

STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-102768
PLACE ID 6672, LTF 115841
SIGNIFICANT AMENDMENT

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2, and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A.A.C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, the Arizona Department of Environmental Quality (ADEQ) hereby authorizes Arizona State Parks and Trails to operate the Kartchner Caverns State Park Wastewater Treatment Facility located at 2980 Highway 90, Benson, Arizona 85602, Cochise County, over the groundwater of the Upper San Pedro Basin.

This permit is effective upon signature and payment of the final bill. The effective date is the date the final bill is paid, and entered below. The permit shall be valid for the life of the facility (operational, closure, and post-closure periods) unless suspended or revoked pursuant to A.A.C. R18-9-A213. The permittee shall construct, operate and maintain the permitted facilities:

1. Following all the conditions of this permit including the design and operational information documented or referenced below, and
2. Such that Aquifer Water Quality Standards (AWQS) are not violated at the applicable point(s) of compliance (POC) set forth below or if an AWQS for a pollutant has been exceeded in an aquifer at the time of permit issuance, that no additional degradation of the aquifer relative to that pollutant and as determined at the applicable POC occurs as a result of the discharge from the facility.

1.1. PERMITTEE INFORMATION

Facility Name: Kartchner Caverns State Park Wastewater Treatment Facility
Facility Address: 2980 Highway 90, Benson, Arizona 85602
County: Cochise
Permitted Flow Rate: 14,500 gallons per day
Permittee: Arizona State Parks and Trails
Permittee Address: 1400 W. Washington Street, Suite 100
Phoenix, AZ 85007
Facility Contact: Erika Way, Park Manager
Emergency Phone No.: (520) 934-7596 / (520) 586-4110
Latitude/Longitude: 31° 50' 01.4" N / 110° 20' 44.6" W
Legal Description: Township 18S, Range 20E, Section 30, of the Gila and Salt River Baseline and Meridian

1.2. AUTHORIZING SIGNATURE

Randall Matas, Acting Director
Water Quality Division
Arizona Department of Environmental Quality

Effective Date: _____ day of _____, 2026

THIS AMENDED PERMIT SUPERSEDES ALL PREVIOUS PERMITS

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1.3. COMMONLY USED ACRONYMS

A.A.C.	Arizona Administrative Code	https://apps.azsos.gov/public_services/CodeTOC.htm#ID18
A.R.S.	Arizona Revised Statutes	https://www.azleg.gov/arstitle/
AWQS	Aquifer Water Quality Standards	A.A.C. R18-11 [ARTICLE 4]
ADEQ	Arizona Department of Environmental Quality	
ADWR	Arizona Department of Water Resources	
AL	Alert Level	
APP	Aquifer Protection Permit	
AZPDES	Arizona Pollutant Discharge Elimination System	
BADCT	Best Available Demonstrated Control Technology	
bgs	below ground surface	
CSI	Compliance Schedule Item	
DL	Discharge Limit	
EPA	Environmental Protection Agency	
EQ tank	equalization tank	
ft	feet	
gpd	gallons per day	
gpm	gallons per minute	
hp	horsepower	
LTF	Licensing Time Frame	
MBC	migrating biofilm carriers	
mg/l	milligrams per liter	
MGD	Million Gallons per Day	
MW	monitoring well	
O&M	Operation and Maintenance	
°F	Degrees Fahrenheit	
P.E.	Professional Engineer	
pCi/L	picocuries per liter	
POC	Point of Compliance	
QA/QC	Quality Assurance/Quality Control	
SBR	Sequencing Batch Reactor	
SMRF	Self-Monitoring Report Forms	
SVOC	Semi-Volatile Organic Compound	
USGS	United States Geological Survey	
VFD	Variable Frequency Drive	
VOCs	Volatile Organic Compounds	
WAS	Waste Activated Sludge	
WWTF	Wastewater Treatment Facility	
WWTP	Wastewater treatment plant	

2.0 SPECIFIC CONDITIONS

[A.R.S. §§ 49-203(4), 49-241(A)]

2.1. FACILITY / SITE DESCRIPTION

[A.R.S. § 49-243(K)(8), and A.A.C. R18-5-114]

The permittee is authorized to operate the Kartchner Caverns State Park Wastewater Treatment Facility (WWTF), with a maximum average monthly flow of 14,500 gpd. ADEQ has graded this facility as a Grade 2 wastewater treatment plant (WWTP). The facility shall have an operator in direct responsible charge who is certified for the class and grade of the facility and is available to the onsite representative and ensures an onsite operator visits the facility weekly.

The facility is designed to treat wastewater from the Kartchner Caverns State Park utilizing a Sequencing Batch Reactor (SBR) with migrating biofilm carriers (MBC) to produce a sufficient population to treat the high strength wastewater. Sewage gravity flows by gravity into an influent wetwell through a constructed basket, that is lifted by a pulley to remove screenings. From the wetwell, an influent lift station, with two 58 gpm (2.0-hp) pumps, lifts sewage through an influent flowmeter into a 14,500 gallon equalization (EQ) tank with three installed EQ pumps (plus, one shelf spare) and a mixer. From the EQ tank, influent flows to a 14,500 gallon SBR tank equipped with a mixer, six coarse aeration diffusers legs, and a submersible mixer. A pump in the SBR tank pumps the delivers activated sludge to the MBC skid with two hydro-cyclones and a 3,600-gallon sludge holding tank with decanting abilities, to screen the MBC from the WAS. From the SBR tank, a decanter allows treated effluent to flow by gravity into an effluent wetwell and effluent pump station equipped, with two 7.5-hp pumps and an effluent flowmeter. Effluent from the pump station flows through an ultraviolet (UV) disinfection system and then discharges to a disposal field with subsurface drip irrigation emitters, to irrigate native trees. A six-inch back-up tablet chlorinator is located just after the SBR tanks 4-inch decanter prior to the eight-inch gravity effluent line to provide a redundant disinfection system when the UV system needs to be taken offline temporarily for maintenance or repairs.

The screenings and sludge shall be hauled off site for management and disposal at a state approved facility.

All industrial hookups and other non-residential hookups to the treatment system shall be authorized according to the applicable federal, state or local regulations.

The site includes the following permitted discharging facilities:

Table 1: DISCHARGING FACILITIES		
Facility	Latitude (North)	Longitude (West)
Kartchner Caverns State Park WWTF	31° 50' 01.4"	110° 20' 44.6"
Drip Irrigation Field (effluent disposal location)	31° 50' 04.8"	110° 20' 44.0"

2.1.1. Annual Registration Fee

[A.R.S. § 49-242 and A.A.C. R18-14-104]

The annual registration fee for this permit is payable to ADEQ each year. The annual registration fee flow rate is established by the permitted flow rate identified in Section 1.1. If the facility is not constructed or is incapable of discharge, the permittee may be eligible for reduced fees pursuant to Table 2 under A.A.C. R18-14-104(A). Send all correspondence requesting reduced fees to ADEQ. Please reference the permit number, LTF number, and the reason for requesting reduced fees under this rule.

2.1.2. Financial Capability

[A.R.S. § 49-243(N) and A.A.C. R18-9-A203]

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The estimated dollar amount for facility closure is \$287,081. The financial capability was demonstrated through A.A.C. R18-9-A203(B)(1) and (2).

2.2. BEST AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY

[A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)]

The treatment facility shall be designed, constructed, operated, and maintained to meet the treatment performance criteria for new facilities as specified in A.A.C. R18-9-B204. The facility shall meet the performance requirement for industrial pre-treatment as per A.A.C. R18-9-B204(B)(6)(b).

The treatment facility was designed not to exceed a maximum seepage rate of 550 gpd per acre for all containment structures within the treatment works.

2.2.1. Engineering Design

The Kartchner Caverns State Park WWTF modifications were designed as per the Kartchner Caverns State Park Wastewater Treatment Facility Modifications Design Report prepared and stamped, dated, and signed (sealed) by Teresa Ann Valentine, P.E. (Civil #32324) with Valentine Environmental Engineers dated May 15, 2026, and subsequent sealed submittals that served as additions to the design report; and design plans titled Kartchner Caverns State Park Wastewater Treatment Plan Modification June 2026, prepared and stamped, dated, and signed (sealed) by Teresa Ann Valentine, P.E., dated May 22, 2026.

The WWTF was designed as per the design report and design plans signed, dated, and sealed by Brandon Lee Squire, P.E. (Civil #35177) with EPS Group, Inc. on October 10, 2023, and Michael E Lotempio, P.E. (Civil #43727) with EPS Group, Inc. on May 25, 2023, respectively and subsequent sealed submittals that served as additions to the design report.

The as-built design plans of the original WWTP were signed, dated, and sealed by Frederick Rubel, Jr, P.E. (Civil #7293) of Rubel Engineering on September 15, 1995, and subsequent sealed submittals dated December 19, 1994, and July 22, 1996.

2.2.2. Site-Specific Characteristics

Site specific characteristics were not used to determine Best Available Demonstrated Control Technology (BADCT).

2.2.3. Pre-Operational Requirements

Not applicable.

2.2.4. Operational Requirements

1. The permittee shall maintain a copy of the up-to-date operations and maintenance manual at the treatment facility site at all times; the manual shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.2, Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING.
3. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and material(s) used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in the event of a violation or exceedance per Section 2.7.3.

2.2.5. Reclaimed Water Classification

[A.A.C. R18-9-B701(C)(2)(a), A.A.C. R18-11-303 through 307]

Not applicable. Effluent is discharged to the drip irrigation field as disposal rather than reuse.

2.2.6. Certified Areawide Water Quality Management Plan Conformance

[A.A.C. R18-9-A201(B)(6)(a)]

Facility operations must conform to the approved Certified Areawide Water Quality Management Plan according to the 208 consistency determination in place at the time of permit issuance.

2.3. DISCHARGE LIMITATIONS

[A.R.S. §§ 49-201(14), 49-243 and A.A.C. R18-9-A205(B)]

1. The permittee is authorized to operate the treatment facility with a maximum average monthly flow of 14,500 gpd.
2. The permittee shall notify all users that the materials authorized to be disposed of through the treatment facility are typical household sewage and pre-treated commercial wastewater and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.
3. The permittee shall operate and maintain all permitted facilities to prevent unauthorized discharges pursuant to A.R.S. § 49-201(12) resulting from failure or bypassing of applicable BADCT, including treatment works and disposal works listed in Section 2.1.
4. Specific discharge limitations are listed in Section 4.2, Table 7: ROUTINE DISCHARGE MONITORING.

2.4. POINT OF COMPLIANCE

[A.R.S. § 49-244]

The POC have been established at the following locations:

Table 2: POINT OF COMPLIANCE				
POC #	POC Location	ADWR No.	Latitude (North)	Longitude (West)
1 (Conceptual)	Southeast edge of the Drip Irrigation Field	No Well	31° 50' 03.9"	110° 20' 43.8"

The depth to groundwater is approximately 400 feet below ground surface (ft bgs) and the groundwater flow direction is to the southeast near the WWTF and Drip Irrigation Field.

Groundwater monitoring is not required. POC #1 is a conceptual well, monitoring is not required except as a contingency action. The director may require an amendment of this permit to install a monitoring well if there is cause or concern that groundwater quality may be impacted at the POC. The Director may amend this permit to designate additional points of compliance if information on groundwater gradients or groundwater usage indicates the need.

2.5. MONITORING REQUIREMENTS

[A.R.S. § 49-243(K)(1), A.A.C. R18-9-A206(A)]

Unless otherwise specified in this permit, all monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. Unless otherwise provided, monitoring shall commence the first full monitoring period following permit issuance. All sampling, preservation and holding times shall be in accordance with currently accepted standards of professional practice. Trip blanks, equipment blanks and duplicate samples shall also be obtained, and Chain-of-Custody procedures shall be followed, in accordance with currently accepted standards of professional practice. Copies of laboratory analyses and Chain-of-Custody forms shall be maintained at the permitted facility. Upon request, these documents shall be made readily available for review by ADEQ personnel.

2.5.1. Pre-Operational Monitoring

Not Applicable.

2.5.2. Routine Discharge Monitoring

The permittee shall monitor the effluent according to Section 4.2, Table 7: ROUTINE DISCHARGE MONITORING. Representative samples of the effluent shall be collected downstream of the UV disinfection unit. Flow will be measured at the effluent lift station flow meter.

2.5.3. Reclaimed Water Monitoring

Not Applicable. Effluent is discharged to the drip irrigation field as disposal rather than reuse.

2.5.4. Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.2, Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING.

If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in case of a violation or exceedance as per Section 2.7.3.

2.5.5. Groundwater Monitoring and Sampling Protocols

Groundwater monitoring is not required under the terms of this permit.

2.5.6. Surface Water Monitoring and Sampling Protocols

Routine surface water monitoring is not required under the terms of this permit.

2.5.7. Analytical Methodology

All samples collected for compliance monitoring shall be analyzed using Arizona state-approved methods. If no state-approved method exists, then any appropriate EPA-approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. If all methods have detection limits higher than the applicable limit, the permittee shall follow the applicable contingency requirements of Section 2.6 and may propose "other actions" including amending the permit to set higher limits. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification unless exempted under A.R.S. 36-495.02. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of state-certified laboratories in Arizona can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
250 North 17th Avenue
Phoenix, Arizona 85007
Phone: (602) 364-0720

2.5.8. Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative samples required by the permit can be collected. If new groundwater wells are determined to be necessary, the construction details shall be submitted to ADEQ for approval prior to installation and the permit shall be amended to include any new monitoring points.

2.6. CONTINGENCY PLAN REQUIREMENTS

[A.R.S. § 49-243(K)(3), (K)(7) and A.A.C. R18-9-A204, R18-9-A205 and R18-9-C305(A)(1)]

2.6.1. General Contingency Plan Requirements

The permittee shall prepare and implement a contingency plan consistent with the circumstances and actions described in Sections 2.6.2 through 2.6.5 and with A.A.C. R18-9-A204. At least one copy of this permit and the contingency plan, referenced in Section 5.0, shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. A permittee shall advise all employees responsible for the operation of the facility of the location of the contingency plan. The permittee shall revise the contingency plans upon any significant change to the information contained in the plan.

Any AL exceedance, or violation of a discharge limit (DL), or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3, unless more specific reporting requirements are set forth in Section 2.6.2 through 2.6.5.

Some contingency actions involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated a DL. Where verification sampling is specified in this permit, it is the option of the permittee to perform such sampling. If verification sampling is not conducted within the timeframe allotted, ADEQ and the permittee shall presume the initial sampling result to be confirmed as if verification sampling had been conducted. The permittee is responsible for compliance with contingency actions relating to the exceedance of an AL or violation of a DL, or any other permit condition. The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit.

2.6.2. Exceeding of Alert Levels and Performance Levels

2.6.2.1. Exceeding of Performance Levels Set for Operational Conditions

For freeboard performance levels, the permittee shall comply with the requirements as specified in Section 4.2, Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING to prevent the overtopping of a tank. If a tank is overtopped, the permittee shall follow the requirements in Section 2.6.5.3 and the reporting requirements of Section 2.7.3. This includes releases of more than 2,000 gallons of raw influent from the collection system or a treatment process prior to biological treatment that are contained onsite.

If a performance level set in Section 4.2, Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING has been exceeded the permittee shall:

1. Notify ADEQ within five (5) days of becoming aware of the exceedance per Section 2.7.5.

2. Submit a written report to ADEQ within thirty (30) days after becoming aware of the exceedance per Section 2.7.5. The report shall document all of the following:
 - a. A description of the exceedance and the cause of the exceedance;
 - b. The period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
 - c. Any action taken or planned to mitigate the effects of the exceedance or spill, or to eliminate or prevent recurrence of the exceedance or spill;
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS; and
 - e. Any malfunction or failure of pollution control devices or other equipment or process.

The facility is no longer on alert status once the operational indicator no longer indicates that a performance level is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

2.6.2.2. Exceeding of Alert Levels Set for Discharge Monitoring

1. If an AL set in Section 4.2, Table 7: ROUTINE DISCHARGE MONITORING has been exceeded, the permittee shall investigate to determine the cause of the AL exceedance within twenty-four (24) hours, or as soon as practicable. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the exceedance;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the exceedance, the permittee shall sample individual waste streams composing the wastewater for the parameter(s) in question, if necessary to identify the cause of the exceedance.
2. The permittee shall initiate actions identified in the contingency plan referenced in Section 2.6.1 'General Contingency Plan Requirements' and specific contingency measures identified in Section 2.6 to resolve any problems identified by the investigation which may have led to the AL exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6 Corrective Actions.
3. Within thirty (30) days of an AL exceedance, the permittee shall submit the laboratory results to ADEQ per Section 2.7.5 along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.
4. Upon review of the submitted report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.2.1. Exceeding Permit Flow Limit

1. If the AL for average monthly flow in Section 4.2, Table 6: ROUTINE FLOW MONITORING has been exceeded, the permittee shall submit an application to ADEQ for an Aquifer Protection Permit (APP) amendment to expand the WWTF, or submit a report detailing the reasons an expansion is not necessary. Acceptance of the report instead of an application for expansion requires ADEQ approval.

2.6.2.3. Exceeding of Alert Levels in Groundwater Monitoring

Not applicable.

2.6.3. Discharge Limit Violation

1. If a discharge limit (DL) set in Section 4.2, Table 7: ROUTINE DISCHARGE MONITORING has been violated, the permittee shall investigate to determine the cause within twenty-four (24) hours, or as soon as practicable. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the violation;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the violation, the permittee shall sample individual waste streams composing the wastewater for the parameters in violation, as necessary to identify the cause of the violation.

The permittee shall submit a report to ADEQ according to Section 2.7.3, which includes a summary of the findings of the investigation, the cause of the violation, and actions taken to resolve the problem. The permittee shall consider and ADEQ may require corrective action that may include control of the source of discharge, cleanup of affected soil, surface water or groundwater, notification of downstream or downgradient users who may be directly affected by the discharge, and mitigation of the impact of pollutants on existing uses of the aquifer. Corrective actions shall either be specifically identified in this permit, included in an ADEQ-approved contingency plan, or separately approved according to Section 2.6.6.

2. Upon review of the submitted report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions.

2.6.4. Aquifer Quality Limit Violation

Not applicable.

2.6.5. Emergency Response and Contingency Requirements for Unauthorized Discharges

[A.R.S. § 49-201(12) and § 49-241]

2.6.5.1. Duty to Respond

Within twenty-four (24) hours, or as soon as practicable, the permittee shall act to correct any condition resulting from a discharge pursuant to A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

2.6.5.2. Discharge of Hazardous Substances or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances (A.R.S. § 49-201(19)) or toxic pollutants (A.R.S. § 49-243(I)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the discharged material. The permittee shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify ADEQ within twenty-four (24) hours of discovering the discharge of hazardous material which (a) has the potential to cause an AWQS exceedance, or (b) could pose an endangerment to public health or the environment.

2.6.5.3. Discharge of Non-Hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up as soon as possible. The permittee shall notify ADEQ within twenty-four (24) hours of discovering the discharge of non-hazardous material which has the potential to cause an AWQS exceedance, or could pose an endangerment to public health or the environment.

2.6.5.4. Reporting Requirements

The permittee shall submit a written report for any unauthorized discharges reported under Sections 2.6.5.2 and 2.6.5.3 to ADEQ per Section 2.7.5 within thirty (30) days of the discharge or as required by subsequent ADEQ action. The report shall summarize the event, including any human exposure, and facility response activities and include all information specified in Section 2.7.3. If a notice is issued by ADEQ subsequent to the discharge notification, any additional information requested in the notice shall also be submitted within the time frame specified in the notice. Upon review of the submitted report, ADEQ may require additional monitoring or corrective actions.

2.6.6. Corrective Actions

Specific contingency measures identified in Section 2.6 CONTINGENCY PLAN REQUIREMENTS and actions identified in the approved contingency plan referenced in Section 2.6.1 have already been approved by ADEQ and do not require written approval to implement.

With the exception of emergency response actions taken under Section 2.6.5, the permittee shall obtain written approval from ADEQ prior to implementing a corrective action to accomplish any of the following goals in response to exceedance of an AL, DL, or another permit condition:

1. Control of the source of an unauthorized discharge;
2. Soil cleanup;
3. Cleanup of affected surface waters;
4. Cleanup of affected parts of the aquifer;
5. Mitigation to limit the impact of pollutants on existing uses of the aquifer.

Within thirty (30) days of completion of any corrective action not specified in Section 2.6.1 through 2.6.5, the operator shall submit to ADEQ per Section 2.7.5, a written report describing the causes, impacts, and actions taken to resolve the problem.

2.7. REPORTING AND RECORDKEEPING REQUIREMENTS

[A.R.S. § 49-243(K)(2), A.A.C. R18-5-104, R18-9-A206(B), and R18-9-A207]

2.7.1. Self-Monitoring Report Form

1. The permittee shall complete the SMRF provided by ADEQ, and submit the completed report through the myDEQ online reporting system per Section 2.7.5. The permittee shall use the format devised by ADEQ.
2. The permittee shall complete the SMRF to the extent that the information reported may be entered on the form. If no information is required during a reporting period, the permittee shall enter "not required" on the form, include an explanation, and submit the form to ADEQ.
3. The tables contained in Section 4.0 list the monitoring parameters and the frequencies for reporting results on the SMRF:

- a. Table 6: ROUTINE FLOW MONITORING
- b. Table 7: ROUTINE DISCHARGE MONITORING

The parameters listed in the above-identified tables from Section 4.0 are the only parameters for which SMRF reporting is required.

2.7.2. Operation Inspection / Log Book Recordkeeping

A signed copy of this permit shall be maintained at all times at the location where day-to-day decisions regarding the operation of the facility are made. A log book (paper copies, forms, or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where day-to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten years from the date of each inspection, and upon request, the permit and the log book shall be made readily available for review by ADEQ personnel. The information in the log book shall include, but not be limited to, the following information as applicable:

- 1. Name of inspector;
- 2. Date and shift inspection was conducted;
- 3. Condition of applicable facility components;
- 4. Any damage or malfunction, and the date and time any repairs were performed;
- 5. Documentation of sampling date and time; and
- 6. Any other information required by this permit to be entered in the log book.
- 7. Monitoring records for each measurement shall comply with A.A.C. R18-9-A206(B)(2).
- 8. Weekly onsite operator site visit sign-in to comply with A.A.C. R18-5-104.

2.7.3. Permit Violation and Alert Level Status Reporting

- 1. The permittee shall notify ADEQ per Section 2.7.5 within five (5) days (except as provided in Section 2.6.5 Emergency Response and Contingency Requirements for Unauthorized Discharges) of becoming aware of an AL exceedance, or violation of any permit condition, or DL for which notification requirements are not specified in Sections 2.6.2 through 2.6.5.
- 2. The permittee shall submit a written report to ADEQ per Section 2.7.5 within thirty (30) days of becoming aware of the violation of any permit condition, or DL. The report shall document all of the following:
 - a. Identification and description of the permit condition for which there has been a violation and a description of the cause;
 - b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;
 - c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS;
 - e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring; and
 - f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4. Operational, Other or Miscellaneous Reporting

The permittee shall record the information as required in Section 4.2, Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING in the facility log book as per Section 2.7.2, and report to ADEQ any violations or exceedances as per Section 2.7.3.

If the treatment facility is classified for reclaimed water under this permit, the permittee shall submit the reclaimed water monitoring results and flow volumes to any of the following in accordance with A.A.C. R18-9-B701(C)(2)(c):

1. Any reclaimed water agent who has contracted for delivery of reclaimed water from the permittee; and
2. Any end user who has not waived interest in receiving this information.

2.7.5. Reporting Location

All SMRF shall be submitted through the myDEQ portal accessible on ADEQ's website at: <https://www.azdeq.gov/mydeq>. Contact at 602-771-4571 for any inquiry related to the SMRF.

Five (5)-day and thirty (30)-day contingency notification and reports, laboratory reports, and verification sampling results required by this permit should be submitted through the myDEQ portal accessible on ADEQ's website at: <https://www.azdeq.gov/mydeq>.

If the required reports cannot be submitted, or require further documentation that cannot be submitted on the myDEQ portal, then submit items to APPContingencyreports@azdeq.gov or the address listed below:

The Arizona Department of Environmental Quality
Individual Aquifer Protection Program (APP) Unit - Groundwater Reclamation & Reuse Section
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4999

2.7.6. Reporting Deadline

The following table lists the quarterly report due dates:

Table 3: QUARTERLY REPORTING DEADLINES	
Monitoring Conducted During Quarter:	Quarterly Report Due By:
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

The following table lists the semi-annual and annual report due dates if applicable:

Table 4: (SEMI-)ANNUAL REPORTING DEADLINES	
Monitoring Conducted:	Report Due By:
Semi-annual: January-June	July 30
Semi-annual: July-December	January 30
Annual: January-December	January 30

2.7.7. Changes to Facility Information in Section 1.0

ADEQ shall be notified per Section 2.7.5 within ten days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person, Certified Operator in Direct Responsible Charge or Emergency Telephone Number.

2.8. Temporary Cessation

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A209(A)]

The permittee shall give written notice to ADEQ per Section 2.7.5 before ceasing operation of the facility for a period of sixty (60) days or greater. The permittee shall take the following measures upon temporary cessation:

1. If applicable, direct the wastewater flows from the facility to another state-approved wastewater treatment facility;
2. Correct the problem that caused the temporary cessation of the facility; and
3. Notify ADEQ with a monthly facility status report describing the activities conducted on the treatment facility to correct the problem.
4. Submittal of SMRF is still required; report "temporary cessation" in the comment section.

At the time of notification, the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. Following ADEQ approval, the permittee shall promptly implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to ADEQ of the operational status of the facility every three years. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

2.9. Closure

[A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9-A209(B)]

For a facility addressed under this permit, the permittee shall give written notice of closure to ADEQ per Section 2.7.5 of the intent to cease operation without resuming activity for which the facility was designed or operated. Submittal of SMRF is still required; report "closure in process" in the comment section.

2.9.1. Closure Plan

Within ninety (90) days following notification of closure, the permittee shall submit for approval to ADEQ per Section 2.7.5, a closure plan which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(3).

If the results of the implemented closure plan achieves clean-closure, ADEQ will issue a letter of approval to the permittee. If the closure plan contains a schedule for bringing the facility to a clean-closure configuration at a future date, ADEQ may incorporate any part of the schedule as an amendment to this permit.

2.9.2. Closure Completion

Upon completion of closure activities, the permittee shall give written notice to ADEQ per Section 2.7.5 indicating that the approved closure plan has been implemented fully and providing supporting documentation to demonstrate that clean-closure has been achieved (soil sample results, verification sampling results, groundwater data, as applicable). If clean-closure has been achieved, ADEQ shall issue a letter of approval to the permittee at that time. If any of the following conditions apply, the permittee shall follow the terms of post-closure stated in this permit:

1. Clean-closure cannot be achieved at the time of closure notification or within one year thereafter under a diligent schedule of closure actions;
2. Further action is necessary to keep the facility in compliance with the AWQS at the applicable POC or, for any pollutant for which the AWQS was exceeded at the time this permit was issued, further action is necessary to prevent the facility from further degrading the aquifer at the applicable POC with respect to that pollutant;
3. Remedial, mitigative or corrective actions or controls are necessary to comply with A.R.S. § 49-201(36) and Title 49, Chapter 2, Article 3;
4. Further action is necessary to meet property use restrictions;

SMRF submittals are required until Clean Closure is issued.

2.10. Post-closure

[A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9 A209(C)]

Post-closure requirements shall be established based on a review of facility closure actions and will be subject to review and approval by ADEQ.

In the event clean-closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to ADEQ a post-closure plan that addresses post-closure maintenance and monitoring actions at the facility. The post-closure plan shall meet all requirements of A.R.S. §§ 49-201(30) and 49-252 and A.A.C. R18-9-A209(C). Upon approval of the post-closure plan, this permit shall be amended or a new permit shall be issued to incorporate all post-closure controls and monitoring activities of the post-closure plan.

2.10.1. Post-Closure Plan

A specific post-closure plan may be required upon the review of the closure plan.

2.10.2. Post-Closure Completion

Not required at the time of permit issuance.

3.0 COMPLIANCE SCHEDULE

[A.R.S. § 49-243(K)(5) and A.A.C. R18-9-A208]

Unless otherwise indicated, for each compliance schedule item listed below, the permittee shall submit the required information to ADEQ per Section 2.7.5.

NOTE: Arizona law requires that engineering and geological documents such as cost estimates, drawings, specifications, maps, plans, and reports be signed and sealed by an Arizona registered professional engineer or an Arizona registered geologist, pursuant to the Arizona Board of Technical Registration statutes, unless a statutory exclusion or exemption applies. See A.R.S. § 32-101 to -152; A.A.C. R4-30-101 to -306.

Table 5: COMPLIANCE SCHEDULE ITEMS			
No.	Description	Due By:	Permit Amendment Required?
Engineer Certificate of Completion (ECOC) for WWTF modifications			
1.	The permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion in a format approved by ADEQ for the new and modified units of the WWTF as per Section 3.0 of the permit, that confirms that the facility is constructed according to ADEQ-approved design report, plans and specifications.	Within 90 days of completion of construction.	No
2.	Submit performance testing, as-built plans, and confirmation that the facility has received a hard copy of the Operation and Maintenance (O&M) Manual.	Within 90 days of completion of construction.	No
Closure of the existing WWTF components to be taken out of service			
3.	The permittee shall submit a clean closure strategy for existing WWTF components that will be taken out of service, to ADEQ to review and approve. The strategy shall address closure of the Bioclere tanks, including removal of any media, and the capping of any piping to and from the tanks.	Within 6 months of commencement of operation of the new and modified WWTF components	No
4.	The permittee shall conduct the closure activity for existing WWTF components per the Clean Closure Strategy approved by ADEQ under CSI #3.	Within 90 days of approval of the clean closure strategy by ADEQ	No
5.	The permittee shall submit an amendment application for closure of the existing WWTF components taken out of service along with the Clean Closure Report upon completion of the closure activities under CSI #4.	Within one year of completing the closure activity for existing WWTF components taken out of service	Yes
Monitoring for New or Adjusted AWQS			
6.	The permittee shall begin monthly baseline of the discharge in accordance with R18-9-A215(E)(6) at the sampling point listed under Table 7: ROUTINE DISCHARGE MONITORING. The permittee shall monitor for arsenic, bromate, chlorite, haloacetic acids, microbiological contaminants, total trihalomethanes and uranium.	Within 90 days of commencing the operation of the new and modified units	No
7.	The permittee shall submit the baseline monitoring report as part of an administratively complete permit amendment application, in accordance with R18-9-A215(F) upon completion of the baseline monitoring under CSI #6.	Within 90 days of the completion of the baseline monitoring under CSI #6	Yes

4.0 TABLES OF MONITORING REQUIREMENTS

4.1. PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable.

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4.2. COMPLIANCE OR OPERATIONAL MONITORING

Table 6: ROUTINE FLOW MONITORING					
Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
1	Effluent Lift Station flowmeter			31° 50' 01.6"	110° 20' 43.9"
Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Total Flow: Daily	Not Applicable	Not Applicable	MGD	Daily	Quarterly
Total Flow: Monthly Average	0.01305	0.0145	MGD	Monthly Calculation	Quarterly

Table 7: ROUTINE DISCHARGE MONITORING

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
2	Downstream of the UV disinfection			31° 50' 01.3"	110° 20' 44.2"
Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Fecal Coliform: Single sample maximum	Not Applicable	200	MPN ¹	Weekly ²	Quarterly
Total Nitrogen ³ :Five-sample rolling geometric mean ⁴	8	10	mg/l	Monthly Calculation	Quarterly
Cyanide (As Free Cyanide)	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
Fluoride	3.2	4.0	mg/l	Semi-Annually	Semi-Annually
Metals (Total)					
Antimony	0.0048	0.006	mg/l	Semi-Annually	Semi-Annually
Arsenic	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Barium	1.6	2	mg/l	Semi-Annually	Semi-Annually
Beryllium	0.0032	0.004	mg/l	Semi-Annually	Semi-Annually
Cadmium	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Chromium	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Lead	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Mercury	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Nickel	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Selenium	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Thallium	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually

¹ MPN = Most Probable Number / 100 ml sample. For MPN, a value of <2.2 shall be considered to be non-detect

² For fecal coliform, "weekly" sampling means each calendar week a sample must be obtained and delivered in sufficient time for proper analysis, provided that no less than one sample each week is obtained and analyzed.

³ Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen

⁴ The five-sample rolling geometric mean is determined by multiplying the five (5) most recent monthly sample values together then taking the fifth root of the product. Example: $GM_5 = \sqrt[5]{(m_1)(m_2)(m_3)(m_4)(m_5)}$

Table 7: ROUTINE DISCHARGE MONITORING (Continued)					
Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
2	Downstream of the UV disinfection Unit			31° 50' 01.3"	110° 20' 44.2"
Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs)					
Benzene	0.004	0.005	mg/l	Annually	Annually
Carbon tetrachloride	0.004	0.005	mg/l	Annually	Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Annually	Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Annually	Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Annually	Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Annually	Annually
cis-1,2-Dichloroethylene	0.056	0.07	mg/l	Annually	Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Annually	Annually
Dichloromethane	0.004	0.005	mg/l	Annually	Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Annually	Annually
Ethylbenzene	0.56	0.7	mg/l	Annually	Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Annually	Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Annually	Annually
Monochlorobenzene	0.08	0.1	mg/l	Annually	Annually
Styrene	0.08	0.1	mg/l	Annually	Annually
Tetrachloroethylene	0.004	0.005	mg/l	Annually	Annually
Toluene	0.8	1	mg/l	Annually	Annually
Trihalomethanes (total) ⁵	0.08	0.1	mg/l	Annually	Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Annually	Annually
1,1,1-Trichloroethane	0.16	0.20	mg/l	Annually	Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Annually	Annually
Trichloroethylene	0.004	0.005	mg/l	Annually	Annually
Vinyl Chloride	0.0016	0.002	mg/l	Annually	Annually
Xylenes (Total)	8	10	mg/l	Annually	Annually

⁵ Total Trihalomethanes (TTHMs) are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane

Table 8: FACILITY INSPECTION AND OPERATIONAL MONITORING

Pollution Control Structure/Parameter	Performance Level	Inspection Frequency	Reporting Frequency
Influent Pump Station and, Effluent Pump Station High-High level alarms	Tested to ensure audio/visual alarms are working and alarms are reaching the call-out system	Monthly	See Section 2.7.3
Influent Pump Integrity	Good working condition	Weekly	
Pump/Lift Station and primary Tanks Containment Structures	No cracks or spalling in concrete that results in leaks or impairs structural integrity. Concretes structural steel shall not be showing.	Monthly	
Bioreactor Tank Freeboard	One (1) Linear Foot	Daily	
MBC Intensification skid	One (1) Linear Foot	Daily	
Standby Generators or Automatic Transfer Switch	Fuel level checked and Generator tested to ensure preparation for emergency operation	Weekly	
Treatment Facility Components	Good working condition	Weekly	
Treatment Facility Components	No vegetation greater than 24-inches in height within any treatment containment structures, including pump stations, primary tanks, and Bioclere system	Monthly	
Effluent Pump Integrity	Good working condition	Weekly	
Drip Irrigation Emitters	At a minimum, check at least 165 different drip irrigation emitters to ensure that there are no clogs and that the treated effluent can be properly discharged. (660 Drip irrigation emitters annually)	Quarterly	
Drip Irrigation Emitters	Check the drip irrigation field for leaks and surface ponding during effluent pump station operation.	Quarterly	
Drip Irrigation Emitter field	No vegetation greater than 36-inches in height. (Other than trees intended to be in this field)	Quarterly	

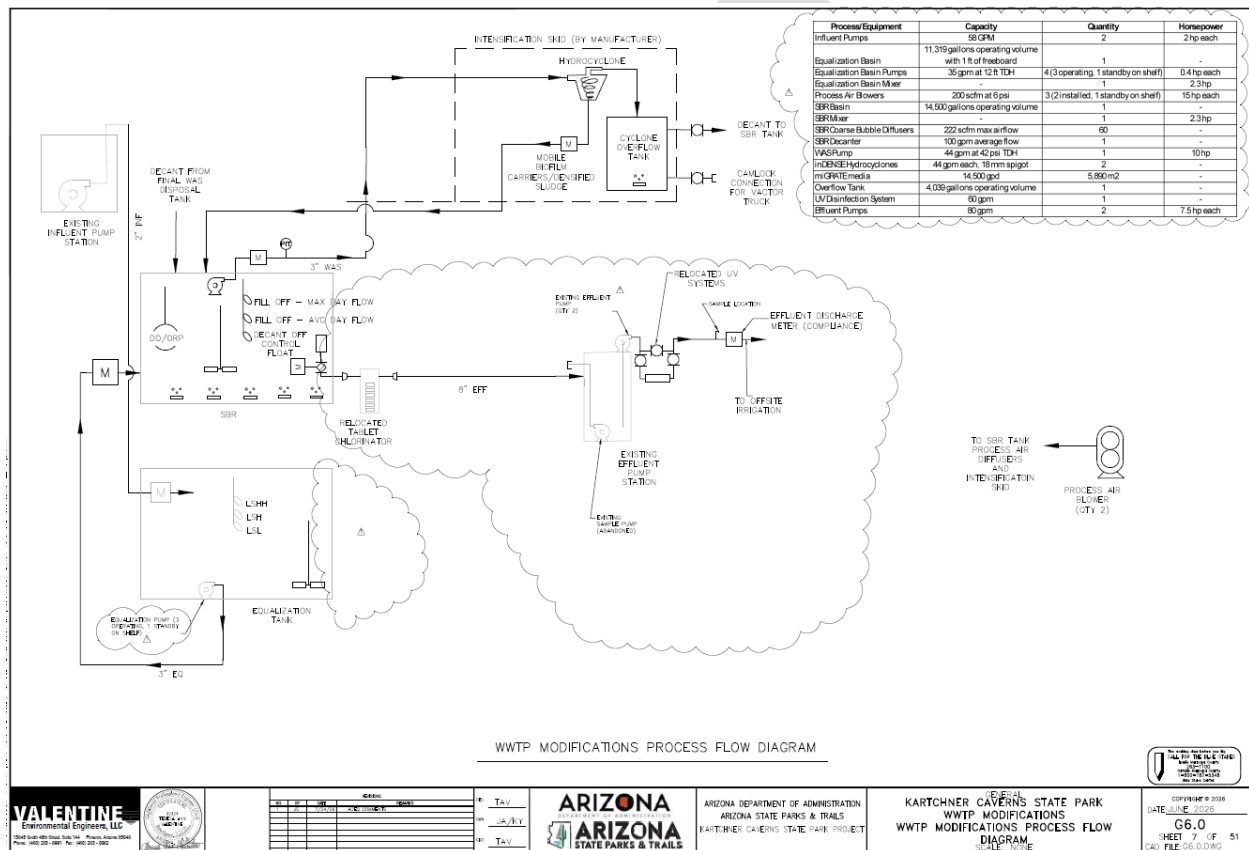
5.0 REFERENCES AND PERTINENT INFORMATION

The terms and conditions set forth in this permit have been developed based upon the information contained in the following, which are on file with ADEQ:

APP Application, dated: May 13, 2026

Contingency Plan: Kartchner Caverns State Park Wastewater Treatment Plant, PCS-22-133, Contingency Plan, April 2026

Process Flow Diagram:



6.0 NOTIFICATION PROVISIONS

6.1 Duty to Comply

[A.R.S. §§ 49-221 through 263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the A.R.S., Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the A.A.C. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 of the A.R.S. or permit amendment, suspension, or revocation.

6.2 Duty to Provide Information

[A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)]

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information which the Director may request to determine whether cause exists for amending or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

6.3 Compliance with Aquifer Water Quality Standards

[A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)]

The permittee shall not cause or contribute to a violation of an AWQS at the applicable point of compliance for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an AWQS for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable POC for the facility, the water quality of any aquifer for that pollutant.

6.4 Technical and Financial Capability

[A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A202(B) and R18-9-A203(E) and (F)]

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial capability, pursuant to A.A.C. R18-9-A203(C), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

6.5 Reporting of Bankruptcy or Environmental Enforcement

[A.A.C. R18-9-A207(C)]

The permittee shall notify the Director within five days after the occurrence of any one of the following:

1. the filing of bankruptcy by the permittee; or
2. the entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

6.6 Inspection and Entry

[A.R.S. §§ 49-1009, 49-203(B), and 49-243(K)(8)]

In accordance with A.R.S. §§ 41-1009 and 49-203(B), the permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the A.R.S., and Title 18, Chapter 9, Articles 1 through 4 of the A.A.C. and the terms and conditions of this permit.

6.7. Duty to Modify

[A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211]

The permittee shall apply for a permit amendment prior to making changes to the design or operational practices authorized by this permit.

6.8. Permit Action: Amendment, Transfer, Suspension, and Revocation

[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

This permit may be amended, transferred, suspended, or revoked for cause, under the rules of ADEQ. The permittee shall notify ADEQ in writing within 15 days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operators of the terms of this permit and the need for permit transfer in accordance with the rules.

7.0 ADDITIONAL PERMIT CONDITIONS

7.1. Other Information

[A.R.S. § 49-243(K)(8)]

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit the correct facts or information.

7.2. Severability

[A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition.

7.3. Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by ADEQ. No transfer shall be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).