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January 15, 2008

Docket Control Center
Arizona Corporation Commission
1200 West Washington
Phoenix, AZ 85007-2996

Arizona Corporation Commission
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2008 JAN 15 P 2:41

Re: **Docket Nos. W-04264A-04-0438
SW-04265A-04-0439
W-01445A-04-0755**

**Decision No. 68453
Submittals for Required CC&N Conditions
Annual Effluent Report
ADEQ Certificates of Approval to Construct (water)
ADEQ, APP for the Treatment of 3 MGD (wastewater)
Certificates of Assured Water Supply**

The above referenced decision requires that Woodruff Utility Company (WUC) provide the Commission an annual report describing WUC's progress toward the use of effluent specifically as it pertains to golf courses, ornamental lakes and other aesthetic water features.

We have final plans for the construction of the wastewater treatment facility but the downturn in the real estate market has postponed the construction of this facility. Therefore, there is no effluent production or use to report. An original and 17 copies of this report are enclosed.

The above referenced decision requires that Woodruff Water Company (WWC) provide the Commission within two years of the effective date of the decision, a copy of an ADEQ Certificate of Approval to Construct. Because the treatment process and storage tanks and booster pumps were submitted as two different portions of the project, we have enclosed an original copy and 17 additional copies of both certificates. The original certificates required commencement of construction within one year. To date, that construction has not started. Therefore we have also enclosed an original copy and 17 additional copies of ADEQ letters of extension for both certificates.

The above referenced decision requires that WUC provide the Commission within two years of the effective date of the decision, a copy of the ADEQ Aquifer Protection Permit for the WUC wastewater treatment facility authorizing treatment capacity to 3 million gallons per day. An original copy and 17 additional copies of that permit is enclosed.

The Esplanade
2555 East Camelback Road, Suite 700
Phoenix, Arizona 85016
(602) 956-7200 * FAX (602) 956-2313

The above referenced decision requires that WWC provide the Commission within two years of the effective date of the decision, a copy of the developer's Certificate of Assured Water Supply. An original copy and 17 additional copies of three certificates of assured water supply (CAWS), which together cover the entire area set forth in the Certificate of Convenience and Necessity (CC&N), are enclosed.

Decision 68453 orders that the CC&N issued to WWC will be rendered null and void if WWC does not timely comply with conditions 3, 4, 6, 7 and 8 of Finding of Fact 122. In addition, Decision 68453 orders that the CC&N issued to WUC will be rendered null and void if WUC does not timely comply with conditions 3 and 4 of Finding of Fact 124. With this filing, and the prior filings docketed by WWC and WUC on March 3, 2006 and January 23, 2007, WWC and WUC have timely met each of these conditions and, accordingly, their respective CC&Ns are now vested.

If you have questions regarding the annual effluent report or these submittals, please contact me at (602) 956-7200.

Sincerely,



Brian R. Hall
General Manager
Woodruff Water & Utility Companies

c: Compliance Section, Arizona Corporation Commission
Marvin Cohen, Sacks Tierney
Jeffrey W. Crocket, Snell & Wilmer, LLP
Phil Zeblisky, Pivotal Sandia LLC
file



January 10, 2008

Docket Control Center
Arizona Corporation Commission
1200 West Washington
Phoenix, AZ 85007-2996

Re: **Docket Nos. W-04264A-04-0438**
SW-04265A-04-0439
W-01445A-04-0755
Decision No. 68453
Annual Effluent Use Report

The above referenced decision requires that Woodruff Utility Company (WUC) provide the Commission an annual report describing WUC's progress toward the use of effluent specifically as it pertains to golf courses, ornamental lakes and other aesthetic water features.

Currently, because no construction has begun on a wastewater treatment facility, there is no effluent production or use to report. If you have questions regarding this report, please contact me at (602) 956-7200.

Sincerely,

A handwritten signature in black ink that reads "Brian R. Hall". The signature is written in a cursive style.

Brian R. Hall
General Manager
Woodruff Utility Company

c: Compliance Section, Arizona Corporation Commission
Marvin Cohen, Sacks Tierney
Jeffrey W. Crocket, Snell & Wilmer, LLP
Phil Zeblisky, Pivotal Sandia LLC
file



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
CERTIFICATE OF APPROVAL TO CONSTRUCT
WATER TREATMENT FACILITIES

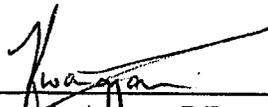
Page 1 Of 2

ADEQ File No: 20060737.	LTF No: 41221
System Name: Woodruff Water Company	System Number:
Project Owner: Woodruff Water Company	
Address: 2555 E. Camelback Rd, Ste 700, Phoenix, AZ 85016	
Project Location: Coolidge	County: Pinal
Description: Construct Water Treatment Facility For As And Fl Treatment At Well 1065 (Adw #55-621828). Proposed Equipment Includes: Two 8,000-Gal Chemical Storage Tanks; 50,000-Gal B/W Tank; 200,000-Gal B/W Tank; Filter Press; And Chlorination System.	

Approval to construct the above-described facilities as represented in the approved documents on file with the Arizona Department of Environmental Quality is hereby given subject to provisions 1 through 11 (continued on page 2 through 2

1. This project must be constructed in accordance with all applicable laws, including Title 49, Chapter 2, Article 9 of the Arizona Revised Statutes and Title 18, Chapter 5, Article 5 of the Arizona Administrative Code.
2. Upon completion of construction, the engineer shall fill out the Engineer's Certificate of Completion and forward it to the Central Regional office located in Phoenix. If all requirements have been completed, that unit will issue a Certificate of Approval of Construction. R18-5-507(B), Ariz. Admin. Code. At the project owner's request, the Department may conduct the final inspection required pursuant to R18-5-507(B); such a request must be made in writing in accordance with the time requirements of R18-5-507(C), Ariz. Admin. Code.
3. This certificate will be void if construction has not started within one year after the Certificate of Approval to Construct is issued, there is a halt in construction of more than one year, or construction is not completed within three years of the approval date. Upon receipt of a written request for an extension of time, the Department may grant an extension of time; an extension of time must be in writing. R18-5-505(E), Ariz. Admin. Code.
4. Operation of a newly constructed facility shall not begin until a Certificate of Approval of Construction has been issued by the Department. R18-5-507(A), Ariz. Admin. Code.

Reviewed by : AQ1

By:  9/20/06
Kwame A. Agyare., P.E. Date
Manager, Drinking Water and
Wastewater Engineering Review
Water Quality Division

cc: File No : 20060737
Regional Office: Central
Owner: Woodruff Water Company
County Health Department: Pinal
Engineer: Urs
Planning and Zoning/Az Corp. Commission
Engineering Review Database - Etr023

**CERTIFICATE OF APPROVAL TO CONSTRUCT
WATER TREATMENT FACILITY
ADEQ FILE NO. 20060737
PAGE 2 OF 2: PROVISIONS**

5. Before construction of a modification, expansion, or alteration of this water treatment facility begins, a separate Approval to Construct applicable to each addition must be obtained.
6. Adequate training of the water system operator will be required in order to operate the treatment system.
7. Water quality monitoring shall be performed based on a schedule approved by the Department in order to insure that the treatment system is operating properly.
8. An Approval of Construction (AOC) will not be issued until a formal application for the conversion of the agricultural well (ADWR #55-621828) to a community well has been made with the Arizona Department of Water Resources.
9. An AOC will not be issued until the applicable permit for the disposal of the solid residuals has been granted.
10. Water line must have a minimum of 48" over cover for pipes greater than or equal to 12" in diameter.



Janet Napolitano
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

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



Stephen A. Owens
Director

September 10, 2007

Jeff Bower, P.E.
Tres Rios Consulting Engineers, Inc.
230 W. Baseline Rd., Ste 101-A
Tempe, AZ 85282

Re: Woodruff Water Co. PH1 Construction Well 1065 Water Campus
Time Extension for Approval to Construct (ATC)
ADEQ File No. 20060737
LTF #45448

Dear Mr. Bower:

Your request dated August 28, 2007 for a time extension of the above referenced ATC is approved and the time limit to begin construction is extended up to September 20, 2008. All the work should be consistent with the plans and specifications approved by ADEQ and the approval certificate issued on September 20, 2006. Please be advised that time extensions are not automatic or certain. If this time extension approval expires, a new ATC may be required to be obtained.

If you have any questions, please call (602) 771-4677.

Sincerely,

Kwame Agyare, P.E., Manager
Engineering Review Unit
Drinking Water Section

KA:ce

cc: Brian Hall, Woodruff Water Company
Bill King, Woodruff Water Company

Northern Regional Office
1515 East Cedar Avenue • Suite F • Flagstaff, AZ
86004

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ
85701



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
CERTIFICATE OF APPROVAL TO CONSTRUCT
DRINKING WATER WELL FACILITIES

Page 1 Of 2

ADEQ File No: 20060850	LTF No: 41623
System Name: Woodruff Water Company	System Number: NEW
Project Owner: Bill King	
Address: 2555 E Camelback Rd #700, Phoenix, AZ 85016	
Project Location: Coolidge	County : Pinal
Description: WOODRUFF WATER COMPANY-WELL 1065 WATER PRODUCTION PLANT. INSTALLATION OF 1-1 MILLION GALLON STORAGE TANK, 3-850 GPM/EACH BOOSTER PUMPS, AND 1-HYDROPNEUMATIC TANK. TO SERVE FUTURE AREA DEVELOPMENT WITH POTABLE WATER. PART OF LARGER PROJECT.	

Approval to construct the above-described facilities as represented in the approved documents on file with the Arizona Department of Environmental Quality is hereby given subject to provisions 1 through 10 continued on page 2 through 2

1. This project must be constructed in accordance with all applicable laws, including Title 49, Chapter 2, Article 9 of the Arizona Revised Statutes and Title 18, Chapter 5, Article 5 of the Arizona Administrative Code.
2. Upon completion of construction, the engineer shall fill out the Engineer's Certificate of Completion and forward it to the Central Regional office located in Phoenix. If all requirements have been completed, that unit will issue a Certificate of Approval of Construction. R18-5-507(B), Ariz. Admin.Code. At the project owner's request, the Department **may** conduct the final inspection required pursuant to R18-5-507(B); such a request must be made in writing in accordance with the time requirements of R18-5-507(C), Ariz. Admin. Code.
3. This certificate will be void if construction has not started within one year after the Certificate of Approval to Construct is issued, there is a halt in construction of more than one year, or construction is not completed within three years of the approval date. Upon receipt of a written request for an extension of time, the Department may grant an extension of time; an extension of time must be in writing. R18-5-505(E), Ariz. Admin. Code.
4. Operation of a newly constructed facility shall not begin until a Certificate of Approval of Construction has been issued by the Department. R18-5-507(A), Ariz. Admin. Code.

Reviewed by : FMS

By: _____

Kwame A. Agyare, P.E.

9/27/06
Date

Manager, Drinking Water and
Wastewater Engineering Review
Water Quality Division

cc: File No : 20060850
Regional Office: Central
Owner: Bill King
County Health Department: Pinal
Engineer: Urs Corp
Planning and Zoning/Az Corp. Commission
Engineering Review Database - Etr022

**APPROVAL TO CONSTRUCT
WATER PRODUCTION FACILITY
STORAGE TANK, HYDROPNEUMATIC TANK & BOOSTER PUMPS
ADEQ FILE No. 20060850
PAGE 2 OF 2: PROVISIONS CONTINUED**

5. Approval of Construction (AOC) will not be issued until data is obtained and verified for Pressure and Leakage Tests and Disinfection Sampling of constructed water lines. It is recommended that the Engineer's Certificate of Completion (ECC) Data Required Sheet be completed in full, showing actual pressures and sampling data. Data required with ECC sheet can be found under heading - Safe Drinking Water and subheading - Technical Engineering/Plan Reviews
<http://www.azdeq.gov/function/forms/appswater.html#sdw>.
6. All backwashing reject water and wastes shall be discharged in accordance with applicable permits.
7. O & M manual must be submitted and approved by ADEQ prior to issuance of Certificate of Approval of Construction.
8. Operation of a newly constructed facility shall not begin until a Certificate of Approval of Construction has been issued by the Department.
9. Before construction of a modification, expansion, or alteration of this distribution system begins, a separate Approval to Construct applicable to each addition must be obtained. A.A.C. R18-5-505(B).
10. Ensure that the overflow pipe of an above-ground storage unit shall open downward and be screened with 16-mesh noncorrodible screen installed within the pipe at a location least susceptible to damage per Bulletin No. 10, Chapter 6, E.6.



Janet Napolitano
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

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



Stephen A. Owens
Director

September 10, 2007

Jeff Bower, P.E.
Tres Rios Consulting Engineers, Inc.
230 W. Baseline Rd., Ste 101-A
Tempe, AZ 85282

Re: Well 1065 Water Production Facility
Time Extension for Approval to Construct (ATC)
ADEQ File No. 20060850
LTF #45449

Dear Mr. Bower:

Your request dated August 28, 2007 for a time extension of the above referenced ATC is approved and the time limit to begin construction is extended up to September 27, 2008. All the work should be consistent with the plans and specifications approved by ADEQ and the approval certificate issued on September 27, 2006. Please be advised that time extensions are not automatic or certain. If this time extension approval expires, a new ATC may be required to be obtained.

If you have any questions, please call (602) 771-4677.

Sincerely,

Kwame Agyare, P.E., Manager
Engineering Review Unit
Drinking Water Section

KA:ce

cc: Brian Hall, Woodruff Water Company
Bill King, Woodruff Water Company

Northern Regional Office
1515 East Cedar Avenue • Suite F • Flagstaff, AZ
86004

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ
85701

STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-105597
PLACE ID 23506, LTF 35460

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, Woodruff Utility Company is hereby authorized to operate the Sandia Water Reclamation Plant located approximately ½ mile south of Arizona Highway 87 and approximately 750 feet west of Curry Road in Coolidge, Pinal County, Arizona, over groundwater of the Pinal Active Management Area (AMA) in Township 5 S, Range 7 E, Section 14, NE ¼, NW ¼, NE ¼ 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 valid for the life of the facility (operational, closure, and post-closure periods) unless suspended or revoked pursuant to A.A.C. R18-9-A213. The permittee shall construct, operate and maintain the permitted facilities:

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

1.1 PERMITTEE INFORMATION

Facility Name: Sandia Water Reclamation Plant (WRP)
Facility Address: Approximately ½ mile south of Arizona Highway 87, approximately 750 feet west of Curry Road
Coolidge, Arizona
County: Pinal
Permittee: Woodruff Utility Company
Permittee Address: 2555 East Camelback Road, Suite 700
Phoenix, Arizona 85016
Facility Contact: Brian Hall
Emergency Phone No.: (602) 956-7200
Latitude/Longitude: 32° 59' 41" N/ 111° 36' 30" W
Legal Description: Township 05S, Range 07E, Section 14, NE ¼, NW ¼, NE ¼, Gila and Salt River Baseline and Meridian

1.2 AUTHORIZING SIGNATURE



Joan Card, Director
Water Quality Division
Arizona Department of Environmental Quality
Signed this 14th day of January, 2008

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)]**

Sandia Water Reclamation Plant (WRP) has the capacity to collect, treat and dispose a maximum flow of 3.0 million gallons per day (MGD), upon completion of Aquifer Protection Permit (APP) Amendments as per Section 3.0, Compliance Schedule. The WRP will be constructed in phases, the first of which has a treatment capacity of 0.25 MGD and a disposal capacity of 0.78 MGD. Phase 2, which will incorporate the Phase 1 tanks, will have a treatment capacity of 1.5 MGD and a disposal capacity of 0.78 MGD, which can be increased to 1.5 MGD as per Section 3.0, Compliance Schedule. Phase 3 will add an additional 1.5 MGD of treatment capacity, for a total build out treatment capacity of 3.0 MGD. Phase 3 has a disposal capacity of 0.78 MGD, which can be increased to 3.0 MGD as per Section 3.0, Compliance Schedule.

The Phase 1 treatment process consists of an influent pump station, screens, a sequential batch reactor (SBR), an equalization tank, filters, ultraviolet (UV) disinfection, and a solids holding tank/aerobic digester. The Phase 1 tanks will be used as solids holding tanks after Phase 2 begins operating. Phases 2 and 3 consist of an influent pump station, screens and grit removal, a sequential batch reactor, an equalization basin, filters, UV disinfection, a centrifuge, a solids holding tank/aerobic digester and an effluent pump station.

Phase 1 is constructed of steel tanks, and will be located above grade. The majority of Phases 2 and 3 will be constructed of concrete and situated below grade. Odor control is not provided for Phase 1. In Phases 2 and 3 the influent pump station, headworks, SBRs and holding tank will be covered, and air scrubbers will be provided for odor control. During all phases of construction, pumps, blowers, and electrical equipment will be housed within buildings for noise control. The 350 foot setback required for a 0.25 MGD facility without noise and odor controls is available during Phase 1. The WRP will meet the required setback of 350 feet for a facility with full noise and odor controls at the full build out design capacity of 3.0 MGD.

During Phase 1, all treated effluent shall be disposed by recharge basins located on-site. Sandia WRP shall not produce reclaimed water during Phase 1. During Phases 2 and 3, treated effluent may be disposed by recharge in the on-site basins or delivered for beneficial use under a valid reclaimed water permit (A.A.C. R18-9 Article 7). After the APP is amended as per Section 3.0, Compliance Schedule, treated effluent may also be disposed by recharge basins located at the East Recharge Facility (ERF). The ERF is located near the Southside Canal, approximately 1.25 miles east of the WRP.

The sludge, including screenings, grit, and scum, is hauled off-site to a state approved landfill or to the City of Coolidge Wastewater Treatment Plant, for management and disposal in accordance with State and Federal regulations. Depth to groundwater at the WRP site is approximately 50 feet at the WRP, and approximately 80 feet at the ERF. The direction of groundwater flow is to the northwest at both the WRP and the ERF.

During the initial start-up period, up to 50,000 gallons per day of influent may be vaulted and hauled off-site to an approved facility as per Section 3.0, Compliance Schedule and Section 4.1, Table I.

The site includes the following permitted discharging facilities:

Facility	Latitude	Longitude
Sandia WRP	32° 59' 41" N	111° 36' 30" W
WRP Recharge Basin #1	32° 59' 40" N	111° 36' 08" W
WRP Recharge Basin #2	32° 59' 44" N	111° 36' 12" W

After additional information is submitted as per Section 3.0, Compliance Schedule, the following additional discharging facilities will be permitted.

Facility	Latitude	Longitude
ERF Recharge Basin #1	32° 59' 27" N	111° 34' 54" W
ERF Recharge Basin #2	32° 59' 12" N	111° 34' 43" W

Annual Registration Fee [A.R.S. § 49-242]

The Annual Registration Fee for this permit is established by A.R.S. § 49-242(E) and is payable to ADEQ each year. The design flow is 3.0 million gallons per day.

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

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The permittee shall maintain financial capability throughout the life of the facility. The estimated dollar amount demonstrated for financial capability is \$75,000.00. The financial capability was demonstrated through R18-9-A203(B)(1), (B)(4) and (C)(3).

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

The Water Reclamation Plant shall be designed, constructed, operated, and maintained to meet the treatment performance criteria for new facilities as specified in Arizona Administrative Code R18-9-B204.

The treatment facility shall not exceed a maximum seepage rate of 550 gallons per day per acre for all containment structures within the treatment works.

The facility shall meet the requirements for pretreatment by conducting monitoring as per R18-9-B204(B)(6)(b)(iii).

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

2.2.1 Engineering Design

The WRP was designed as per the design report prepared and stamped, dated, and signed (sealed) by Lisa J. Farrington, P.E. (Professional Engineer) LJ Farrington Engineers, Inc dated February 18, 2005 and subsequent sealed submittals that served as additions to the design report.

2.2.2 Site-specific Characteristics

Site specific characteristics were not used to determine BADCT.

2.2.3 Pre-Operational Requirements

The permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion in a format approved by the Department and a signed agreement with a wastewater treatment plant to accept vaulted and hauled sewage as per Section 3.0, Compliance Schedule.

2.2.4 Operational Requirements

1. The permittee shall maintain a copy of the O & M manual at the WRP site at all times, and the manual shall be available upon request during inspections by ADEQ personnel.

2. The pollution control structures shall be inspected for the items listed in Section 4.0, Table III.
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 Section.

2.2.5 Reclaimed Water Classification

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

During Phases 2 and 3, the treatment facility will be rated as producing reclaimed water meeting the Class A+ Reclaimed Water Quality Standards (A.A.C. R18-11, Article 3) that may be used for any allowable Class A, B or C use under a valid reclaimed water permit (A.A.C. R18-9, Article 7).

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 WRP with an average monthly flow of 0.78 MGD. Four tables for discharge monitoring are included in this APP. These are Section 4.1, Table I – Vault and Haul, Section 4.2, Table IA-1 – Phase 1, Table IA-2 – Phase 2, and Table IA-3 – Phase 3. The facility shall only monitor the appropriate Table for monitoring that is commensurate with phases already constructed. Upon construction of each phase, the facility shall discontinue monitoring required in the previous phase(s). No monitoring is required for any phase that is not yet constructed.
2. The permittee shall notify all users that the materials authorized to be disposed of through the WRP are typical household sewage and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.
3. The permittee shall operate and maintain all permitted facilities to prevent unauthorized discharges pursuant to A.R.S. § 49-201(12) resulting from failure or bypassing of BADCT pollutant control technologies.
4. Specific discharge limitations are listed in Section 4.0.

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

The Points of Compliance (POCs) are established by the following designated locations:

POC #	Location	Latitude	Longitude
1	Northwest corner of the WRP, approximately 150 feet northwest of WRP Recharge Basin #2	32° 59' 46" N	111° 36' 18" W
2	Northwest corner of the ERF	32° 59' 32" N	111° 35' 01" W

Groundwater monitoring is required at POC #1 as specified in Section 4.2, Tables IIA-1 and IIA-2. After additional documentation is submitted as per Section 3.0, Compliance Schedule, groundwater monitoring will be required at POC #2 as specified in Section 4.2, Tables IIB-1 and IIB-2. If the ERF is not required, POC #2 may be deleted as per Section 3.0, Compliance Schedule. 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 Pre-Operational Monitoring

During the initial start-up period, the permittee shall monitor the flow rate according to Section 4.1, Table I. Flow rate shall be measured at the downstream end of the influent pump station. Monitoring under Section 4.1, Table I shall continue until the permittee ceases to vault and haul and initiates routine discharge monitoring under Section 4.2, Table IA-1. All vault and haul activities shall cease within a maximum of 4 (four) years after the Engineer's Certificate of Completion for Phase 1 construction is submitted to the Groundwater Section, as per Section 3.0, Compliance Schedule.

2.5.2 Discharge Monitoring

Upon cessation of the initial start-up period, the permittee shall monitor the wastewater according to Section 4.2, Table IA-1 through IA-3. At the time of permit signature, Tables IA-2 and IA-3 limit total flow to 0.78 MGD. After the APP is amended as per Section 3.0, Compliance Schedule, the total flow limit shall be increased to a maximum of 3.0 MGD. Representative samples of the wastewater shall be collected in the manhole downstream of the UV disinfection system.

2.5.3 Reclaimed Water Monitoring

During Phase 1, delivery of reclaimed water is not permitted. During Phases 2 and 3, the permittee shall monitor the parameters listed under Section 4.2, Table IB in addition to the routine discharge monitoring parameters listed in Section 4.2, Table IA-2 and IA-3. Representative samples of the reclaimed water shall be collected in the manhole downstream of the UV disinfection system.

2.5.4 Groundwater Monitoring and Sampling Protocols

The permittee shall monitor the groundwater at POC #1 as per Section 4.2, Table IIA-1 – Ambient Groundwater Monitoring and Table IIA-2 – Compliance Groundwater Monitoring. If the ERF is constructed, the permittee shall monitor the groundwater at POC #2 as per Section 4.2, Table IIB-1 – Ambient Groundwater Monitoring and Table IIB-2 – Compliance Groundwater Monitoring. Recharge at the ERF basins shall begin only after the permittee has completed 8 (eight) rounds of ambient groundwater monitoring as per Table IIB-1. If the ERF is not required, Tables IIB-1 and IIB-2 may be deleted as per Section 3.0, Compliance Schedule.

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 field 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).

2.5.4.1 POC Well Replacement

In the event that one or more of the designated POC wells should become unusable or inaccessible due to damage, a decrease in water levels for more than two (2) sampling events, or any other event, a replacement POC well shall be constructed and installed upon approval by ADEQ. If the replacement well is fifty feet or less from the original well, the ALs and AQLs established for the previously designated POC well shall apply to the replacement well.

2.5.5 Surface Water Monitoring and Sampling Protocols

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

2.5.6 Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.2, 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 on the Self-Monitoring Report Form (SMRF) submitted quarterly to the ADEQ Water Quality Compliance Section, Data Unit (see Section 2.7.5). 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 this on the SMRF.
- b. The permittee shall submit data required in Section 4.2, Table III regardless of the operating status of the facility unless otherwise approved by the Department or allowed in this permit.

2.5.7 Analytical Methodology

All samples collected for compliance monitoring shall be analyzed using Arizona state approved methods. If no state approved method exists, then any appropriate EPA approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. 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
250 North 17th Ave.
Phoenix, AZ 85007
Phone: (602) 364-0720

2.5.8 Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative samples required by the permit can be collected. If new groundwater wells are determined to be necessary, the construction details shall be submitted to the ADEQ Groundwater Section (see Section 2.7.5) for approval prior to installation and the permit shall be amended to include any new monitoring points.

2.6 Contingency Plan Requirements

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

2.6.1 General Contingency Plan Requirements

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) exceedance, or 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 4.2, Table III has been exceeded the permittee shall:
 - a. Notify the ADEQ Water Quality Compliance Section within five (5) days of becoming aware of an exceedance of any permit condition in Table III.
 - b. Submit a written report within thirty (30) days after becoming aware of an exceedance of a permit condition. The report shall document all of the following:
 - (1) A description of the exceedance and its cause;
 - (2) The period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
 - (3) Any action taken or planned to mitigate the effects of the exceedance or spill, or to eliminate or prevent recurrence of the exceedance or spill;
 - (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 a 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 (ALs) Set for Discharge Monitoring

1. If an AL set in Section 4.2, Tables IA-1 through IA-3 has been exceeded, the permittee shall immediately investigate to determine the cause of the exceedance. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the exceedance.
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
 - c. Pretreatment source control for industrial pollutants.
2. The permittee shall initiate actions identified in the approved 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 exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6.
3. Within thirty (30) days of an AL exceedance, 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 exceedance, and actions taken to resolve the problem.
4. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.2.1. Exceeding Permit Flow Limit

1. If the AL for average monthly flow in Section 4.2, Tables IA-1 through IA-3 is exceeded, the permittee shall submit an application for an APP amendment to expand the WRP or submit a report detailing the reasons that an expansion is not necessary.
2. Acceptance of the report instead of an application for expansion requires ADEQ approval.

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

1. If an AL for a pollutant set in Section 4.2, Tables IIA-1 through IIB-2 has been exceeded, the permittee may conduct verification sampling within five (5) days of becoming aware of the exceedance. The

permittee may use results of another sample taken between the date of the last sampling event and the date of receiving the result as verification.

2. If verification sampling confirms the AL exceedance or if the permittee opts not to perform verification sampling, then the permittee shall increase the frequency of monitoring for the pollutants set in Section 4.2, Tables IIA-1 through IIB-2 as follows:

Specified Monitoring Frequency (Section 4.2, Tables IIA-1 through IIB-2)	Monitoring Frequency for AL Exceedance
Daily	Daily
Weekly	Daily
Monthly	Weekly
Quarterly	Monthly
Semi-annually	Quarterly
Annually	Quarterly

In addition, the permittee shall immediately initiate an investigation of the cause of the AL exceedance, including inspection of all discharging units and all related pollution control devices, review of any operational and maintenance practices that might have resulted in an unexpected discharge, and hydrologic review of groundwater conditions including upgradient water quality.

3. The permittee shall initiate actions identified in the approved 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 exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6. Alternatively, the permittee may submit a technical demonstration, subject to written approval by the Groundwater Section, that although an AL has been exceeded, pollutants are not reasonably expected to cause a violation of an AQL. The demonstration may propose a revised AL or monitoring frequency for approval in writing by the Groundwater Section.
4. Within thirty (30) days after confirmation of an AL exceedance, the permittee shall submit the laboratory results to the Water Quality Compliance Section, Data Unit (see Section 2.7.5) along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.
5. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.
6. The increased monitoring required as a result of an AL exceedance may be reduced to the monitoring frequency in Section 4.2, Tables IIA-1 through IIB-2 if the results of four sequential sampling events demonstrate that no parameters exceed the AL.
7. If the increased monitoring required as a result of an AL exceedance continues for more than six (6) sequential sampling events, the

permittee shall submit a second report documenting an investigation of the continued AL exceedance within 30 days of the receipt of laboratory results of the sixth (6th) sampling event.

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

Not required at the time of issuance.

2.6.3 Discharge Limit (DL) Violations

1. If a DL set in Section 4.2, Tables IA-1 through IA-3 or Table IB 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;
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the violation, the permittee shall sample individual waste streams composing the wastewater for the parameters in violation, if necessary, to identify the cause of the violation.

The permittee 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.

2. The permittee shall comply with the freeboard requirements as specified in Section 4.2, Table III (Facility Inspections) to prevent the overtopping of an impoundment or sludge drying bed. If an impoundment or sludge drying bed is overtopped, the permittee shall follow the requirements in Section 2.6.5.3 and the reporting requirements of Section 2.7.3.
3. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions.

2.6.4 Aquifer Quality Limit (AQL) Violation

1. If an AQL set in Section 4.2, Tables IIA-1 through IIB-2 has been exceeded, the permittee may conduct verification sampling within five (5) days of becoming aware of the exceedance. The permittee may use results of another sample taken between the date of the last sampling event and the date of receiving the result as verification.
2. If verification sampling confirms that an AQL was violated for any parameter or if the permittee opts not to perform verification sampling, then, the permittee shall increase the frequency of monitoring as follows:

Specified Monitoring Frequency (Section 4.2, Tables IIA-1 through IIB-2)	Monitoring Frequency for AQL Exceedance
Daily	Daily
Weekly	Daily
Monthly	Weekly
Quarterly	Monthly
Semi-annually	Quarterly
Annually	Quarterly

In addition, the permittee shall immediately initiate an evaluation for the cause of the violation, including inspection of all discharging units and all related pollution control devices, and review of any operational and maintenance practices that might have resulted in unexpected discharge.

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. A verified exceedance of an AQL will be considered a violation unless the permittee demonstrates within 30 days that the exceedance was not caused or contributed to by pollutants discharged from the facility. Unless the permittee has demonstrated that the exceedance was not caused or contributed to by pollutants discharged from the facility, 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.

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

2.6.5 Emergency Response and Contingency Requirements for Unauthorized Discharges pursuant to A.R.S. § 49-201(12) and pursuant to A.R.S. § 49-241

2.6.5.1 Duty to Respond

The permittee shall act immediately to correct any condition resulting from a discharge pursuant to A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

2.6.5.2 Discharge of Hazardous Substances or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances (A.R.S. § 49-201(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 discharged material. The permittee shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify the ADEQ Water Quality Compliance Section at (602) 771-4497 within 24 hours of discovering the discharge of hazardous material which: a) has the potential to cause an AWQS or AQL exceedance; or b) could pose an endangerment to public health or the environment.

2.6.5.3 Discharge of Non-hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up as soon as possible. The permittee shall notify the ADEQ Water Quality Compliance Section at (602) 771-4497, within 24 hours of discovering the discharge of non-hazardous material which: a) has the potential to cause an AQL exceedance; 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 reported under Sections 2.6.5.2 and 2.6.5.3 to the ADEQ Water Quality Compliance Section (see Section 2.7.5), 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 the notice. Upon review of the submitted report, ADEQ may require additional monitoring or corrective actions.

2.6.6 Corrective Actions

Specific contingency measures identified in Section 2.6 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 Groundwater Section prior to implementing a corrective action to accomplish any of the following goals in response to an AL exceedance, 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 (see Section 2.7.5), a written report describing the causes, impacts, and actions taken to resolve the problem.

2.7 Reporting and Recordkeeping Requirements

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

2.7.1 Self Monitoring Report Form (SMRF)

1. The permittee shall complete the SMRF provided by ADEQ, and submit them to the Water Quality Compliance Section, Data Unit (see Section 2.7.5).
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 Section 4.0 list the parameters to be monitored and the frequency for reporting results for compliance monitoring. Monitoring and analytical methods shall be

recorded on the SMRF. The permittee reserves the right to request a relaxation of the monitoring frequency for metals and volatile organic compounds if the data indicate that water quality standards are being achieved.

4. In addition to the SMRF, the information contained in A.A.C. R18-9-A206(B)(1) shall be included for an AL exceedance, 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

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 (see Section 2.7.5) in writing within five (5) days (except as provided in Section 2.6.5) of becoming aware of an AL exceedance, or violation of any permit condition, AQL, or DL.
2. The permittee shall submit a written report to the Water Quality Compliance Section (see Section 2.7.5) within 30 days of becoming aware of the violation of any permit condition, AQL, or DL. The report shall document all of the following:
 - a. Identification and description of the permit condition for which there has been a violation and a description of the cause;
 - b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;
 - c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an Aquifer Water Quality Standard;
 - e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring; and
 - f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4 Operational, Other or Miscellaneous Reporting

The permittee shall complete the Self-Monitoring Report Form provided by the Department to reflect facility inspection requirements designated in Section 4.2, Table III and submit to the ADEQ Water Quality Compliance Section, Data Unit (see Section 2.7.5) quarterly along with other reports required by this permit. Facility inspection reports shall be submitted no less frequently than quarterly, regardless of operational status.

If the treatment facility is classified for reclaimed water under this permit, the permittee shall submit the reclaimed water monitoring results and flow volumes to any of the following in accordance with A.A.C. R18-9-703(C)(2)(c):

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

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 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4681

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

Arizona Department of Environmental Quality
Water Quality Compliance Section Manager
Mail Code: 5415B-1
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4497
Fax (602) 771-4505

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

Arizona Department of Environmental Quality
Groundwater Section
Mail Code: 5415B-3
1110 West Washington Street
Phoenix, Arizona 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

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

Monitoring conducted	Report due by
Semi-annual: January-June	July 30
Semi-annual: July-December	January 30
Annual: January-December	January 30

2.7.7 Changes to Facility Information in Section 1.0

The Groundwater Section and Water Quality Compliance Section shall be notified (see Section 2.7.5) within ten (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 (see Section 2.7.5) before 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 treatment facility 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 approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to the Water Quality Compliance Section of the operational status of the facility every three (3) years. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

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

For a facility addressed under this permit, the permittee shall give written notice of closure to the Water Quality Compliance Section (see Section 2.7.5) of the intent to cease operation without resuming activity for which the facility was designed or operated.

2.9.1 Closure Plan

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

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.

2.9.2 Closure Completion

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

1. Clean closure cannot be achieved at the time of closure notification or within one year thereafter under a diligent schedule of closure actions;
2. Further action is necessary to keep the facility in compliance with the 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.

2.10 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 Groundwater Section.

In the event clean closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Groundwater 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]

For each compliance schedule item listed below, the permittee shall submit the required information, including a cover letter that lists the compliance schedule items, to the Groundwater Section. A copy of the cover letter must also be submitted to the Water Quality Compliance Section.

Description	Due by:
Plant Construction	
1. The permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion to the Groundwater Section in a format approved by the Department that confirms that the Phase 1 facility is constructed according to the Department-approved design report or plans and specifications, as applicable.	Prior to discharging under this permit and within 90 days after completion of Phase 1 construction.
2. The permittee shall submit a signed, dated and sealed Engineer's Certificate of Completion for Phase 2 construction to the Groundwater Section.	Prior to receiving a Reclaimed Water Permit and within 90 days after completion of Phase 2 construction.
3. The permittee shall submit a signed, dated and sealed Engineer's Certificate of Completion for Phase 3 construction to the Groundwater Section.	Within 90 days after completion of Phase 3 construction.
4. The permittee shall notify the Groundwater Section upon commencing operation of each completed phase of the WRP.	Within 15 days after commencing operation of each phase.
Vault and Haul	
5. The permittee shall begin vault and haul operations.	After submitting to the Groundwater Section an Engineer's Certificate of Completion for Phase 1 construction and a signed agreement with a wastewater treatment plant to accept vaulted and hauled sewage from Sandia WRP.
6. The permittee shall cease vault and haul, and begin discharging effluent to the recharge basins at the WRP site.	After submitting the Ambient Groundwater Monitoring Report for the well at POC #1, prior to exceeding a total flow of 50,000 gallons per day, and no later than 2 (two) years after the Engineer's Certificate of Completion for Phase 1 construction is submitted to the Groundwater Section, except as stated below.

Description	Due By
<p>7. The permittee may request from the Groundwater Section up to 2 (two) extensions of 1 (one) year each to the vault and haul period. Each request shall be accompanied by a report stating the volume of sewage vaulted and hauled during each of the past 12 months and a demonstration that the WRP cannot begin operating at the current influent flow rate. Vault and haul operations under each extension require ADEQ approval, as stated below.</p>	<p>The first request shall be submitted within 23 months after the Engineer's Certificate of Completion for Phase 1 construction is submitted to the Groundwater Section. If it is needed, the second request shall be submitted within 35 months after the Engineer's Certificate of Completion for Phase 1 construction is submitted to the Groundwater Section.</p>
<p>8. The permittee may begin vault and haul operations during each extension period</p>	<p>After approval of each extension request is received from the Groundwater Section.</p>
<p>9. The permittee shall notify ADEQ of cessation of vault and haul.</p>	<p>Within 15 days after the date of cessation of vault and haul.</p>
<p>Ambient Groundwater Monitoring</p>	
<p>10. The permittee shall install and develop a groundwater monitoring well at POC #1 and submit a Well Installation Report to the Groundwater Section.</p>	<p>At least 9 (nine) months prior to cessation of vault and haul.</p>
<p>11. The permittee shall begin collecting eight (8) monthly rounds of ambient groundwater monitoring at POC #1 as per Section 4.2, Table IIA-1.</p>	<p>Within 30 days after the well at POC #1 is developed.</p>
<p>12. The permittee shall submit an Ambient Groundwater Monitoring Report containing a statistical evaluation of all eight (8) rounds of data collected under Section 4.2, Table IIA-1 and an "Other"¹ APP Amendment Application proposing ALs and AQLs for parameters listed in Section 4.2, Table IIA-2 to the Groundwater Section.</p>	<p>Within 30 days after the completion of ambient groundwater monitoring at POC #1.</p>
<p>13. The permittee shall install and develop a groundwater monitoring well at POC #2.</p>	<p>At least 9 (nine) months prior to beginning discharge to the ERF basins.</p>
<p>14. The permittee shall begin collecting eight (8) monthly rounds of ambient groundwater monitoring at POC #2 as per Section 4.2, Table IIB-1.</p>	<p>Within 30 days after the well at POC #2 is developed.</p>
<p>15. The permittee shall submit an Ambient Groundwater Monitoring Report containing a statistical evaluation of all eight (8) rounds of data collected under Section 4.2, Table IIB-1 and an "Other" APP Amendment Application proposing ALs and AQLs for parameters listed in Section 4.2, Table IIB-2 to the Groundwater Section.</p>	<p>Within 30 days after the completion of ambient groundwater monitoring at POC #2.</p>
<p>16. The permittee may begin discharging effluent to the ERF basins.</p>	<p>After submitting the Ambient Groundwater Monitoring Report for the well at POC #2.</p>

¹ An "Other" APP Amendment does not require publication of a Notice of Preliminary Decision or a written public comment period.

Description	Due by
ERF Design	
<p>17. The permittee shall submit a signed, dated and sealed design report for a conveyance to move treated effluent from the WRP to the ERF, including a demonstration that the permittee has the legal right to convey treated effluent across any intervening properties. The design report shall document protection of the ERF recharge basins from physical damage due to a 100-year flood, and the ability of the entire facility (the WRP, the ERF and the conveyance that carries treated effluent from the WRP to the ERF) to operate during a 25-year flood.</p>	<p>At least 6 (six) months prior to beginning discharge to the ERF basins.</p>
<p>18. The permittee shall submit a report documenting the results of ring infiltrometer tests performed at the site of the ERF basins, and the extent and degree of any known soil contamination at the ERF site.</p>	<p>At least 90 days prior to beginning discharge to the ERF basins.</p>
Total Flow Limits	
<p>19. The permittee shall submit an "Other" APP Amendment Application to increase the AL and DL for Total Flow under Section 4.2, Table IA-2 from 0.74 MGD and 0.78 MGD to a maximum of 1.42 MGD and 1.5 MGD, and the AL and DL for Total Flow under Section 4.2, Table IA-3 from 0.74 MGD and 0.78 MGD to a maximum of 2.85 MGD and 3.0 MGD, respectively. The APP Amendment Application shall include a demonstration that up to 3.0 MGD of effluent can be disposed by recharge at the WRP, disposed by recharge at the ERF, delivered for beneficial reuse, or any combination of the above. If the first permit amendment demonstrates a disposal capacity between 0.78 and 3.0 MGD, further amendments may be submitted, up to a maximum disposal capacity of 3.0 MGD.</p>	<p>Prior to treatment and discharge of more than 0.78 MGD of effluent.</p>
Deletion of the ERF	
<p>20. The permittee may submit an "Other" APP Amendment Application to delete Section 4.2, Tables IIB-1 and IIB-2, delete the ERF Basins from the table in Section 2.1, and delete POC #2 from the table in Section 2.4. The APP Amendment Application shall include a demonstration that 3.0 MGD of effluent can be disposed by recharge, delivered for beneficial reuse, or any combination of the above without constructing recharge basins at the ERF.</p>	<p>After submitting an Engineer's Certificate of Completion for Phase 3 construction to the Groundwater Section.</p>

4.0 TABLES OF MONITORING REQUIREMENTS

4.1 PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

TABLE I – INITIAL START-UP PLAN²

Sampling Point Number	Sampling Point Identification		Latitude		Longitude
1	At the discharge side of the influent pump station.		32° 59' 36" N		111° 36' 16" W
Parameter	AL ³	DL ⁴	Units	Sampling Frequency	Reporting Frequency
Total Flow: Daily ⁵	Not Established ⁶	0.05	MGD	Daily ⁷	Quarterly

² Monitoring under this table shall continue until permittee ceases to vault and haul and initiates routine monitoring under Section 4.2, Table IA-1, for a maximum of 4 (four) years after the first date of plant operation, as per Section 3.0, Compliance Schedule.

³ AL = Alert Level.

⁴ DL = Discharge Limit.

⁵ Total flow is measured in million gallons per day (MGD)

⁶ Not Established = Monitoring required but no limits have been specified at time of permit issuance.

⁷ Flow shall be measured using a continuous recording flow meter that totals the flows daily.

4.0 TABLES OF MONITORING REQUIREMENTS

4.2. COMPLIANCE (or OPERATIONAL) MONITORING

TABLE IA-1 – PHASE 1
ROUTINE DISCHARGE MONITORING⁸

Sampling Point Number	Sampling Point Identification			Latitude	Longitude
1	Manhole at the end of the UV disinfection system			32° 59' 37" N	111° 36' 16" W
Parameter	AL ⁹	DL ¹⁰	Units	Sampling Frequency	Reporting Frequency
Total Flow: Daily	Not Established ¹¹	Not Established	MGD ¹²	Daily ¹³	Quarterly
Total Flow: Average Monthly	0.24	0.25	MGD	Monthly ¹⁴	Quarterly
Fecal Coliform: Single sample maximum	Not established	23	CFU or MPN ¹⁵	Daily ¹⁶	Quarterly
Fecal Coliform: four (4) of seven (7) samples in a week ¹⁷	Not established	Non-detect ¹⁸	CFU or MPN	Daily	Quarterly
Total Nitrogen ¹⁹ : 5-sample rolling geometric mean	8.0	10.0	mg/l	Monthly ²⁰	Quarterly

⁸ The permittee shall initiate monitoring under this table (Section 4.2, Table IA-1) upon ceasing vault and haul during the initial start-up period (Section 4.1, Table I) as per Section 3.0, Compliance Schedule.

⁹ AL = Alert Level

¹⁰ DL = Discharge Limit

¹¹ Not established = Monitoring required but no limits have been specified at time of permit issuance.

¹² MGD = Million Gallons per Day

¹³ Flow shall be measured using a continuous recording flow meter which totals the flow daily.

¹⁴ Monthly = Monthly average of daily flow values (calculated value)

¹⁵ CFU = Colony Forming Units / 100 ml sample. MPN = Most Probable Number / 100 ml sample. 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.

¹⁶ Daily means at least four (4) samples per week must be analyzed.

¹⁷ Week means a seven-day period starting on Sunday and ending on the following Saturday.

¹⁸ If at least four (4) of the daily samples are non-detect, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) of the daily samples have detections of fecal coliform, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

¹⁹ Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen

²⁰ A 5-Month Geometric Mean of the results of the 5 most recent samples

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IA-1 – PHASE 1
ROUTINE DISCHARGE MONITORING (continued)

Parameter	AL	DE	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 IA-1 – PHASE 1
ROUTINE DISCHARGE MONITORING (continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs):					
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.05	0.07	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total) ²¹	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually

²¹ Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

**TABLE IA-2 – PHASE 2
ROUTINE DISCHARGE MONITORING²²**

Sampling Point Number	Sampling Point Identification			Latitude	Longitude
1	Manhole at the end of the UV disinfection system			32° 59' 37" N	111° 36' 16" W
Parameter	AL ²³	DL ²⁴	Units	Sampling Frequency	Reporting Frequency
Total Flow: Daily ²⁵	NE ²⁶	NE	MGD ²⁷	Daily ²⁸	Quarterly
Total Flow: Average Monthly	0.74	0.78	MGD	Monthly ²⁹	Quarterly
Reuse Flow: Daily	NE	NE	MGD	Daily	Quarterly
Reuse Flow: Average Monthly	1.43	1.5	MGD	Monthly	Quarterly
WRP Recharge Flow: Daily	NE	NE	MGD	Daily	Quarterly
WRP Recharge Flow: Average Monthly	0.74	0.78	MGD	Monthly	Quarterly
ERF Recharge Flow: Daily	NE	NE	MGD	Daily	Quarterly
ERF Recharge Flow: Average Monthly	1.43	1.5	MGD	Monthly	Quarterly
Fecal Coliform: Single sample maximum	NE	23	CFU or MPN ³⁰	Daily ³¹	Quarterly
Fecal Coliform: four (4) of seven (7) samples in a week ³²	NE	Non-detect ³³	CFU or MPN	Daily	Quarterly
Total Nitrogen ³⁴ : 5-sample rolling geometric mean	8.0	10.0	mg/l	Monthly ³⁵	Quarterly

²² The permittee shall initiate monitoring under Section 4.2, Table IA-2 and cease monitoring under Section 4.2, Table IA-1 after submitting an Engineer's Certificate of Completion for Phase 2 construction.

²³ AL = Alert Level

²⁴ DL = Discharge Limit

²⁵ Total flow is the total of flow for reuse and flow for recharge.

²⁶ NE = Not established = Monitoring required but no limits have been specified at time of permit issuance.

²⁷ MGD = Million Gallons per Day

²⁸ Flow shall be measured using a continuous recording flow meter which totals the flow daily.

²⁹ Monthly = Monthly average of daily flow values (calculated value)

³⁰ CFU = Colony Forming Units / 100 ml sample. MPN = Most Probable Number / 100 ml sample. 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.

³¹ Daily means at least four (4) samples per week must be analyzed.

³² Week means a seven-day period starting on Sunday and ending on the following Saturday.

³³ If at least four (4) of the daily samples are non-detect, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) of the daily samples have detections of fecal coliform, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

³⁴ Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen

³⁵ A 5-Month Geometric Mean of the results of the 5 most recent samples

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IA-2 – PHASE 2
ROUTINE 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 IA-2 – PHASE 2
ROUTINE DISCHARGE MONITORING (continued)**

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs):					
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.05	0.07	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total) ³⁶	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually

³⁶ Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IA-3 – PHASE 3
ROUTINE DISCHARGE MONITORING³⁷

Sampling Point Number	Sampling Point Identification			Latitude	Longitude
1	Manhole at the end of the UV disinfection system			32° 59' 37" N	111° 36' 16" W
Parameter	AL ³⁸	DL ³⁹	Units	Sampling Frequency	Reporting Frequency
Total Flow: Daily ⁴⁰	NE ⁴¹	NE	MGD ⁴²	Daily ⁴³	Quarterly
Total Flow: Average Monthly	0.74	0.78	MGD	Monthly ⁴⁴	Quarterly
Reuse Flow: Daily	NE	NE	MGD	Daily	Quarterly
Reuse Flow: Average Monthly	2.85	3.0	MGD	Monthly	Quarterly
WRP Recharge Flow: Daily	NE	NE	MGD	Daily	Quarterly
WRP Recharge Flow: Average Monthly	0.74	0.78	MGD	Monthly	Quarterly
ERF Recharge Flow: Daily	NE	NE	MGD	Daily	Quarterly
ERF Recharge Flow: Average Monthly	2.85	3.0	MGD	Monthly	Quarterly
Fecal Coliform: Single sample maximum	NE	23	CFU or MPN ⁴⁵	Daily ⁴⁶	Quarterly
Fecal Coliform: four (4) of seven (7) samples in a week ⁴⁷	NE	Non-detect ⁴⁸	CFU or MPN	Daily	Quarterly
Total Nitrogen ⁴⁹ : 5-sample rolling geometric mean	8.0	10.0	mg/l	Monthly ⁵⁰	Quarterly

³⁷ The permittee shall initiate monitoring under Section 4.2, Table IA-3 and cease monitoring under Section 4.2, Table IA-2 after submitting an Engineer's Certificate of Completion for Phase 3 construction.

³⁸ AL = Alert Level

³⁹ DL = Discharge Limit

⁴⁰ Total flow is the total of flow for reuse and flow for recharge.

⁴¹ NE = Not established = Monitoring required but no limits have been specified at time of permit issuance.

⁴² MGD = Million Gallons per Day

⁴³ Flow shall be measured using a continuous recording flow meter which totals the flow daily.

⁴⁴ Monthly = Monthly average of daily flow values (calculated value)

⁴⁵ CFU = Colony Forming Units / 100 ml sample. MPN = Most Probable Number / 100 ml sample. 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.

⁴⁶ Daily means at least four (4) samples per week must be analyzed.

⁴⁷ Week means a seven-day period starting on Sunday and ending on the following Saturday.

⁴⁸ If at least four (4) of the daily samples are non-detect, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) of the daily samples have detections of fecal coliform, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

⁴⁹ Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen

⁵⁰ A 5-Month Geometric Mean of the results of the 5 most recent samples

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IA-3 – PHASE 3
ROUTINE 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 IA-3 – PHASE 3
ROUTINE DISCHARGE MONITORING (continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs):					
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.05	0.07	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total) ⁵¹	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually

⁵¹ Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IB
RECLAIMED WATER MONITORING TABLE - CLASS A+⁵²

Sampling Point Number	Sampling Point Identification		Latitude	Longitude
1	Manhole at the end of the UV disinfection system		32° 59' 37" N	111° 36' 16" W
Parameter	DL	Units	Sampling Frequency	Reporting Frequency
Fecal Coliform: Single-sample maximum	23	CFU or MPN ⁵³	Daily ⁵⁴	Quarterly
Fecal Coliform: Four (4) of last seven (7) samples	Non-detect ⁵⁵	CFU or MPN	Daily	Quarterly
Turbidity ⁵⁶ : Single reading	5.0	NTU ⁵⁷	Everyday ⁵⁸	Quarterly
Turbidity: 24-hour average	2.0	NTU	Everyday	Quarterly

⁵² During Phase 1, reclaimed water monitoring is not required. During Phase 2, reclaimed water monitoring is in addition to routine discharge monitoring.

⁵³ 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.

⁵⁴ 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.

⁵⁵ If at least four (4) of the last seven (7) samples are non-detect, 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 detections of fecal coliform, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

⁵⁶ Turbidimeter shall have a signal averaging time not exceeding 120 seconds. Occasional spikes due to back-flushing or instrument malfunction shall not be considered an exceedance. All exceedances must be explained and submitted to the Department with the corresponding quarterly SMRF.

⁵⁷ Nephelometric Turbidity Units

⁵⁸ For the single turbidity reading, "everyday" means the maximum reading during the 24-hour period.

4.0 TABLES OF MONITORING REQUIREMENTS

**TABLE IIA-1
AMBIENT GROUNDWATER MONITORING⁵⁹**

Sampling Point Number	Sampling Point Identification		Latitude		Longitude
2	POC #1, Northwest corner of the WRP, approximately 150 feet northwest of WRP Recharge Basin #2		32° 59' 46" N		111° 36' 18" W
Parameter	AL ⁶⁰	AQL ⁶¹	Units	Sampling Frequency	Reporting Frequency
Total Nitrogen ⁶² :	NE ⁶³	NE	mg/l	Monthly	Quarterly
Nitrate-Nitrite as N	NE	NE	mg/l	Monthly	Quarterly
Total Kjeldahl Nitrogen (TKN)	NE	NE	mg/l	Monthly	Quarterly
Total Coliform	Absence	Absence ⁶⁴	CFU or MPN ⁶⁵	Monthly	Quarterly
Metals (Total):					
Antimony	NE	NE	mg/l	Quarterly	Quarterly
Arsenic	NE	NE	mg/l	Quarterly	Quarterly
Barium	NE	NE	mg/l	Quarterly	Quarterly
Beryllium	NE	NE	mg/l	Quarterly	Quarterly
Cadmium	NE	NE	mg/l	Quarterly	Quarterly
Chromium	NE	NE	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	NE	NE	mg/l	Quarterly	Quarterly
Fluoride	NE	NE	mg/l	Quarterly	Quarterly
Lead	NE	NE	mg/l	Quarterly	Quarterly
Mercury	NE	NE	mg/l	Quarterly	Quarterly
Nickel	NE	NE	mg/l	Quarterly	Quarterly
Selenium	NE	NE	mg/l	Quarterly	Quarterly
Thallium	NE	NE	mg/l	Quarterly	Quarterly

⁵⁹ The permittee shall conduct eight (8) monthly rounds of ambient groundwater quality sampling. Sampling under Table IIA-1 may be discontinued after sampling under Table IIA-2 begins.

⁶⁰ AL = Alert Level

⁶¹ AQL = Aquifer Quality Limit

⁶² Total Nitrogen is equal to nitrate as N plus nitrite as N plus TKN.

⁶³ NE = Not Established = Monitoring required, but no limits have been established at this time.

⁶⁴ A positive result for total coliform may be verified with an analysis for fecal coliform. A positive result for fecal coliform shall be considered an exceedance of the AQL for total coliform.

⁶⁵ CFU = Colony Forming Units per 100 ml, MPN = Most Probable Number per 100 ml.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IIA-1
AMBIENT GROUNDWATER MONITORING (continued)

Parameter	AL	AQL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs):					
Benzene	NE	NE	mg/l	Quarterly	Quarterly
Carbon tetrachloride	NE	NE	mg/l	Quarterly	Quarterly
o-Dichlorobenzene	NE	NE	mg/l	Quarterly	Quarterly
para-Dichlorobenzene	NE	NE	mg/l	Quarterly	Quarterly
1,2-Dichloroethane	NE	NE	mg/l	Quarterly	Quarterly
1,1-Dichloroethylene	NE	NE	mg/l	Quarterly	Quarterly
cis-1,2-Dichloroethylene	NE	NE	mg/l	Quarterly	Quarterly
trans-1,2-Dichloroethylene	NE	NE	mg/l	Quarterly	Quarterly
Dichloromethane	NE	NE	mg/l	Quarterly	Quarterly
1,2-Dichloropropane	NE	NE	mg/l	Quarterly	Quarterly
Ethylbenzene	NE	NE	mg/l	Quarterly	Quarterly
Hexachlorobenzene	NE	NE	mg/l	Quarterly	Quarterly
Hexachlorocyclopentadiene	NE	NE	mg/l	Quarterly	Quarterly
Monochlorobenzene	NE	NE	mg/l	Quarterly	Quarterly
Styrene	NE	NE	mg/l	Quarterly	Quarterly
Tetrachloroethylene	NE	NE	mg/l	Quarterly	Quarterly
Toluene	NE	NE	mg/l	Quarterly	Quarterly
Trihalomethanes (total) ⁶⁶	NE	NE	mg/l	Quarterly	Quarterly
1,1,1-Trichloroethane	NE	NE	mg/l	Quarterly	Quarterly
1,2,4 - Trichlorobenzene	NE	NE	mg/l	Quarterly	Quarterly
1,1,2 - Trichloroethane	NE	NE	mg/l	Quarterly	Quarterly
Trichloroethylene	NE	NE	mg/l	Quarterly	Quarterly
Vinyl Chloride	NE	NE	mg/l	Quarterly	Quarterly
Xylenes (Total)	NE	NE	mg/l	Quarterly	Quarterly

⁶⁶ Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IIA-2
COMPLIANCE GROUNDWATER MONITORING⁶⁷

Sampling Point Number	Sampling Point Identification		Latitude	Longitude	
2	POC #1, Northwest corner of the WRP, approximately 150 feet northwest of WRP Recharge Basin #2		32° 59' 46" N	111° 36' 18" W	
Parameter	AL ⁶⁸	AQL ⁶⁹	Units	Sampling Frequency	Reporting Frequency
Total Nitrogen ⁷⁰ :	Reserved ⁷¹	Reserved	mg/l	Monthly	Quarterly
Nitrate-Nitrite as N	Reserved	Reserved	mg/l	Monthly	Quarterly
Total Kjeldahl Nitrogen (TKN)	Reserved	Reserved	mg/l	Monthly	Quarterly
Total Coliform	Absence	Absence ⁷²	CFU or MPN ⁷³	Monthly	Quarterly
Metals (Total):					
Antimony	Reserved	Reserved	mg/l	Quarterly	Quarterly
Arsenic	Reserved	Reserved	mg/l	Quarterly	Quarterly
Barium	Reserved	Reserved	mg/l	Quarterly	Quarterly
Beryllium	Reserved	Reserved	mg/l	Quarterly	Quarterly
Cadmium	Reserved	Reserved	mg/l	Quarterly	Quarterly
Chromium	Reserved	Reserved	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	Reserved	Reserved	mg/l	Quarterly	Quarterly
Fluoride	Reserved	Reserved	mg/l	Quarterly	Quarterly
Lead	Reserved	Reserved	mg/l	Quarterly	Quarterly
Mercury	Reserved	Reserved	mg/l	Quarterly	Quarterly
Nickel	Reserved	Reserved	mg/l	Quarterly	Quarterly
Selenium	Reserved	Reserved	mg/l	Quarterly	Quarterly
Thallium	Reserved	Reserved	mg/l	Quarterly	Quarterly

⁶⁷ Monitoring under Table IIA-2 shall begin after eight (8) monthly rounds of ambient groundwater quality monitoring under Table IIA-1 are completed.

⁶⁸ AL = Alert Level

⁶⁹ AQL = Aquifer Quality Limit

⁷⁰ Total Nitrogen is equal to nitrate as N plus nitrite as N plus TKN.

⁷¹ Reserved = Monitoring is required, but limits will be established as per Section 3.0, Compliance Schedule.

⁷² A positive result for total coliform may be verified with an analysis for fecal coliform. A positive result for fecal coliform shall be considered an exceedance of the AQL for total coliform.

⁷³ CFU = Colony Forming Units per 100 ml, MPN = Most Probable Number per 100 ml.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IIA-2
COMPLIANCE GROUNDWATER MONITORING (continued)

Parameter	AL	AQL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs):					
Benzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Styrene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Toluene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total) ⁷⁴	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually

⁷⁴ Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

**TABLE IIB-1
AMBIENT GROUNDWATER MONITORING⁷⁵**

Sampling Point Number	Sampling Point Identification		Latitude		Longitude
3	POC #2, Northwest corner of the ERF		32° 59' 32" N		111° 35' 01" W
Parameter	AL ⁷⁶	AQL ⁷⁷	Units	Sampling Frequency	Reporting Frequency
Total Nitrogen ⁷⁸ :	NE ⁷⁹	NE	mg/l	Monthly	Quarterly
Nitrate-Nitrite as N	NE	NE	mg/l	Monthly	Quarterly
Total Kjeldahl Nitrogen (TKN)	NE	NE	mg/l	Monthly	Quarterly
Total Coliform	Absence	Absence ⁸⁰	CFU or MPN ⁸¹	Monthly	Quarterly
Metals (Total):					
Antimony	NE	NE	mg/l	Quarterly	Quarterly
Arsenic	NE	NE	mg/l	Quarterly	Quarterly
Barium	NE	NE	mg/l	Quarterly	Quarterly
Beryllium	NE	NE	mg/l	Quarterly	Quarterly
Cadmium	NE	NE	mg/l	Quarterly	Quarterly
Chromium	NE	NE	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	NE	NE	mg/l	Quarterly	Quarterly
Fluoride	NE	NE	mg/l	Quarterly	Quarterly
Lead	NE	NE	mg/l	Quarterly	Quarterly
Mercury	NE	NE	mg/l	Quarterly	Quarterly
Nickel	NE	NE	mg/l	Quarterly	Quarterly
Selenium	NE	NE	mg/l	Quarterly	Quarterly
Thallium	NE	NE	mg/l	Quarterly	Quarterly

⁷⁵ The permittee shall conduct eight (8) monthly rounds of ambient groundwater quality sampling. Sampling under Table IIB-1 may be discontinued after sampling under Table IIB-2 begins.

⁷⁶ AL = Alert Level

⁷⁷ AQL = Aquifer Quality Limit

⁷⁸ Total Nitrogen is equal to nitrate as N plus nitrite as N plus TKN.

⁷⁹ NE = Not Established = Monitoring required, but no limits have been established at this time.

⁸⁰ A positive result for total coliform may be verified with an analysis for fecal coliform. A positive result for fecal coliform shall be considered an exceedance of the AQL for total coliform.

⁸¹ CFU = Colony Forming Units per 100 ml, MPN = Most Probable Number per 100 ml.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IIB-1
AMBIENT GROUNDWATER MONITORING (continued)

Parameter	AL	AQL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs):					
Benzene	NE	NE	mg/l	Quarterly	Quarterly
Carbon tetrachloride	NE	NE	mg/l	Quarterly	Quarterly
o-Dichlorobenzene	NE	NE	mg/l	Quarterly	Quarterly
para-Dichlorobenzene	NE	NE	mg/l	Quarterly	Quarterly
1,2-Dichloroethane	NE	NE	mg/l	Quarterly	Quarterly
1,1-Dichloroethylene	NE	NE	mg/l	Quarterly	Quarterly
cis-1,2-Dichloroethylene	NE	NE	mg/l	Quarterly	Quarterly
trans-1,2-Dichloroethylene	NE	NE	mg/l	Quarterly	Quarterly
Dichloromethane	NE	NE	mg/l	Quarterly	Quarterly
1,2-Dichloropropane	NE	NE	mg/l	Quarterly	Quarterly
Ethylbenzene	NE	NE	mg/l	Quarterly	Quarterly
Hexachlorobenzene	NE	NE	mg/l	Quarterly	Quarterly
Hexachlorocyclopentadiene	NE	NE	mg/l	Quarterly	Quarterly
Monochlorobenzene	NE	NE	mg/l	Quarterly	Quarterly
Styrene	NE	NE	mg/l	Quarterly	Quarterly
Tetrachloroethylene	NE	NE	mg/l	Quarterly	Quarterly
Toluene	NE	NE	mg/l	Quarterly	Quarterly
Trihalomethanes (total) ⁸²	NE	NE	mg/l	Quarterly	Quarterly
1,1,1-Trichloroethane	NE	NE	mg/l	Quarterly	Quarterly
1,2,4 - Trichlorobenzene	NE	NE	mg/l	Quarterly	Quarterly
1,1,2 - Trichloroethane	NE	NE	mg/l	Quarterly	Quarterly
Trichloroethylene	NE	NE	mg/l	Quarterly	Quarterly
Vinyl Chloride	NE	NE	mg/l	Quarterly	Quarterly
Xylenes (Total)	NE	NE	mg/l	Quarterly	Quarterly

⁸² Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

**TABLE IIB-2
COMPLIANCE GROUNDWATER MONITORING⁸³**

Sampling Point Number	Sampling Point Identification		Latitude	Longitude	
3	POC #2, Northwest corner of the ERF		32° 59' 32" N	111° 35' 01" W	
Parameter	AL ⁸⁴	AQL ⁸⁵	Units	Sampling Frequency	Reporting Frequency
Total Nitrogen ⁸⁶ :	Reserved ⁸⁷	Reserved	mg/l	Monthly	Quarterly
Nitrate-Nitrite as N	Reserved	Reserved	mg/l	Monthly	Quarterly
Total Kjeldahl Nitrogen (TKN)	Reserved	Reserved	mg/l	Monthly	Quarterly
Total Coliform	Absence	Absence ⁸⁸	CFU or MPN ⁸⁹	Monthly	Quarterly
Metals (Total):					
Antimony	Reserved	Reserved	mg/l	Quarterly	Quarterly
Arsenic	Reserved	Reserved	mg/l	Quarterly	Quarterly
Barium	Reserved	Reserved	mg/l	Quarterly	Quarterly
Beryllium	Reserved	Reserved	mg/l	Quarterly	Quarterly
Cadmium	Reserved	Reserved	mg/l	Quarterly	Quarterly
Chromium	Reserved	Reserved	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	Reserved	Reserved	mg/l	Quarterly	Quarterly
Fluoride	Reserved	Reserved	mg/l	Quarterly	Quarterly
Lead	Reserved	Reserved	mg/l	Quarterly	Quarterly
Mercury	Reserved	Reserved	mg/l	Quarterly	Quarterly
Nickel	Reserved	Reserved	mg/l	Quarterly	Quarterly
Selenium	Reserved	Reserved	mg/l	Quarterly	Quarterly
Thallium	Reserved	Reserved	mg/l	Quarterly	Quarterly

⁸³ Monitoring under Table IIB-2 shall begin after eight (8) monthly rounds of ambient groundwater quality monitoring under Table IIB-1 are completed.

⁸⁴ AL = Alert Level

⁸⁵ AQL = Aquifer Quality Limit

⁸⁶ Total Nitrogen is equal to nitrate as N plus nitrite as N plus TKN.

⁸⁷ Reserved = Monitoring is required, but limits will be established as per Section 3.0, Compliance Schedule.

⁸⁸ A positive result for total coliform may be verified with an analysis for fecal coliform. A positive result for fecal coliform shall be considered an exceedance of the AQL for total coliform.

⁸⁹ CFU = Colony Forming Units per 100 ml, MPN = Most Probable Number per 100 ml.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE IIB-2
COMPLIANCE GROUNDWATER MONITORING (continued)

Parameter	AL	AQL	Units	Sampling Frequency	Reporting Frequency
Volatile Organic Compounds (VOCs):					
Benzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Styrene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Toluene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Trihalomethanes (total) ⁹⁰	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	Reserved	Reserved	mg/l	Semi-Annually	Semi-Annually

⁹⁰ Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

4.0 TABLES OF MONITORING REQUIREMENTS

TABLE III
FACILITY INSPECTION (Operational Monitoring)⁹¹

Pollution Control Structures/Parameter	Performance Levels	Inspection Frequency	Reporting Frequency
Treatment Plant Components	Good working condition	Weekly	Quarterly
Recharge Basin Berm Integrity	No visible structural damage, breach, or erosion of embankments	Weekly	Quarterly
Recharge Basin Freeboard	Minimum of one (1) foot	Weekly	Quarterly

⁹¹ References to recharge basins in this table apply to all constructed recharge basins, whether located at the WRP or the ERF.

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: February 18, 2005
2. Contingency Plan, dated: February 18, 2005
3. Final Hydrologist Report dated: September, 2007
4. Final Engineering Report dated: June 21, 2007
5. Public Notice dated: July 2, 2007
6. Public Hearing, dated: N/A
7. Responsiveness Summary, dated: N/A

6.0 NOTIFICATION PROVISIONS

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).

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 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.

6.5 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.

6.6 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.

6.7 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.

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

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

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

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

6.10 Permit Action: Amendment, Transfer, Suspension, and Revocation [A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

This permit may be amended, transferred, suspended, or revoked for cause, under the rules of the Department. The permittee shall notify the Groundwater 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.

7.0 ADDITIONAL PERMIT CONDITIONS**7.1 Other Information [A.R.S. § 49-243(K)(8)]**

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

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

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

7.3 Permit Transfer

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

ARIZONA DEPARTMENT OF WATER RESOURCES

Office of Assured and Adequate Water Supply

2nd Floor, 3550 N. Central Ave., Phoenix, AZ 85012

Telephone 602 771-8585

Fax 602 771-8689



Janet Napolitano
Governor

Herbert R. Guenther
Director

November 22, 2006

VIA CERTIFIED MAIL

Bill King, Pivotal Group
2555 E. Camelback Road, Suite 700
Phoenix, AZ 85016

**Re: Certificate of Assured Water Supply
Sandia NW, Parcels A,B,C & K
DWR File No. 27-402039.0000**

Dear Bill:

The Department of Water Resources has determined that the criteria for an Assured Water Supply pursuant to A.R.S. § 45-576 and A.A.C. R12-15-701 *et seq.* have been met, and therefore the Director has decided to issue Assured Water Supply Certificate No 27-402039.0000. Woodruff Water Company, Inc. will provide water supply to the lots. The source of supply will be groundwater, treated effluent by Woodruff Utility Company, Inc. and a Type 1 Non-Irrigation Grandfathered Right.. Based on current information, the Department has determined that the subdivision's total projected demand is 3,722.28 acre-feet per year for 4,188 lots, and the groundwater allowance for the 100-year period is 1,676.01 acre-feet. The Certificate is attached. The Department suggests you record your Certificate of Assured Water Supply in the appropriate county recorders office. This will provide you with a permanent public record of the Certificate.

This determination is applicable only to the person or entity specified on the Certificate and for the plat reviewed by the Department. Information used in evaluating this application is available for review in the Department's files. Please contact us if questions arise.

Pursuant to A.R.S. § 41-1092.03, the Department is notifying you that the Director's determination and decision to issue the Certificate is an appealable agency action. You are entitled to appeal this action. If you wish to appeal this action, you must file a written appeal within thirty (30) days from receipt of this letter. I am providing you with a summary of the appeal process and an appeal form, should you elect to pursue this option.

Sincerely,

J. Scott Miller, Manager
Office of Assured and Adequate Water Supply

JSM/njc
Enclosures

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
CERTIFICATE OF ASSURED WATER SUPPLY

This is to certify that

First American Title Insurance Co., a California Corporation as Trustee under its Trust No. 8583 with Wuertz Farming Limited Co., an Arizona Limited Liability Company as First Beneficiary and Pivotal Sandia LLC, an Arizona Limited Liability Company as Second Beneficiary, as to Parcel A; First American Title Insurance Co., a California Corporation as Trustee under its Trust No. 8583 with Wildcat Farms, LLC, an Arizona Limited Liability Company as First Beneficiary, and Pivotal Sandia LLC, an Arizona Limited Liability Company as Second Beneficiary as owner as to Parcel B; First American Title Insurance Co., a California Corporation as Trustee under its Trust No. 8583 with Howard and Jewell Wuertz as First Beneficiaries and Pivotal Sandia LLC, an Arizona Limited Liability Company as Second Beneficiary, as owner as to Parcel C; First American Title Insurance Co., a California Corporation as Trustee under its Trust No. 8573 with Wildcat Farms, LLC, an Arizona Limited Liability Company as Beneficiary, as owner as to Parcel K; and Pivotal Sandia LLC, an Arizona Limited Liability Company, as Optionee as to Parcels A, B, C & K; and First American Title Insurance Co., a California Corporation as Trustee under its Trust No. 8583 as Optionee as to Parcel K with Howard Wuertz and Jewell Wuertz, Sarah Lynn Wuertz, Gregory Wuertz, Carol Wuertz Beherns as Trustee of the Carol Ann Wuertz Revocable Trust, David Wuertz, Sundance Farms Limited Partnership, LLP, an Arizona Limited Liability Partnership; Wildcat Farms, LLC, an Arizona Limited Liability Company; McKinney Farming Company, an Arizona General Partnership; and Wuertz Farming Limited Company, an Arizona Limited Liability Company, as First Beneficiaries and Pivotal Sandia LLC, an Arizona Limited Liability Company as Second Beneficiary

Have met the requirements of A.R.S. §§ 45-576 and the applicable regulations, and

By powers vested in the Director of the Arizona Department of Water Resources by the State of Arizona, and subject to the conditions contained in the applicable regulations,

Are issued this Certificate of Assured Water Supply for



ARIZONA DEPARTMENT OF WATER RESOURCES

Sandia NW, Parcels A, B, C & K

Sections 13, & 14, Township 5 South, Range 7 East and Sections 23, & 24, Township 5 South, Range 7 East
GSRB&M Pinal County, Pinal Active Management Area

Sufficient water of adequate quality will be continuously available to satisfy the water demand of the referenced subdivision for at least one hundred years. The referenced subdivision consists of 4,188 lots as described in the preliminary plat on file with the Department, and has an estimated water demand of 3,722.28 acre-feet per year. The subdivision will be served groundwater by Woodruff Water Company and treated effluent by Woodruff Utility Company, Inc. and a Type 1 Non-Irrigation Grandfathered Right.

This Certificate is invalid as to any entity not named above.
This Certificate may be assigned pursuant to A.A.C. R12-15-705.

Certificate Number: 27-402039.0000


Assistant Director

11/21/2006
Date

ARIZONA DEPARTMENT OF WATER RESOURCES

Office of Assured and Adequate Water Supply

2nd Floor, 3550 N. Central Ave., Phoenix, AZ 85012

Telephone 602 771-8585

Fax 602 771-8689



December 19, 2006

Janet Napolitano
Governor

Herbert R. Guenther
Director

VIA CERTIFIED MAIL

Bill King

2555 E. Camelback Rd. Suite 700

Phoenix, AZ 85016

**Re: Certificate of Assured Water Supply
Sandia - SE1
DWR File No. 27-402227.0000**

Dear Bill King:

The Department of Water Resources has determined that the criteria for an Assured Water Supply pursuant to A.R.S. § 45-576 and A.A.C. R12-15-701 *et seq.* have been met, and therefore the Director has decided to issue Assured Water Supply Certificate No. 27-402227.0000. Woodruff Water Company will provide water supply to the lots. The source of supply will be **groundwater, effluent and a Type 1 non-irrigation grandfathered groundwater right.** Based on current information, the Department has determined that the subdivision's total projected demand is 5126.45 acre-feet per year for 5634 lots, and the groundwater allowance is 2322.48 acre-feet per year. The Certificate is attached. The Department suggests you record your Certificate of Assured Water Supply in the appropriate county recorders office. This will provide you with a permanent public record of the Certificate.

This determination is applicable only to the person or entity specified on the Certificate and for the plat reviewed by the Department. Information used in evaluating this application is available for review in the Department's files. Please contact us if questions arise.

Pursuant to A.R.S. § 41-1092.03, the Department is notifying you that the Director's determination and decision to issue the Certificate is an appealable agency action. You are entitled to appeal this action. If you wish to appeal this action, you must file a written appeal within thirty (30) days from receipt of this letter. I am providing you with a summary of the appeal process and an appeal form, should you elect to pursue this option.

Sincerely,

J. Scott Miller, Manager
Office of Assured and Adequate Water Supply

JSM/rbo
Enclosures

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Subdivision Name: Sandia - SE1

File Number: 27-402227.0000

Cliff Neal

CAGR

P.O. Box 43020

Phoenix, AZ 85080-3020

Drew Swieczkowski, Hydrology Division

Pinal AMA Division

**STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
CERTIFICATE OF ASSURED WATER SUPPLY**

This is to certify that

First American Title Insurance Co., a California Corporation as Trustee under its Trust No. 8586 with Sundance Farms Limited Partnership, LLP, an Arizona Limited Liability Partnership as beneficiary, as Owner of Parcel D; First American Title Insurance Co., a California Corporation as Trustee under its Trust No. 8587 with McKinney Farming Company, an Arizona General Partnership as beneficiary, as Owner of Parcel E; First American Title Insurance Co., a California Corporation, as Trustee under its Trust No. 8588, with Wuertz Farming Limited Company, an Arizona Limited Liability Company as beneficiary, as Owner of Parcel F; Sarah Lynn Wuertz, a single woman, as Owner of Parcel G; Gregory C. Wuertz, a married man, as his sole and separate property, as Owner of Parcel H; Carol Ann Wuertz, Trustee of the Carol Ann Wuertz Revocable Trust, as Owner of Parcel I; David A. Wuertz, a married man, as his sole and separate property, as Owner of Parcel J; with Pivotal Sandia LLC, an Arizona Limited Liability Company as Optionee to Parcels D, E, F, G, H, I and J, and First American Title Insurance Co., a California Corporation, as Trustee under Trust No. 8583, as Optionee to Parcels D, E, F, G, H, I and J, with Howard Wuertz, Jewell Wuertz, Sarah Lynn Wuertz, Gregory Wuertz, Carol Wuertz Behrent, Trustee of the Carol Ann Wuertz Revocable Trust, David Wuertz, Sundance Farms LLP, and Arizona limited liability limited partnership, Wildcat Farms, LLC, an Arizona limited liability company, McKinney Farming Company, an Arizona General Partnership, and Wuertz Farming Company, an Arizona limited liability company, as first beneficiaries

have met the requirements of A.R.S. §§ 45-576 and the applicable regulations, and

By powers vested in the Director of the Arizona Department of Water Resources by the State of Arizona, and subject to the conditions contained in the applicable regulations,

Are issued this Certificate of Assured Water Supply for

**Sandia - SE1
Section 13, 24,25, Township 05 South, Range 07 East
GSRB&M, Pinal County, Pinal Active Management Area**

Sufficient water of adequate quality will be continuously available to satisfy the water demand of the referenced subdivision for at least one hundred years. The referenced subdivision consists of 5634 lots as described in the preliminary plat on file with the Department, and has an estimated water demand of 5126.45 acre-feet per year. The subdivision will be served groundwater by Woodruff Water Company and treated effluent by Woodruff Utility Company and a Type 1 Non-irrigation Grandfathered Groundwater Right.

This Certificate is invalid as to any entity not named above.
This Certificate may be assigned pursuant to A.A.C. R12-15-705.

Certificate Number: 27-402227.0000

ARIZONA DEPARTMENT OF WATER RESOURCES



Sandra Salcedo-Whitney
Assistant Director

12/11/2006
Date

ARIZONA DEPARTMENT OF WATER RESOURCES

Office of Assured and Adequate Water Supply

2nd Floor, 3550 N. Central Ave., Phoenix, AZ 85012

Telephone 602 771-8585

Fax 602 771-8689



December 12, 2006

Janet Napolitano
Governor

VIA CERTIFIED MAIL

Bill King

2555 E Camelback Rd #700

Phoenix AZ 85016

Herbert R. Guenther
Director

**Re: Certificate of Assured Water Supply
Sandia SE2
DWR File No. 27-402228.0000**

Dear Mr. King:

The Department of Water Resources has determined that the criteria for an Assured Water Supply pursuant to A.R.S. § 45-576 and A.A.C. R12-15-701 *et seq.* have been met, and therefore the Director has decided to issue Assured Water Supply Certificate No.27-402228.0000. Woodruff Water Company Inc will provide water supply to the lots. The source of supply will be groundwater and effluent. Based on current information, the Department has determined that the subdivision's total projected demand is 846.33 acre-feet per year for 484 lots, and the groundwater allowance is 176.42 acre-feet per year. The Certificate is attached. The Department suggests you record your Certificate of Assured Water Supply in the appropriate county recorders office. This will provide you with a permanent public record of the Certificate.

This determination is applicable only to the person or entity specified on the Certificate and for the plat reviewed by the Department. Information used in evaluating this application is available for review in the Department's files. Please contact us if questions arise.

Pursuant to A.R.S. § 41-1092.03, the Department is notifying you that the Director's determination and decision to issue the Certificate is an appealable agency action. You are entitled to appeal this action. If you wish to appeal this action, you must file a written appeal within thirty (30) days from receipt of this letter. I am providing you with a summary of the appeal process and an appeal form, should you elect to pursue this option.

Sincerely,

J. Scott Miller, Manager
Office of Assured and Adequate Water Supply

JSM/mfn
Enclosures

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Subdivision Name: Sandia SE2

File Number: 27-402228.0000

Cliff Neal

CAGR

P.O. Box 43020

Phoenix, AZ 85080-3020

Drew Swieczkowski, Hydrology Division

Pinal AMA Division

STATE OF ARIZONA
ARIZONA DEPARTMENT OF WATER RESOURCES
DEPARTMENT OF WATER RESOURCES
CERTIFICATE OF ASSURED WATER SUPPLY

This is to certify that

First American Title Insurance Co., a California Corporation as Trustee under its Trust No. 8586 with Sundance Farms Limited Partnership, as owner as to Parcel D, First American Title Insurance Co., a California Corporation as Trustee under its Trust No. 8587 with McKinney Farming Company, a General Partnership as beneficiary, as owner as to Parcel E, First American Title Insurance Co., a California Corporation as Trustee under its Trust No. 8588 with Wuertz Farming Limited Company, an Arizona Limited Liability Company as beneficiary, as owner as to Parcel F, Pivotal Sandia LLC, an Arizona Limited Liability Company, as Optionee as to Parcels D, E, and F and First American Title Insurance Co., a California Corporation as Trustee under its Trust No. 8583 as Optionee as to Parcels D, E, and F with HOWARD WUERTZ AND JEWELL WUERTZ, SARAH LYNN WUERTZ, GREGORY WUERTZ, CAROL WUERTZ BEHRENS as Trustee of the Carol Ann Wuertz Revocable Trust, DAVID WUERTZ, SUNDANCE FARMS LIMITED PARTNERSHIP, LLP, an Arizona Limited Liability Partnership; WILDCAT FARMS, LLC, an Arizona limited liability company; MCKINNEY FARMING COMPANY, an Arizona general Partnership; and WUERTZ FARMING LIMITED COMPANY, an Arizona Limited Liability Company, as First Beneficiaries and Pivotal Sandia LLC, an Arizona Limited Liability Company as Second Beneficiary.

have met the requirements of A.R.S. §§ 45-576 and the applicable regulations, and

By powers vested in the Director of the Arizona Department of Water Resources by the State of Arizona, and subject to the conditions contained in the applicable regulations,

Are issued this Certificate of Assured Water Supply for

Sandia SE2
Sections 13, 24, 25 Township 05 South, Range 07 East
GSRB&M Pinal County, Pinal Active Management Area

Sufficient water of adequate quality will be continuously available to satisfy the water demand of the referenced subdivision for at least one hundred years. The referenced subdivision consists of **484 lots** as described in the preliminary plat on file with the Department, and has an estimated water demand of **846.33 acre-feet per year**. The subdivision will be served **groundwater and treated effluent** by **Woodruff Water Company Inc.**, and a **Type 1 Non-Irrigation Grandfathered Right**.



This Certificate is invalid as to any entity not named above.
This Certificate may be assigned pursuant to A.A.C. R12-15-705.

Certificate Number: 27492228.0000

Sandra Salazar
Assistant Director

12/6/2006
Date