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February 15, 2007

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Compliance Item:

AZ CORP COMMISSION
DOCUMENT CONTROL

Decision No. 68496 dated February 23, 2006 in WS-01303A-05-0315 states, "IT IS FURTHER ORDERED that the Arizona-American Water Company on behalf of its Mohave Sewer District shall file, within 365 days of effective date of this Decision, with Docket Control, as a compliance item in this docket, a copy of its Aquifer Permit issued to it by the Arizona Department of Environmental Quality to operate a public sewer utility."

Response:

Attached are copies of Arizona Department of Environmental Quality Aquifer Protection Permits for Wishing Well Wastewater Treatment Plant and Arizona Gateway Wastewater Treatment Plant located in Mohave County, Arizona.

Arizona Corporation Commission
DOCKETED

FEB 15 2007

DOCKETED BY	NR
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Janet Napolitano
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.adeq.state.az.us



Stephen A. Owens
Director

March 17, 2004

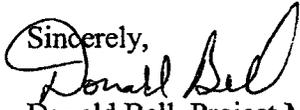
Mr. Troy Day
Arizona - American Water Company
19820 North 7th street, suite 201
Phoenix, AZ 85024

Re: Wishing Well Wastewater Treatment Plant (WWTP)
Aquifer Protection Permit (APP) No. P-102181

Dear Mr. Day:

Enclosed is a copy of the signed Aquifer Protection Permit Other Amendment, and the Executive Summary for the above referenced facility. The APP conditions shall apply from March 16, 2004, which is the date of the Water Quality Division Director's signature, and shall be valid for the life of the facility (operational, closure, and post-closure periods).

Thank you for your cooperation in protecting the water quality of the State of Arizona. If you have any questions about the permit or need further assistance, please contact me at (800) 234-5677 ext.771-4613 or (602) 771-4613.

Sincerely,

Donald Bell, Project Mgr.
Wastewater, Recharge, & Reuse Unit
Water Permits Section, Water Quality Division

Enclosures (2): Permit, and Executive Summary.

cc: Water Resources & Conservation Div., Attn: Mason Bolitho
Robert Casey, Manager, Water Quality Compliance Unit
Don Shroyer, Mgr., Water Quality Data Unit
Lynne Dekarske, Administrative Assistant, Water Programs Section

MWR03:0210

Northern Regional Office
1515 East Cedar Avenue • Suite F • Flagstaff, AZ 86004
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733

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EXECUTIVE SUMMARY
SIGNIFICANT AMENDMENT OF AQUIFER PROTECTION PERMIT NO. P-102181

Facility Name:

Wishing Well- Wastewater Treatment Plant

Facility Location:

The facility is located at 2 Wishing Well Drive, ½ mile east of State Highway 95, in Bullhead City, Arizona, over groundwater of the Lake Mohave Basin in Mohave County, Arizona, in Township 19 North, Range 22 West, Section 35 - Gila and Salt River baseline and meridian.

Regulatory Status:

The facility was issued an APP on December 14, 1992, modified on May 23, 1996 and on September 17, 1997. The permit was modified for the transfer of the permit to Arizona American Water, Inc. on June 16, 2000. The current significant amendment application was received on June 5, 2003. The facility was last issued Reuse permit No. R-100367 on March 31, 2000 and subsequently modified on January 15, 2002.

Facility Description:

The permittee is authorized to operate a 0.5 million gallons per day (MGD) extended aeration wastewater treatment plant (WWTP). The treatment process consists of screening, aeration, secondary clarification, pre-chlorination, filtration and final chlorination. Effluent shall meet the Class B reclaimed water standards as required by A.A.C. R18-11-306 for use under a valid reclaimed water permit as per A.A.C. R18-9 Articles 6 and 7. The effluent is pumped to effluent storage basins for consumptive use irrigation on a golf course under a valid reuse permit. The sludge is digested in an aerobic digester and hauled off-site for disposal. The effluent is monitored at the effluent pump station prior to discharge to the reuse site.

Amendment Description:

This amendment was initiated to classify the wastewater effluent for use as reclaimed water. The following summarizes the amendment changes:

1. Section 2.1 Language added to classify the facility as producing Class B reclaimed water. Deleted language referring to the un-constructed rapid infiltration basins, since the facility plans to dispose of the reclaimed water under a valid reclaimed water permit.
2. Section 2.2.4 Language added to indicate the Class B reclaimed water.

EXECUTIVE SUMMARY
SIGNIFICANT AMENDMENT OF AQUIFER PROTECTION PERMIT NO. P-102181

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3. Section 4.0 The Monitoring requirements for Class B reclaimed water were inserted in Table I. Total Nitrogen monitoring was deleted. Metals and VOCs monitoring frequency was changed to annually.
4. Section 4.0., Table II, groundwater monitoring requirements, have been deleted as the facility will not dispose effluent in rapid infiltration basins.
5. The boilerplate of this permit has been revised using the new format.

Best Available Demonstrated Control Technology (BADCT):

Up to 0.5 MGD of domestic wastewater will be treated to Class B reclaimed water standards in an extended aeration system and consumptively reused according to a valid reclaimed water permit.

Monitoring Requirements:

The effluent will be monitored for flow, fecal coliform, metals and volatile organic compounds (VOCs). The sampling points are located at the discharge line exiting the effluent pump station wet well. Effluent is delivered to lined reclaimed water impoundments to be used for consumptive irrigation under a valid reclaimed water permit. Groundwater monitoring is not required as part of this permit.

Compliance with Aquifer Water Quality Standards (AWQS):

The facility will reuse the effluent at consumptive rates from the WWTP. The depth to groundwater at the facility is approximately 60 feet. The sludge will be sent off-site for disposal according to state and federal regulations. Because of the above-mentioned considerations, the facility is not expected to violate the Aquifer Water Quality Standards at the point of compliance.

Point of Compliance:

The point of compliance is located at the southwest corner of the recharge site and downgradient of the WWTP as shown in Section 2.4 of the permit. Groundwater monitoring is not required at the time of issuance.

Storm/Surface Water Considerations:

There are no storm/surface water considerations required for this facility. The facility is not located within a 100-year flood plain.

EXECUTIVE SUMMARY
SIGNIFICANT AMENDMENT OF AQUIFER PROTECTION PERMIT NO. P-102181

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Zoning Requirements:

The permittee submitted information with the original APP application dated August 31, 1990 that indicates that the WWTP complies with applicable zoning regulations.

Financial Capability:

The permittee has submitted the required information as per A.A.C. R18-9-A203. The permittee has stated in a letter that it has sufficient funds for the total cost of closure and post-closure care.

Technical Capability:

The plans for the WWTP were prepared by Mar-Wood Inc., a company that designs and constructs WWTPs in the state of Arizona. The WWTP will be operated by Arizona Certified Operators.

STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-102181
PLACE ID 1784 LTF 30157
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-American Water Company is hereby authorized to operate the **Wishing Well Wastewater Treatment Facility (WWTF)** located at 2 Wishing Well Drive, in the City of Bullhead City, Mohave County, Arizona, over groundwater of the Lake Mohave Basin in Mohave County, Arizona, Township 19 N, Range 22 W, portions of Sections 35 and 36, Gila and Salt River baseline and meridian.

This permit becomes effective on the date of the Water Quality Division Director's signature and shall be valid for the life of the facility (operational, closure, and post-closure periods), provided that the facility is constructed, operated, and maintained:

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

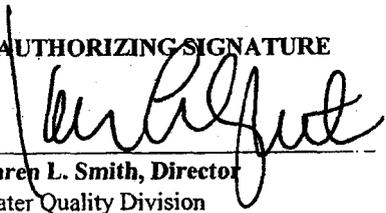
Facility Name:	Wishing Well WWTP	
Permittee:	Mailing Address:	Facility's Street Address:
Arizona-American Water Company	19820 N. 7 th Street, Suite 201 Phoenix, Arizona 85024	2 Wishing Well Drive, Bullhead City, Arizona 86442
Facility Contact:	Mr. Troy Day, Director, Water Quality	(623) 445-2422
Emergency Telephone Number:	(623) 445-2422	

Latitude: 34° 59' 07" North

Longitude: 114° 35' 18" West

Legal Description: Township 19 N, Range 22 W, Portions of Sections 35 and 36, Gila and Salt River baseline and meridian.

1.2 AUTHORIZING SIGNATURE



Karen L. Smith, Director
Water Quality Division
Arizona Department of Environmental Quality
Signed this 16th day of March, 2004

THE TEXT IN THIS AMENDMENT SUPERCEDES THE TEXT IN ALL PREVIOUS AQUIFER PROTECTION PERMITS ISSUED FOR THIS FACILITY.

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)]

The permittee is authorized to operate a 0.5 million gallons per day (MGD) extended aeration wastewater treatment plant (WWTP). The treatment process consists of screening, aeration, secondary clarification, pre-chlorination, filtration and final chlorination. Effluent shall meet the Class B reclaimed water standards as required by A.A.C. R18-11-306 for use under a valid reclaimed water permit as per A.A.C. R18-9 Articles 6 and 7. The effluent is pumped to lined effluent storage basins for consumptive use irrigation on a golf course under a valid reuse permit. The sludge is digested in an aerobic digester and hauled off-site for disposal. The effluent is monitored at the effluent pump station prior to discharge to the reuse site.

In addition to the APP permit conditions pertaining to treatment and disposal of sewage sludge, the permittee must also comply with the requirements for sewage sludge disposal in 40 Code of Federal Regulations (CFR) Part 503 and 18 A.A.C. Ch. 9, Art. 10.

Depth to groundwater at the site is approximately 60 feet and the direction of groundwater flow is to the southwest.

The materials authorized to be disposed of through the wastewater 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.

The site includes the following permitted discharging facilities:

Facility	Latitude	Longitude
Discharge to golf course	34° 59 ' 08" N	114° 35' 19" W

2.2 Best Available Demonstrated Control Technology [A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)]

The WWTP includes the following Best Available Demonstrated Control Technology.

2.2.1 Engineering Design

The treated effluent from the WWTP is used for consumptive reuse and may be discharged according to a valid reclaimed water permit. The tertiary treated effluent is expected to be of very high quality and will meet or exceed the Class B Reclaimed Water standards. Groundwater monitoring is not required at permit issuance.

2.2.2 Site-specific Characteristics

Not applicable.

2.2.3 Pre-Operational Requirements

Not applicable. The WWTP is currently in operation.

2.2.4 Operational Requirements

1. A copy of the new O & M manual shall be maintained at the WWTP site at all times and shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.0, Table III - Facility Inspection (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 on the Self-Monitoring Report Form submitted quarterly to the ADEQ Water Quality Compliance.

2.2.5 Wastewater Treatment Plant Classification [A.A.C. R18-9-703(C)(2)(a), A.A.C. R18-11-303 THROUGH 307]

The Reclaimed Water Classification for this facility is Class B as specified in Arizona Administrative Code (A.A.C.) R18-11-306.

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 Wishing Well Wastewater Treatment Facility (WWTF) with a maximum average monthly flow of 0.5 MGD.
2. The materials authorized to be disposed of through the wastewater 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. Specific discharge limitations are listed in Section 4.0, Table I.

2.4 Point(s) of Compliance (POC) [A.R.S. § 49-244]

Point of Compliance have been designated for this facility and are located at southwest corner of the storage basin at:

POC Locations	Latitude	Longitude
POC # 1	33° 35'06" N	112° 21' 23" W

Monitoring is not required at the time of issuance of this permit. The Director may designate additional points of compliance if groundwater information indicates the need.

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

All monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. All sampling, preservation and holding times shall be in accordance with currently accepted

of the facility. 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. The permittee shall consult the most recent version of the ADEQ Quality Assurance Project Plan (QAPP) and EPA 40 CFR PART 136 for guidance in this regard. Copies of laboratory analyses and chain of custody forms shall be maintained at the permitted facility. Upon request these documents shall be made immediately available for review by ADEQ personnel.

2.5.1 Discharge Monitoring

The permittee shall monitor the wastewater according to Section 4.0, TABLE I. A representative sample of the wastewater shall be collected at discharge effluent Pump station.

2.5.2 Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.0, TABLE III. A log of these inspections shall be kept at the facility for ten (10) years from the date of each inspection, available for review by ADEQ personnel.

- a. 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 on the Self-Monitoring Report Form submitted quarterly to the ADEQ Water Quality Compliance. If none of the conditions occur, the report shall say "no event" for a particular reporting period. If the facility is not in operation, the permittee shall indicate that fact in the Self-Monitoring Report.
- b. The permittee shall submit data required in Section 4.0, TABLE III regardless of the operating status of the facility unless otherwise approved by the Department or allowed in this permit.

2.5.3 Groundwater Monitoring and Sampling Protocols

Static water levels shall be measured and recorded prior to sampling. Wells shall be purged of at least three borehole volumes (as calculated using the static water level) or until indicator parameters (pH, temperature, conductivity) are stable, whichever represents the greater volume. If evacuation results in the well going dry, the well shall be allowed to recover to 80% of the original borehole volume, or for 24 hours, whichever is shorter, prior to sampling. If after 24 hours there is not sufficient water for sampling, the well shall be recorded as "dry" for the monitoring event. An explanation for reduced pumping volumes, a record of the volume pumped, and modified sampling procedures shall be reported and submitted with the Self-Monitoring Report Form (SMRF).

2.5.4 Surface Water Monitoring and Sampling Protocols

Sample collection, preservation, and holding times shall be consistent with the ADEQ Quality Assurance Project Plan and/or the procedures described in EPA 40 CFR PART 136 for methods that are in place by the effective date of the permit.

2.5.5 Analytical Methodology

compliance with the regulatory limits of the parameters specified in this permit. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of Arizona state certified laboratories can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
1740 W. Adams Street, Room 203 North
Phoenix, AZ 85007
Phone: (602) 364-0720

2.5.6 Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative wastewater, groundwater, soil, water, or sludge samples can be collected. Should new groundwater wells be determined to be necessary, the construction details shall be submitted to the ADEQ Water Permits Section for approval.

2.6 Contingency Plan Requirements

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

2.6.1 General Contingency Plan Considerations

At least one copy of the contingency and emergency response plan(s) shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and emergency plans.

Any alert level (AL) that is exceeded or any violation of an aquifer quality limit (AQL), discharge limit (DL), or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3.

Some contingency actions involve verification sampling. Verification sampling shall consist of the first followup sample collected from a location that previously indicated a violation or that an AL has been exceeded. 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 an AQL.

2.6.2 Exceeding of Alert Levels / Performance Levels (PL)

2.6.2.1 Exceeding of Performance Levels Set for Operational Conditions

If the PL set in Section 4.0, TABLE III, has been exceeded the permittee shall:

- a. Notify the ADEQ Northern Regional Office Water Quality Compliance Section in writing within five (5) days of becoming aware of a violation of a PL.
- b. Submit a written report within thirty (30) days after becoming aware of the violation

of a PL. The report shall document all of the following:

1. A description of the violation and its cause;
2. 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;
3. any action taken or planned to mitigate the effects of the violation, or the spill, or to eliminate or prevent recurrence of the violation;
4. any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause an exceedance of an Aquifer Water Quality Standard; and
5. any malfunction or failure of pollution control devices or other equipment or process.

2.6.2.2 Exceeding of Alert Levels Set for Discharge Monitoring

1. If an AL set in Section 4.0, TABLE I has been exceeded, the permittee shall conduct verification sampling within 24 hours of becoming aware of the alert status.
2. If the verification sampling confirms that the AL has been exceeded, the permittee shall immediately investigate to determine the cause of the AL being exceeded. 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 AL being exceeded.
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
3. The permittee shall initiate actions identified in the contingency plan referenced in Section 5.0 and specific contingency measures identified in Section 2.6 to resolve any problems identified by the investigation which may have led to an AL being exceeded. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6.
4. Within thirty (30) days after confirmation of an AL being exceeded, the permittee shall submit the laboratory results to the ADEQ Northern Regional Office Water Quality Compliance Section, along with a summary of the findings of the investigation, the cause of the AL being exceeded, and actions taken to resolve the problem.
5. Upon review of the submitted report, the Department may require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.3 Exceeding of Alert Levels in Groundwater Monitoring

2.6.2.3.1 Alert Levels for Indicator Parameters

No groundwater monitoring is currently required.

2.6.2.3.2 Alert Levels for Pollutants with Numeric Aquifer Water Quality Standards

No groundwater monitoring is currently required.

2.6.2.3.3 Alert Levels to Protect Downgradient Users from Pollutants Without Numeric Aquifer Water Quality Standards

No groundwater monitoring is currently required.

2.6.3 Discharge Limitations (DL) Violations

1. If a DL set in Section 4.0, TABLE I or II has been exceeded, the permittee shall conduct verification sampling within 24 hours of becoming aware of a DL being exceeded.
2. If verification sampling confirms that the DL has been violated, the permittee shall immediately investigate to determine the cause of the violation. 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;

The permittee also shall submit a report 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, 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 the contingency plan, or separately approved according to Section 2.6.6.

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

2.6.4 Aquifer Quality Limit (AQL) Violation

No groundwater monitoring is currently required.

2.6.5 Emergency Response and Contingency Requirements for Spills and Unauthorized Discharges

2.6.5.1 Duty to Respond

The permittee shall act immediately to correct any condition that could pose an endangerment to public health or the environment.

2.6.5.2 Spills of Hazardous Substances or Toxic Pollutants

In the event of any accidental spill or unauthorized discharge (A.R.S. § 49-201(12)) of suspected hazardous substances (A.R.S. § 49-201(18)) 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 spilled 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. Spilled materials, absorbents, and contaminated media generated during emergency response shall be removed and disposed of according to applicable federal, state and local regulations. The emergency response coordinator shall notify the ADEQ Emergency Response Unit at (602) 207-2330 immediately upon discovering a release of a hazardous substance in excess of a reportable quantity in accordance with 40 CFR Part 302, et seq.

2.6.5.3 Discharge of Non-hazardous Materials

In the event of any unauthorized discharge 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 Northern Regional Office Water Quality Compliance Section at (928) 773-0313 within 24-hours upon discovering the discharge of non-hazardous material which: a) has the potential to cause an AQL to be exceeded; or b) 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 described in Sections 2.6.5.2 and 2.6.5.3 to ADEQ Northern Regional Office Water Quality Compliance Section at (928) 773-0313 within thirty 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 that 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 and actions identified in the contingency plan 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 the Water Permits Section prior to implementing a corrective action to accomplish any of the following goals in response to exceeding an AL or violation of an AQL, DL, or other 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 30 days of completion of any corrective action, the operator shall submit to the ADEQ Water Quality Compliance Section, 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) and A.A.C. R18-9-A206(B) and R18-9-A207]

2.7.1 Self Monitoring Report Forms (SMRF)

1. The permittee shall complete the SMRFs provided by ADEQ, and submit them to the Water Quality Compliance Section, Data Unit.
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 quarter, the permittee shall enter "not required" on the SMRF and submit the report to ADEQ. The permittee shall use the format devised by ADEQ.
3. The tables contained in Sections 4.0 list the parameters to be monitored and the frequency for reporting results for groundwater compliance monitoring. Monitoring methods shall be recorded on the SMRFs.
4. In addition to the SMRF, the information contained in Section 6.9.3 shall be included for any exceedances or violations being reported for the current reporting period.

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 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 logbook shall be retained for ten years from the date of each inspection, and upon request, the permit and the logbook shall be made immediately 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 data and time;
6. names of samples;
7. static water level in monitor well prior to sampling;
8. sampling method;
9. purging volume;
10. indicator parameters including field conductance ($\mu\text{mhos/cm}$), field temperature ($^{\circ}\text{C}$), and field pH (standard units);
11. date of analysis;
12. preservation and transportation procedures;
13. the name of the analytical facility, and;
14. any other information as specified by this permit to be entered in the logbook.

2.7.3 Permit Violation and Alert Level Status Reporting

1. The permittee shall notify the ADEQ Northern Regional Office Water Quality Compliance Section in writing within five days (except as provided in Section 2.6.5) of becoming aware of a violation of any permit condition, discharge limitation or of an Alert Level being exceeded.
2. The permittee shall submit a written report to the ADEQ Northern Regional Office Water Quality Compliance Section within 30 days of becoming aware of the violation of any permit condition or discharge limitation. 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 its 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 Aquifer Water Quality Standard.
 - e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring.
 - 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 complete the Self-Monitoring Report Form provided by the Department to reflect facility inspection requirements designated in Section 4.0, TABLE III and submit to the ADEQ, Water Quality Compliance quarterly along with other reports required by this permit. Facility inspection reports shall be submitted no less frequently than quarterly, regardless of operational status.

2.7.5 Reporting Location

All SMRFs shall be submitted to:

Arizona Department of Environmental Quality
Water Quality Compliance Section, Data Unit
Mail Code: 5415B-1
1110 W. Washington Street
Phoenix, AZ 85007
Phone (602) 771-4681

All documents required by this permit to be submitted to the Water Quality Compliance Section shall be directed to:

Arizona Department of Environmental Quality
Water Quality Compliance Section, Enforcement Unit
Mail Code: 5415B-1
1110 W. Washington Street
Phoenix, AZ 85007
Phone (602) 771-4614

All documents required by this permit to be submitted to the Water Permits Section shall be directed to:

Arizona Department of Environmental Quality
Water Permits Section
Mail Code: 5415B-3
1110 W. Washington Street
Phoenix, AZ 85007
Phone (602) 771-4428

All documents required by this permit to be submitted to the Northern Regional Office Water Quality Compliance Section, enforcement Unit shall be directed to:

Arizona Department of Environmental Quality
Northern Regional Office Water Quality Compliance Section
1515 E Cedar Street, Suite F
Flagstaff, Arizona 86004
Phone (928) 773-0313

2.7.6 Reporting Deadline

The following table lists the quarterly report due dates:

Monitoring conducted during quarter:	Quarterly Report due by:
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

2.7.7 Changes to Facility Information in Section 1.0

The Water Permits Section and Water Quality Compliance Section shall be notified within 10 days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person 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 the Water Quality Compliance Section upon ceasing operation of the facility for a period of 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.
3. Notify ADEQ with a monthly facility Status Report describing the activities conducted on the WWTP to correct the problem.

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. Immediately following ADEQ's approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. If the facility will cease operation, 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)]

The permittee shall give written notice of closure to the Water Quality Compliance Section before closing, or before ceasing use of a facility addressed under this permit if the cessation is projected to last more than three years.

Within 90 days following notification of closure, the permittee shall submit for approval to the Water Permits Section, a detailed Closure Plan which meets the requirements of A.R.S. § 49-252 and A.A.C. 18-9-A209(B)(1)(a).

If the closure plan achieves clean closure immediately, ADEQ shall 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.

Upon completion of closure activities, the permittee shall give written notice to the Water Permits Section indicating that the approved Closure Plan has been implemented fully. 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 aquifer water quality standards at the applicable point of compliance;
3. Continued action is required to verify that the closure design has eliminated discharge to the extent intended;
4. Remedial or mitigative measures are necessary to achieve compliance with Title 49, Ch. 2;

5. Further action is necessary to meet property use restrictions.

2.9.1 Closure Plan

A specific closure plan is not required at the time of permit issuance.

2.9.2 Closure Completion

Not required at the time of permit issuance.

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 the Water Permits Section.

In the event clean closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Water Permits Section 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(29) 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 is not required at the time of permit issuance.

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]

Not required at the time of permit issuance.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE I
DISCHARGE MONITORING
DISCHARGE MONITORING FOR RECLAIMED WATER CLASS B

Sampling Point Number	Sampling Point Identification	Latitude	Longitude
1	Effluent Pump station prior to discharge to reuse	34° 59' 08" N	114° 35' 19" W

Parameter	AL ¹	DL ¹	Units	Sampling Frequency	Reporting Frequency
Flow: Daily	Reserved ²	Reserved	MGD ³	Everyday ⁴	Quarterly
Flow: Average monthly flow provided for reuse	0.475	0.5	MGD	Average of daily flow values	Quarterly
Fecal Coliform: Single-sample maximum	Reserved	800	CFU or MPN ⁵	Daily ⁶	Quarterly
Fecal Coliform: Four (4) of last seven (7) samples	Reserved	200	CFU or MPN	Daily ⁷	Quarterly

¹ AL = Alert Level. DL = Discharge Limit. The ALs and DLs are maximum numbers unless otherwise indicated.

² Limits may be established at a future date.

³ Million Gallons per Day

⁴ Flow rate shall be measured using a continuously recording flow meter.

⁵ CFU = Colony Forming Units per 100/ml; MPN = Most Probable Number per 100/ml

⁶ For fecal coliform, "daily" sampling means every day in which a sample can practicably be obtained and delivered in sufficient time for proper analysis, provided that no less than four (4) samples in each calendar week are obtained and analyzed.

⁷ If at least four (4) out of the last seven (7) samples are not greater than 200 CFU or MPN per 100ml, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) out of the last seven (7) samples are greater than 200 CFU or MPN per 100ml, report "no" in the appropriate space on the SMRF (indicating that the standard has **not** been met).

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE 1
DISCHARGE MONITORING (continued)

Parameter	AL ¹	DL ²	Units	Sampling Frequency	Reporting Frequency
Metals (Total):					
Antimony	0.0048	0.006	mg/l	Annually	Annually
Arsenic	0.04	0.05	mg/l	Annually	Annually
Barium	1.60	2.00	mg/l	Annually	Annually
Beryllium	0.0032	0.004	mg/l	Annually	Annually
Cadmium	0.004	0.005	mg/l	Annually	Annually
Chromium	0.08	0.1	mg/l	Annually	Annually
Cyanide (As free cyanide)	0.16	0.2	mg/l	Annually	Annually
Fluoride	3.2	4.0	mg/l	Annually	Annually
Lead	0.04	0.05	mg/l	Annually	Annually
Mercury	0.0016	0.002	mg/l	Annually	Annually
Nickel	0.08	0.1	mg/l	Annually	Annually
Selenium	0.04	0.05	mg/l	Annually	Annually
Thallium	0.0016	0.002	mg/l	Annually	Annually

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE I
DISCHARGE MONITORING (continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs):					
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	0.05	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
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	1.0	mg/l	Annually	Annually
Trihalomethanes (total) ⁸	0.08	0.1	mg/l	Annually	Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Annually	Annually
1,2,4 - Trichlorobenzene	0.056	0.07	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)	8.0	10.0	mg/l	Annually	Annually

⁸ Total Trihalomethanes comprises of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE II
GROUNDWATER MONITORING

Not required at issuance of this permit.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE III
PLANT I INSPECTION (OPERATIONAL MONITORING)

Pollution Control Structures/Parameter	Performance Level	Inspection Frequency
Pump Integrity	Good Working Condition	Weekly
Freeboard in the Effluent Holding Ponds	Minimum 3 feet	Weekly
Treatment Plant Components	Good Working Condition No visible cracks or leakage	Weekly
Industrial Wastewater Pretreatment Program / Ordinance	Active	Yearly

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 the Department:

1. Permit application dated: February 12, 1993 (Original)
June 6, 1996 (Modification)
September 17, 1997 (Modification)
June 5, 2003 (Significant Amendment)
2. APP Aquifer impact review dated: September 22, 1993
February 25, 1997 (Modification)
3. Public Notice dated: December 16, 1993
Modification Public notice date: April 10, 1997
Significant Amendment Public Notice: September 11, 2003
4. Public Hearing comments, correspondence and any additional supplemental information contained in the permit file.
5. ADEQ File Number: 102181

6.0 GENERAL CONDITIONS AND RESPONSIBILITIES

6.1 Annual Registration Fees.

The permittee shall pay an Annual Registration Fee to ADEQ. The Annual Registration Fee is based upon the amount of daily influent or discharge of pollutants in gallons per day as established by A.R.S. § 49-242(D). This fee is required to be paid to ADEQ each year.

6.2 Duty to Comply. [A.R.S. §§ 49-221 through 263]

The permittee shall comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the Arizona Revised Statutes, Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit modification, suspension, or revocation.

6.3 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.

6.4 Severability. [A.R.S. § 49-243(K)(8)]

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.

6.5 Proper Operation and Maintenance. [A.R.S. § 49-243(K)(8)]

The permittee shall, at all times, properly operate and maintain all facilities, treatment processes, and discharge control systems which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

6.6 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 aquifer water quality standard at the applicable point of compliance for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an aquifer water quality standard for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

6.7 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 in the permit application,

pursuant to A.A.C. R18-9-A203(D), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

6.8 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.
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.

6.9 Monitoring and Records. [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall retain records of all monitoring information, including copies of all reports required by this permit and records of all data used to complete the application for this permit, for a period of 10 years from the date of the sample, measurement report, or application. This period may be extended by request of the Director at any time.
3. At a minimum, records of monitoring information shall include:
 - a. The date, time, and exact place of sampling or measurements
 - b. The individual(s) who performed the sampling or measurements
 - c. The date(s) analyses were performed
 - d. The individual(s) who performed the analyses
 - e. The analytical techniques or methods used
 - f. The results of such analyses
 - g. The chain of custody records, and
 - h. Any field notes relating to the information described in (a) - (g) above.

6.10 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.

6.11 Inspection and Entry. [A.R.S. §§ 49-203(B) and 49-243(K)(8)]

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 Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit. In so doing, the Department representative may:

1. Enter upon the operator's premises where a regulated facility or activity is located or conducted, or locations where records must be kept under the conditions of this permit.
2. Have access to and copy, at reasonable times, any records required to be kept under the conditions of this permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance, any substances or parameters at any location.
5. Take photographs or video tape.
6. Take other actions reasonably necessary to determine compliance with Aquifer Protection Permit statutes or rules or the terms and conditions of this permit.

6.12 Duty to Modify. [A.R.S. § 49-243(K)(8)]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices authorized by this permit.

6.13 Permit Action: Amendment, Transfer, Suspension & 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, renewed, or revoked for cause, under the rules of the Department. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition. The Director shall issue a public notice of all proposed permit actions pursuant to A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213.

6.13.1 Permit Reopen.

The Director may reopen this permit and amend it pursuant to A.A.C. R18-9-A211.

6.13.2 Permit Transfer.

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

The permittee shall notify the Water Permits Section 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.





Janet Napolitano
Governor

ARIZONA DEPARTMENT
OF
ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.azdeq.gov



Stephen A. Owens
Director

November 1, 2004

Mr. Troy Day
Arizona-American Water Company
19820 North 7th Street.
Phoenix, AZ 85024

RE: Arizona Gateway Wastewater Treatment Plant
Singed Permit - Aquifer Protection Permit (APP) No. 105010

Dear Mr. Day:

Enclosed are the signed amendment to the Aquifer Protection Permit (APP) # 105010 and the Fact Sheet for the above referenced facility. The permit conditions shall apply from October 29, 2004, which is the date of the Water Quality Division Director's signature, and shall be valid for the life of the facility. Thank you for your cooperation in protecting the water quality of the State of Arizona.

If you have any questions about the permit or need further assistance, please contact me at (800) 234-5677 ext. 771-4683 or (602) 771-4683 or at akm@azdeq.gov by email.

Sincerely,

Asif Majeed, Manager
Wastewater, Recharge, & Reuse Unit
Water Permits Section, Water Quality Division

Attachments(2): Signed Permit and Fact Sheet

c: Jean Black, Hydrologist, Wastewater, Recharge, & Reuse Unit (letter only)
Diane Reed, ADEQ Biosolids Coordinator
Lynne Dekarske, Water Permits Section
Don Shroyer, Water Quality Compliance

WRR04:0933

Northern Regional Office
1515 East Cedar Avenue • Suite F • Flagstaff, AZ 86004
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733



FACT SHEET

Significant Amendment To Aquifer Protection Permit # 105010
LTF # 31789, Place ID # 16067
Arizona Gateway Wastewater Treatment Plant

The Arizona Department of Environmental Quality (ADEQ) proposes to issue an aquifer protection permit for the subject facility that covers the life of the facility, including operational, closure, and post-closure periods unless suspended or revoked pursuant to A.A.C. R18-9-A213. This document gives pertinent information concerning the issuance of the permit. The requirements contained in this permit will allow the permittee to comply with the two key requirements of the Aquifer Protection Program: 1) meet Aquifer Water Quality Standards at the Point of Compliance; and 2) demonstrate Best Available Demonstrated Control Technology (BADCT). BADCT's purpose is to employ engineering controls, processes, operating methods or other alternatives, including site-specific characteristics (i.e., the local subsurface geology), to reduce discharge of pollutants to the greatest degree achievable before they reach the aquifer or to prevent pollutants from reaching the aquifer.

I. FACILITY INFORMATION

Name and Location

Permittee's Name:	Arizona American Water Company
Mailing Address:	19820 North 7 th . Street Phoenix, AZ 85024
Facility name and location:	Arizona Gateway Wastewater Treatment Plant US-95 and I-40 Intersection Mohave County, Arizona

Regulatory Status

This is an existing facility. The facility received an Aquifer Protection Permit (APP) on February 3, 2003. This APP amendment application consisting of a startup plan was submitted on December 26, 2003 for changing the monitoring requirements for total nitrogen and nitrates to "reserved" for flows less than 3000 gallons per day, as the WWTP cannot denitrify the effluent at these low flows. There are no pending compliance actions concerning the facility.

Facility Description

The Arizona Gateway Wastewater Treatment Plant (WWTP) is a 112,000 gallon per day (gpd) capacity wastewater treatment plant. The wastewater is treated to secondary quality by an activated sludge wastewater treatment package plant with de-nitrification. Effluent is chlorine disinfected and de-chlorinated prior to discharge to two rapid rate infiltration basins. The effluent may also be reused under a valid reclaimed water permit. The

digested sludge is either disposed of at a landfill or hauled to another WWTP. Effluent monitoring is conducted as per Tables 1A and 1B.

If flows do not need exceed 3000 gallons per day, the facility may monitor the effluent as per Table 1C, as part of a start-up plan. This permit is being amended because at these low flows, the WWTP cannot denitrify the effluent. The facility must still disinfect to meet the BADCT criteria for coliform indicated in Table 1C. In addition the facility must perform weekly biological oxygen demand (BOD) and suspended solids (SS) to ensure the facility meets the secondary treatment standards.

The facility is located in the Sacramento Valley Groundwater Basin in the Colorado River – Lower Gila Watershed within the Basin and Range Physiographic Province which is defined by uplifted blocks or mountain ranges with intervening alluvial basins or valleys, created by extensional (pull apart) faulting. The elongated basins and ranges typically trend northwest-southeast and parallel one another. The facility is located within the Sacramento Valley Groundwater Basin bounded on the west by the Black Mountains, on the southwest by the Mohave Mountains, and on the east by the Cerbat and Hualapai Mountains. The mountains surrounding the basin consist of igneous and metamorphosed Precambrian granite and related crystalline intrusives, gneiss, schist, and volcanics. The volcanics include basalt flows, basaltic and andesitic flows, and rhyolite tuff that range in age from Cretaceous to Quaternary. Alluvial deposits in the basin have been divided into older intermediate and younger units which consist of interbedded silts, sands and gravels.

The actual facility site is located above a mixture of alluvium comprised of sands, gravels and silts, immediately south of ephemeral Sacramento Wash, in a narrow pass between the Mohave Mountains to the south and the Black Mountains to the north. Groundwater is flowing north-northwestward beneath the facility and curves to flow parallel to the westward draining Sacramento Wash, located approximately 0.25 miles north of the facility. Depth to groundwater beneath the facility is approximately 70 feet. The facility is not located within the 100-year flood plain for Sacramento Wash or an unnamed tributary, which is located approximately 500 feet east of the facility. This unnamed ephemeral tributary trends north-northwestward. Groundwater in the area does not exceed AWQS as indicated by the public water system drinking water well located 0.25 miles northwest of the facility.

The hydrogeology of the area was defined by ADWR Hydrologic Map Series Report No. 21, *Map Showing Groundwater Conditions in the Sacramento Valley Basin, Mohave County, Arizona – 1999*, by S.J Rascona, June 1991. Additional data was derived from ADEQ's AZMapper Program, ADEQ's Groundwater Database and ADWR's Groundwater Database.

The permittee shall notify all users that materials authorized to be disposed of through the WWTP are domestic strength wastewater 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.

In addition to the APP conditions pertaining to treatment and disposal of sewage sludge, the permittee must also comply with the requirements for any sewage sludge disposal in 40 Code of Federal Regulations (CFR) Part 503 and 18A.A.C.9, Article 10.

Amendment Description

The permit is being amended to document that at low flow conditions (3000 gallons per day or less), the WWTP cannot denitrify the effluent. Therefore Table IC has been added to monitor effluent under these circumstances. The reason the facility is receiving these low flows is that the expected growth has not occurred. This amendment is being submitted as per Arizona Administrative Code R 18-9-B202(A)(7) which allows for a start up plan. Listed below is the amendment description.

Section 2.1. Add language to describe low flow monitoring.

Section 2.2.5. Add language concerning reclaimed water classification based on the quality of effluent produced when flows are less than 3000 gallons per day.

Section 3.0. Add compliance schedule requiring submitting of a permit amendment when flows exceed 3000 gallons per day. When the permittee submits the permit amendment as per Section 3.0, the reclaimed water classification will also change to B+ from B, as the facility will be able to denitrify the effluent when flows are greater than 3000 gallons per day.

Section 4.0. Add Table IC for monitoring low flows. Also add Table IB to monitor effluent, if effluent is disposed under a reclaimed water permit.

Low flow conditions were incorporated into the permit to ensure that the plant would be able to achieve sufficient flow to be able to operate the facility in accordance with the individual APP permit conditions after start-up. These conditions were incorporated due to the operational difficulties encountered from low flows currently entering the facility. Site specific BADCT was incorporated into the conditions of the general permit A.A.C.R18-9-E316. These site specific conditions ensure that the facility will meet AWQS at the edge of the property (point of compliance).

II. BEST AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY (BADCT)

The Arizona Gateway WWTP is designed to treat effluent to the Class B reclaimed water quality standards (18A.A.C.11, Article 3) for flows less than 3000 gallons per day. Most of the effluent will be disposed in infiltration basins. Effluent may be reused under a valid reclaimed water permit. The effluent will be denitrified and de-chlorinated. If flows are less than 3000 gallons per day, the WWTP cannot denitrify the effluent due to low flows. However, at this flow the treatment still meets the requirements of general permit R18-9-

E316. Effluent will be monitored for nitrogen, metals, coliforms and volatile organic compounds (VOCs). In addition whenever effluent is discharged to the reuse site the effluent will also be monitored for Class B reclaimed water quality standards, which include monitoring for fecal coliform.

III. COMPLIANCE WITH AQUIFER WATER QUALITY STANDARDS

Monitoring and Reporting Requirements

The facility will produce denitrified and secondary treated effluent for flows greater than 3000 gallons per day. When flows are less than 3000 gallons per day, the effluent will meet the secondary standards but cannot be denitrified to a limit of 10.0 mg/l. The facility will chlorinate and de-chlorinate the effluent. In order to ensure that the facility is not creating any disinfection products, the permit requires monitoring for total trihalomethanes (TTHMs) with the discharge limit set at the Aquifer Water Quality Standard (AWQS). The permit also requires the permittee to meet the AWQS for metals, VOCs, and nitrogen in the effluent being discharged as per Tables 1A and 1B. When flows are less than less than 3000 gallons per day, the facility performs limited monitoring as per Table IB and 1C. The depth to groundwater is approximately 70 feet below ground surface (bgs) and the direction of groundwater flow is believed to be towards the northwest. Because of these considerations the facility is expected to be in compliance with the AWQS at the point of compliance.

Groundwater monitoring is not required for the facility because the facility will be discharging effluent at flows less than 3000 gallons per day that complies with the general permit conditions of A.A.C. R18-9-E316. Flows greater than 3000 gpd will meet AWQS at the point of discharge. Both low and high flows are expected to meet AWQS at the POC.

Point(s) of Compliance (POC) :

POC #	Descriptive Location	Latitude	Longitude	Monitoring Proposed
1	Northwest corner of infiltration basin # 1	34°43'43" N	114°18' 29" W	No monitoring well required at permit issuance

A groundwater monitoring well is not required at the POC, at the time of permit issuance. Groundwater monitoring may be required if the discharge limits are exceeded.

IV. STORM WATER and SURFACE WATER CONSIDERATIONS

The majority of the surface drainage within the study area is to the east and southeast from the White Tank Mountains to the center of the alluvial basin. All surface water drainages are ephemeral. The eastern portion of the WWTP site is located within the 100-year flood plain located on Tuthill Dike Wash. The WWTP site will be graded and

channelized to modify the floodway. Maricopa County has approved these floodway modifications. The recharge site does not appear to be located within the 100-year flood plain. Both sites will be graded to ensure local surface drainage away from the facilities due to direct precipitation.

V. COMPLIANCE SCHEDULE

Once the flows are exceeded beyond 3000 gallons per day, based on a monthly average, the permittee shall immediately start monitoring as per Table IA, and discontinue monitoring as per Table IC. The permittee shall submit a letter to ADEQ Water Quality Compliance Section – Data Unit and Water Permits Section, Wastewater Recharge and Reuse Unit notifying them of the exceedance of the 3000 gallon flow limit and stating that all future discharge monitoring shall be conducted under Table IA. The permittee shall submit a permit amendment for removing Table IC and changing the reclaimed water quality classification to B+ from B, within 30 days from the date of this letter.

VI. OTHER REQUIREMENTS FOR ISSUING THIS PERMIT

Technical Capability

Arizona-American Water Company has demonstrated the technical competence necessary to carry out the terms and conditions of the permit in accordance with A.R.S. § 49-243(N) and A.A.C. R18-9-A202(B). The WWTP is a Santec package plant. Bill Miller Engineering has signed and stamped the design report from Santec Engineering. The permit requires that appropriate documents be sealed by an Arizona registered geologist or professional engineer. This requirement is a part of an on-going demonstration of technical capability. The permittee is expected to maintain technical capability throughout the life of the facility.

Financial Capability

Arizona-American Water Company has demonstrated the financial responsibility necessary to carry out the terms and conditions of the permit in accordance with A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The permittee is expected to maintain financial capability throughout the life of the facility.

ADEQ currently holds a \$1,125,000 bond for all the facilities operated by Arizona-American Water Company. The permittee submitted a rider adding the Arizona Gateway facility to their above-referenced bond.

Zoning Requirements

Arizona Gateway WWTP has been properly zoned for the permitted use and the permittee has complied with all Mohave County zoning ordinances in accordance with A.R.S. § 49-243(O) and A.A.C. R18-9-A201(A)(2)(c).

VII. ADMINISTRATIVE INFORMATION

Public Notice (A.A.C. R18-9-108(A))

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

Public Comment Period (A.A.C. R18-9-109(A))

The aquifer protection program rules require that permits be public noticed in a newspaper of general circulation within the area affected by the facility or activity and provide a minimum of 30 calendar days for interested parties to respond in writing to ADEQ. After the closing of the public comment period, ADEQ is required to respond to all significant comments at the time a final permit decision is reached or at the same time a final permit is actually issued.

Public Hearing (A.A.C R18-9-109(B))

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

VIII. ADDITIONAL INFORMATION

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

Arizona Department of Environmental Quality
Water Quality Division – Wastewater, Recharge and Reuse Unit
Attn: Asif Majeed
1110 W. Washington St., Mail Code 5415B-3
Phoenix, Arizona 85007
Phone: (602) 771- 4683

STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-105010
PLACE ID 16067, LTF 31789
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, Arizona American Water Company is hereby authorized to operate the Arizona Gateway Wastewater Treatment Plant (WWTP) located near Lake Havasu City, Arizona in Mohave County, over groundwater of the Sacramento Valley Basin, in Township 16 N, Range 20 W, and Section 13 of the Gila and Salt River Base Line and Meridian.

This permit becomes effective on the date of the Water Quality Division Director's signature and shall be 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: Arizona Gateway Wastewater Treatment Plant

Permittee: Arizona Gateway Wastewater Treatment Plant
Mailing Address: 19820 N. 7th. Street Phoenix, AZ 85024
Facility's Street Address: Mohave County, AZ (I-40 and Hwy 95)

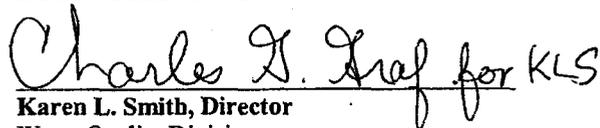
Facility Contact: Mr. Troy Day, Director of Water Quality (623) 445-2422

Emergency Telephone Number: (623) 445-2422

Latitude: 34° 43' 36" N **Longitude:** 114° 18' 43" W

Legal Description: Township 16N, Range 20 W, Section 13, SW1/4 - Gila and Salt River Base Line and Meridian Basin.

1.2 AUTHORIZING SIGNATURE


Karen L. Smith, Director

Water Quality Division
Arizona Department of Environmental Quality
Signed this 29th day of October, 2004

THIS PERMIT SUPERCEDES ALL PREVIOUS PERMITS

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)]

The Gateway Wastewater Treatment Plant (WWTP) is a 112,000 gallon per day (gpd) capacity wastewater treatment plant. The wastewater will be treated to secondary quality by an activated sludge wastewater treatment package plant with de-nitrification. Effluent will be chlorine disinfected and de-chlorinated prior to discharge to two rapid rate infiltration basins. Digested sludge shall be disposed of at a landfill or WWTP. Effluent monitoring shall be conducted as per Tables 1A and IB.

If flows do need exceed 3000 gallons per day, the facility may monitor the effluent as per Table 1C, as part of a start-up plan. If the flows at the facility are less than 3000 gallons per day, then the WWTP cannot denitrify the effluent. The facility will still need to disinfect to meet the BADCT criteria for coliform indicated in Table 1C. In addition the facility must perform weekly biological oxygen demand (BOD) and suspended solids (SS) to ensure the facility meets the secondary treatment standards.

The materials authorized to be disposed of through the WWTP are domestic strength wastewater 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.

The depth to groundwater is approximately 70 feet below ground surface (bgs). Groundwater is flowing north-northwestward beneath the facility and curves to flow parallel to the westward draining Sacramento Wash, located approximately 0.25 miles north of the facility.

The hydrogeology of the area was defined by ADWR Hydrologic Map Series Report No. 21, *Map Showing Groundwater Conditions in the Sacramento Valley Basin, Mohave County, Arizona - 1999*, by S.J Rascona, June 1991. Additional data was derived from ADEQ's AZMapper Program, ADEQ's Groundwater Database and ADWR's Groundwater Database.

The site includes the following permitted discharging facilities:

Facility	Latitude	Longitude
Wastewater Treatment Plant & Infiltration Basins	34° 43' 36" N	114° 18' 43" W

2.2 Best Available Demonstrated Control Technology [A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)]

The WWTP is designed to meet the treatment performance criteria as specified in Arizona Administrative Code R18-9-B204, unless flows are less than 3000 gallons per day.

2.2.1 Engineering Design

The WWTP is designed to denitrify the effluent, provide secondary treatment, and disinfection using chlorination and de-chlorination so that the effluent can be recharged. The facility design also includes a flow equalization tank to stabilize the flow entering the treatment units. The WWTP was designed based on a design report submitted by Santec Corporation and stamped by Bill Miller Engineering dated February January 16, 2002.

If flows at the facility are less than 3000 gallons per day, the facility cannot meet the total nitrogen limit of 10 mg/l. However the facility will be able to meet the secondary

secondary treatment standards and the disinfection criteria for the Class B reclaimed water quality standards.

2.2.2 Site-specific Characteristics

Site characteristics were not used to determine BADCT.

2.2.3 Pre-Operational Requirements

Not applicable.

2.2.4 Operational Requirements

1. The permittee shall maintain copies of the new O & M manual information at the WWTP site and this information shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.0, TABLE III - FACILITY INSPECTION (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 on the Self-Monitoring Report Form submitted quarterly to the ADEQ Water Quality Compliance.

2.2.5 Wastewater Treatment Plant Classification

A.C. R18-9-703(C)(2)(a), A.A.C. R18-11-303 THROUGH 307]

The facility shall produce Class B reclaimed water for beneficial uses consistent with the requirements listed in A.A.C. R18-11-306.

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

The permittee is authorized to operate the WWTP with an estimated average monthly daily flow of 0.112 MGD.

2.4 Points of Compliance (P.O.C.) [A.R.S. § 49-244]

The point of compliance for this facility is located immediately downgradient of the rapid rate infiltration basins (basin # 1). The POC location is shown below:

P.O.C.	P.O.C. Location	Latitude	Longitude
1	North of the Infiltration Basins	34° 43' 43" N	114° 18' 29" W

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)]

All monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. 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. The permittee shall consult the most recent version of the ADEQ Quality Assurance Project Plan (QAPP) and EPA 40 CFR PART 136

for guidance in this regard. Copies of laboratory analyses and chain of custody forms shall be maintained at the permitted facility. Upon request these documents shall be made immediately available for review by ADEQ personnel.

2.5.1 Discharge Monitoring

The permittee shall monitor the wastewater according to Section 4.0, TABLES 1A, 1B and 1C. A representative sample of the wastewater shall be collected at the point of discharge from the chlorination unit.

2.5.2 Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.0, TABLE III.

- a. 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 and submitted quarterly to the ADEQ Water Quality Compliance, with the Self-Monitoring Report Form (SMRF). If none of the conditions occur, the report shall say "no event" for a particular reporting period. If the facility is not in operation, the permittee shall indicate that fact to ADEQ Water Permits Section.
- b. The permittee shall submit data required in Section 4.0, TABLE III regardless of the operating status of the facility unless otherwise approved by the Department or allowed in this permit.

2.5.3 Groundwater Monitoring and Sampling Protocols

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

If groundwater monitoring is required as a contingency, then static water levels shall be measured and recorded prior to sampling. Wells shall be purged of at least three borehole volumes (as calculated using the static water level) or until indicator parameters (pH, temperature, conductivity) are stable, whichever represents the greater volume. If evacuation results in the well going dry, the well shall be allowed to recover to 80% of the original borehole volume, or for 24 hours, whichever is shorter, prior to sampling. If after 24 hours there is not sufficient water for sampling, the well shall be recorded as "dry" for the monitoring event. An explanation for reduced pumping volumes, a record of the volume pumped, and modified sampling procedures shall be reported and submitted with the Self-Monitoring Report Form (SMRF).

2.5.4 Surface Water Monitoring and Sampling Protocols

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

2.5.5 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. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification. For results to be considered valid, all analytical work shall meet quality

control standards specified in the approved methods. A list of Arizona state certified laboratories can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
1740 W. Adams Street, Room 203 North
Phoenix, AZ 85007
Phone: (602) 364-0720

2.5.6 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 the ADEQ Water Permits Section for approval prior to installation and the permit shall be amended to include any new points.

2.6 Contingency Plan Requirements

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

2.6.1 General Contingency Plan Considerations

At least one copy of the approved contingency and emergency response plan(s) submitted in the application shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and emergency plans.

Any alert level (AL) that is exceeded or any violation of an aquifer quality limit (AQL), discharge limit (DL), or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3.

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 an AQL. The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit. 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 has been conducted. The permittee is responsible for compliance with contingency plans relating to the exceedance of an AL or violation of a DL, AQL or any other permit condition.

2.6.2 Exceeding of Alert Levels/Performance Levels

2.6.2.1 Exceeding of Performance Levels (PL) Set for Operational Conditions

1. If the operational PL set in Section 4.0, TABLE III has been exceeded (permit condition violated) the permittee shall:
 - a. Notify the ADEQ Water Quality Compliance Section within five (5) days of becoming aware of a violation of any permit condition.

- b. Submit a written report within thirty (30) days after becoming aware of a violation of a permit condition. The report shall document all of the following:
 1. A description of the violation and its cause;
 2. 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;
 3. any action taken or planned to mitigate the effects or the violation, or the spill, or to eliminate or prevent recurrence of the violation;
 4. any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an Aquifer Water Quality Standard; and
 5. any malfunction or failure of pollution control devices or other equipment or process.
2. The facility is no longer on alert status once the operational indicator no longer indicates that an PL 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 4.0, TABLE I has been exceeded, the permittee may conduct verification sampling within 24 hours of becoming aware of the alert status.
2. If the verification sampling confirms that the AL has been exceeded, the permittee shall immediately investigate to determine the cause of the AL being exceeded. 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 AL being exceeded.
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
3. The permittee shall initiate actions identified in the approved contingency plan referenced in Part 5.0 and specific contingency measures identified in Part 2.6 to resolve any problems identified by the investigation which may have led to an AL being exceeded. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6.
4. Within thirty (30) days after confirmation of an AL being exceeded, the permittee shall submit the laboratory results to the ADEQ Water Quality Compliance Section, Data Unit, along with a summary of the findings of the investigation, the cause of the AL being exceeded, and actions taken to resolve the problem.

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

2.6.2.3 Exceeding of Alert Levels in Groundwater Monitoring

2.6.2.3.1 Alert Levels for Indicator Parameters

Not required at time of permit issuance.

2.6.2.3.2 Alert Levels for Pollutants with Numeric Aquifer Water Quality Standards

Not required at time of permit issuance.

2.6.2.3.3 Alert Levels to Protect Downgradient Users from Pollutants Without Numeric Aquifer Water Quality Standards

Not required at time of issuance.

2.6.3 Discharge Limitations (DL) Violations

1. If a DL set in Section 4.0, TABLE I has been exceeded, the permittee may conduct verification sampling within 24 hours of becoming aware of a DL being exceeded.
2. If verification sampling confirms that the DL has been violated, the permittee shall immediately investigate to determine the cause of the violation. 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;
3. The permittee also shall submit a report 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, 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.
4. Upon review of the submitted report, the Department may require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.4 Aquifer Quality Limit (AQL) Violation

Routine groundwater monitoring is not required as part of the permit. Contingency groundwater monitoring may be required as part of a Corrective Action in 2.6.6.

2.6.5 Emergency Response and Contingency Requirements for Spills and Unauthorized Discharges

2.6.5.1 Duty to Respond

The permittee shall act immediately to correct any condition resulting from a discharge 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 Spills of Toxic Pollutants

In the event of any unauthorized discharge (A.R.S. § 49-201(12)) of suspected hazardous substances (A.R.S. § 49-201(18)) or any spills of toxic pollutants (A.R.S. § 49-243(I)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the spilled 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. Spilled materials, absorbents, and contaminated media generated during emergency response shall be removed and disposed of according to applicable federal, state and local regulations. The permittee shall notify the ADEQ Water Quality Field Service Unit at (602) 771-4841 within 24-hours upon discovering the discharge of hazardous material which: a) has the potential to cause an AWQS or AQL to be exceeded; 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 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 the ADEQ Water Quality Field Services Unit at (602) 771-4841, within 24-hours upon discovering the discharge of non-hazardous material which: a) has the potential to cause an AQL to be exceeded; or b) 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 described in Sections 2.6.5.2 and 2.6.5.3 to ADEQ Water Quality Field Services Unit, Mail Code: 5415B-1, 1110 West Washington Street, Phoenix, AZ, within thirty 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 that 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 Part 2.6 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 the Water Permits Section prior to implementing a corrective action to accomplish any of the following goals in response to exceeding an AL or violation of an AQL, DL, or other 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 30 days of completion of any corrective action, the operator shall submit to the ADEQ Water Quality Compliance Section, 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) and A.A.C. R18-9-A206(B) and R18-9-A207]

2.7.1 Self Monitoring Report Forms (SMRF)

1. The permittee shall complete the SMRFs provided by ADEQ, and submit them to the Water Quality Compliance Section, Data Unit.
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 quarter, the permittee shall enter "not required" on the SMRF and submit the report to ADEQ. The permittee shall use the format devised by ADEQ.
3. The tables contained in Sections 4.0 list the parameters to be monitored and the frequency for reporting results for groundwater compliance monitoring. Monitoring methods shall be recorded on the SMRFs.
4. In addition to the SMRF, the information contained in Section 6.9.3 shall be included for exceeding an AL or violation of an AQL, DL, or any other permit condition being reported in the current reporting period.

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 immediately 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;
6. Any other information required by this permit to be entered in the log book, and
7. Monitoring records for each measurement shall comply with R18-9 A206(B)(2).

2.7.3 Permit Violation and Alert Level Status Reporting

1. The permittee shall notify the Water Quality Compliance Section, Enforcement Unit in writing within five days (except as provided in Section 2.6.5) of becoming aware of a violation of any permit condition, discharge limitation or of an Alert Level being exceeded.
2. The permittee shall submit a written report to the Water Quality Compliance Section, Enforcement Unit within 30 days of becoming aware of the violation of any permit condition or discharge limitation. 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 its 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 Aquifer Water Quality Standard.
 - e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring.
 - 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 complete the Self-Monitoring Report Form provided by the Department to reflect facility inspection requirements designated in Section 4.0, TABLE III and submit to the ADEQ, Water Quality Compliance quarterly along with other reports required by this permit. Facility inspection reports shall be submitted no less frequently than quarterly, regardless of operational status.

2.7.5 Reporting Location

All SMRFs shall be submitted to:

Arizona Department of Environmental Quality
Water Quality Compliance Section, Data Unit
Mail Code: 5415B-1
1110 W. Washington Street
Phoenix, AZ 85007
Phone (602) 771-4681

All documents required by this permit to be submitted to the Water Quality Compliance Section shall be directed to:

Water Quality Compliance Section, Enforcement Unit
Mail Code: 5415B-1
1110 W. Washington Street
Phoenix, AZ 85007
Phone (602) 771-4614

All documents required by this permit to be submitted to the Water Permits Section shall be directed to:

Arizona Department of Environmental Quality
 Water Permits Section
 Mail Code: 5415B-3
 1110 W. Washington Street
 Phoenix, AZ 85007
 Phone (602) 771-4428

2.7.6 Reporting Deadline

The following table lists the quarterly report due dates:

Monitoring conducted during quarter	Quarterly Report due by
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

2.7.7 Changes to Facility Information in Section 1.0

The Water Permits Section and Water Quality Compliance Section shall be notified within 10 days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person or Emergency Telephone Number.

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

Not applicable.

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

The permittee shall give written notice of closure to the Water Quality Compliance Section before closing, or before ceasing use of a facility addressed under this permit if the cessation is projected to last more than one year.

Within 90 days following notification of closure, the permittee shall submit for approval to the Water Permits Section, a detailed Closure Plan which meets the requirements of A.R.S. § 49-252 and A.A.C. 18-9-A209(B)(1)(a).

If the closure plan achieves clean closure immediately, ADEQ shall 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.

Upon completion of closure activities, the permittee shall give written notice to the Water Permits Section indicating that the approved Closure Plan has been implemented fully. 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 aquifer water quality standards at the applicable point of compliance;
3. Continued action is required to verify that the closure design has eliminated discharge to the extent intended;
4. Remedial or mitigative measures are necessary to achieve compliance with Title 49, Ch. 2;
5. Further action is necessary to meet property use restrictions.

2.9.1 Closure Plan

A specific closure plan is required within 180 days of closure of

these ten

2.9.2 Closure Completion

Not required at the time of permit issuance.

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 the Water Permits Section.

In the event clean closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Water Permits Section 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(29) 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]

Once the flows are exceeded beyond 3000 gallons per day, based on a monthly average, the permittee shall immediately start monitoring as per Table IA, and discontinue monitoring as per Table IC. The permittee shall submit a letter to ADEQ Water Quality Compliance, Section – Data Unit and Water Permits Section, Wastewater Recharge and Reuse Unit notifying them of the exceedance of the 3000 gallon flow limit and stating that all future discharge monitoring shall be conducted under Table IA. The permittee shall submit a permit amendment for removing Table IC and changing the reclaimed water quality classification to B+ from B, and consequently Table IB will be deleted, within 30 days from the date of this letter.

4.0 TABLES OF MONITORING REQUIREMENTS

**TABLE I A
DISCHARGE MONITORING**

Sampling Point Number	Sampling Point Identification		Latitude		Longitude
1	Point of discharge from the chlorination unit		34° 43' 3 6"N		114° 18' 43" W
Parameter	AL ¹	DL ²	Units	Sampling Frequency	Reporting Frequency
Total Flow: Daily	Reserved	Reserved ³	MGD ⁴	Daily ⁵	Quarterly
Total Flow: Average Monthly	0.106	0.112	MGD	Monthly ⁶	Quarterly
Flow Recharge: Daily	Reserved	Reserved	MGD	Daily	Quarterly
Flow Reuse: Daily	Reserved	Reserved	MGD	Daily	Quarterly
Fecal Coliform Single sample maximum	Reserved	800	CFU or MPN ⁷	Monthly	Quarterly
Fecal Coliform Seven sample median	Reserved	200	CFU or MPN	Monthly	Quarterly
Total Nitrogen ⁸ : 5-sampling rolling geometric mean.	8.0	10.0	mg/l	Monthly ⁹	Quarterly

¹ AL = Alert Level.

² DL = Discharge Limit.

³ Reserved = Monitoring required but no limits have been specified at time of permit issuance.

⁴ MGD = Million Gallons per Day.

⁵ Flow shall be measured using a continuous recording flow meter.

⁶ Monthly = Calculated value = Average of daily flows in a month.

⁷ CFU = Colony Forming Units / 100 ml sample. MPN = Most Probable Number / 100 ml sample

⁸ Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen.

⁹ A 5-Month Geometric Mean of the results of the 5 most recent samples.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IA
DISCHARGE MONITORING (Continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Metals (Total):					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE 1A
DISCHARGE MONITORING (Continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs):					
Benzene	0.004	0.005	mg/l	Quarterly	Quarterly
Carbon tetrachloride	0.004	0.005	mg/l	Quarterly	Quarterly
o-Dichlorobenzene	0.48	0.6	mg/l	Quarterly	Quarterly
para-Dichlorobenzene	0.06	0.075	mg/l	Quarterly	Quarterly
1,2-Dichloroethane	0.004	0.005	mg/l	Quarterly	Quarterly
1,1-Dichloroethylene	0.0056	0.007	mg/l	Quarterly	Quarterly
cis-1,2-Dichloroethylene	0.05	0.07	mg/l	Quarterly	Quarterly
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Quarterly	Quarterly
Dichloromethane	0.004	0.005	mg/l	Quarterly	Quarterly
1,2-Dichloropropane	0.004	0.005	mg/l	Quarterly	Quarterly
Ethylbenzene	0.56	0.7	mg/l	Quarterly	Quarterly
Monochlorobenzene	0.08	0.1	mg/l	Quarterly	Quarterly
Styrene	0.08	0.1	mg/l	Quarterly	Quarterly
Tetrachloroethylene	0.004	0.005	mg/l	Quarterly	Quarterly
Toluene	0.8	1.0	mg/l	Quarterly	Quarterly
Trihalomethanes (total) ¹⁰	0.08	0.1	mg/l	Quarterly	Quarterly
1,1,1-Trichloroethane	0.16	0.2	mg/l	Quarterly	Quarterly
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Quarterly	Quarterly
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Quarterly	Quarterly
Trichloroethylene	0.004	0.005	mg/l	Quarterly	Quarterly
Vinyl Chloride	0.0016	0.002	mg/l	Quarterly	Quarterly
Xylenes (Total)	8.0	10.0	mg/l	Quarterly	Quarterly

¹⁰Total Trihalomethanes comprises of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE 1B
 RECLAIMED WATER MONITORING TABLE - CLASS B
 (Sampling required only if effluent is discharged to Reuse Site)

Sampling Point Number	Sampling Point Identification	Latitude	Longitude
1	Chlorination Unit	34°43'36"N	114° 18' 43" W

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Fecal Coliform: Single-sample maximum	Reserved	800	CFU or MPN ¹¹	Daily ¹²	Quarterly
Fecal Coliform: Four (4) of last seven (7) samples	Reserved	200 ¹³	CFU or MPN	Daily	Quarterly

¹¹ CFU = Colony Forming Units per 100 ml: MPN = Most Probable Number per 100 ml. For CFU, a value of <1 shall be considered to be non-detect. For MPN, a value of <2.2 shall be considered to be non-detect.

¹² For fecal coliform, "daily" sampling means every day in which a sample can practicably be obtained and delivered in sufficient time for proper analysis, provided that no less than four (4) samples in each calendar week are obtained and analyzed.

¹³ If at least four (4) of the last seven (7) samples are at or below this limit, then report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) of the last seven (7) samples have are equal to or greater than this limit, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

TABLE I C
DISCHARGE MONITORING
START UP PLAN MONITORING
(FOR FLOWS 3000 GALLONS PER DAY OR LESS)

Sampling Point Number	Sampling Point Identification		Latitude		Longitude
1	Point of discharge from the chlorination unit		34°43'36"N		114° 18' 43" W
Parameter	AL ¹⁴	DL ¹⁵	Units	Sampling Frequency	Reporting Frequency
Flow: Daily	Reserved	.003	MGD ¹⁶	Daily ¹⁷	Quarterly
Total Nitrogen	Reserved	53.0	MGD	Monthly	Quarterly
Biological Oxygen Demand (BOD)	Reserved	30.0	MGD	Weekly	Quarterly
Suspended Solids (SS)	Reserved	30.0	MGD	Weekly	Quarterly
Fecal Coliform Single sample maximum	Reserved	800	CFU or MPN ¹⁸	Monthly	Quarterly
Fecal Coliform Seven sample median	Reserved	200	CFU or MPN	Monthly	Quarterly

¹⁴ AL = Alert Level.

¹⁵ DL = Discharge Limit.

¹⁶ MGD = Million Gallons per Day.

¹⁷ Flow shall be measured using a continuous recording flow meter.

¹⁸ CFU = Colony Forming Units / 100 ml sample. MPN = Most Probable Number / 100 ml sample

**TABLE II
GROUNDWATER MONITORING
NOT REQUIRED**

**TABLE III
FACILITY INSPECTION (Operational Monitoring)**

Pump Integrity	Good Working Conditions	Weekly
Treatment Plant Components	Good Working Conditions	Weekly
Berm Integrity	No Visible Erosion	Weekly

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 the Department:

1. APP Application dated: 02/06/02 (original APP), 12/ 23/03 (significant amendment)
2. Contingency Plan, dated: Feb. 2002 (submitted in the APP application as exhibit B-7)
3. Final Hydrologist Memo dated: 3/ 6/02 (original APP),
4. Final Engineering Memo dated: 5/23/02 (original APP), 01/26/04 (significant amendment)
5. Public Notice dated: 10/25/02 (original APP), 7/8/2004 (significant amendment)
6. Public Hearing, dated: Not applicable
7. Responsiveness Summary, dated: Not applicable

6.0 GENERAL CONDITIONS AND RESPONSIBILITIES**6.1 Annual Registration Fees**

The permittee is notified of the obligation to pay an Annual Registration Fee to ADEQ. The Annual Registration Fee is based upon the amount of daily influent or discharge of pollutants in gallons per day as established by A.R.S. § 49-242(D). This fee is payable to ADEQ each year.

6.2 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 Arizona Revised Statutes, Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

6.3 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.

6.4 Severability [A.R.S. § 49-243(K)(8)]

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.

6.5 Proper Operation and Maintenance [A.R.S. § 49-243(K)(8)]

The permittee shall properly operate and maintain all facilities, treatment processes, and discharge control systems which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

6.6 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 aquifer water quality standard at the applicable point of compliance for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an aquifer water quality standard for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

6.7 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 in

the permit application, pursuant to A.A.C. R18-9-A203(D), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

6.8 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.
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.

6.9 Monitoring and Records [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall retain records of all monitoring information, including copies of all reports required by this permit and records of all data used to complete the application for this permit, for a period of 10 years from the date of the sample, measurement report, or application. This period may be extended by request of the Director at any time.
3. At a minimum, records of monitoring information shall include:
 - a. Date, time, and exact place of sampling or measurements;
 - b. Individual(s) who performed the sampling or measurements;
 - c. Date(s) analyses were performed;
 - d. Individual(s) or laboratory who performed the analyses;
 - e. Analytical techniques or methods used;
 - f. Results of such analyses;
 - g. Chain of custody records;
 - h. Names of samples;
 - i. Static water level in monitor well prior to sampling;
 - j. Sampling method;
 - k. Purging volume;
 - l. Indicator parameters including field conductance ($\mu\text{mhos/cm}$), field temperature ($^{\circ}\text{C}$), and field pH (standard units);
 - m. Preservation and transportation procedures;
 - n. Name of the analytical facility, and;
 - o. Any field notes relating to the information described in (a) – (n) above.

6.10 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.

6.11 Inspection and Entry [A.R.S. §§ 49-203(B) and 49-243(K)(8)]

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 Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit. In so doing, the Department representative may:

1. Enter upon the operator's premises where a regulated facility or activity is located or conducted, or locations where records must be kept under the conditions of this permit.
2. Have access to and copy, at reasonable times, any records required to be kept under the conditions of this permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance, any substances or parameters at any location.
5. Take photographs or video tape.
6. Take other actions reasonably necessary to determine compliance with Aquifer Protection Permit statutes or rules or the terms and conditions of this permit.

6.12 Duty to Modify [A.R.S. § 49-243(K)(8)]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices authorized by this permit.

**6.13 Permit Action: Amendment, Transfer, Suspension & 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, renewed, or revoked for cause, under the rules of the Department. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition. The Director shall issue a public notice of all proposed permit actions pursuant to A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213.

6.13.1 Permit Reopen

The Director may reopen this permit and amend it pursuant to A.A.C. R18-9-A211.

6.13.2 Permit Transfer

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

The permittee shall notify the Water Permits Section 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.