Truxton Wash		<u>A&Ww AZ</u>	FBC AZ			FC AZ		<u>AgL AZ</u>	
<u>CG</u>	Wright Canyon Creek	Headwaters to confluence with unnamed tributary at 35°20'48"/113°30'40"	<u>A&Wc AZ</u>		FBC AZ			FC AZ		<u>AgL AZ</u>	
<u>cg</u>	Wright Canyon Creek	Below confluence with unnamed tributary to conflu- ence with Truxton Wash		<u>A&Ww AZ</u>	FBC AZ			<u>FC AZ</u>		<u>AgL AZ</u>	
LC	Boot Lake	34°58'54"/111°20'11"	A&Wc AZ		FBC AZ			FC AZ		<u>AgL AZ</u>	
LC	Little Ortega Lake	34°22'47"/109°40'06"	A&Wc AZ		FBC AZ			FC AZ			
LC	Mormon Lake	34°56'38"/111°27'25"	A&Wc AZ		FBC AZ		DWS AZ	FC AZ	<u>Agl AZ</u>	AgL AZ	
LC	Potato Lake	35°03'15"/111°24'13"	A&Wc AZ		FBC AZ			FC 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°03'38"/109°26'20		A&Ww AZ	FBC AZ			FC AZ	Agl AZ	AgL AZ	
MG	Bonsall Park Lake	59th Avenue & Bethany Home Road at 33°31'24"/ 112°11'08'		<u>A&Ww AZ</u>		PBC AZ		FC AZ			
MG	Canal Park Lake	College Avenue & Curry Road, Tempe at 33°26'54"/ 111°56'19"		A&Ww AZ		PBC AZ		FC AZ			
<u>SP</u>	Big Creek	Headwaters to confluence with Pitchfork Canyon Wash	A&Wc AZ		FBC AZ			FC AZ		AgL AZ	
<u>SP</u>	Goudy Canyon Wash	Headwaters to confluence with Grant Creek	A&Wc AZ		FBC AZ			FC AZ			
<u>SP</u>	<u>Grant Creek</u>	Headwaters to confluence with unnamed tributary at 32°38'10"/109°56'37"		<u>A&Ww AZ</u>	FBC AZ		DWS AZ	FC AZ			
<u>SP</u>	Grant Creek	Below confluence with unnamed tributary to terminus near Willcox Playa		<u>A&Ww AZ</u>	FBC AZ			FC AZ			
<u>SP</u>	High Creek	Headwaters to confluence with unnamed tributary at 32°33'08"/110°14'42"	<u>A&Wc AZ</u>		FBC AZ			<u>FC AZ</u>		<u>AgL AZ</u>	
<u>SP</u>	High Creek	Below confluence with unnamed tributary to terminus near Willcox Playa	<u>A&Wc AZ</u>		FBC AZ			<u>FC AZ</u>		<u>AgL AZ</u>	
<u>SP</u>	Pinery Creek	Headwaters to State Highway 181	A&Wc AZ		FBC AZ		DWS AZ	FC AZ		<u>AgL AZ</u>	
<u>SP</u>	Pinery Creek	Below State Highway 181 to terminus near Willcox Playa		<u>A&Ww AZ</u>	FBC AZ		DWS AZ	FC AZ		<u>AgL AZ</u>	
<u>SP</u>	Post Creek	Headwaters to confluence with Grant Creek	A&Wc AZ		FBC AZ			FC AZ	<u>Aql AZ</u>	<u>AgL AZ</u>	
<u>SP</u>	Riggs Flat Lake	32°42'28"/109°57'53"	A&Wc AZ		FBC AZ			FC AZ	<u>Agl AZ</u>	<u>AgL AZ</u>	
<u>SP</u>	Rock Creek	Headwaters to confluence with Turkey Creek			FBC AZ			FC AZ		<u>AgL AZ</u>	
<u>SP</u>	Soldier Creek	Headwaters to confluence with Post Creek at 32°40'50"/109°54'41"	<u>A&Wc AZ</u>		FBC AZ			<u>FC AZ</u>		<u>AgL AZ</u>	
<u>SP</u>	Snow Flat Lake	32°39'10"/109°51'54"	A&Wc AZ		FBC AZ			FC AZ	Agl AZ	AgL AZ	
<u>SP</u>	Stronghold Canyon East	Headwaters to 31°55'9.28"/109°57'53.24"	A&Wc AZ			PBC AZ					
<u>SP</u>	Stronghold Canyon East	31°55'9.28"/109°57'53.24" to confluence with Carlink Canyon		A&Ww AZ		PBC AZ					

<u>SP</u>	Turkey Creek	Headwaters to confluence with Rock Creek	A&Wc AZ		FBC AZ		FC AZ	<u>Aql AZ</u>	<u>AgL AZ</u>
<u>SP</u>		Below confluence with Rock Creek to terminus near <u>Willcox Playa</u>		<u>A&Ww AZ</u>	FBC AZ		<u>FC AZ</u>	<u>Agl AZ</u>	<u>AgL AZ</u>
UG	<u>Ward Canyon</u>	Headwaters to confluence with Turkey Creek	A&Wc AZ		FBC AZ		FC AZ		<u>AgL AZ</u>
<u>VR</u>	Moonshine Creek	Headwaters to confluence with Post Creek	A&Wc AZ		FBC AZ		FC AZ		<u>AgL AZ</u>

Table B. WOTUS Protected Surface Waters

The waters listed in this table have been tentatively identified by ADEQ as WOTUS, under the law governing on 8/26/2022. Notwithstanding its inclusion on the list below, the status of a particular water in this table can be contested by a person in an enforcement or permit proceeding, a challenge to an identification as an impaired water, or a challenge to a proposed TMDL for an impaired water. Any changes to Table B will be made through formal rulemaking.

The waters on this list 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 Waters Table. Some web-based mapping systems require a negative sign before the longitude values to indicate it is a west longitude.

Watersheds:

 $\begin{array}{l} \underline{BW = Bill Williams} \\ \underline{CG = Colorado - Grand Canyon} \\ \underline{CL = Colorado - Lower Gila} \\ \underline{LC = Little Colorado} \\ \underline{MG = Middle Gila} \\ \underline{SC = Santa Cruz - Rio Magdelena - Rio Sonoyta} \\ \underline{SP = San Pedro - Willcox Playa - Rio Yaqui} \\ \underline{SR = Salt River} \\ \underline{UG = Upper Gila} \\ \underline{VR = Verde River} \\ \end{array}$

<u>WWTP = Wastewater Treatment Plant</u> <u>Km = kilometers</u>

Watershed	Surface Water	Segment Description and Location (Latitude and Longitudes are in NAD 83)
BW.	Big Sandy River	Headwaters to Alamo Lake
<u>BW</u>	Boulder Creek	Below confluence with unnamed tributary to confluence with Burro Creek
<u>BW</u>	Burro Creek	Below confluence with Boulder Creek to confluence with Big Sandy River
<u>BW</u>	Burro Creek (OAW)	Headwaters to confluence with Boulder Creek
BW.	Francis Creek (OAW)	Headwaters to confluence with Burro Creek
<u>BW</u>	Kirkland Creek	Headwaters to confluence with Santa Maria River
<u>BW</u>	Trout Creek	Below confluence with unnamed tributary to confluence with Knight Creek
<u>cg</u>	Beaver Dam Wash	Headwaters to confluence with the Virgin 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>	Colorado River	Lake Powell to Lake Mead
<u>CG</u>	Crystal Creek	Below confluence with unnamed tributary to confluence with Colorado River
<u>CG</u>	Deer Creek	Below confluence with unnamed tributary to confluence with Colorado River
<u>CG</u>	Garden Creek	Headwaters to confluence with Pipe Creek

<u>CG</u>	Havasu Creek	From the Havasupai Indian Reservation boundary to confluence with the Colorado River
<u>cg</u>	Hermit Creek	Below Hermit Pack Trail crossing to confluence with the Colorado River
<u>CG</u>	Kanab Creek	Headwaters 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>	Nankoweap Creek	Below confluence with unnamed tributary to confluence with Colorado River
<u>cg</u>	Paria River	Utah border to confluence with the Colorado River
<u>CG</u>	Phantom Creek	Below confluence with unnamed tributary to confluence with Bright Angel Creek
<u>cg</u>	Pipe Creek	Headwaters to confluence with the Colorado River
<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>	Tapeats Creek	Headwaters to confluence with the Colorado River
<u>cg</u>	Thunder River	Headwaters to confluence with Tapeats Creek
<u>cg</u>	Vasev's Paradise	A spring at 36°29'52"/111°51'26"
<u>CG</u>	Virgin River	Headwaters to confluence with the Colorado River
<u>CG</u>	White Creek	Headwaters to confluence with unnamed tributary at 36°18'45"/112°21'03"
<u>CG</u>	<u>White Creek</u>	Below confluence with unnamed tributary to confluence with the Colorado River
<u>CL</u>	A10 Backwater	33°31'45"/114°33'19"
<u>CL</u>	A7 Backwater	33°34'27"/114°32'04"
<u>CL</u>	Adobe Lake	33°02'36"/114°39'26"
<u>CL</u>	Cibola Lake	33°14'01"/114°40'31"
<u>CL</u>	Clear Lake	33°01'59'/114°31'19"
<u>CL</u>	Colorado River	Lake Mead to Topock Marsh
<u>CL</u>	Colorado River	Topock Marsh to Morelos Dam
<u>CL</u>	<u>Gila River</u>	Painted Rock Dam to confluence with the Colorado River
<u>CL</u>	Hunter's Hole Backwater	32°31'13"/114°48'07"
<u>CL</u>	Imperial Reservoir	32°53'02"/114°27'54"
<u>CL</u>	Island Lake	33°01'44"/114°36'42"
<u>CL</u>	Laguna Reservoir	32°51'35"/114°28'29"
<u>CL</u>	Lake Havasu	34°35'18"/114°25'47"
<u>CL</u>	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"
	Nortons Lake	<u>33°02'30''/114°37'59"</u>
CL	Pretty Water Lake	33°19'51"/114°42' <u>19"</u>
	Topock Marsh	34°43'27"/114°28'59"
<u>LC</u>	Auger Creek	Headwaters to confluence with Nutrioso Creek
<u>LC</u>	Chevelon Canyon	Headwaters to confluence with the Little Colorado River

LC	Chevelon Canyon Lake	<u>34°29'18"/110°49'30"</u>
<u>LC</u>	Clear Creek	Headwaters to confluence with the Little Colorado River
<u>LC</u>	Clear Creek Reservoir	34°57'09"/110°39'14"
<u>LC</u>	Colter Creek	Headwaters to confluence with Nutrioso Creek
<u>LC</u>	Colter Reservoir	33°56'39"/109°28'53"
<u>LC</u>	Coyote Creek	Headwaters to confluence with the Little Colorado River
LC	Cragin Reservoir (formerly Blue Ridge Reservoir)	34°32'40"/111°11'33"
LC	East Clear Creek	Headwaters to confluence with Clear Creek
<u>LC</u>	Ellis Wiltbank Reservoir	34°05'25"/109°28'25"
<u>LC</u>	Fool's Hollow Lake	34°16'30"/110°03'43"
<u>LC</u>	Lee Valley Creek	From Lee Valley Reservoir to confluence with the East Fork of the Little Colorado River
<u>LC</u>	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
LC	Little Colorado River, South Fork	Headwaters to confluence with the Little Colorado River
<u>LC</u>	Little Colorado River, West Fork	Below Government Springs to confluence with the Little Colorado River
<u>LC</u>	Lyman Reservoir	34°21'21"/109°21'35"
<u>LC</u>	Mamie Creek	Headwaters to confluence with Coyote Creek
<u>LC</u>	Morrison Creek	Headwaters to Mamie Creek @ 33°59'24.45"/109°03'51.94
<u>LC</u>	Nutrioso Creek	Headwaters to confluence with the Little Colorado River
<u>LC</u>	Porter Creek	Headwaters to confluence with Show Low Creek
<u>LC</u>	Riggs Creek	Headwaters to Nutrioso Creek
<u>LC</u>	Rio de Flag	Headwaters to City of Flagstaff WWTP outfall at 35°12'21"/111°39'17"
<u>LC</u>	Rudd Creek	Headwaters to confluence with Nutrioso Creek
<u>LC</u>	Rosey Creek	Headwaters to 34°02'28.72"/109°27'24.3"
<u>LC</u>	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"
<u>LC</u>	Silver Creek	Headwaters to confluence with the Little Colorado River
<u>LC</u>	White Mountain Lake	34°21'57"/109°59'21"
<u>LC</u>	Willow Creek	Headwaters to confluence with Clear Creek
<u>LC</u>	Zuni River	Headwaters to confluence with the Little Colorado River
MG	Agua Fria River	From State Route 169 to Lake Pleasant
MG	Ash Creek	Headwaters to confluence with Tex Canyon
MG	East Maricopa Floodway	From Brown and Greenfield Rds to the Gila River Indian Reservation Boundary
MG	Fain Lake	Town of Prescott Valley Park Lake 34°34'29"/ 112°21'06"
MG	<u>Gila River</u>	San Carlos Indian Reservation boundary to the Ashurst-Hayden Dam
MG	Gila River (EDW)	From the confluence with the Salt River to Gillespie Dam

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Image: Control of the control of t	<u>sc</u>	Cienega Creek (OAW)	From confluence with Gardner Canyon to USGS gaging station (#09484600)
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End Finance Finance SC Stanta Cruz River Headwaters to the at U.S. Mexico border SC Stanta Cruz River U.S. Mexico border to the Nogales International WWTP outfall at 31*2725'/10*58'4* SC Stanta Cruz River U.S. Mexico border to the Nogales International WWTP outfall at 31*2725'/10*58'4* SC Stanta Cruz River Tubac Bridge to Aqua Nueva WRF outfall at 32*17'04'/11*0*45* SC Stanta Cruz River Tubac Bridge to Aqua Nueva WRF outfall to Baumgather Road SC Stanta Cruz River (EDW) Aqua Nueva WRF outfall to Baumgather Road SC Sonoita Creek Headwaters to the Town of Patagonia WWTP outfall at 31*3225'/10*45'31* SC Sonoita Creek (EDW) Town of Patagonia WWTP outfall to permanent groundwater upwelling point approximately 1600 feet downstream of outfall SC Sconoita Creek (EDW) Town of Patagonia WWTP outfall to permanent groundwater upwelling point approximately 1600 feet downstream of outfall SC Sconoita Creek (EDW) Town of Patagonia WWTP outfall to permanent groundwater upwelling point approximately 1600 feet downstream of outfall SC Scramore Canyon Headwaters to the U.S.Mexico border SP Aravaipa Creek (OAW) Slowe Gutch to downstream boundary of Aravaipa Canyon Wildemess Area SP <td><u>sc</u></td> <td>Parker Canyon Creek</td> <td>Below unnamed tributary to U.S./Mexico border</td>	<u>sc</u>	Parker Canyon Creek	Below unnamed tributary to U.S./Mexico border
Santa Cnuz River Headwaters to the at U.S. Mexico border SC Santa Cnuz River U.S. Mexico border SC Santa Cnuz River U.S. Mexico border to the Nogales International WWTP outfall at 31*27/25/110*5804* SC Santa Cnuz River Tubac Bridge to Agua Nueva WRF outfall at 32*1704/111*0145* SC Santa Cnuz River (EDW) Agua Nueva WRF outfall to Baumgartner Road SC Santa Creek Headwaters to the Town of Patagonia WWTP outfall at 31*3225*/110*4531* SC Sonolta Creek (EDW) Town of Patagonia WWTP outfall to permanent groundwater upwelling point approximately 1600 feet downstream of outfall SC Sonolta Streamore Creek (EDW) SC Sonolta Creek (EDW) Town of Patagonia WWTP outfall to permanent groundwater upwelling point approximately 1600 feet downstream of outfall SC Speamore Speamore Below downstream boundary of Aravaipa Canvon Wildemess Area to confluence with the San Pedro River SP Aravaipa Creek (OAW) Slowe Gulch to downstream boundary of Aravaipa Canvon Wildemess Area SP Bass Canvon Creek Below confluence with unnamed tributary to confluence with Hot Springs Canvon Creek	<u>sc</u>	Rillito Creek	Headwaters to confluence with the Santa Cruz River
Sec Santa Cruz River U.S./Mexico border to the Nogales International WWTP outfall at 31*27/257/110*5804* SC Santa Cruz River Tubac Bridge to Agua Nueva WRF outfall at 32*17/04*/111*0145* SC Santa Cruz River (EDW) Agua Nueva WRF outfall to Baumgartner Road SC Santa Creek Headwaters to the Town of Patagonia WWTP outfall at 31*32257/110*4531* SC Sonota Creek (EDW) Town of Patagonia WWTP outfall to permanent groundwater uowelling point approximately 1600 feet downstream of outfall SC Sucamore Canyon. Headwaters to the U.S./Mexico border SP Aravaipa Creek (OAW) Slowe Gulch to downstream boundary of Aravaipa Canyon Wilderness Area SP Bass Canyon Creek Headwaters to the U.S./Mexico border SP Bass Canyon Creek Below confluence with unnamed tributary to confluence with Hot Springs Canyon Creek SP Bass Canyon Creek Headwaters to the U.S./Mexico border SP Bass Canyon Creek Headwaters to the U.S./Mexico border SP Bass Canyon Creek Headwaters to the U.S./Mexico border SP Bass Canyon Creek Headwaters to the U.S./Mexico border SP Basa Creek Headwaters to the U.S./Mexico border SP Basa Creek	<u>sc</u>	Romero Canyon Creek	Below unnamed tributary to confluence with Sutherland Wash
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SC Sonoita Creek Headwaters to the Town of Patagonia WWTP outfall at 31°32'25'/110°45'31" SC Sonoita Creek (EDW) Town of Patagonia WWTP outfall to permanent groundwater upwelling point approximately 1600 feet downstream of outfall SC Sycamore Canyon Headwaters to the U.S./Mexico border SP Aravaipa Creek Below downstream boundary of Aravaipa Canyon Wilderness Area to confluence with the San Pedro River SP Aravaipa Creek (OAW) Stowe Gulch to downstream boundary of Aravaipa Canyon Wilderness Area SP Aravaipa Creek Below confluence with unnamed tributary to confluence with Hot Springs Canyon Creek SP Bass Canyon Creek Below confluence with unnamed tributary to confluence with Hot Springs Canyon Creek SP Bear Creek Headwaters to U.S./Mexico border SP Black Draw Headwaters to the U.S./Mexico border SP Black Draw Headwaters to the U.S./Mexico border SP Black Draw Headwaters to the U.S./Mexico border	<u>sc</u>	Santa Cruz River	Tubac Bridge to Agua Nueva WRF outfall at 32°17'04"/111°01'45"
SC Sonoita Creek (EDW) Town of Patagonia WWTP outfall to permanent groundwater upwelling point approximately 1600 feet downstream of outfall SC Sycamore Canvon. Headwaters to the U.S./Mexico border SP Aravaipa Creek Below downstream boundary of Aravaipa Canvon Wildemess Area to confluence with the San Pedro River SP Aravaipa Creek (OAW) Stowe Gulch to downstream boundary of Aravaipa Canvon Wildemess Area SP Aravaipa Creek (OAW) Stowe Gulch to downstream boundary of Aravaipa Canvon Wildemess Area SP Bass Canvon Creek Below confluence with unnamed tributary to confluence with Hot Springs Canvon Creek SP Bear Creek Headwaters to U.S./Mexico border SP Black Draw Headwaters to the U.S./Mexico border SP Black Draw Headwaters to the U.S./Mexico border SP Black Draw Headwaters to the U.S./Mexico border	<u>sc</u>	Santa Cruz River (EDW)	Agua Nueva WRF outfall to Baumgartner Road
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SP Aravaipa Creek Below downstream boundary of Aravaipa Canyon Wilderness Area to confluence with the San Pedro River SP Aravaipa Creek (OAW) Stowe Gulch to downstream boundary of Aravaipa Canyon Wilderness Area SP Bass Canyon Creek Below confluence with unnamed tributary to confluence with Hot Springs Canyon Creek SP Bass Canyon Creek Below confluence with unnamed tributary to confluence with Hot Springs Canyon Creek SP Bear Creek Headwaters to U.S./Mexico border SP Black Draw Headwaters to the U.S./Mexico border	<u>sc</u>	Sonoita Creek (EDW)	Town of Patagonia WWTP outfall to permanent groundwater upwelling point approximately 1600 feet downstream of outfall
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SP Bass Canyon Creek SP Bear Creek Bear Creek Headwaters to U.S./Mexico border SP Black Draw	<u>SP</u>	Aravaipa Creek	Below downstream boundary of Aravaipa Canyon Wilderness Area to confluence with the San Pedro River
SP Bear Creek Headwaters to U.S./Mexico border SP Black Draw Headwaters to the U.S./Mexico border	<u>SP</u>	Aravaipa Creek (OAW)	Stowe Gulch to downstream boundary of Aravaipa Canyon Wilderness Area
SP Black Draw Headwaters to the U.S./Mexico border	<u>SP</u>	Bass Canyon Creek	Below confluence with unnamed tributary to confluence with Hot Springs Canyon Creek
	<u>SP</u>	Bear Creek	Headwaters to U.S./Mexico border
	<u>SP</u>	Black Draw	Headwaters to the U.S./Mexico border
DP Lan Canyon Creek Headwaters to confluence with unnamed troutary at 31"2/'01'/110"15'48"	<u>SP</u>	Carr Canyon Creek	Headwaters to confluence with unnamed tributary at 31°27'01"/110°15'48"
SP Gold Gulch Headwaters to U.S./Mexico border	<u>SP</u>	Gold Gulch	Headwaters to U.S./Mexico border

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Interaction Interaction 2 Mixede One Salades is antises a siturane bison (a USA 2019/23/32). 2 Mixede One Salades is antises a siturane bison (a USA 2019/23/32). 2 Mixede Cone Salades is antises as its usan a siturane bison (a USA 2019/23/32). 2 Mixed Cone Salades is antises as its usan as its usa	<u>SP</u>	San Pedro River	U.S./ Mexico Border to Buehman Canyon
InductionInduction64Materia DaryRescarchers withwarmed klassics kut Sul Materia Decord63Markale DarySul Sul Sul Sul Sul Sul Sul Sul Sul Sul	<u>SP</u>	San Pedro River	From Buehman canyon to confluence with the Gila River
Image: ConstructionImage: Construction21Joint LateControl (Construction)23Joint LateControl (Construction)24Joint ConstructionMaterian in conference with Base, Base25Joint ConstructionMaterian in conference with Base, Base26Joint ConstructionMaterian in conference with Base, Base27Joint ConstructionMaterian in conference with Base, Base28Joint ConstructionMaterian in conference with Base, Base29Joint ConstructionMaterian in conference with Base, Base20Joint ConstructionMaterian in conference with Base, Base20Joint ConstructionMaterian in conference with Base, Base21Joint ConstructionMaterian in conference with Base, Base22Joint ConstructionMaterian in conference with Base, Base23Joint ConstructionMaterian in conference with Base, Base24Joint ConstructionMaterian in conference with Base, Base25Joint ConstructionMaterian in conference with Base, Base26Joint ConstructionMaterian in conference with Base, Base27Joint ConstructionMaterian in conference with Base, Base28Joint LateJoint ConstructionMaterian in conference with Base, Base29Joint ConstructionMaterian in conference with Intel Base, Dave29Joint ConstructionMaterian in conference with Intel Base, Dave29Joint ConstructionMaterian in conference with Intel Dave, Const2	<u>SP</u>	Whitewater Draw	Headwaters to confluence with unnamed tributary at 31°20'36"/109°43'48"
Image: Maria Laba Number of Maria Laba Bit Bardination Maria Laba Maria Laba Bit Bardination Maria Laba Maria Laba Bit Bardination Maria Laba Maria Laba Bit Bardination Maria Laba Maria Laba Bit Bardination Maria Laba Maria Labo Bit Bardination Maria Labo Maria Labo Bit Bardination Maria Labo Maria Labo Bit Maria Labo Maria Labo	<u>SP</u>	Whitewater Draw	Below confluence with unnamed tributary to U.S./ Mexico border
And Yeator Cook Selection to confunce all the Day 28 Serier Cook Selection to confunce all the Day 28 Serier Cook Selection to confunce all the Day 28 Serier Cook Serier Cook Serier Cook 29 Cook Cook Serier Cook Serier Cook 20 Cook Serier Cook Serier Cook Serier Cook 20 Cook Serier Cook Serier Cook Serier Cook 20 Cook Serier Cook Serier Cook Serier Cook 20 Cook Serier Cook Serier Cook Serier	<u>SR</u>	Ackre Lake	33°37'01"/109°20'40"
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Index Index Start Index Start Index Start Seek Start	<u>SR</u>	Bear Wallow Creek (OAW)	Headwaters to confluence with the Black River
ControlNote Neur Fast FastInternational with Stater to confluence with Base RoarB1Note Neur Your FastState Anter to confluence with Base RoarB2Note Neur Your FastState Anter to confluence with Base RoarB3State Neur Your FastState Anter to confluence with Base RoarB3State Neur Your FastState Anter to confluence with Base RoarB3State Neur Your FastState Anter to confluence with Base RoarB3State CasisState Anter to confluence with Base RoarB3State CasisState Anter to confluence with Data RoarB3State CasisState CasisB4Casis CasisState CasisB3State CasisState CasisB4Casis CasisState CasisB3State CasisState CasisB4State CasisState CasisB3State CasisState CasisB4State CasisState CasisB4State CasisState CasisB3State CasisState CasisB4State CasisState CasisB4State CasisState CasisB4State CasisState CasisB5State CasisState CasisB5State CasisState CasisB5State CasisState CasisB5State CasisState CasisB5State CasisState CasisB5State CasisState CasisB6State CasisState CasisB7State CasisState Casis<	<u>SR</u>	Beaver Creek	Headwaters to confluence with Black River
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No.ActivationRegy DeckRegy DeckRegy DeckRestauters to confuence with Certefin CerkRegy DeckSeasured CoestRegy DeckSeasured CoestSeasured Coest<	<u>SR</u>	Black River, North Fork of East Fork	Headwaters to confluence with Boneyard Creek
Channel Anstrantisk i kontingen with Biak River. Earl Fork SR Borner Cenek Si '12'47'111'26'19' SR Borner Cenek Beborn in the Biak River. Earl Fork SR Stringen Cenek Beborn in the Biak River. Earl Fork SR Stringen Cenek Beborn in the Biak River. SR Beborn in the Biak River. Beborn in the Biak River. SR Beborn in the Biak River. Beborn in the Biak River. SR Beborn in the Biak River. Beborn in the Biak River. SR Beborn in the Biak River. Beborn in the Biak River. SR Beborn in the Biak River. Beborn in the Biak River. SR B	<u>SR</u>	Black River, West Fork	Headwaters to confluence with the Black River
Image Image SR Januan Lake Januan Lake Januan Lake Janua	<u>SR</u>	Boggy Creek	Headwaters to confluence with Centerfire Creek
NoteNoteSRIntervaluesIntervaluesSRConfinitionalIntervaluesSRConfinitionalIntervaluesSRConfinitionalIntervaluesSRConfinitionalIntervaluesSRConfinitionalStatementsConfinitionalStatementsIntervaluesSRConfinitionalStatementsSRConfinitionalStatementsSRConfinitionalStatementsSRConfinitionalStatementsSRConfinitionalIntervaluesSR <td< td=""><td><u>SR</u></td><td>Boneyard Creek</td><td>Headwaters to confluence with Black River, East Fork</td></td<>	<u>SR</u>	Boneyard Creek	Headwaters to confluence with Black River, East Fork
Continue CasesContinue CasesSRContinue CasesHeadwaters to confinence with the Back RiverSRContinue CasesHeadwaters to confinence with Link CreatsSRDooling Vat ReservoirS2:5547/109/25311SRDioolng Vat ReservoirS2:5547/109/25311SRLink CreatsHeadwaters to confinence with Unnamed Houtery to confinence with Cherry CreatsSRLink CreatsHeadwaters to confinence with Unnamed Houtery at 34'1722'111'00'15'SRLink CreatsHeadwaters to confinence with Dealer CreatsSRLink CreatsHeadwaters to confinence with Inter CreatsSRLink CreatsSector Foreit Sanite Read #203 to Cherry CreatsSRLink CreatsForeit CreatsSRLink CreatsSector Foreit Sanite Read #203 to Cherry CreatsSRLink CreatsForeit CreatsSRInal CreatsForeit CreatsSRInal CreatsForeit CreatsSRInal CreatsForeit CreatsSR <td< td=""><td><u>SR</u></td><td>Canyon Lake</td><td>33°32'44"/111°26'19"</td></td<>	<u>SR</u>	Canyon Lake	33°32'44"/111°26'19"
BR Conducty Creak Headwaters to confluence with Fish Creak SR Devine Creak Elew confluence with unamed tributary to confluence with Cherry Creak SR Devine Vait Reservoir 33'5547/102'25'31' SR Elew confluence with unamed tributary to confluence with Cherry Creak SR Eleb Creak Headwaters to confluence with unamed tributary at 34'1223'111'00'15' SR Headwaters to confluence with unamed tributary at 34'1223'111'00'15' SR Headwaters to confluence with unamed tributary at 34'1223'111'00'15' SR Headwaters to confluence with unamed tributary at 34'1223'111'00'15' SR Headwaters to confluence with unamed tributary at 34'1223'111'00'15' SR Headwaters to confluence with unamed tributary at 34'1223'111'00'15' SR Headwaters to confluence with unamed tributary at 34'1223'111'00'15' SR Headwaters to confluence with Eleak River SR Headwaters to confluence with Black River SR Headwaters to confluence with Deatwater So confluence with Creak SR Headwaters to confluence with Tonto Creak SR Headwaters to confluence with Creak River SR Headwaters to confluence with Confluence with Sait River	<u>SR</u>	Cherry Creek	Below unnamed tributary to confluence with the Salt River
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IndexIndexIndexSRtanagan Creekteadwaters to confluence with Beaver CreekSRtav Creek (OAW)teadwaters to confluence with the Black River. West ForkSRtoton Creekteadwaters to confluence with Tonto CreekSR26 CreekBelow Forest Service Road #203 to Cherry CreekSR26 CreekBelow Forest Service Road #203 to Cherry CreekSRPinal CreekFrom Lower Pinal Creek WTP outfall # to See Ranch Crossing at 33*3225'/10*5228*SRPinal CreekFrom unnamed tributary to confluence with Salt RiverSRPinal Creekteadwaters to confluence with unnamed tributary at 33*1927'/110*54'58*SRRosevelt Lake33*5217'/11*0017*SRRosevelt Lake33*3217'/11*0017*SRSauaro Lake33*3344'/11*30*55*SRSalt RiverWhite Mountain Apache Reservation Boundary at 33*48*52'/110*31*3* to Roosevelt LakeSRSalt RiverTheodore Roosevelt Dam to 2 km below Granite Reef Dam	<u>SR</u>	Haigler Creek	Headwaters to confluence with unnamed tributary at 34°12'23"/111°00'15".
Arr A	<u>SR</u>	Haigler Creek	Below confluence with unnamed tributary to confluence with Tonto Creek
SR Intercent Intercent SR Form Lower Pinal Creek Below Forest Service Road #203 to Cherry Creek SR P B Creek Below Forest Service Road #203 to Cherry Creek SR Pinal Creek From Lower Pinal Creek WTP outfall # to See Ranch Crossing at 33°32'25'/110°52'28'' SR Pinal Creek From unnamed tributary to confluence with Salt River SR Pinal Creek Into Creek SR Pinal Creek Headwaters to confluence with unnamed tributary at 33°19'27'/110°54'58'' SR Roosevelt Lake 33°52'17'/111'00'17'' SR Roosevelt Lake 33°3'34'4'/111'30'55'' SR Sauaro Lake 33'3'34'4'/111'30'55'' SR Salt River White Mountain Apache Reservation Boundary at 33'48'52'/110''31'33'' to Roosevelt Lake SR Salt River Theodore Roosevelt Dam to 2 km below Granite Reef Dam	<u>SR</u>	Hannagan Creek	Headwaters to confluence with Beaver Creek
SR 2.B Creek Below Forest Service Road #203 to Cherry Creek SR Pinal Creek From Lower Pinal Creek WTP outfall # to See Ranch Crossing at 33°32'25''/110°52'28" SR Pinal Creek From Lower Pinal Creek WTP outfall # to See Ranch Crossing at 33°32'25''/110°52'28" SR Pinal Creek From unnamed tributary to confluence with Salt River SR Pinto Creek Headwaters to confluence with unnamed tributary at 33°19'27'/110°54'58" SR Boosevelt Lake 33°52'17'/111'00'17" SR Roesevelt Lake 33°32'41'/111'30'55" SR Saguaro Lake 33'33'44'/111'30'55" SR Salt River White Mountain Apache Reservation Boundary at 33°48'52''/10'31'33" to Roosevelt Lake SR Salt River Theodore Roosevelt Dam to 2 km below Granite Reef Dam	<u>SR</u>	Hay Creek (OAW)	Headwaters to confluence with the Black River, West Fork
Image: Constraint of the constraint	<u>SR</u>	Horton Creek	Headwaters to confluence with Tonto Creek
SR Pind Creek Form unnamed tributary to confluence with Salt River SR Pinto Creek Headwaters to confluence with unnamed tributary at 33°19'27"/110°54'58" SR Roosevelt Lake 33°52'17"/111°00'17" SR Rve Creek Headwaters to confluence with Tonto Creek SR Rve Creek Headwaters to confluence with Tonto Creek SR Rve Creek Headwaters to confluence with Tonto Creek SR Saguaro Lake 33°33'44"/111°30'55" SR Salt River White Mountain Apache Reservation Boundary at 33°48'52"/110°31'33" to Roosevelt Lake SR Salt River Theodore Roosevelt Dam to 2 km below Granite Reef Dam	<u>SR</u>	P B Creek	Below Forest Service Road #203 to Cherry Creek
SR Pinto Creek Headwaters to confluence with unnamed tributary at 33°19'27"/110°54'58" SR Roosevelt Lake 33°52'17"/111°00'17" SR Rve Creek Headwaters to confluence with Tonto Creek SR Rve Creek Headwaters to confluence with Tonto Creek SR Saguaro Lake 33°33'44"/111°30'55" SR Salt River White Mountain Apache Reservation Boundary at 33°48'52"/110°31'33" to Roosevelt Lake SR Salt River Theodore Roosevelt Dam to 2 km below Granite Reef Dam	<u>SR</u>	Pinal Creek	From Lower Pinal Creek WTP outfall # to See Ranch Crossing at 33°32'25"/110°52'28"
Image: State state State state State state state State s	<u>SR</u>	Pinal Creek	From unnamed tributary to confluence with Salt River
SR Saguaro Lake Saguaro Lake Saguaro Lake SR Saguaro Lake 33°33'44"/111°30'55" SR Salt River White Mountain Apache Reservation Boundary at 33°48'52"/110°31'33" to Roosevelt Lake SR Salt River Theodore Roosevelt Dam to 2 km below Granite Reef Dam	<u>SR</u>	Pinto Creek	Headwaters to confluence with unnamed tributary at 33°19'27"/110°54'58"
SR Saguaro Lake 33°33'44"/111°30'55" SR Salt River White Mountain Apache Reservation Boundary at 33°48'52"/110°31'33" to Roosevelt Lake SR Salt River Theodore Roosevelt Dam to 2 km below Granite Reef Dam	<u>SR</u>	Roosevelt Lake	33°52'17"/111°00'17"
SR Salt River SR Salt River Decoder Reservation Boundary at 33°48'52"/110°31'33" to Roosevelt Lake SR Salt River Theodore Roosevelt Dam to 2 km below Granite Reef Dam	<u>SR</u>	Rve Creek	Headwaters to confluence with Tonto Creek
SR Salt River Ineodore Roosevelt Dam to 2 km below Granite Reef Dam	<u>SR</u>	Saguaro Lake	33°33'44"/111°30'55"
	<u>SR</u>	Salt River	White Mountain Apache Reservation Boundary at 33°48'52"/110°31'33" to Roosevelt Lake
SR Thompson Creek Headwaters to confluence with the West Fork of the Black River	<u>SR</u>	Salt River	Theodore Roosevelt Dam to 2 km below Granite Reef Dam
	<u>SR</u>	Thompson Creek	Headwaters to confluence with the West Fork of the Black River

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<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
<u>SR</u>	Willow Creek	Headwaters to confluence with Beaver Creek
<u>SR</u>	Norkman Creek	Below confluence with Reynolds Creek to confluence with Salome Creek
<u>UG</u>	Apache Creek	Headwaters to confluence with the Gila River
<u>UG</u>	Bitter Creek	Headwaters to confluence with the Gila River
UG	Blue River	Headwaters to confluence with Strayhorse Creek at 33°29'02"/109°12'14"
UG	Blue River	Below confluence with Strayhorse Creek to confluence with San Francisco River
<u>UG</u>	Bob Thomas Creek	Headwaters to Stone Creek 33°51'93"/109°42'52"
UG	Bonita Creek (OAW)	San Carlos Indian Reservation boundary to confluence with the Gila River
<u>UG</u>	Campbell Blue Creek	Headwaters to confluence with the Blue River
UG	Cave Creek (OAW)	Headwaters to confluence with South Fork Cave Creek
UG	Cave Creek (OAW)	Below confluence with South Fork Cave Creek to Coronado National Forest boundary
<u>UG</u>	Cave Creek, South Fork	Headwaters to confluence with Cave Creek
UG	Deadman Canyon Creek	Headwaters to confluence with unnamed tributary at 32°43'50"/109°49'03"
UG	Eagle Creek	Below confluence with unnamed tributary to confluence with the Gila River
<u>UG</u>	<u>Gila River</u>	New Mexico border to the San Carlos Indian Reservation boundary
<u>UG</u>	Grant Creek	Headwaters to confluence with the Blue River
<u>UG</u>	Judd Lake	<u>33°51'15"/109°09'35"</u>
<u>UG</u>	K P Creek (OAW)	Headwaters to confluence with the Blue River
<u>UG</u>	Little Blue Creek	Below confluence with Dutch Blue Creek to confluence with Blue Creek
<u>UG</u>	Luna Lake	<u>33°49'50"/109°05'06"</u>
<u>UG</u>	North Fork Cave Creek	Headwaters to Cave Creek @ 31°52'56.63"/109°12'19.75"
<u>UG</u>	Raspberry Creek	Headwaters to confluence with the Blue River
<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>	Stone Creek	Headwaters to confluence with the San Francisco River
<u>UG</u>	Thomas Creek	Below confluence with Rousensock Creek to confluence with Blue River
<u>UG</u>	Turkey Creek	Headwaters to confluence with Campbell Blue Creek
<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>	Bitter Creek	Headwaters to the Jerome WWTP outfall at 34°45'12"/112°06'24"
<u>VR</u>	Bitter Creek	Below the Yavapai Apache Indian Reservation boundary to confluence with the Verde River
<u>VR</u>	Dead Horse Lake	34°45'08"/112°00'42"
VR	East Verde River	Headwaters to confluence with Ellison Creek
<u>VR</u>	East Verde River	Below confluence with Ellison Creek to confluence with the Verde River
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<u>VR</u>	Fossil Creek (OAW)	Headwaters to confluence with the Verde River
<u>VR</u>	Fossil Springs (OAW)	34°25'24"/111°34'27"
<u>VR</u>	Horseshoe Reservoir	34°00'25"/111°43'36"
<u>VR</u>	Dak 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>	Spring Creek	Below confluence with unnamed tributary to confluence with Oak Creek
<u>VR</u>	Sullivan Lake	34°51'42"/112°27'51"
<u>VR</u>	Svcamore Creek	Headwaters to confluence with unnamed tributary at 35°03'41"/111°57'31"
<u>VR</u>	Sycamore Creek	Headwaters to confluence with Verde River at 33°37'55"/111°39'58"
<u>VR</u>	Verde River	From headwaters at confluence of Chino Wash and Granite Creek to Bartlett Lake Dam
<u>VR</u>	Verde River	Below Bartlett Lake Dam to Salt River
<u>VR</u>	Nest 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>	Net Beaver Creek	Below unnamed springs to confluence with Dry Beaver Creek
<u>VR</u>	Willow Creek Reservoir	34°36'17"/112°26'19"

Table C. Historically Regulated as WOTUS and in Need of Confirmation

The waters listed in this table have historically been and will continue to be regulated as WOTUS unless ADEQ makes a determination that they are non-WOTUS. Notwithstanding its inclusion on the list below, the status of a particular water in this table can be contested by a person in an enforcement or permit proceeding, a challenge to an identification as an impaired water, or a challenge to a proposed TMDL for an impaired water. Any changes to Table C will be made through formal rulemaking.

The waters on this list 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 Historically Regulated as WOTUS and in Need of Confirmation Table. Some web-based mapping systems require a negative sign before the longitude values to indicate it is a west longitude.

Watersheds:

 $\begin{array}{l} \underline{BW} = \underline{Bill\ Williams}\\ \underline{CG} = \underline{Colorado} - \underline{Grand\ Canyon}\\ \underline{CL} = \underline{Colorado} - \underline{Lower\ Gila}\\ \underline{LC} = \underline{Little\ Colorado}\\ \underline{MG} = \underline{Middle\ Gila}\\ \underline{SC} = \underline{Santa\ Cruz} - \underline{Rio\ Magdelena} - \underline{Rio\ Sonoyta}\\ \underline{SP} = \underline{San\ Pedro} - \underline{Willcox\ Playa} - \underline{Rio\ Yaqui}\\ \underline{SR} = \underline{Salt\ River}\\ \underline{UG} = \underline{Upper\ Gila}\\ \underline{VR} = \underline{Verde\ River}\\ \underline{Other\ Abbreviations:}} \end{array}$

 $\frac{WWTP = Wastewater Treatment Plant}{Km = kilometers}$

Watershed	Surface Water	Segment Description and Location (Latitude and Longitudes are in NAD 83)
BW_	Alamo Lake	34°14'06"/113°35'00"
BW_	Bill Williams River	Alamo Lake to confluence with Colorado River
<u>BW</u>	Blue Tank	34°40'14"/112°58'17"
<u>BW</u>	Boulder Creek	Headwaters to confluence with unnamed tributary at 34°41'13"/113°03'37"
<u>BW</u>	Burro Creek	Below confluence with Boulder Creek to confluence with Big Sandy River
<u>BW</u>	Burro Creek (OAW)	Headwaters to confluence with Boulder Creek
<u>BW</u>	Carter Tank	<u>34°52'27"/112°57'31"</u>
<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
<u>BW</u>	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
<u>BW</u>	Date Creek	Headwaters to confluence with Santa Maria River
<u>BW</u>	Knight Creek	Headwaters to confluence with Big Sandy River
BW_	Peoples Canyon (OAW)	Headwaters to confluence with Santa Maria River
<u>BW</u>	Red Lake	35°12'18"/113°03'57"
BW_	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>CG</u>	Agate Canyon	Headwaters to confluence with the Colorado River
<u>CG</u>	Big Springs Tank	36°36'08"/112°21'01"
<u>CG</u>	Boucher Creek	Headwaters to confluence with the 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	Red Lake Wash to Havasupai Indian Reservation boundary
<u>CG</u>	Cataract Creek (EDW)	City of Williams WWTP outfall to 1 km downstream
<u>CG</u>	Cataract Lake	<u>35°15'04"/112°12'58"</u>
<u>cg</u>	Chuar Creek	Headwaters to confluence with unnamed tributary at 36°11'35"/111°52'20"

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<u>CG</u>	<u>Chuar Creek</u>	Below unnamed tributary to confluence with the Colorado River
<u>cg</u>	City Reservoir	35°13'57"/112°11'25"
<u>cg</u>	<u>Clear Creek</u>	Headwaters to confluence with unnamed tributary at 36°07'33"/112°00'03"
<u>cg</u>	<u>Clear Creek</u>	Below confluence with unnamed tributary to confluence with Colorado River
<u>CG</u>	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>	Crystal Creek	Headwaters to confluence with unnamed tributary at 36°13'41"/112°11'49"
<u>cg</u>	Deer Creek	Headwaters to confluence with unnamed tributary at 36°26'15"/112°28'20"
<u>CG</u>	Detrital Wash	Headwaters to Lake Mead
<u>CG</u>	Dogtown Reservoir	35°12'40"/112°07'54 <u>"</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>	Gonzalez Lake	35°1526"/112°12'09"
<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>	Hermit Creek	Headwaters to Hermit Pack Trail crossing at 36°03'38"/112°14'00"
<u>CG</u>	Hom Creek	Headwaters to confluence with the Colorado River
<u>CG</u>	Hualapai Wash	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>	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>	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
CG	Monument Creek	Headwaters to confluence with the Colorado River
<u>cg</u>	Nankoweap Creek	Below confluence with unnamed tributary to confluence with Colorado River
<u>cg</u>	National Canyon Creek	Headwaters to Hualapai Indian Reservation boundary at 36°15'15"/112°52'34"
<u>CG</u>	North Canyon Creek	Headwaters to confluence with unnamed tributary at 36°33'58"/111°55'41"
	North Canyon Creek	Below confluence with unnamed tributary to confluence with Colorado River
<u>CG</u>		
<u>cg</u> <u>cg</u>	Olo Canyon	Headwaters to confluence with the Colorado River

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<u>CL</u>	Holy Moses Wash	From 3 km downstream of City of Kingman Downtown WWTP outfall to confluence with Sawmill Wash
<u>CL</u>	Holy Moses Wash (EDW)	City of Kingman Downtown WWTP outfall to 3 km downstream
CL	Mohave Wash	Headwaters to Lower Colorado River
<u>CL</u>	Painted Rock (Borrow Pit) Lake	33°04'55"/113°01'17"
<u>CL</u>	Quigley Pond	32°43'40"/113°57'44"
<u>CL</u>	Redondo Lake	32°44'32"/114°29'03"
<u>CL</u>	Sacramento Wash	Headwaters to Topock Marsh
<u>CL</u>	Sawmill Canyon	Headwaters to abandoned gaging station at 35°09'45"/113°57'56"
<u>CL</u>	Sawmill Canyon	Below abandoned gaging station to confluence with Holy Moses Wash
<u>CL</u>	Tyson Wash (EDW)	Town of Quartzsite WWTP outfall at 33°42'39"/ 114°13'10" to 1 km downstream
<u>CL</u>	Wellton Canal	Wellton-Mohawk Irrigation District
<u>CL</u>	Yuma Area Canals	Above municipal water treatment plant intakes
<u>CL</u>	Yuma Area Canals	Below municipal water treatment plant intakes and all drains
<u>LC</u>	Als Lake	35°02'10"/111°25'17"
<u>LC</u>	<u>Ashurst Lake</u>	35°01'06"/111°24'18"
<u>LC</u>	Atcheson Reservoir	<u>33°59′59″/109°20′43″</u>
<u>LC</u>	Barbershop Canyon Creek	Headwaters to confluence with East Clear Creek
<u>LC</u>	Bear Canyon Creek	Headwaters to confluence with General Springs Canyon
<u>LC</u>	Bear Canyon Creek	Headwaters to confluence with Willow Creek
<u>LC</u>	Bear Canyon Lake	<u>34°24'00"/111°00'06"</u>
<u>LC</u>	Becker Lake	34°09'11"/109°18'23"
<u>LC</u>	Billy Creek	Headwaters to confluence with Show Low Creek
<u>LC</u>	Black Canyon	Headwaters to confluence with Chevelon Creek
<u>LC</u>	Bow and Arrow Wash	Headwaters to confluence with Rio de Flag
<u>LC</u>	Buck Springs Canyon Creek	Headwaters to confluence with Leonard Canyon Creek
<u>LC</u>	Bunch Reservoir	34°02'20"/109°26'48"
<u>LC</u>	Carnero Lake	34°06'57"/109°31'42"
<u>LC</u>	Chevelon Creek, West Fork	Headwaters to confluence with Chevelon Creek
<u>LC</u>	<u>Chilson Tank</u>	34°51'43"/111°22'54"
<u>LC</u>	Coconino Reservoir	35°00'05"/111°24'10"
<u>LC</u>	Colter Creek	Headwaters to confluence with Nutrioso Creek
<u>LC</u>	Concho Creek	Headwaters to confluence with Carrizo Wash
<u>LC</u>	Concho Lake	<u>34°26'37"/109°37'40"</u>
<u>LC</u>	Cow Lake	34°53'14"/111°18'51"
<u>LC</u>	<u>Crisis Lake (Snake Tank #2)</u>	34°47'51"/111°17'32"
<u>LC</u>	Dane Canyon Creek	Headwaters to confluence with Barbershop Canyon Creek

<u>LC</u>	Daves Tank	34°44'22"/111°17'15"
	Deep Lake	35*03'34"/111*25'00"
	Ducksnest Lake	34°5914'/11°2357"
	Estates at Pine Canyon lakes (EDW)	35°09'32'/11'°38'26"
	Fish Creek	Headwaters to confluence with the Little Colorado River
<u>LC</u>	General Springs Canyon Creek	Headwaters to confluence with East Clear Creek
<u>LC</u>	Geneva Reservoir	<u>34°01'45"/109°31'46"</u>
<u>LC</u>	Hall Creek	Headwaters to confluence with the Little Colorado River
<u>LC</u>	Hart Canyon Creek	Headwaters to confluence with Willow Creek
<u>LC</u>	Hay Lake	34°00'11"/109°25'57"
L <u>C</u>	Hog Wallow Lake	33°58′57″/109°25′39″
<u>LC</u>	Horse Lake	35°03'55"/111°27'50"
L <u>C</u>	Hulsey Creek	Headwaters to confluence with Nutrioso Creek
<u>LC</u>	Hulsey Lake	33°55′58″/109°09′40″
<u>LC</u>	Humphrey Lake (EDW)	35°11'51"/111°35'19"
<u>LC</u>	Indian Lake	35°00'39"/111°22'41"
<u>LC</u>	Jacks Canyon	Headwaters to confluence with the Little Colorado River
<u>LC</u>	Jarvis Lake	33°58′59″/109°12′36″
<u>LC</u>	Kinnikinick Lake	34°53′53″/111°18′18″
L <u>C</u>	Knoll Lake	34°25'38"/111°05'1 <u>3"</u>
<u>LC</u>	Lake Mary, Lower	35°06'21"/111°34'38"
<u>LC</u>	Lake Mary, Upper	35°03'23"/111°28'34 <u>"</u>
<u>LC</u>	Lake of the Woods	34°09'40"/109°58'47"
<u>LC</u>	Lee Valley Creek (OAW)	Headwaters to Lee Valley Reservoir
<u>LC</u>	Lee Valley Reservoir	33°56′29″/109°30′04″
<u>LC</u>	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
<u>LC</u>	Leroux Wash, tributary to Little Colorado River	From Citv of Holbrook-Painted Mesa WRF outfall at 34° 54' 30°, -110° 11' 36" to Little Colorado River. The outfall discharges into Leroux Wash. All reaches of the Little Colorado River between the outfall to the Colorado River are perennial or intermittent.
L <u>C</u>	Little Colorado River, West Fork (OAW)	Headwaters to Government Springs
<u>LC</u>	Little George Reservoir	34°00'37"/109°19'15"
<u>LC</u>	Little Mormon Lake	34°17'00"/109°58'06"
L <u>C</u>	Long Lake, Lower	34°47′16″/111°12′40″

	Long Tom Tank	34°20'35"/110°49'22"
LC	Lower Walnut Canyon Lake (EDW)	<u>35°12'04"/111°34'07"</u>
LC	Marshall Lake	<u>35°07'18"/111°32'07"</u>
LC	McKay Reservoir	<u>34°01'27"/109°13'48"</u>
<u>LC</u>	Merritt Draw Creek	Headwaters to confluence with Barbershop Canyon Creek
LC	Mexican Hay Lake	34°01'58"/109°21'25"
LC	Milk Creek	Headwaters to confluence with Hulsey Creek
LC	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	34°53'37"/111°17'41 <u>"</u>
<u>LC</u>	Mud Lake	34°55′19″/111°21′29″
LC	Ned Lake (EDW)	34°17'17"/110°03'22"
<u>LC</u>	Norton Reservoir	34°03'57"/109°31'27"
LC	Paddy Creek	Headwaters to confluence with Nutrioso Creek
LC	Pierce Seep	34°23'39"/110°31'17"
LC	Pine Tank	34°46′49"/111°17′21"
	Pintail Lake (EDW)	34°18'05"/110°01'21"
<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"
<u>LC</u>	Reagan Reservoir	34°02'09"/109°08'41"
<u>LC</u>	Rio de Flag (EDW)	From City of Flagstaff WWTP outfall to the confluence with San Francisco Wash
<u>LC</u>	River Reservoir	34°02'01"/109°26'07"
LC	Rogers Reservoir	33°56'30"/109°16'20"
LC	Russel Reservoir	33°59′29″/109°20′01″
LC	San Salvador Reservoir	33°58'51"/109°19'55"
	Slade Reservoir	33°59′41″/109°20′26″
LC	Soldiers Annex Lake	34°47'15"/111°13'51"
LC	Soldiers Lake	34°47'47"/111°14'04"
LC	Spaulding Tank	34°30'17"/111°02'06"
LC	St Johns Reservoir (Little Reservoir)	34°29'10"/109°22'06"
LC	Telephone Lake (EDW)	34°17'35"/110°02'42"
LC	Tremaine Lake	34°46'02"/111°13'51"
LC	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 to Pierce Wash (EDW)	Bison Ranch WWTP outfall at 34°23'31"/110°31'29" to Pierce Seep

<u>LC</u>	Unnamed wash. tributary to Rio de Flag River (Bow and Arrow Wash)	Treated municipal wastewater is piped from the Rio de Flag WWTP through a city-wide reuse system to the main effluent stor- age pond that is in an unnamed wash.
LC	Walnut Creek	Headwaters to confluence with Billy Creek
<u>LC</u>	Water Canyon Creek	Headwaters to confluence with the Little Colorado River
	Whale Lake (EDW)	35°11'13"/111°35'21"
<u>LC</u>	Whipple Lake	34°16'49"/109°58'29"
<u>LC</u>	White Mountain Reservoir	34°00'12"/109°30'39"
<u>LC</u>	Willow Creek	Headwaters to confluence with Clear Creek
<u>LC</u>	Willow Springs Canyon Creek	Headwaters to confluence with Chevelon Creek
<u>LC</u>	Willow Springs Lake	34°18'13"/110°52'16"
LC	Woodland Reservoir	34°07'35"/109°57'01"
LC	Woods Canyon Creek	Headwaters to confluence with Chevelon Creek
<u>LC</u>	Woods Canyon Lake	34°20'09"/110°56'45"
M <u>G</u>	Agua Fria River	Headwaters to confluence with unnamed tributary at 34°35'14"/112°16'18"
M <u>G</u>	Aqua Fria River	Below Lake Pleasant to the City of El Mirage WWTP at ' 33°34'20"/112°18'32"
M <u>G</u>	Aqua 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	Aqua Fria River	From City of Avondale WWTP outfall to confluence with Gila River
MG	Agua Fria River (EDW)	Below confluence with unnamed tributary to State Route 169
MG	Agua Fria River (EDW)	From City of El Mirage WWTP outfall to 2 km downstream
M <u>G</u>	Andorra Wash	Headwaters to confluence with Cave Creek Wash
MG	Antelope Creek	Headwaters to confluence with Martinez Creek
MG	Arlington Canal	From Gila River at 33°20'54"/112°35'39" to Gila River at 33°13'44"/112°46'15"
MG	Arnett Creek	Headwaters to Queen Creek @ 33°16'43.24"/111°10'12.49"
M <u>G</u>	Ash Creek	Headwaters to confluence with Tex Canyon
MG	Beehive Tank	32°52'37"/111°02'20"
M <u>G</u>	Big Bug Creek	Headwaters to confluence with Eugene Gulch
M <u>G</u>	Big Bug Creek	Below confluence with Eugene Gulch to confluence with Agua Fria River
M <u>G</u>	Black Canyon Creek	Headwaters to confluence with the Agua Fria River
M <u>G</u>	Blind Indian Creek	Headwaters to confluence with the Hassayampa River
MG	Cash Gulch	Headwaters to Jersey Gulch @ 34°25'31.39"/112°25'30.96"
M <u>G</u>	Cave Creek	Headwaters to the Cave Creek Dam
MG	Cave Creek	Cave Creek Dam to the Arizona Canal
M <u>G</u>	Centennial Wash	Headwaters to confluence with the Gila River at 33°16'32"/112°48'08"

IndexIndexIndexMaxDurit WaitDurit WaitDurit WaitDurit WaitMaxDurit WaitDurit Construct with Maxas ToesDurit Construct with Maxas ToesMaxDurit ConstructDurit Construct with Maxas ToesDurit Construct with Maxas ToesMaxDurit Construct with Durit Wait Construct with Handware WaitDurit Construct with Handware WaitMaxDurit Construct with Durit Wait Construct with Handware WaitDurit Construct with Handware WaitMaxDurit Co	MG	Centennial Wash Ponds	33°54′52″/113°23′47″
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Image: Constraint of the second sec	MG	<u>Corgett Wash</u>	From Corgett Wash WRF outfall at 33°21'42", -112°27'05" to Gila River. The discharge point is 0.5 miles from the ephemeral conveyance Corgett Wash. The Gila River is then 1.5 miles downstream from Corgett Wash.
InteractInteractNGInteractInteractNGSeeke SelfSelectNGSelectSel	MG	Devils Canyon	Headwaters to confluence with Mineral Creek
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MG Indian Bend Wash Lakes Scottscale at 33°30'32''11''54'24" MG Indian School Park Lake Indian School Road & Hayden Road. Scottscale at 33°29'39'/11''54'37" MG Jersey Gulch Headwaters to Hassavampa River @ 34°25'40.16''/112°25'45.64" MG Jersey Gulch Bool South Mill Avenue. Tempe at 33°22'27''/11''56'22' MG Jersey Gulch Bool South Mill Avenue. Tempe at 33°22'27''/11''56'22' MG Jersey Gulch Bool South Mill Avenue. Tempe at 33°22'27''/11''56'22' MG Jersey Gulch Bool South Mill Avenue. Tempe at 33°22'27''/11''56'22' MG Jersey Gulch Bedwaters to confluence with Weaver Creek MG Jon Canyon Headwaters to confluence with Weaver Creek MG Jersey Gueck Headwaters to confluence with unnamed tributary at 34°34'29'/112''21'07'' MG Jvnx Creek Below confluence with unnamed tributary at 34°34'29'/112''21'07'' to confluence with Aqua Fria River MG Jvnx Lake Below confluence with unnamed tributary at 34°34'29'/112''21'07'' to confluence with Aqua Fria River	M <u>G</u>	Horsethief Lake	34°09'42"/112°17'57"
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MG Jersey Gulch Headwaters to Hassavampa River @ 34°25′40.16′/112°25′45.64″ MG Kiwanis Park Lake 6000 South Mill Avenue. Tempe at 33°22′27″/111°56′22″ MG Lake Pleasant Lower 33°50′32″/112°16′03″ MG Lion Canvon Headwaters to confluence with Weaver Creek MG Lynx Creek Below confluence with unnamed tributary at 34°34′29′/112°21′07″ MG Lynx Creek Below confluence with unnamed tributary at 34°34′29′/112°21′07″ to confluence with Agua Fria River MG Lynx Lake 34°31′07″/112°23′07″	MG	Indian Bend Wash Lakes	Scottsdale at 33°30'32"/111°54'24"
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MG Lynx Creek Headwaters to confluence with unnamed tributary at 34°34'29"/112°21'07" MG Lynx Creek Below confluence with unnamed tributary at 34°34'29"/112°21'07" to confluence with Agua Fria River MG Lynx Lake 34°31'07"/112°23'07"	MG	Lake Pleasant, Lower	33°50'32"/112°16'03"
MG Lynx Creek MG Lynx Lake 24°31'07"/112°23'07"	MG	Lion Canyon	Headwaters to confluence with Weaver Creek
MG <u>vnx Lake</u> 34°31'07"/112°23'07"	M <u>G</u>	Lynx Creek	Headwaters to confluence with unnamed tributary at 34°34′29″/112°21′07″
	MG	Lynx Creek	Below confluence with unnamed tributary at 34°34'29'/112°21'07" to confluence with Aqua Fria River
MG Martinez Canyon Headwaters to confluence with Box Canyon	MG	Lynx Lake	34°31'07"/112°23'07"
	MG	Martinez Canyon	Headwaters to confluence with Box Canyon

M <u>G</u>	Tule Creek	Headwaters to confluence with the Agua Fria River
M <u>G</u>	The Lake Tank	32°54'14"/111°04'15"
MG	Sycamore Creek	Below confluence with Tank Canyon to confluence with Agua Fria River
MG	Sycamore Creek	Headwaters to confluence with Tank Canyon
MG	Siphon Draw (EDW)	Superstition Mountains CFD WWTP outfall at 33°21'40"/111°33'30" to 6 km downstream
MG	Salt River (EDW)	From City of Phoenix 23rd Avenue WWTP outfall to confluence with Gila River
M <u>G</u>	Salt River (EDW)	City of Mesa NW WRF outfall to Tempe Town Lake
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	Below Tempe Town Lake to Interstate 10 bridge
MG	Salt River	2 km below Granite Reef Dam to City of Mesa NW WRF outfall at 33°26'22"/111°53'14"
M <u>G</u>	Queen Creek (EDW)	Below Town of Superior WWTP outfall to confluence with Potts Canyon
MG	Queen Creek	Below Whitlow Dam to confluence with Gila River
MG	Queen Creek	Below Potts Canyon to ' Whitlow Dam
MG	Queen Creek	Headwaters to the Town of Superior WWTP outfall at 33°16'33'/111°07'44"
M <u>G</u>	Poland Creek	Below confluence with Lorena Gulch to confluence with Black Canyon Creek
M <u>G</u>	Poland Creek	Headwaters to confluence with Lorena Gulch
MG	Picacho Reservoir	32°51'10"/111°28'25"
MG	Phoenix Area Canals	Below municipal WTP intakes and all other locations
MG	Phoenix Area Canals	Granite Reef Dam to all municipal WTP intakes
MG	Perry Mesa Tank	<u>34°11'03"/112°02'01"</u>
MG	Papago Park Ponds	Galvin Parkway, Phoenix at 33°27'15"/111°56'45"
MG	Painted Rock Reservoir	<u>33°04'23"/113°00'38"</u>
M <u>G</u>	New River	Below Interstate 17 to confluence with Agua Fria River
		Headwaters to Interstate 17 at 33°54'19.5"/112°08'46"
MG		Headwaters to Unnamed Trib (UB1)
MG	Minnehaha Creek	Headwaters to confluence with the Hassavampa River
MG		End of diversion channel to confluence with Gila River
MG	Mineral Creek	Headwaters to 33°12'34"/110°59'58"
MG	McMicken Wash (EDW)	City of Peoria Jomax WWTP outfall at 33°43'31"/ 112°20'15" to confluence with Agua Fria River
MG	McKellips Park Lake	Miller Road & McKellips Road. Scottsdale at 33°27'14"/111°54'49"
M <u>G</u>	Martinez Creek	Headwaters to confluence with the Hassayampa River

MG	Turkey Creek	Below confluence with unnamed tributary to confluence with Poland Creek
M <u>G</u>	Unnamed Trib (UQ2) to Queen Creek	Headwaters to Queen Creek @ 33°18'26.15'/111°04'19.3"
MG	Unnamed Trib (UQ3) to Queen Creek	Headwaters to Queen Creek @ 33°18'33.75"/111°04'02.61"
MG	Unnamed Trib to Big Bug Creek (UB1)	Headwaters to Big Bug Creek @ 34°25'38.86"/112°22'29.32"
MG	Unnamed Trib to Eugene Gulch	Headwaters to Eugene Gulch @ 34°27'34.6"/112°20'24.53"
M <u>G</u>	Unnamed Trib to Lynx Creek	Headwaters to Superior Mining Div. Outfall @ Lynx Creek @ 34°27'10.57"/112°23'14.22"
MG	Unnamed tributary to Deadman's Wash	From EPCOR Water Anthem Water Campus WWTP outfall at 33° 50' 47.9", -112° 08' 25.6" to Deadman's Wash
MG	Unnamed tributary to Gila River (EDW)	Gila Bend WWTP outfall to confluence with the Gila River
MG	Unnamed tributary to Gila River (EDW)	North Florence WWTP outfall at 33°03'50"/ 111°23'13" to confluence with Gila River
M <u>G</u>	Unnamed tributary to the Agua Fria River	From Softwinds WWTP outfall at 34' 32' 43", -112' 14' 21" to the Agua Fria River. Discharges to Agua Fria which is a jurisdic- tional tributary to Lake Pleasant (TNW)
MG	Unnamed tributary to Winters Wash	From Balterra WWTP outfall at 33? 29' 45", -112? 55' 10" to Winters Wash
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)	Town of Prescott Valley WWTP outfall at34°35'16"/ 112°16'18" to confluence with the Agua Fria River
M <u>G</u>	Unnamed Wash (EDW)	Town of Cave Creek WRF outfall at 33°48'02"/ 111°59'22" to confluence with Cave Creek
MG	Unnamed wash, tributary to Black Canyon Creek	From Black Canyon Ranch RV Resort WWTP outfall to Agua Fria River.
M <u>G</u>	Unnamed wash, tributary to Queen Creek	Queen Creek, AZ15050100-013B is closest WBID to outfall coordinates
M <u>G</u>	Unnamed wash, tributary to Waterman Wash	The Rainbow Valley outfall discharges to an unnamed wash to Waterman wash to the Gila River.
M <u>G</u>	Wagner Wash (EDW)	City of Buckeye Festival Ranch WRF outfall at 33°39'14"/112°40'18" to 2 km downstream
M <u>G</u>	Walnut Canyon Creek	Headwaters to confluence with the Gila River
M <u>G</u>	Weaver Creek	Headwaters to confluence with Antelope Creek, tributary to Martinez Creek
M <u>G</u>	White Canyon	Headwaters to confluence with Walnut Canyon Creek
MG	Yavapai Lake (EDW)	Town of Prescott Valley WWTP outfall 002 at 34°36'07"/112°18'48" to Navajo Wash
<u>sc</u>	Aqua 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

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Sec Number Sector Sect	<u>SC</u>	Alamo Wash	Headwaters to confluence with Rillito Creek
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India and the second	<u>sc</u>	Davidson Canyon (OAW)	Below confluence with unnamed tributary to unnamed spring at 32°00'40"/110°38'36"
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Image: ControlImage: ControlSCEmpire GulchErom 31*47057/110*36*58* to confluence with Cienega CreekSCElux CanyonHeadwaters to confluence with Alum GulchSCSardner Canyon CreekHeadwaters to confluence with Alum GulchSCGardner Canyon CreekBelow Sawmill Canyon to confluence with Cienega CreekSCGardner Canyon CreekSanta Cruz River to the Tohono O'odham Indian Reservation boundary.SCGreene WashSonta Cruz River to the Tohono O'odham Indian Reservation boundary.SCGreene WashTohono O'odham Indian Reservation boundary to confluence with Santa Rosa Wash at 32*53'52"/ 111*5648"SCHarshaw CreekHeadwaters to confluence with Sonoita Creek atSCHit Tank32*43'57"/111*03'18"	<u>sc</u>	Empire Gulch	From 31°47'18"/110°38'17" to 31°47'03"/110°37'35"
SC Fux Canyon Headwaters to confluence with Alum Gulch SC Gardner Canyon Creek Headwaters to confluence with Sawmill Canyon SC Gardner Canyon Creek Below Sawmill Canyon to confluence with Cienega Creek SC Gardner Canyon Creek Below Sawmill Canyon to confluence with Cienega Creek SC Greene Wash Santa Cruz River to the Tohono O'odham Indian Reservation boundary. SC Greene Wash Tohono O'odham Indian Reservation boundary to confluence with Santa Rosa Wash at 32°53'52'', 111°56'48'' SC Harshaw Creek Headwaters to confluence with Sonoita Creek at SC Hit Tank 32°4357''/111°03'18''	<u>sc</u>	Empire Gulch	From 31°47′03″/110°37′35″ to 31°47′05″/ 110°36′58″
SC Gardner Canyon Creek Headwaters to confluence with Sawmill Canyon SC Gardner Canyon Creek Below Sawmill Canyon to confluence with Cienega Creek SC Gardner Canyon Creek Santa Cruz River to the Tohono O'odham Indian Reservation boundary. SC Greene Wash Cohono O'odham Indian Reservation boundary. SC Greene Wash Lohono O'odham Indian Reservation boundary to confluence with Santa Rosa Wash at 32°53'52"/ 111°56'48" SC Harshaw Creek Headwaters to confluence with Sonoita Creek at SC Hit Tank 32°43'57"/111°03'18"	<u>sc</u>	Empire Gulch	From 31°47'05"/110°36'58" to confluence with Cienega Creek
SC Greene Wash Santa Cruz River to the Tohono O'odham Indian Reservation boundary. SC Greene Wash Santa Cruz River to the Tohono O'odham Indian Reservation boundary. SC Greene Wash Tohono O'odham Indian Reservation boundary to confluence with Santa Rosa Wash at 32°53'52"/ 111°56'48" SC Harshaw Creek Headwaters to confluence with Sonoita Creek at SC Hit Tank 32°43'57"/111°03'18"	<u>sc</u>	Flux Canyon	Headwaters to confluence with Alum Gulch
SC Greene Wash Santa Cruz River to the Tohono O'odham Indian Reservation boundary. SC Greene Wash Tohono O'odham Indian Reservation boundary to confluence with Santa Rosa Wash at 32°53'52"/ 111°56'48" SC Harshaw Creek Headwaters to confluence with Sonoita Creek at SC Hit Tank 32°43'57"/111°03'18"	<u>sc</u>	Gardner Canyon Creek	Headwaters to confluence with Sawmill Canyon
SC Greene Wash Tohono O'odham Indian Reservation boundary to confluence with Santa Rosa Wash at 32°53'52"/ 111°56'48" SC Harshaw Creek Headwaters to confluence with Sonoita Creek at SC Hit Tank 32°43'57"/111°03'18"	<u>sc</u>	Gardner Canyon Creek	Below Sawmill Canyon to confluence with Cienega Creek
SC Harshaw Creek SC Hit Tank SC Hit Tank	<u>sc</u>	Greene Wash	Santa Cruz River to the Tohono O'odham Indian Reservation boundary
SC Hit Tank 32°43'57"/111°03'18"	<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
SC Holden Canyon Creek Headwaters to U.S./Mexico border	<u>sc</u>	Hit Tank	32°43'57"/111°03'18"
	<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>	Humboldt Canyon	Headwaters to Alum Gulch @ 31°28'25.84"/110°44'01.57"
<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 Canvon Creek	Below unnamed tributary at 31°43'42"/110°52'51 to confluence with the Santa Cruz River
<u>sc</u>	Mattie Canvon	Headwaters to confluence with Cienega 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 Lake	31°25'35"/110°27'15"
<u>sc</u>	Patagonia Lake	31°2956"/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>	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 Creek	Headwaters to 32°23'20"/110°47'06"
<u>sc</u>	Sabino Creek	Below 32°23'20"/110°47'06" to confluence with Tanque Verde River
<u>sc</u>	Salero Ranch Tank	31°3543"/110°53'25"
<u>sc</u>	Santa Cruz River	Headwaters to the at U.S./Mexico border
<u>sc</u>	Santa Cruz River	Baumgartner Road to the Ak Chin Indian Reservation boundary

<u>sc</u>	Santa Cruz River (EDW)	Nogales International WWTP outfall to the Tubac Bridge
<u>sc</u>	Santa Cruz River, West Branch	Headwaters to the confluence with Santa Cruz River
<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	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
<u>sc</u>	Sycamore Reservoir	<u>32°20'57'/110°47'38"</u>
<u>sc</u>	Tanque Verde Creek	Headwaters to Houghton Road
<u>sc</u>	Tanque Verde Creek	Below Houghton Road to confluence with Rillito Creek
<u>sc</u>	Three R Canyon	Headwaters to Unnamed Trib to Three R Canyon at 31°28'26"/110°46'04"
<u>sc</u>	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
<u>sc</u>	Tinaja Wash	Headwaters to confluence with the Santa Cruz River
<u>sc</u>	Unnamed Trib (Endless Mine Tributary) to Harshaw Creek	Headwaters to Harshaw 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>	Unnamed Wash to Canada Del Oro (EDW)	Oracle Sanitary District WWTP outfall at 32°36'54"/ 110°48'02" to 5 km downstream
<u>sc</u>	Unnamed Wash to Canada del Oro (EDW)	Saddlebrook WWTP outfall at 32°32'00"/110°53'01" to confluence with Cañada del Oro
<u>sc</u>	Unnamed Wash to Santa Cruz Wash (EDW)	Arizona City Sanitary District WWTP outfall at 32°45′43″/111°44′24″ to confluence with Santa Cruz Wash
<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 Reserva- tions

<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>SP</u>	Abbot Canyon	Headwaters to confluence with Whitewater Draw
<u>SP</u>	Aravaipa Creek	Headwaters to confluence with Stowe Gulch
<u>SP</u>	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 Tank	32°24'00"/110°13'00"
<u>SP</u>	Blacktail Pond	Fort Huachuca Military Reservation at 31°31'04"/110°24'47", headwater lake in Blacktail Canyon
<u>SP</u>	Booger Canyon	Headwaters to confluence with Aravaipa Creek
<u>SP</u>	Brewery Gulch	Headwaters to Mule Gulch @ 31°26'27.88"/109°54'48.1"
<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	Below confluence with unnamed tributary to confluence with San Pedro River
<u>SP</u>	Buehman Canvon Creek (OAW)	Headwaters to confluence with unnamed tributary at 32°24'54"/110°32'10"
<u>SP</u>	Bullock Canyon	Headwaters to confluence with Buehman Canyon
<u>SP</u>	Carr Canvon 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>	Curry Draw	Headwaters to 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>	Dry Canyon	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 Canyon 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"
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<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>	Gravel Pit Pond	Fort Huachuca Military Reservation at 31°30'52"/ 110°19'49"
<u>SP</u>	Greenbush Draw	From U.S./Mexico border to confluence with San Pedro River
<u>SP</u>	Greenbush Draw	From City of Bisbee San Jose WWTP outfall at 31° 20' 35.4°, -109' 56' 10.2° to San Pedro River. The City of Bisbee San Jose WWTP outfall discharges to Greenbush Draw.
<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	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>	Leslie Creek	Headwaters to confluence with Whitewater Draw
<u>SP</u>	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>	Montezuma Creek	Headwaters to Mexico Border @ 31°20'01.87"/110°13'40.97"
<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 Guich	The Lavender Pit to the' Highway 80 bridge at 31°26'30"/109°49'28"
<u>SP</u>	Mule Guich	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	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>	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>	Soto Canyon	Headwaters to confluence with Dixie Canyon
<u>SP</u>	Swamp Springs Canyon Creek	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 Mt. Lemmon (EDW)	Mt. Lemmon WWTP outfall at 32°26'51"/110°45'08" to 0.25 km downstream
<u>SP</u>	Virgus Canyon	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	Tombstone Wash to confluence with San Pedro River
<u>SP</u>	Walnut Gulch (EDW)	Tombstone WWTP outfall to the confluence with Tombstone Wash
<u>SP</u>	Woodcutters Pond	Fort Huachuca Military Reservation at 31°30'09"/ 110°20'12"
<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
<u>SR</u>	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, 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>	Big Lake	33°52'36"/109°25'33"
<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>	Boulder Creek	Headwaters to confluence with LaBarge Creek
<u>sr</u>	Campaign Creek	Headwaters to Roosevelt Lake
<u>SR</u>	Canyon Creek	Headwaters to the White Mountain Apache Reservation boundary
<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
<u>SR</u>	Cherry Creek	Headwaters to confluence with unnamed tributary at 34°05'09"/110°56'07"
<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"

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<u>SR</u>	Cold Spring Canyon Creek	Below confluence with unnamed tributary to confluence with Cherry Creek
<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
<u>SR</u>	Coyote Creek	Headwaters to confluence with the Black River, East Fork
<u>SR</u>	Deer Creek (D2E)	Headwaters to confluence with the Black River, East Fork
<u>SR</u>	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>	Dipping Vat Reservoir	<u>33°55'47"/109°25'31"</u>
SR	Double Cienega Creek	Headwaters to confluence with Fish Creek
SR	Fish Creek	Headwaters to confluence with the Salt River
<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"
<u>SR</u>	Gold Creek	Headwaters to confluence with unnamed tributary at 33°59'47"/111°25'10"
<u>SR</u>	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
<u>SR</u>	Home 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>	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>	<u>Miami Wash</u>	Headwaters to confluence with Pinal Creek
<u>SR</u>	Mule Creek	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>	Pinal Creek	Headwaters to confluence with unnamed EDW wash (Globe WWTP) at 33°25'29"/110°48'20"
<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"
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<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 (EDW)	Confluence with unnamed EDW wash (Globe WWTP) to 33°25′29″/110°48′20″
<u>SR</u>	Pine Creek	Headwaters to confluence with the Salt River
<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
<u>SR</u>	Reservation Creek	Headwaters to confluence with the Black River
<u>SR</u>	Reynolds Creek	Headwaters to confluence with Workman Creek
<u>SR</u>	Russell Gulch	From Headwaters to confluence with Miami Wash
<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>	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>	<u>Stinky Creek (OAW)</u>	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>	Turkey Creek	Headwaters to confluence with Rock Creek
<u>SR</u>	Unnamed trib to Black River North Fork East Fork	Headwaters to Black River NF of EF
<u>SR</u>	Wildcat Creek	Headwaters to confluence with Centerfire Creek
<u>SR</u>	Workman Creek	Below confluence with Reynolds Creek to confluence with Salome Creek
<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
UG	Bennett Wash	Headwaters to the Gila River
<u>UG</u>	Buckelew Creek	Headwaters to confluence with Castle Creek
<u>UG</u>	Castle Creek	Headwaters to confluence with Campbell Blue Creek
<u>UG</u>	Cave Creek	Below Coronado National Forest boundary to New Mexico border
U <u>G</u>	Chase Creek	Headwaters to the Phelps-Dodge Morenci Mine
<u>ug</u>	Chase Creek	Below the Phelps-Dodge Morenci Mine to confluence with San Francisco River
UG	Chitty Canyon Creek	Headwaters to confluence with Salt House Creek
UG	Cima Creek	Headwaters to confluence with Cave Creek
<u>UG</u>	Cluff Reservoir #1	<u>32°48'55"/109°50'46"</u>
<u>UG</u>	Cluff Reservoir #3	<u>32°48'21"/109°51'46"</u>
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UG	Coleman Creek	Headwaters to confluence with Campbell Blue Creek
U <u>G</u>	Dankworth Lake	32°43'13"/109°42'17"
<u>UG</u>	Deadman Canyon Creek	Below confluence with unnamed tributary to confluence with Graveyard Wash
UG	Eagle Creek	Headwaters to confluence with unnamed tributary at 33°22'32"/109°29'43"
UG	East Eagle Creek	Headwaters to confluence with Eagle Creek
<u>UG</u>	East Turkey Creek	Headwaters to confluence with unnamed tributary at 31°58'22"/109°12'20"
<u>UG</u>	East Turkey Creek	Below confluence with unnamed tributary to terminus near San Simon River
UG	East Whitetail	Headwaters to terminus near San Simon River
UG	Emigrant Canyon	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 to terminus at Highline Canal.
UG	Frye Mesa Reservoir	32°45′14″/109°50′02″
U <u>G</u>	Georges Tank	33°51'24"/109°08'30"
UG	Gibson Creek	Headwaters to confluence with Marijilda Creek
UG	Lanphier Canyon	Headwaters to confluence with the Blue River
UG	Little Blue Creek	Headwaters to confluence with Dutch Blue Creek
<u>UG</u>	Little Creek	Headwaters to confluence with the San Francisco River
UG	Marijilda Creek	Headwaters to confluence with Gibson Creek
<u>UG</u>	Marijiilda 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 <u>G</u>	Roper Lake	32°45′23″/109°42′14″
U <u>G</u>	Sheep Tank	32°46′14″/109°48′09″
UG	Smith Pond	32°4915"/109°50'36"
UG	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
UG	Thomas Creek	Headwaters to confluence with Rousensock Creek
<u>UG</u>	Tinny Pond	33°47'49"/109°04'27"
<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>	Banning Creek	Headwaters to Granite Creek @ 34°31'01.02"/112°28'37.63"
<u>VR</u>	Bar Cross Tank	35°00'41"/112°05'39"
<u>VR</u>	Barrata Tank	35°02'43"/112°24'21"
VR	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>	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
<u>VR</u>	Bray Creek	Headwaters to confluence with Webber Creek
<u>VR</u>	Butte Creek	Headwaters to Miller Creek @ 34°32'49.03"/112°28'29.3"
<u>VR</u>	Camp Creek	Headwaters to confluence with Verde River
<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
<u>VR</u>	Clover Creek	Headwaters to confluence with Headwaters of West Clear Creek
<u>VR</u>	Coffee Creek	Headwaters to confluence with Spring Creek
<u>VR</u>	Colony Wash	Headwaters to the Fort McDowell Indian Reservation boundary
<u>VR</u>	Deadman Creek	Headwaters to Horseshoe Reservoir
<u>VR</u>	Del Monte Gulch	Headwaters to confluence with City of Cottonwood WWTP outfall 002 at 34°43'57"/112°02'46"
<u>VR</u>	Del Monte Gulch (EDW)	City of Cottonwood WWTP outfall 002 at 34°43'57"/ 112°02'46" to confluence with Verde River
VR	Del Rio Dam Lake	34°48'55"/112°28'03"
VR	Dry Beaver Creek	Headwaters to confluence with Beaver Creek
<u>VR</u>	Dry Creek (EDW)	Sedona Ventures WWTP outfall at 34°50'42"/ 111°52'26" to 34°50'02"/ 111°52'17"
VR	Dude Creek	Headwaters to confluence with the East Verde River
VR	Ellison Creek	Headwaters to confluence with the East Verde River
<u>VR</u>	Foxboro Lake	34°53'42"/111°39'55"
<u>VR</u>	Fry Lake	35°03'45"/111°48'04 <u>"</u>
<u>VR</u>	Gap Creek	Headwaters to confluence with Government Spring
<u>VR</u>	Gap Creek	Below Government Spring to confluence with the Verde River
<u>VR</u>	Garrett Tank	35°18'57"/112°42'20"
<u>VR</u>	Goldwater Lake, Lower	34°29'56"/112°27'17"

VR	Goldwater Lake, Upper	34°29'52"/112°26'59"
<u>VR</u>	Government Canyon	Headwaters to Granite Creek @ 34°33'29.49"/112°26'53.18"
<u>VR</u>	Granite Basin Lake	34°37'01"/112°32'58"
<u>VR</u>	Granite Creek	Headwaters to Watson Lake
<u>VR</u>	Granite Creek	Below Watson Lake to confluence with the Verde River
<u>VR</u>	Green Valley Lake (EDW)	34°13'54"/111°20'45 <u>"</u>
<u>VR</u>	Heifer Tank	35°20'27"/112°32'59"
<u>VR</u>	Hells Canyon Tank	35°04'59"/112°24'07"
<u>VR</u>	Homestead Tank	35°21'24"/112°41'36"
<u>VR</u>	Horse Park Tank	34°58'15"/111°36'32"
<u>VR</u>	Houston Creek	Headwaters to confluence with the Verde River
<u>VR</u>	Huffer Tank	34°27'46"/111°23'11"
<u>VR</u>	J.D. Dam Lake	35°04'02"/112°01'48"
<u>VR</u>	Jacks Canyon	Headwaters to Big Park WWTP outfall at 34°45′46″/ 111°45′51″
<u>VR</u>	Jacks Canyon (EDW)	Below Big Park WWTP outfall to confluence with Dry Beaver Creek
<u>VR</u>	Lime Creek	Headwaters to Horseshoe Reservoir
<u>VR</u>	Mail Creek	Headwaters to East Verde River @ 34°25'03.88"/111°15'49.6"
<u>VR</u>	Manzanita Creek	Headwaters to Granite Creek @ 34°31'31.19"/112°28'44.34"
<u>VR</u>	Masonry Number 2 Reservoir	35°13'32"/112°24'10"
<u>VR</u>	McLellan Reservoir	35°13'09"/112°17'06"
<u>VR</u>	<u>Meath Dam Tank</u>	35°07'52"/112°27'35"
<u>VR</u>	Miller Creek	Headwaters to Granite Creek @ 34°32'48.55"/112°28'12.96"
<u>VR</u>	Mullican Place Tank	34°44'16"/111°36'10"
<u>VR</u>	Munds Creek (EDW), Tributary to Oak Creek	From Pinewood Sanitary District Kay S. Blackman WWTP outfall at 34? 56' 09", -111? 38' 35" to Oak Creek.
<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>	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"
		Below confluence with unnamed tributary to confluence with East Verde River
<u>VR</u>	Pine Creek	
	Pine Creek Red Creek	Headwaters to confluence with the Verde River
VR		

VR	Roundtree Canyon Creek	Headwaters to confluence with Tangle Creek
<u>VR</u>	Scholze Lake	35°11'53"/112°00'37"
<u>VR</u>	Slaugterhouse Gulch	Headwaters to Yavapai Res. Boundary
<u>VR</u>	Spring Creek	Headwaters to confluence with unnamed tributary at 34°57'23"/111°57'21"
<u>VR</u>	Steel Dam Lake	35°13'36"/112°24'54"
<u>VR</u>	Stehr Lake	34°22'01"/111°40'02"
<u>VR</u>	Stoneman Lake	34°46′47″/111°31′14″
<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 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 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>	Unnamed Wash	Flagstaff Meadows WWTP outfall at 35°13'53.54"/ 111°48'40.32" to Volunteer Wash
<u>VR</u>	Walnut Creek	Headwaters to confluence with Big Chino Wash
<u>VR</u>	Watson Lake	34°34′58″/112°25′26″
<u>VR</u>	Webber Creek	Headwaters to confluence with the East Verde River
<u>VR</u>	Wet Beaver Creek	Headwaters to unnamed springs at 34°41'17"/ 111°34'34"
<u>VR</u>	Whitehorse Lake	35°06′59″/112°00′48″
<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
VR	Williscraft Tank	35°11'22"/112°35'40"
VR	Willow Creek	Above Willow Creek Reservoir
<u>VR</u>	Willow Valley Lake	34°41'08"/111°20'02"

R18-11-217. 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 waters that materially impact (i.e., are within ¼ mile upstream of) non-WOTUS protected surface waters, 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. <u>Control measures have been undertaken, i.e., equipment and material easily transported by flow are protected within nonerodible barriers or moved outside the flow area.</u>
- 4. <u>Silt laden or turbid water resulting from regulated activities should be managed in a manner to reduce sediment load prior to discharging.</u>
- 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 waste 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: 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.
 - 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.
- **<u>F.</u>** 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 pre-cast 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.
 - <u>4.</u> 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:
 - <u>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.</u>
 - 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. The owner or operator of any regulated activities shall, five days prior to initiation of the regulated activities, submit a notice to ADEQ on a form that includes basic information including the GPS location, the waterbody ID of the nearest non-WOTUS protected surface water, general description of planned activities, types of BMPs to be employed during the project, and phone number and email for a contact person. Work may proceed after five calendar days have passed since the owner/operator provided notification to ADEQ unless ADEQ responds in writing to the contact person for the owner/operator.
- L. Exclusions: The BMPS and notification requirements in this section shall not apply to:
 - 1. Activities that are already regulated under A.R.S. Title 49.
 - 2. Discharges to a non-WOTUS protected surface water incidental to a recharge project.
 - 3. 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.

- <u>Maintenance but not construction of drainage ditches.</u> <u>Construction and maintenance of irrigation ditches.</u> <u>Maintenance of structures as dams, dikes, and levees.</u> <u>4.</u> <u>5.</u> <u>6.</u>

NOTICES OF EXPIRATION OF RULES UNDER A.R.S. §§ 41-1056(J) OR 41-1052(M)

This section of the *Arizona Administrative Register* contains Notices of Expiration of Rules under A.R.S. §§ 41-1056(J) and 41-1052(M).

Under § 41-1056(J), if an agency does not file a fiveyear rule review report with the Governor's Regulatory Review Council (Council), including, when applicable, a revised report; or if an agency does not file an extension before the due date of the report; or if an agency files an extension but does not submit a report within the extension period; the rules scheduled for review expire and are no longer enforceable.

Under § 41-1052(M), an agency that seeks to expire a rule or rules may file a notice of intent to expire with the Council.

The Council prepares these notices, which list expired rules, and the notices are filed with the Office for publication in the *Register*. The rules are then removed from the *Code* Chapter as specified in the notice.

NOTICE OF EXPIRATION OF RULES UNDER A.R.S. § 41-1056(J)

GOVERNOR'S REGULATORY REVIEW COUNCIL

DEPARTMENT OF HEALTH SERVICES EMERGENCY MEDICAL SERVICES

[R23-05]

1. Agency name:

2. <u>Title and its heading:</u>

3. Chapter and its heading:

4. Article and its heading:

9, Health Services

- 25, Department of Health Services Emergency Medical Services
- 13, Trauma Centers and Trauma Registries

Arizona Department of Health Services

As required by A.R.S. § 41-1056(J), the Council provides notice that the following rule expired as of January 4, 2023:

R9-25-1303.01:

Health Care Institutions with Provisional Designation (A.R.S. §§ 36-2202(A)(4), 36-2209(A)(2), and 36-2225(A)(4))

Signature of Nicole Sornsin Nicole Sornsin Council Chair January 4, 2023 Date

[R23-06]

NOTICES OF RULEMAKING DOCKET OPENING

This section of the *Arizona Administrative Register* contains Notices of Rulemaking Docket Opening under A.R.S. § 41-1021.

A docket opening is the first part of the administrative rulemaking process. It is an "announcement" that an agency intends to work on its rules.

When an agency opens a rulemaking docket to consider rulemaking, the Administrative Procedure Act (APA) requires publication of the Notice of Rulemaking Docket Opening in the Register. Under the APA, effective January 1, 1995, agencies must submit a Notice of Rulemaking Docket Opening before beginning the formal rulemaking process. An agency may file the Notice of Rulemaking Docket Opening along with the Notice of Proposed Rulemaking.

The Office of the Secretary of State is the filing office and publisher of these notices. Questions about the interpretation of this information should be directed to the agency contact person listed in item #4 of this notice.

NOTICE OF RULEMAKING DOCKET OPENING TITLE 4. PROFESSIONS AND OCCUPATIONS CHAPTER 30. BOARD OF TECHNICAL REGISTRATION

 1. Title and its heading:
 4, Professions and Occupations

 Chapter and its heading:
 30,Board of Technical Registration

 Article and its heading:
 1, General Provisions

 2, Registration Provisions
 2, Regulatory Provisions

 Section numbers:
 R4-30-102, R4-30-247, R4-30-301.01 (Sections may be added, deleted or modified, as needed)

2. The subject matter of the proposed rule:

The Board opens this docket to amend three existing rules; first, to replace the requirement that a parallel inspector provide a signed affidavit, requiring a notary, with a requirement to provide a signed affirmation, which does not require a notary, in A.A.C. R4-30-102(2), second, add additional language to A.A.C. R4-30-247(C)(4) clarifying that a home inspector applicant need only provide a detailed explanatory statement regarding disciplinary action, license denial or a conviction if it occurred within the last five years immediately preceding the application, and third, to update the Standards of Professional Practice adoption date so the Board references the most current standards in R4-30-301.01(A) and add section (5) to R4-30-301.01(B) stipulating that a home inspector cannot perform or offer to perform a home inspection while also acting as a real estate agent or broker.

3. A citation to all published notices relating to the proceeding:

None

4. The name and address of agency personnel with whom persons may communicate regarding the rule:

Kurt Winter, Deputy Director
Board of Technical Registration 1110 W. Washington, Suite 240
Phoenix, AZ 85007
(602) 364-4883
(602) 364-4931
Kurt.winter@azbtr.gov

5. <u>The time during which the agency will accept written comments and the time and place where oral comments</u> <u>may be made:</u>

The Board will accept written, oral, or emailed comments from 8:00 a.m. to 5:00 p.m., Monday through Friday, at 1110 Washington Street, Suite 240, Phoenix, AZ 85007, for 30 days from the publication of the Notice of Proposed Rulemaking (which has not yet been published), or until the close of the record, whichever is later.

6. <u>A timetable for agency decisions or other action on the proceeding, if known:</u>

The Board will conduct an oral proceeding to receive and record any comments from the public while the record is open. At a subsequent Board meeting, the Board shall review and discuss all received written and oral comments and determine whether to make technical corrections and non-substantial amendments. If the Board does not make any technical corrections and amendments, the Board shall close the record and proceed with the rulemaking process. Otherwise, it will file a Notice of Supplemental Proposed Rulemaking to the Secretary of State and proceed with a new comment period.

NOTICE OF RULEMAKING DOCKET OPENING

TITLE 20. COMMERCE, FINANCIAL INSTITUTIONS, AND INSURANCE

CHAPTER 4. DEPARTMENT OF INSURANCE AND FINANCIAL INSTITUTIONS FINANCIAL INSTITUTIONS

[R23-07]

<u>1.</u>	Title and its heading:	20, Commerce, Financial Institutions, and Insurance				
	Chapter and its heading:	 Department of Insurance and Financial Institutions - Financial Institutions 				
	Article and its heading:	2, Bank Organization and Regulation				
	Section numbers:	R20-4-201, R20-4-202, R20-4-206, R20-4-207, R20-4-209, R20-4-211, R20-4-214, and R20-4-215 (Sections may be added, deleted or modified, as necessary)				

2. The subject matter of the proposed rule:

The subject matter of these rules is the licensing and regulation of corporations holding an Arizona banking permit issued by the Financial Institutions Division of the Department of Insurance and Financial Institutions ("Department"). The rules augment the statutory sections regulating Banks found at Title 6, A.R.S. §§ 6-181 through 6-275, and 6-351 through 6-395.15.

This rulemaking amends Article 2 (Bank Organization and Regulation) as follows:

- R20-4-201 will be amended to replace "Superintendent" with "Director," and to remove the requirement to provide a copy of amendments to the licensee's Articles of Incorporation stamped by the Arizona Corporation Commission.
- R20-4-202 will be amended to replace "Superintendent" with "Director."
- R20-4-206 will be amended to update the chart for lower and upper limits for basic bond coverage and the amount of an excess fidelity bond.
- R20-4-207 will be amended to replace "Superintendent" with "Director."
- R20-4-209 will be amended to replace "Superintendent" with "Director."
- R20-4-211 will be amended to replace "Superintendent" with "Director."
- R20-4-214 will be amended to place the current lists into more readable tables, to allow electronic recordkeeping, and to update the language to conform to rule writing standards.
- R20-4-215 will be amended to change "All banks" to "each bank" for clarity.

3. A citation to all published notices relating to the proceeding:

Notice of Proposed Rulemaking: 29 A.A.R. 267, January 27, 2023 (in this issue)

4. The name and address of agency personnel with whom persons may communicate regarding the rule:

Name:	Mary Kosinski
Address:	Arizona Department of Insurance and Financial Institutions 100 N. 15th Ave., Suite 261 Phoenix, AZ 85007-2630
Telephone:	(602) 364-3476
Email:	mary.kosinski@difi.az.gov

5. The time during which the agency will accept written comments and the time and place where oral comments may be made: To be determined.

- To be determined.
- 6. <u>A timetable for agency decisions or other action on the proceeding, if known:</u> To be determined.

NOTICE OF RULEMAKING DOCKET OPENING

TITLE 20. COMMERCE, FINANCIAL INSTITUTIONS, AND INSURANCE

CHAPTER 4. DEPARTMENT OF INSURANCE AND FINANCIAL INSTITUTIONS FINANCIAL INSTITUTIONS

[R23-08]

<u>1.</u>	Title and its heading:	20, Commerce, Financial Institutions, and Insurance				
	Chapter and its heading:	 Department of Insurance and Financial Institutions - Financial Institutions 				
	Article and its heading:	8, Trust Companies				
	Section numbers:	R20-4-801, R20-4-805 through R20-4-816 (Sections may be added, deleted or modified, as necessary)				

2. The subject matter of the proposed rule:

The subject matter of these rules is the licensing and regulation of trust companies by the Financial Institutions Division of the Department of Insurance and Financial Institutions ("Department"). The rules augment the statutory sections regulating trust business found at Title 6, A.R.S. §§ 6-381 through 6-386 (banks), 6-434(A) and 6-446(B)(7) (savings and loan associations), and 6-851 through 6-882 (trust companies).

This rulemaking amends 13 rules in Article 8 (Trust Companies) as follows:

- R20-4-801 will be amended to remove the definition for "Superintendent" and add a definition for "Director," and to correct a statutory reference in a definition.
- R20-4-805 will be amended to replace "Superintendent" with "Director," and to add "subsections" before listed subsection numbers.
- R20-4-806 will be amended to allow an electronic recordkeeping system, and to remove the requirement for originals of certain documents.
- R20-4-807 will be amended to replace "Superintendent" with "Director," and to add "Sections" before listed Section numbers.
- R20-4-808 will be amended for clarity.
- R20-4-809 will be amended for clarity.
- R20-4-810 will be amended to remove unnecessary punctuation.
- R20-4-811 will be amended to correct a statutory reference (committed to in a 2019 Five-Year Review Report), and to add "Section" before a listed Section number.
- R20-4-812 will be amended to replace "Superintendent" with "Director."
- R20-4-813 will be amended to add "Section" before a listed Section number.
- R20-4-814 will be amended for clarity.
- R20-4-815 will be amended to remove unnecessary punctuation, and to add "Section" before a listed Section number.
- R20-4-816 will be amended to replace "Superintendent" with "Director."

3. A citation to all published notices relating to the proceeding:

Notice of Proposed Rulemaking: 29 A.A.R. 285, January 27, 2023 (in this issue)

<u>4.</u> <u>The name and address of agency personnel with whom persons may communicate regarding the rule:</u> Name: Mary Kosinski

r tunie.	Mary Roshiski
Address:	Arizona Department of Insurance and Financial Institutions 100 N. 15th Ave., Suite 261 Phoenix, AZ 85007-2630
Telephone:	(602) 364-3476
Email:	mary.kosinski@difi.az.gov

5. <u>The time during which the agency will accept written comments and the time and place where oral comments</u> <u>may be made:</u>

To be determined.

6. <u>A timetable for agency decisions or other action on the proceeding, if known:</u> To be determined.

NOTICE OF RULEMAKING DOCKET OPENING

TITLE 20. COMMERCE, FINANCIAL INSTITUTIONS, AND INSURANCE

CHAPTER 4. DEPARTMENT OF INSURANCE AND FINANCIAL INSTITUTIONS FINANCIAL INSTITUTIONS

[R23-09]

<u>1.</u>	Title and its heading:	20, Commerce, Financial Institutions, and Insurance			
	Chapter and its heading:	 Department of Insurance and Financial Institutions - Financial Institutions 			
	Article and its heading:	4, Credit Unions			
		10, Safe Deposit and Safekeeping Code			
		11, Public Depositories for Public Monies			
		16, Acquiring Control of Financial Institutions			
		17, Arizona Interstate Bank and Savings and Loan Association Act			
	Section numbers:	R20-4-401, R20-4-1001, R20-4-1101, R20-4-1601, R20-4-1602,			
		R20-4-1701, R20-4-1702, and R20-4-1704 (Sections may be added, deleted or modified, as necessary)			

2. The subject matter of the proposed rule:

The subject matter of these rules is varied depending on the Article and the subject matter or entity being regulated by the Financial Institutions Division of the Department of Insurance and Financial Institutions ("Department").

This rulemaking amends Article 4 (Credit Unions). The rules augment the statutory sections regulating Credit Unions found at A.R.S. Title 6, §§ 6-501 through 6-595. The Department is proposing changes to 1 rule as follows:

• R20-4-401 will be amended to reflect that the Director also regulates surety companies.

This rulemaking amends Article 10 (Safe Deposit and Safekeeping Code). The rules augment the statutory sections regulating safe deposit and safekeeping found at Title 6, A.R.S. §§ 6-1001 through 6-1009. The Department is proposing changes to 1 rule as follows:

• R20-4-1001 will be amended to replace "Superintendent" with "Director."

This rulemaking amends Article 11 (Public Depositories for Public Monies). The rules augment the statutory sections regulating public money management found at A.R.S. Title 35, A.R.S. §§ 35-321 through 35-329. The Department is proposing changes to 1 rule as follows:

• R20-4-1101 will be amended to correct the capitalization in the title, to correct a statutory reference, and to correct punctuation.

This rulemaking amends Article 16 (Acquiring Control of Financial Institutions). The rules augment the statutory sections regulating acquisition of control of a bank, trust company or savings and loan association found at A.R.S. Title 6, A.R.S. §§ 6-141 through 6-153. The Department is proposing changes to 2 rules as follows:

- R20-4-1601 will be amended to replace "Superintendent" with "Director," to create a definition for "Director," to delete the definition for "Superintendent," and to delete redundant definitions already contained in A.R.S. § 6-141. (The 2020 Five-Year Review Report noted that the statutory definition for "control," which was adopted by the rule needed to be changed. It appears that statutory change has been made. The definition for "control" is unnecessary in the rule.)
- R20-4-1602 will be amended to replace "Superintendent" with "Director," to correct punctuation, to revise the requirement in an initial application from an "audited" to a "personal" financial statement (a 2020 Five-Year Review Report commitment), and to require a full sets of fingerprints instead of fingerprint cards.

This rulemaking amends Article 17 (Arizona Interstate Bank and Savings and Loan Association Act). The rules augment the statutory sections regulating the direct or indirect control of an in-state financial institution found at A.R.S. Title 6, A.R.S. §§ 6-321 through 6-331. The Department is proposing changes to 3 rules as follows:

- R20-4-1701 will be amended to add a definition for "Director," and to delete redundant definitions already contained in A.R.S. § 6-321. (The 2020 Five-Year Review Report noted that the statutory definition for "control," which was adopted by the rule needed to be changed. It appears that statutory change has been made. The definition for "control" is unnecessary in the rule.)
- R20-4-1702 will be amended to replace "Superintendent" with "Director."
- R20-4-1704 will be amended to replace "Superintendent of Banks" with "Director," to remove the Federal Home Loan Bank Board which is a defunct institution and to reduce the number of copies to be submitted to the Director from 2 to 1.

3. A citation to all published notices relating to the proceeding:

Notice of Proposed Rulemaking: 29 A.A.R. 291, January 27, 2023 (in this issue)

4. The name and address of agency personnel with whom persons may communicate regarding the rule: Name: Name: Mary Kosinski

Address: Arizona Department of Insurance and Financial Institutions

	100 N. 15th Ave., Suite 261 Phoenix, AZ 85007-2630
Telephone:	(602) 364-3476
Email:	mary.kosinski@difi.az.gov

5. The time during which the agency will accept written comments and the time and place where oral comments may be made: To be determined.

6. <u>A timetable for agency decisions or other action on the proceeding, if known:</u> To be determined.

NOTICES OF AGENCY OMBUDSMAN

The Administrative Procedure Act requires the publication of Notices of Agency Ombudsman under A.R.S. §§ 41-1006(A) and 41-1013(B)(13).

An ombudsman is an agency's point of contact who assists members of the public or regulated community seeking information or guidance from the agency.

NOTICE OF AGENCY OMBUDSMAN

STATE REAL ESTATE DEPARTMENT

[M23-01]

The agency name: <u>1.</u>

State Real Estate Department

- 2. The ombudsman's:
 - Name: Chandni Bhakta <u>a.</u>
 - Title: Legislative Liaison <u>b.</u>
- The ombudsman's office address to include the city. state and zip code:Address:100 N. 15th Ave., Suite 201 <u>3.</u>

Phoenix, AZ 85007

The ombudsman's area code and telephone number, fax number and email address, if available:Telephone:(602) 771-7766 <u>4.</u>

Email: cbhakta@azre.gov

REGISTER INDEXES

The Register is published by volume in a calendar year (See "General Information" in the front of each issue for more information).

Abbreviations for rulemaking activity in this Index include:

PROPOSED RULEMAKING

- PN = Proposed new Section
- PM = Proposed amended Section
- PR = Proposed repealed Section
- P# = Proposed renumbered Section

SUPPLEMENTAL PROPOSED RULEMAKING

- SPN = Supplemental proposed new Section
- SPM = Supplemental proposed amended Section
- SPR = Supplemental proposed repealed Section
- SP# = Supplemental proposed renumbered Section

FINAL RULEMAKING

- FN = Final new Section
- FM = Final amended Section
- FR = Final repealed Section
- F# = Final renumbered Section

SUMMARY RULEMAKING

- PROPOSED SUMMARY
- PSMN = Proposed Summary new Section
- PSMM = Proposed Summary amended Section
- PSMR = Proposed Summary repealed Section PSM# = Proposed Summary renumbered Section
- PSM# = Proposed Summary renumbere

FINAL SUMMARY

- FSMN = Final Summary new Section
- FSMM = Final Summary amended Section
- FSMR = Final Summary repealed Section
- FSM# = Final Summary renumbered Section

EXPEDITED RULEMAKING PROPOSED EXPEDITED

- PEN = Proposed Expedited new Section
- PEM = Proposed Expedited amended Section
- PER = Proposed Expedited repealed Section
- PE# = Proposed Expedited renumbered Section

SUPPLEMENTAL EXPEDITED

- SPEN = Supplemental Proposed Expedited new Section
- SPEM = Supplemental Proposed Expedited amended Section
- SPER = Supplemental Proposed Expedited repealed Section
- SPE# = Supplemental Proposed Expedited renumbered Sec-

tion

- FINAL EXPEDITED
- FEN = Final Expedited new Section
- FEM = Final Expedited amended Section
- FER = Final Expedited repealed Section
- FE# = Final Expedited renumbered Section

EXEMPT RULEMAKING

EXEMPT

- XN = Exempt new Section
- XM = Exempt amended Section
- XR = Exempt repealed Section
- X# = Exempt renumbered Section

EXEMPT PROPOSED

- PXN = Proposed Exempt new Section
- PXM = Proposed Exempt amended Section
- PXR = Proposed Exempt repealed Section
- PX# = Proposed Exempt renumbered Section

EXEMPT SUPPLEMENTAL PROPOSED

- SPXN = Supplemental Proposed Exempt new Section
- SPXR = Supplemental Proposed Exempt repealed Section
- SPXM = Supplemental Proposed Exempt amended Section
- SPX# = Supplemental Proposed Exempt renumbered Section

FINAL EXEMPT RULEMAKING

- FXN = Final Exempt new Section
- FXM = Final Exempt amended Section
- FXR = Final Exempt repealed Section
- FX# = Final Exempt renumbered Section

EMERGENCY RULEMAKING

- EN = Emergency new Section
- EM = Emergency amended Section
- ER = Emergency repealed Section
- E# = Emergency renumbered Section
- EEXP = Emergency expired

RECODIFICATION OF RULES

RC = Recodified

REJECTION OF RULES

RJ = Rejected by the Attorney General

TERMINATION OF RULES

- TN = Terminated proposed new Sections
- TM = Terminated proposed amended Section
- TR = Terminated proposed repealed Section
- T# = Terminated proposed renumbered Section

RULE EXPIRATIONS

EXP = Rules have expired

See also "emergency expired" under emergency rulemaking

CORRECTIONS

C = Corrections to Published Rules

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RULEMAKING ACTIVITY INDEX

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OTHER NOTICES AND PUBLIC RECORDS INDEX

Other legal notices required to be published under the Administrative Procedure Act, such as Rulemaking Docket Openings, are included in this Index by volume page number. Notices of Agency Ombudsman, Substantive Policy Statements, Proposed Delegation Agreements, and other applicable public records as required by law are also listed in this Index by volume page number.

THIS INDEX INCLUDES OTHER NOTICE ACTIVITY THROUGH ISSUE 3 OF VOLUME 29.

Docket Opening, Notices of Rulemaking

Child Safety, Department of - Child Welfare Agency Licensing; 21 A.A.C. 7; pp. 201-202
Clean Elections Commission, Citizens; 2 A.A.C. 20; p. 249
Environmental Quality, Department of - Air Pollution Control; 18 A.A.C. 2; p. 199
Game and Fish Commission; 12 A.A.C. 4; p. 23-24 Health Care Cost Containment System, Arizona (AHCCCS) -Administration; 9 A.A.C. 22; p. 22

Health Care Cost Containment System, Arizona (AHCCCS) -Children's Health Insurance Program; 9 A.A.C. 31; p. 23

Insurance and Financial Institutions, Department of - Financial Institutions Division; 20 A.A.C. 4; pp. 200-201, 249-252

Ombudsman, Notices of Agency

Dental Examiners, Board of; p. 254 Osteopathic Examiners in Medicine and Surgery, Board of; p. 253 Transportation, Department of; p. 253-254

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RULES EFFECTIVE DATES CALENDAR

A.R.S. § 41-1032(A), as amended by Laws 2002, Ch. 334, § 8 (effective August 22, 2002), states that a rule generally becomes effective 60 days after the day it is filed with the Secretary of State's Office. The following table lists filing dates and effective dates for rules that follow this provision. Please also check the rulemaking Preamble for effective dates.

January		February		March		April		Мау		June	
Date Filed	Effective Date	Date Filed	Effective Date	Date Filed	Effective Date	Date Filed	Effective Date	Date Filed	Effective Date	Date Filed	Effective Date
1/1	3/2	2/1	4/2	3/1	4/30	4/1	5/31	5/1	6/30	6/1	7/31
1/2	3/3	2/2	4/3	3/2	5/1	4/2	6/1	5/2	7/1	6/2	8/1
1/3	3/4	2/3	4/4	3/3	5/2	4/3	6/2	5/3	7/2	6/3	8/2
1/4	3/5	2/4	4/5	3/4	5/3	4/4	6/3	5/4	7/3	6/4	8/3
1/5	3/6	2/5	4/6	3/5	5/4	4/5	6/4	5/5	7/4	6/5	8/4
1/6	3/7	2/6	4/7	3/6	5/5	4/6	6/5	5/6	7/5	6/6	8/5
1/7	3/8	2/7	4/8	3/7	5/6	4/7	6/6	5/7	7/6	6/7	8/6
1/8	3/9	2/8	4/9	3/8	5/7	4/8	6/7	5/8	7/7	6/8	8/7
1/9	3/10	2/9	4/10	3/9	5/8	4/9	6/8	5/9	7/8	6/9	8/8
1/10	3/11	2/10	4/11	3/10	5/9	4/10	6/9	5/10	7/9	6/10	8/9
1/11	3/12	2/11	4/12	3/11	5/10	4/11	6/10	5/11	7/10	6/11	8/10
1/12	3/13	2/12	4/13	3/12	5/11	4/12	6/11	5/12	7/11	6/12	8/11
1/13	3/14	2/13	4/14	3/13	5/12	4/13	6/12	5/13	7/12	6/13	8/12
1/14	3/15	2/14	4/15	3/14	5/13	4/14	6/13	5/14	7/13	6/14	8/13
1/15	3/16	2/15	4/16	3/15	5/14	4/15	6/14	5/15	7/14	6/15	8/14
1/16	3/17	2/16	4/17	3/16	5/15	4/16	6/15	5/16	7/15	6/16	8/15
1/17	3/18	2/17	4/18	3/17	5/16	4/17	6/16	5/17	7/16	6/17	8/16
1/18	3/19	2/18	4/19	3/18	5/17	4/18	6/17	5/18	7/17	6/18	8/17
1/19	3/20	2/19	4/20	3/19	5/18	4/19	6/18	5/19	7/18	6/19	8/18
1/20	3/21	2/20	4/21	3/20	5/19	4/20	6/19	5/20	7/19	6/20	8/19
1/21	3/22	2/21	4/22	3/21	5/20	4/21	6/20	5/21	7/20	6/21	8/20
1/22	3/23	2/22	4/23	3/22	5/21	4/22	6/21	5/22	7/21	6/22	8/21
1/23	3/24	2/23	4/24	3/23	5/22	4/23	6/22	5/23	7/22	6/23	8/22
1/24	3/25	2/24	4/25	3/24	5/23	4/24	6/23	5/24	7/23	6/24	8/23
1/25	3/26	2/25	4/26	3/25	5/24	4/25	6/24	5/25	7/24	6/25	8/24
1/26	3/27	2/26	4/27	3/26	5/25	4/26	6/25	5/26	7/25	6/26	8/25
1/27	3/28	2/27	4/28	3/27	5/26	4/27	6/26	5/27	7/26	6/27	8/26
1/28	3/29	2/28	4/29	3/28	5/27	4/28	6/27	5/28	7/27	6/28	8/27
1/29	3/30			3/29	5/28	4/29	6/28	5/29	7/28	6/29	8/28
1/30	3/31	1		3/30	5/29	4/30	6/29	5/30	7/29	6/30	8/29
1/31	4/1	1		3/31	5/30		<u>.</u>	5/31	7/30		+

July		August		September		October		November		December	
Date Filed	Effective Date	Date Filed	Effective Date	Date Filed	Effective Date	Date Filed	Effective Date	Date Filed	Effective Date	Date Filed	Effective Date
7/1	8/30	8/1	9/30	9/1	10/31	10/1	11/30	11/1	12/31	12/1	1/30
7/2	8/31	8/2	10/1	9/2	11/1	10/2	12/1	11/2	1/1	12/2	1/31
7/3	9/1	8/3	10/2	9/3	11/2	10/3	12/2	11/3	1/2	12/3	2/1
7/4	9/2	8/4	10/3	9/4	11/3	10/4	12/3	11/4	1/3	12/4	2/2
7/5	9/3	8/5	10/4	9/5	11/4	10/5	12/4	11/5	1/4	12/5	2/3
7/6	9/4	8/6	10/5	9/6	11/5	10/6	12/5	11/6	1/5	12/6	2/4
7/7	9/5	8/7	10/6	9/7	11/6	10/7	12/6	11/7	1/6	12/7	2/5
7/8	9/6	8/8	10/7	9/8	11/7	10/8	12/7	11/8	1/7	12/8	2/6
7/9	9/7	8/9	10/8	9/9	11/8	10/9	12/8	11/9	1/8	12/9	2/7
7/10	9/8	8/10	10/9	9/10	11/9	10/10	12/9	11/10	1/9	12/10	2/8
7/11	9/9	8/11	10/10	9/11	11/10	10/11	12/10	11/11	1/10	12/11	2/9
7/12	9/10	8/12	10/11	9/12	11/11	10/12	12/11	11/12	1/11	12/12	2/10
7/13	9/11	8/13	10/12	9/13	11/12	10/13	12/12	11/13	1/12	12/13	2/11
7/14	9/12	8/14	10/13	9/14	11/13	10/14	12/13	11/14	1/13	12/14	2/12
7/15	9/13	8/15	10/14	9/15	11/14	10/15	12/14	11/15	1/14	12/15	2/13
7/16	9/14	8/16	10/15	9/16	11/15	10/16	12/15	11/16	1/15	12/16	2/14
7/17	9/15	8/17	10/16	9/17	11/16	10/17	12/16	11/17	1/16	12/17	2/15
7/18	9/16	8/18	10/17	9/18	11/17	10/18	12/17	11/18	1/17	12/18	2/16
7/19	9/17	8/19	10/18	9/19	11/18	10/19	12/18	11/19	1/18	12/19	2/17
7/20	9/18	8/20	10/19	9/20	11/19	10/20	12/19	11/20	1/19	12/20	2/18
7/21	9/19	8/21	10/20	9/21	11/20	10/21	12/20	11/21	1/20	12/21	2/19
7/22	9/20	8/22	10/21	9/22	11/21	10/22	12/21	11/22	1/21	12/22	2/20
7/23	9/21	8/23	10/22	9/23	11/22	10/23	12/22	11/23	1/22	12/23	2/21
7/24	9/22	8/24	10/23	9/24	11/23	10/24	12/23	11/24	1/23	12/24	2/22
7/25	9/23	8/25	10/24	9/25	11/24	10/25	12/24	11/25	1/24	12/25	2/23
7/26	9/24	8/26	10/25	9/26	11/25	10/26	12/25	11/26	1/25	12/26	2/24
7/27	9/25	8/27	10/26	9/27	11/26	10/27	12/26	11/27	1/26	12/27	2/25
7/28	9/26	8/28	10/27	9/28	11/27	10/28	12/27	11/28	1/27	12/28	2/26
7/29	9/27	8/29	10/28	9/29	11/28	10/29	12/28	11/29	1/28	12/29	2/27
7/30	9/28	8/30	10/29	9/30	11/29	10/30	12/29	11/30	1/29	12/30	2/28
7/31	9/29	8/31	10/30		<u>.</u>	10/31	12/30		<u>.</u>	12/31	3/1

REGISTER PUBLISHING DEADLINES

The Secretary of State's Office publishes the Register weekly. There is a three-week turnaround period between a deadline date and the publication date of the Register. The weekly deadline dates and issue dates are shown below. Council meetings and Register deadlines do not correlate. Also listed are the earliest dates on which an oral proceeding can be held on proposed rulemakings or proposed delegation agreements following publication of the notice in the Register.

Deadline Date Friday, 5:00 p.m. (*earlier date due to holiday)	<i>Register</i> Publication Date	Oral Proceeding may be scheduled on or after
November 18, 2022	December 9, 2022	January 9, 2023
November 25, 2022	December 16, 2022	January 17, 2023
December 2, 2022	December 23, 2022	January 23, 2023
December 9, 2022	December 30, 2022	January 30, 2023
December 16, 2022	January 6, 2023	February 6, 2023
December 23, 2022	January 13, 2023	February 13, 2023
December 30, 2022	January 20, 2023	February 21, 2023
January 6, 2023	January 27, 2023	February 27, 2023
January 13, 2023	February 3, 2023	March 6, 2023
January 20, 2023	February 10, 2023	March 13, 2023
January 27, 2023	February 17, 2023	March 20, 2023
February 3, 2023	February 24, 2023	March 27, 2023
February 10, 2023	March 3, 2023	April 3, 2023
February 17, 2023	March 10, 2023	April 10, 2023
February 24, 2023	March 17, 2023	April 17, 2023
March 3, 2023	March 24, 2023	April 24, 2023
March 10, 2023	March 31, 2023	May 1, 2023
March 17, 2023	April 7, 2023	May 8, 2023
March 24, 2023	April 14, 2023	May 15, 2023
March 31, 2023	April 21, 2023	May 22, 2023
April 7, 2023	April 28, 2023	May 30, 2023
April 14, 2023	May 5, 2023	June 5, 2023
April 21, 2023	May 12, 2023	June 12, 2023
April 28, 2023	May 19, 2023	June 19, 2023

GOVERNOR'S REGULATORY REVIEW COUNCIL DEADLINES

The following deadlines apply to all Five-Year Review Reports and any adopted rule submitted to the Governor's Regulatory Review Council. Council meetings and *Register* deadlines do not correlate. We publish these deadlines under A.R.S. § 41-1013(B)(15).

All rules and Five-Year Review Reports are due in the Council office by 5 p.m. of the deadline date. The Council's office is located at 100 N. 15th Ave., Suite 305, Phoenix, AZ 85007. For more information, call (602) 542-2058 or visit https://grrc.az.gov.

GOVERNOR'S REGULATORY REVIEW COUNCIL DEADLINES FOR 2023

(MEETING DATES ARE SUBJECT TO CHANGE)

[M21-61/M22-60]

DEADLINE FOR PLACEMENT ON AGENDA*	FINAL MATERIALS SUBMITTED TO COUNCIL	DATE OF COUNCIL STUDY SESSION	DATE OF COUNCIL MEETING
Tuesday	Tuesday	Wednesday	Wednesday
November 22, 2022	December 20, 2022	December 28, 2022	January 4, 2023
Tuesday	Tuesday	Tuesday	Tuesday
December 20, 2022	January 24, 2023	January 31, 2023	February 7, 2023
Tuesday	Tuesday	Tuesday	Tuesday
January 24, 2023	February 21, 2023	February 28, 2023	March 7, 2023
Tuesday	Tuesday	Tuesday	Tuesday
February 21, 2023	March 21, 2023	March 28, 2023	April 4, 2023
Tuesday	Tuesday	Tuesday	Tuesday
March 21, 2023	April 18, 2023	April 25, 2023	May 2, 2023
Tuesday	Tuesday	Wednesday	Tuesday
April 18, 2023	May 23, 2023	May 31, 2023	June 6, 2023
Tuesday	Tuesday	Tuesday	Wednesday
May 23, 2023	June 20, 2023	June 27, 2023	July 5, 2023
Tuesday	Tuesday	Tuesday	Tuesday
June 20, 2023	July 18, 2023	July 25, 2023	August 1, 2023
Tuesday	Tuesday	Tuesday	Wednesday
July 18, 2023	August 22, 2023	August 29, 2023	September 6, 2023
Tuesday	Tuesday	Tuesday	Tuesday
August 22, 2023	September 19, 2023	September 26, 2023	October 3, 2023
Tuesday	Tuesday	Tuesday	Tuesday
September 19, 2023	October 24, 2023	October 31, 2023	November 7, 2023
Tuesday	Tuesday	Tuesday	Tuesday
October 24, 2023	November 21, 2023	November 28, 2023	December 5, 2023
Tuesday	Tuesday	Wednesday	Tuesday
November 21, 2023	December 19, 2023	December 27, 2023	January 2, 2024
Tuesday	Tuesday	Tuesday	Tuesday
December 19, 2023	January 23, 2024	January 23, 2024	February 6, 2024

* Materials must be submitted by **5 PM** on dates listed as a deadline for placement on a particular agenda. Placement on a particular agenda is not guaranteed.

GOVERNOR'S REGULATORY REVIEW COUNCIL

NOTICE OF ACTION TAKEN AT THE JANUARY 4, 2023 MEETING

A. CONSENT AGENDA ITEMS:

Five-Year Review Reports:

- 1. **DEPARTMENT OF HEALTH SERVICES** Title 9, Chapter 5, Article 1-6
- 2. DEPARTMENT OF HEALTH SERVICES Title 9, Chapter 6, Article 6
- **3. DEPARTMENT OF HEALTH SERVICES** Title 9, Chapter 10, Article 2
- **4. DEPARTMENT OF HEALTH SERVICES** Title 9, Chapter 10, Article 11
- 5. DEPARTMENT OF HEALTH SERVICES Title 9, Chapter 10, Article 13
- 6. DEPARTMENT OF HEALTH SERVICES Title 9, Chapter 23, Article 1-3
- 7. **DEPARTMENT OF HEALTH SERVICES** Title 9, Chapter 25, Article 13
- 8. INDUSTRIAL COMMISSION OF ARIZONA Title 20, Chapter 5, Article 12

COUNCIL ACTION: CONSENT AGENDA APPROVED

- B. CONSIDERATION AND DISCUSSION OF RULEMAKINGS:
 - 1. SCHOOL FACILITIES BOARD Title 7, Chapter 1 (Division of School Facilities)

New Article: Article 1, Article 2

New Section: R7-1-101, R7-1-201

COUNCIL ACTION: APPROVED

2. INDUSTRIAL COMMISSION OF ARIZONA Title 20, Chapter 5, Article 5 (Elevator Safety)

New Section: R20-5-514, R20-5-515

Amend: Article 5, R20-5-502, R20-5-504, R20-5-505, R20-5-506, R20-5-507, R20-5-508, R20-5-509, R20-5-510

Repeal: R20-5-511

COUNCIL ACTION: APPROVED

3. ARIZONA DEPARTMENT OF AGRICULTURE

Title 3, Chapter 8 (Pest Management Division)

Amend: R3-8-102, R3-8-103, R3-8-107, R3-8-202, R3-8-203, R3-8-204, R3-8-210, R3-8-211, R3-8-212, R3-8-216, R3-8-301, R3-8-308, R3-8-310, R3-8-401, R3-8-402, R3-8-404, R3-8-501, R3-8-502, R3-8-503, R3-8-606

COUNCIL ACTION: TABLED TO JANUARY 31, 2023 STUDY SESSION AND FEBRUARY 7, 2023 COUNCIL MEET-ING

4. ARIZONA DEPARTMENT OF AGRICULTURE Title 3, Chapter 7 (Weights and Measures Division) [M23-02]

- Amend:R3-7-101, R3-7-103, R3-7-104, R3-7-108, R3-7-109, R3-7-110, Article 1 Table 1, R3-7-201, R3-7-203, R3-7-302, R3-7-402, R3-7-501, R3-7-502, R3-7-503, R3-7-504, R3-7-505, R3-7-506, R3-7-507, R3-7-601, R3-7-602, R3-7-603, R3-7-604, R3-7-701, R3-7-702, R3-7-703, R3-7-704, R3-7-705, R3-7-707, R3-7-708, R3-7-710, R3-7-712, R3-7-713, R3-7-715, R3-7-716, R3-7-717, R3-7-718, R3-7-705, R3-7-750, R3-7-750, R3-7-751, R3-7-52, R3-7-753, R3-7-754, R3-7-755, R3-7-756, R3-7-757, R3-7-759, Table A, R3-7-760, R3-7-761, R3-7-762, R3-7-1001, R3-7-1002, R3-7-1003, R3-7-1004, R3-7-1005, R3-7-1006, R3-7-1007, R3-7-1008, R3-7-1009, R3-7-1010, R3-7-1012, R3-7-1013
- **Repeal:** R3-7-204, R3-7-605, R3-7-714, Table 1, Table 2, R3-7-901, R3-7-902, R3-7-903, R3-7-904, R3-7-905, R3-7-906, R3-7-906, R3-7-907, R3-7-909, R3-7-910, R3-7-911, R3-7-912, R3-7-913

COUNCIL ACTION: APPROVED

C. CONSIDERATION AND DISCUSSION OF FIVE-YEAR REVIEW REPORTS:

1. ARIZONA STATE BOARD OF PHARMACY Title 4, Chapter 23, Article 1-4

COUNCIL ACTION: APPROVED

D. CONSIDERATION AND DISCUSSION OF ARIZONA STATE LOTTERY'S REQUEST TO RESCHEDULE FIVE-YEAR REVIEW REPORT FOR TITLE 19, CHAPTER 3, ARTICLES 4 AND 7 PURSUANT TO A.R.S. § 41-1056(H)

COUNCIL ACTION: APPROVED