Advanced Water Purification Regulatory Program
Permit Application Development & Timeline

Begin Here:

Legend

- Permits/Approvals Issued by ADEQ
- National Pretreatment Program AWPRA Actions and Submittals
- ADEQ Process/Action/Review
- Non-National Pretreatment Program AWPRA Actions and Submittals
- PAC Review and Recommendations

Permit Received

Acronyms

ADEQ - Arizona Department of Environmental Quality
AWP - Advanced Water Purification
BMP - Best Management Practice
CSI - Compliance Schedule Items
DMR - Discharge Monitoring Report
EIC - Industrial Discharge Coordinator
ESC - Environmental Stewardship Committee
GPD - Gallons per Day
MGD - Million Gallons per Day (or mil. gal.)
NPP - Non-Potable Reuse (or Indirect Potable Reuse)
NPDES - National Pollutant Discharge Elimination System
PAC - Project Advisory Committee
PFAS - Per- and Polyfluoroalkyl Substances
POTW - Publicly Owned Treatment Works
SDWA - Safe Drinking Water Act
SWC - Source Water Characterization
TDS - Total Dissolved Solids
TMP - Treatment Management Plan
WPP - Water Pollution Control Permit
WQP - Water Quality Permit
WQIP - Water Quality Improvement Program

***Notes**

AWPRA can elect to conduct a hybrid approach for Full-Scale Verification (repeat of Pilot Study per A.A.C. R18-9-E309(A)(2), R18-9-F310(A)).

*AWPRA may deliver ATW or distribute finished water in accordance w/ R18-9-E309(F), all applicable BMP rules, the AWP permit and other relevant law or this plan.

Early Development Phase

Project Advisory Committee (PAC)

ADEQ

- Review existing water quality data
- Review existing water quality standards
- Review existing water treatment data
- Review existing water treatment standards
- Review existing water treatment technology
- Review existing water treatment costs
- Review existing water treatment operations
- Review existing water treatment maintenance
- Review existing water treatment staffing
- Review existing water treatment permitting
- Review everything relevant to AWP

Develop PAC to review technical information (as needed)

Non-NPP AWPRA

Pre-application meeting request

Community outreach

NPP AWPRA

Pre-application meeting request

Community outreach

Initial Source Water Characterization Phase

Project Advisory Committee (PAC)

PAC reviews ISWC Plan for pathogen and chemical characterization (as needed)

ADEQ

ADEQ Review of AWPRA's:
- Draft ISWC Plan,
- Proposed pilot train*,
- BACR, and
- Outreach plan.

ADEQ Reviews & Comments on ISWC

Non-NPP AWPRA

AWPRA shall submit ISWC Plan, which includes:
- Draft ISWC Plan,
- Proposed pilot train*,
- Pilot Study Plan,
- Proposed BACR, and
- Draft Public Communications Plan

AWPRA samples chemicals for at least one year — 1 year

AWPRA samples pathogen for two years (Optional) — 2 years

AWPRA shall submit ISWC Plan, which includes:
- Draft ISWC Plan,
- Initial Source Water Characterization Report

NPP AWPRA

AWPRA may submit ISWC Plan, which may includes:
- Draft ISWC Plan,
- Proposed pilot train*,
- Pilot Study Plan,
- Proposed BACR, and
- Draft Public Communications Plan

AWPRA samples chemicals for at least one year — 1 year

AWPRA samples pathogen for two years (Optional) — 2 years

AWPRA may submit ISWC Plan, which may includes:
- Initial Source Water Characterization Report

Pilot Study Phase*

Project Advisory Committee (PAC)

PAC reviews ISWC results (as needed)

ADEQ

ADEQ review of Pilot Study Plan

ADEQ Reviews & Comments on Pilot

Non-NPP AWPRA

AWPRA Constructs Pilot Treatment Train*

AWPRA operates pilot train continuously for at least one year* — 1 year

AWPRA prepares Pilot Study Report

NPP AWPRA

AWPRA Constructs Pilot Treatment Train*

AWPRA operates pilot train continuously for at least one year* — 1 year

AWPRA prepares Pilot Study Report

Permit Application Phase

Project Advisory Committee (PAC)

PAC reviews AWP Permit Application, Full-scale plant consisting of all components (as needed)

ADEQ

ADEQ Reviews AWP Application

ADEQ Issues AWP Permit

Non-NPP AWPRA

AWPRA submits application for AWP including all technical requirements

NPP AWPRA

AWPRA submits AWP Permit application for AWTF including all technical requirements

Post-Permit Compliance Schedule Items Phase (As-Builts) (Full Scale Verification) (Etcetera)*

Project Advisory Committee (PAC)

PAC reviews CSI Submissions (as needed)

PAC reviews CSI Submissions (as needed)

PAC reviews CSI Submissions (as needed)

ADEQ

ADEQ Reviews CSI 1 Submission

CSI 1: As-Built: ADEQ Review & Approval

Review CSI 2 Submission

CSI 2: Full Scale Verification: ADEQ Review & Approval

Review CSI 3 Submission

CSI 3: ADEQ Review & Approval

Non-NPP AWPRA

AWPRA constructs AWTF*

Full scale verification for one year post commissioning AWTF* — 1 year

AWPRA submits As-Builts (CSI 1)*

AWPRA submits Full-Scale Verification (CSI 2), etc.*

AWPRA submits any other CSIs*

NPP AWPRA

AWPRA constructs AWTF*

Full scale verification for one year post commissioning AWTF* — 1 year

AWPRA submits As-Builts (CSI 1)*

AWPRA submits Full-Scale Verification (CSI 2), etc.*

AWPRA submits any other CSIs*

Commence Delivery and/or Distribution

Non-NPP AWPRA

*AWPRA may deliver ATW or distribute finished water according to R18-9-E309(F), BMP rules, permit, other relevant law

NPP AWPRA

*AWPRA may deliver ATW or distribute finished water according to R18-9-E309(F), BMP rules, permit, other relevant law

Ongoing Operation Requirements

Project Advisory Committee (PAC)

Review routine sampling results

ADEQ Reviews:
- Annual Report
- ESC, no change acknowledgement

Issue Approval of Annual Report & ESC

Review renewal application

Issue Renewal Permit

Non-NPP AWPRA

AWPRA submits routine monitoring/ sampling data

AWPRA submits:
- Annual Report
- ESC, no change acknowledgement

AWPRA submit renewal application @ every 5 years

NPP AWPRA

AWPRA submits routine monitoring/ sampling data

AWPRA submits:
- Annual Report
- ESC, no change acknowledgement

AWPRA submit renewal application @ every 5 years