

**STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-100381
PLACE ID 873, LTF 114044
SIGNIFICANT AMENDMENT**

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2, and 3, In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2 and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A. A. C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, the Arizona Department of Environmental Quality (ADEQ) hereby authorizes Frito-Lay, Inc. to operate the industrial wastewater treatment system (IWTS) facility located in the City of Casa Grande at 1450 West Maricopa Highway, Pinal County, Arizona, over groundwater of the Pinal Active Management Area (AMA) in Township 6S, Range 5E, Section 14 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: Frito-Lay, Inc. - Casa Grande Facility
Facility Address: 1450 West Maricopa Highway
Casa Grande, Arizona 85193
County: Pinal County

Permitted Flow Rate: 692,000 gallons per day (gpd)

Permittee: Frito-Lay, Inc.
Permittee Address: 1450 West Maricopa Highway

Facility Contact: Benjamin Ludtke, Engineering Director
Emergency Phone No.: (520) 316-7513

Latitude/Longitude: 32° 54' 20" N / 111° 47' 40" W
Legal Description: Township 6S, Range 5E, Section 14 of the Gila and Salt River Baseline and Meridian.

1.2. AUTHORIZING SIGNATURE

Randall Matas, Acting Director
Water Quality Division
Arizona Department of Environmental Quality
Signed this _____ day of _____, 2026

THIS AMENDED PERMIT SUPERSEDES ALL PREVIOUS PERMITS

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2.0 SPECIFIC CONDITIONS

[A.R.S. §§ 49-203(4), 49-241(A)]

2.1. FACILITY / SITE DESCRIPTION

[A.R.S. § 49-243(K)(8)]

The permittee is authorized to operate the Frito-Lay, Inc. - Casa Grande Facility with a maximum average monthly flow of 692,000 gpd. Frito-Lay, Inc. (Frito-Lay) owns and operates a snack food manufacturing facility in Casa Grande, Arizona. The facility has been in operation since 1984 and manufactures potato chips and corn chips. Frito-Lay uses ingredients that include proprietary potatoes patented by Frito-Lay, whole kernel corn and wheat in selected products. Frito-Lay operates a newly constructed industrial wastewater treatment system (IWTS) at the facility to treat process wastewater. The IWTS consists of primary clarification, nitrification and denitrification systems, and activated sludge treatment utilizing a membrane bioreactor (MBR), and may receive further treatment by a low-pressure reverse osmosis (LPRO) membrane process. Process wastewater treated by the new IWTS is of high quality and is ideally recycled back into the manufacturing facility. Recycling of the high-quality effluent from the new IWTS has enabled Frito-Lay to reduce water demand by 80 percent. The APP provides Frito-Lay with ultimate flexibility to discharge MBR and/or LPRO effluent to the North Branch of the Santa Cruz Wash (NBSCW) during times when the treated water cannot be recycled back into the manufacturing facility.

Process wastewater treated at the IWTS includes water used to clean the potatoes, cook and clean the corn, discharge from starch recovery operations, oily wastewater, sanitation water, and battery neutralization tank overflow. Wastewater generated at the facility consists of 10,000 gallons per day (gpd) of domestic wastewater and 590,000 gpd of industrial wastewater with 20% going to the sewer as LPRO reject. Sanitary wastewater, LPRO reject, and all other emergency discharges shall be discharged to the City of Casa Grande Publicly Owned Treatment Works (POTW) facility. Laboratory wastewater shall be disposed of off-site at a licensed facility. Treated water from the MBR and the MBR in combination with the LPRO shall meet the AWQS prior to discharge to the permitted Arizona Pollutant Discharge Elimination System (AZPDES) Outfall 001.

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

The site includes the following permitted discharging facilities:

Table 1: DISCHARGING FACILITIES		
Facility	Latitude	Longitude
Land Disposal Area (LDA)	32° 54' 13" N	111° 47' 43" W
AZPDES Outfall (AZ0025798)	32° 54' 12.2" N	111° 47' 34.0 W
Industrial Wastewater Treatment System (IWTS)	32° 54' 09" N	111° 47' 32" W

2.1.1. Annual Registration Fee

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

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

2.1.2. Financial Capability

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

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The estimated dollar amount for facility closure and post-closure is \$722,844.00. The financial capability was demonstrated through a Letter of Credit per A.A.C. R18-9-A203(C)(5).

2.2. BEST AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY (BADCT)

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

The IWTS has been designed to meet AWQS prior to discharge to the AZPDES permitted outfall Permit No. AZ0025798. Sanitary wastewater, LPRO reject, and all other emergency discharges shall be discharged to the City of Casa Grande POTW. Laboratory wastewater shall be disposed of off-site at a licensed facility. The wastewater management systems and operational methods are included as part of the BADCT design. All quality assurance and control procedures applicable to construction and operation of the treatment components, as approved by the ADEQ, shall be followed.

2.2.1. Engineering Design

Process wastewater generated by the plant shall be treated by the IWTS that will consist of a primary clarifier, denitrification system, and MBR, and may receive further treatment by LPRO. The process wastewater treated at the IWTS shall only include water used to clean the potatoes, clean and cook the corn, discharge from starch recovery operations, oily wastewater, sanitation water, and battery neutralization tank overflow. Treated water from the MBR and the MBR in combination with the LPRO shall meet AWQS prior to discharge to the NBSCW. The maximum allowable discharge volume to the NBSCW under the AZPDES permit shall not exceed 692,187 gpd.

2.2.2. Site-Specific Characteristics

Site specific characteristics were not used to determine BADCT.

2.2.3. Pre-Operational Requirements

Not applicable

2.2.4. Operational Requirements

1. The permittee shall maintain a copy of the up-to-date operations and maintenance manual at the treatment facility site at all times; the manual shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.2, Table 16: FACILITY INSPECTION AND OPERATIONAL MONITORING
3. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented in the facility log book as per Section 2.7.2 and reported to ADEQ in the event of a violation or exceedance as per Section 2.7.3.

2.2.5. Reclaimed Water Classification

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

Not applicable.

2.2.6. Certified Areawide Water Quality Management Plan Conformance

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

Not applicable.

2.3. DISCHARGE LIMITATIONS

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

1. The permittee is authorized to operate the treatment facility with a maximum average monthly flow of 0.692 MGD.
2. The permittee shall notify all users that the materials authorized to be disposed of through the treatment facility are typical household sewage and pre-treated commercial wastewater and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.
3. The permittee shall operate and maintain all permitted facilities to prevent unauthorized discharges pursuant to A.R.S. § 49-201(12) resulting from failure or bypassing of applicable BADCT.
4. Specific discharge limitations are listed in Section 4.2, Table 10: ROUTINE DISCHARGE MONITORING.
5. No discharges should be routed to the LDA, listed in Section 2.1 Table 1: DISCHARGING FACILITIES, from the Frito Lay Facility.
6. No irrigation to the LDA is allowed without approval from ADEQ through an amendment.

2.4. POINT OF COMPLIANCE (POC)

[A.R.S. § 49-244]

The Points of Compliance (POCs) have been established at the following locations:

Table 2: POINT(S) OF COMPLIANCE				
POC #	POC Location	Screened Interval (ft bgs)	Latitude	Longitude
#1 (55-209086)	MW-1b (Contingency well paired with MW-1c)	18-38	32° 54' 26.9" N	111° 48' 17.3" W
#1 (55-916399)	MW-1c (Contingency well paired with MW-1b)	30-50	32° 54' 26.2" N	111° 48' 17.9" W
#2 (55-912009)	MW-2 (Paired with MW-2b) AZPDES Discharge to the North Branch of the Santa Cruz Wash (NBSCW)	19-39	32° 54' 30.6" N	111° 48' 17.2" W
#2 (55-916397)	MW-2b (Paired with MW-2) AZPDES Discharge to the North Branch of the Santa Cruz Wash (NBSCW)	30-59	32° 54' 30.4" N	111° 48' 16.7" W
#3 (55-928476)	MW-7R (Near former LDA Pivot 3)	30-75	32° 54' 7.96" N	111° 47' 48.408" W
#6 (N/A)	Monitoring Well at the edge of the PMA for the NBSCW (Location only, no well)	N/A	32° 55' 55.55" N	111° 52' 57.14" W

Monitoring requirements for the POCs are listed in Section 4.2, Table 12: COMPLIANCE GROUNDWATER MONITORING: (POC Well MW-2/MW-2b) and Table 13: COMPLIANCE GROUNDWATER MONITORING: (POC Well MW-7R). The Director may amend this permit to require installation of the well(s) and initiation of groundwater monitoring at the POC or to designate additional points of compliance if information on groundwater gradients or groundwater usage indicates the need.

The following are groundwater monitoring wells shall be used for analysis of any groundwater flow direction changes that may impact sampling from POC locations as identified in Section 2.6.1.1.

Table 3: MONITORING WELLS			
Well Name	ADWR #	Latitude	Longitude
MW-4	55-912011	32° 54' 28.8" N	111° 43' 30.6" W
MW-4b	55-916400	32° 54' 28.5" N	111° 43' 31.6" W
MW-5b	55-913478	32° 54' 29.3" N	111° 47' 53.2" W
MW-6R	55-921437	32° 54' 14.588" N	111° 47' 30.974" W
MW-12	55-921438	32° 53' 56.892" N	111° 47' 30.974" W

In accordance with Section 2.7.4.1, the permittee shall submit an annual report in narrative and/or tabular form to the ADEQ to include quarterly groundwater contour maps with tables of depth to water and groundwater elevation, tabular and graphical results of nitrate-nitrite for each well, and any other information specifically requested by permit condition to be submitted in the annual report.

2.5. MONITORING REQUIREMENTS

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

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

2.5.1. Pre-Operational Monitoring

Not applicable.

2.5.2. Routine Discharge Monitoring

Routine discharge quality monitoring and daily flow monitoring shall be performed for the discharge from the MBR to the AZPDES outfall. Daily flow monitoring and discharge quality shall be monitored for the operational life of the facility. The permittee shall collect representative samples from the AZPDES outfall according to Section 4.2, Table 9: FLOW MONITORING and Table 10: ROUTINE DISCHARGE MONITORING.

2.5.3. Reclaimed Water Monitoring

Not applicable.

2.5.4. Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.2, Table 16: FACILITY INSPECTION AND OPERATIONAL MONITORING.

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

2.5.5. Groundwater Monitoring and Sampling Protocols

Groundwater monitoring shall be conducted under Section 4.2: Table 11: CONTINGENCY COMPLIANCE GROUNDWATER MONITORING through Table 15: GROUNDWATER MONITORING . 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, and 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 percent 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 SMRF.

The permittee may conduct the sampling using the low-flow purging method as described in the Arizona Water Resources Research Center, March 1995 *Field Manual for Water Quality Sampling*. The well must be purged until indicator parameters stabilize. Indicator parameters shall include dissolved oxygen, turbidity, pH, temperature, and conductivity.

As a third alternative method for sampling within POC wells with very low recharge rates, the permittee may conduct the sampling using no-purge sampling techniques using HydraSleeve™ or similar type methodology. The use of HydraSleeve™ or similar type samplers shall follow accepted EPA, USGS, or DOD protocols. In addition, the HydraSleeve™ or similar type sampler shall be placed just below the water table.

2.5.5.1. Compliance Groundwater Quality Monitoring for POC Wells

Compliance groundwater monitoring shall be conducted at the POC wells, which are identified in Section 2.4. For quarterly compliance monitoring, the permittee shall analyze groundwater samples for the parameters listed in Section 4.2, Table 12: COMPLIANCE GROUNDWATER MONITORING - (2B) (POC Well MW-2/MW-2b) and Table 13: COMPLIANCE GROUNDWATER MONITORING – (3B) (POC #3 Well MW-7R).

2.5.5.2. POC Well Replacement

In the event that one or more of the designated POC wells should become unusable or inaccessible due to damage, exceedance of an alert level (AL) for water level as required by Section 2.6.2.3.4, 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/or aquifer quality limits (AQLs) calculated for the designated POC well shall apply to the replacement well.

2.5.5.3. Ambient Groundwater Quality Monitoring for Point of Compliance Wells

The permittee shall complete a minimum of eight rounds of ambient groundwater monitoring for POC #3 – MW-7R for all constituents listed as “reserved” in Section 4.2, Table 13: COMPLIANCE GROUNDWATER MONITORING.

2.5.5.4. Alert Levels for Point of Compliance Wells

ALs shall be calculated for all contaminants with an established numeric AWQS for each of the POC wells listed on Table 2: POINT(S) OF COMPLIANCE. For any new or replacement POC wells, ALs shall be calculated for all contaminants with an established numeric AWQS, as described below.

Following receipt of the laboratory analyses for the final round of the ambient groundwater monitoring period for each POC well, the permittee shall submit the ambient groundwater data in tabulated form to ADEQ for review. Copies of all laboratory analytical reports, field notes, and the Quality Assurance/Quality Control (QA/QC) procedures used in collection and analyses of the samples for all parameters listed in Section 4.2, Table 14: AMBIENT GROUNDWATER MONITORING PARAMETERS to be established for each POC well, shall be submitted to ADEQ. The permittee may submit a report with the calculations for each AL and AQL included in the permit for review and

approval by ADEQ, or the permittee may defer calculation of the ALs and AQLs by ADEQ. The ALs shall be established and calculated by the following formula, or another valid statistical method submitted to Groundwater Protection & Reuse Section in writing and approved for this permit by ADEQ:

$$AL = M + KS$$

Where M = mean, S = standard deviation, and K = one-sided normal tolerance interval with a 95% confidence level (Lieberman, G.J. (1958) Tables for One-sided Statistical Tolerance Limits: Industrial Quality Control, Vol XIV, No. 10). Obvious outliers should be excluded from the data used in the AL calculation.

The following criteria shall be met in establishing ALs in the permit:

1. The AL shall be calculated for a parameter using the analyses from a minimum of eight sample events.
2. Any data where the laboratory Practical Quantitation Limit (PQL) exceeds 80% of the AWQS shall not be included in the AL calculation.
3. If a parameter is below the detection limit, the permittee must report the value as "less than" the numeric value for the PQL or detection limit for the parameter, not just as "non-detect". For those parameters, the permittee shall use a value of one-half the reported detection limit for the AL calculation.
4. If the analytical results from more than 50% of the samples for a specific parameter are non-detect, then the AL shall be set at 80% of the AWQS.
5. If the calculated AL for a specific constituent at a specific well is less than 80% of the AWQS, the AL shall be set at 80% of the AWQS for that constituent in that well.

2.5.5.5. Aquifer Quality Limits for POC Wells

For each of the monitored analytes for which a numeric AWQS has been adopted, the AQL shall be established as follows:

1. If the calculated AL is less than the AWQS, then the AQL shall be set equal to the AWQS.
2. If the calculated AL is greater than the AWQS, then the AQL shall be set equal to the calculated AL value, and no AL shall be set for that constituent at that monitoring point

2.5.6. Surface Water Monitoring and Sampling Protocols

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

2.5.7. Analytical Methodology

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

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

Online: <https://ells-lab-search.azdhs.gov/ArizonaCertifiedLabs/LabSearchContentPage>

2.5.8. Installation and Maintenance of Monitoring Equipment

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

2.6. CONTINGENCY PLAN REQUIREMENTS

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

2.6.1. General Contingency Plan Requirements

At least one copy of this permit and the approved contingency and emergency response plan 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 AL exceedance, or violation of an AQL, DL, or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3, unless more specific reporting requirements are set forth in Section 2.6.2 through 2.6.5.

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

2.6.1.1. Contingency Plan for POC Wells MW-1b/1c

If groundwater flow direction resumes an east to west direction for four consecutive quarters, the contingency POC wells (MW-1b and MW-1c) shall resume compliance monitoring using Section 4.2, Table 11: CONTINGENCY COMPLIANCE GROUNDWATER MONITORING. Section 3.0, Table 8: COMPLIANCE SCHEDULE ITEMS: Compliance Schedule item 2 is required in order to initiate SMRF reporting.

2.6.2. Exceeding of Alert Levels and Performance Levels

2.6.2.1. Exceeding of Performance Levels Set for Operational Conditions

If a performance level set in Section 4.0, Table 16: FACILITY INSPECTION AND OPERATIONAL MONITORING has been exceeded the permittee shall:

1. Notify ADEQ within five (5) days of becoming aware of the exceedance.
2. Submit a written report to ADEQ within 30 days after becoming aware of the exceedance. The report shall document all of the following:
 - a. A description of the exceedance and the cause of the exceedance;
 - b. The period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
 - c. Any action taken or planned to mitigate the effects of the exceedance or spill, or to eliminate or prevent recurrence of the exceedance or spill;
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS; and
 - e. Any malfunction or failure of pollution control devices or other equipment or process.
3. The facility is no longer on alert status once the operational indicator no longer indicates that a performance level is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

2.6.2.2. Exceeding of Alert Levels (ALs) Set for Discharge Monitoring

1. If an AL set in Section 4.0, Table 10: ROUTINE DISCHARGE MONITORING has been exceeded, the permittee shall immediately investigate to determine the cause. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the exceedance;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the exceedance, the permittee shall sample individual waste streams composing the wastewater for the parameter(s) in question, if necessary to identify the cause of the exceedance.
2. The permittee shall initiate actions identified in the 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 the 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 days of an AL exceedance, the permittee shall submit the laboratory results to ADEQ 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

If the AL for average monthly flow in Section 4.0, Table 9: FLOW MONITORING has been exceeded, the permittee shall submit an application to the ADEQ Groundwater Protection & Reuse Section for a permit amendment to expand the treatment facility, or submit a report detailing the reasons an expansion is not necessary. Acceptance of the report instead of an application for amendment requires ADEQ approval.

2.6.2.3. Exceeding of Alert Levels in Groundwater Monitoring

2.6.2.3.1. Alert Levels for Indicator Parameters

No ALs have been established for indicator parameters.

2.6.2.3.2. Alert Levels for Pollutants with Numeric Aquifer Water Quality Standards

1. In the case of an exceedance of an AL for a pollutant set in Section 4.2, Table 12: COMPLIANCE GROUNDWATER MONITORING - (2B). The permittee may conduct verification sampling for those pollutant(s) that exceeded their respective AL(s) 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 each pollutant exceeding its' respective AL(s) as follows:

Table 4: ACCELERATED MONITORING - ALERT LEVEL EXCEEDANCE	
Specified Monitoring Frequency	Monitoring Frequency for AL Exceedance
Daily	Daily
Weekly	Daily
Monthly	Weekly
Quarterly	Monthly
Semi-annually	Quarterly
Annually	Quarterly
Biennially	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 ADEQ, that although an AL has been

exceeded, the pollutant(s) that exceeded their respective AL(s) are not reasonably expected to cause a violation of an AQL. The demonstration may propose a revised AL or monitoring frequency, for those pollutant(s) that exceeded their respective AL(s), for approval in writing by ADEQ.

4. Within 30 days after confirmation of an AL exceedance, for each pollutant that exceeded an AL, the permittee shall submit the laboratory results to ADEQ 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. For each pollutant that exceeded an AL, the increased monitoring required as a result of an AL exceedance may be reduced to the monitoring frequency in Section 4.2, Table 12: COMPLIANCE GROUNDWATER MONITORING - (2B) if the results of four sequential sampling events of those pollutants demonstrate that they did not 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 to ADEQ a second report documenting an investigation of each pollutant which continued to exceed an AL. This report is due within 30 days of the receipt of laboratory results of the sixth sampling event.

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

Not required at time of issuance.

2.6.2.3.4. Alert Level for Groundwater Level

Groundwater Level monitoring is required in Section 4.2, Table 11: CONTINGENCY COMPLIANCE GROUNDWATER MONITORING - (2A) through Table 15: GROUNDWATER MONITORING however Alert Levels are set to "monitor" only.

2.6.3. Discharge Limit Violation

1. If a DL set in Section 4.0, Table 10: ROUTINE DISCHARGE MONITORING has been violated, the permittee shall immediately investigate to determine the cause. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the violation;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the violation, the permittee shall sample individual waste streams composing the wastewater for the parameters in violation, as necessary to identify the cause of the violation.

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

either be specifically identified in this permit, included in an ADEQ-approved contingency plan, or separately approved according to Section 2.6.6.

2. Upon review of the submitted report, 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 Exceedances

1. If an AQL set in Section 4.2, Table 12: COMPLIANCE GROUNDWATER MONITORING - (2B) has been exceeded, the permittee may conduct verification sampling for those pollutant(s) that were above their respective AQL(s) 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 does not confirm an AQL exceedance, no further action is needed under this Section.
3. If verification sampling confirms that an AQL was exceeded for any parameter or if the permittee opts not to perform verification sampling, then, the permittee shall increase the frequency of monitoring for those parameters as follows:

Table 5: ACCELERATED MONITORING - AQUIFER QUALITY LIMIT VIOLATION	
Specified Monitoring Frequency	Monitoring Frequency for AQL Violation
Daily	Daily
Weekly	Daily
Monthly	Weekly
Quarterly	Monthly
Semi-annually	Quarterly
Annually	Quarterly
Biennial	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.

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.
5. The increased monitoring for those pollutant(s) required as a result of an AQL exceedance may be reduced to the original sampling frequency for each respective pollutant, if the results of three (3) sequential sampling events demonstrate that the parameter(s) does not exceed their respective AQL(s), and upon ADEQ approval.

2.6.5. Emergency Response and Contingency Requirements for Unauthorized Discharges

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

2.6.5.4. Reporting Requirements

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

2.6.6. Corrective Actions

Specific contingency measures identified in Section 2.6 have already been approved by ADEQ and do not require written approval to implement.

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

1. The permittee shall complete the Self-Monitoring Reporting Forms (SMRFs) provided by ADEQ, and submit the completed report through the myDEQ online reporting system.
2. The permittee shall complete the SMRF to the extent that the information reported may be entered on the form. If no information is required during a reporting period, the permittee shall enter "not required" on the form, include an explanation, and submit the form to ADEQ.
3. The tables contained in Section 4.2 list the monitoring parameters and the frequencies for reporting results on the SMRF:
 - a. Table 9: FLOW MONITORING
 - b. Table 10: ROUTINE DISCHARGE MONITORING
 - c. Table 12: COMPLIANCE GROUNDWATER MONITORING

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

2.7.2. Operation Inspection / Log Book Recordkeeping

A signed copy of this permit shall be maintained at all times at the location where day-to-day decisions regarding the operation of the facility are made. A log book (paper copies, forms, or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where day-to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten years from the date of each inspection, and upon request, the permit and the log book shall be made 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; and
6. Any other information required by this permit to be entered in the log book.
7. Monitoring records for each measurement shall comply with A.A.C. R18-9-A206(B)(2).

2.7.3. Permit Violation and Alert Level Status Reporting

1. The permittee shall notify ADEQ 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 for which notification requirements are not specified in Sections 2.6.2 through 2.6.5.
2. The permittee shall submit a written report to ADEQ 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 AWQS;
- e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring; and
- f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4. Operational, Other or Miscellaneous Reporting

The permittee shall record the information as required in Section 4.0, Table 16: FACILITY INSPECTION AND OPERATIONAL MONITORING in the facility log book as per Section 2.7.2, and report to ADEQ any violations or exceedances as per Section 2.7.3.

2.7.4.1. Annual Groundwater Report

Per Section 3.0, Compliance Schedule Item No. 3, the permittee shall submit an annual report in narrative and/or tabular form to the ADEQ Groundwater Protection & Reuse Section that briefly summarizes the status of compliance under this permit. The report shall identify any contingency actions taken, violations of this permit, any alert levels or discharge limitations that have been exceeded, or trends identified in POC wells. The report shall also include analysis of any groundwater flow direction changes that may impact sampling from POC locations as identified in Section 2.6.1.1. Data supplied in the annual report from wells identified in Section 4.2, Table 11: CONTINGENCY COMPLIANCE GROUNDWATER MONITORING - (2A) through Table 15: GROUNDWATER MONITORING shall include quarterly groundwater contour maps with tables of depth to water and groundwater elevation, tabular and graphical results of nitrate-nitrite for each well, and any other information specifically requested by permit condition to be submitted in the annual report. The annual report is to be submitted by January 30 of each year to cover activities from January 1 through December 31 of the previous year.

2.7.5. Reporting Location

All Self-Monitoring Report Forms (SMRFs) shall be submitted through the myDEQ portal accessible on the ADEQ website at: <https://www.azdeq.gov/mydeq>. Contact at 602-771-4571 for any inquiry related to the SMRFs.

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

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

The Arizona Department of Environmental Quality
Groundwater Protection Section
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4999

2.7.6. Reporting Deadline

The following table lists the quarterly report due dates:

Table 6: QUARTERLY REPORTING DEADLINES	
Monitoring Conducted During Quarter:	Quarterly Report Due By:
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

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

Table 7: ADDITIONAL REPORTING DEADLINES	
Monitoring Conducted:	Report Due By:
Semi-annual: January-June	July 30
Semi-annual: July-December	January 30
Annual: January-December	January 30
Biennial: January-December	January 30 ¹

2.7.7. Changes to Facility Information in Section 1.0

ADEQ shall be notified within ten 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 ADEQ 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; and
3. Notify ADEQ with a monthly facility status report describing the activities conducted on the treatment facility to correct the problem.
4. Submittal of Self-Monitoring Report Forms (SMRFs) is still required; report “temporary cessation” in the comment section.

At the time of notification the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. 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 ADEQ of the operational status of the facility every three years. If the permittee

¹ The first biennial report shall be due in 2029, and every 2 years thereafter.

intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

2.9. Closure

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

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

2.9.1. Closure Plan

Within 90 days following notification of closure, the permittee shall submit for approval to ADEQ, 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 ADEQ indicating that the approved closure plan has been implemented fully and providing supporting documentation to demonstrate that clean-closure has been achieved (soil sample results, verification sampling results, groundwater data, as applicable). If clean-closure has been achieved, ADEQ shall issue a letter of approval to the permittee at that time. If any of the following conditions apply, the permittee shall follow the terms of post-closure stated in this permit:

1. Clean-closure cannot be achieved at the time of closure notification or within one year thereafter under a diligent schedule of closure actions;
2. Further action is necessary to keep the facility in compliance with the AWQS at the applicable POC or, for any pollutant for which the AWQS was exceeded at the time this permit was issued, further action is necessary to prevent the facility from further degrading the aquifer at the applicable POC with respect to that pollutant;
3. Remedial, mitigative or corrective actions or controls are necessary to comply with A.R.S. § 49-201(30) and Title 49, Chapter 2, Article 3;
4. Further action is necessary to meet property use restrictions.
5. SMRF submittals are still required until Clean Closure is issued.

2.10. Post-closure

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

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

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

2.10.1. Post-Closure Plan

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

2.10.2. Post-Closure Completion

Not required at the time of permit issuance.

3.0 COMPLIANCE SCHEDULE

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

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

Table 8: COMPLIANCE SCHEDULE ITEMS			
No.	Description	Due By:	Permit Amendment Required?
1	Initiate Compliance Monitoring for Contingency POC Well MW-1b/1c The permittee shall notify ADEQ and commence compliance groundwater monitoring at MW-1b/1c if results of groundwater level sampling determine an east to west groundwater flow direction change in accordance to Section 2.6.1.1.	Within 30 days of the 4 th consecutive quarter of groundwater flow direction change.	No
2	POC Well MW-1b and MW-1c Amendment The permittee shall submit an amendment to change MW-1b and MW-1c from contingency wells to compliance groundwater POC wells.	Within 60 days of notification required by CSI No. 1.	Yes
3	Annual Groundwater Monitoring Report The permittee shall submit an annual report in accordance with Section 2.7.4.1. The annual report is to be submitted by January 30 of each year to cover activities from January 1 through December 31 of the previous year.	January 30 th of each year.	No
4	Financial Assurance Demonstration The permittee shall submit a demonstration that the financial assurance mechanism listed in Section 2.1.2, Financial Capability, is being maintained as per A.R.S. 49-243.N.4 and A.A.C. R18-9-A203(H) for all estimated closure and post-closure costs including updated costs. The demonstration shall include a statement that the closure and post-closure strategy has not changed, the discharging facilities listed in the permit have not been altered in a manner that would affect the closure and post-closure costs, and discharging facilities have not been added. The demonstration shall also include information in support of a letter of credit as required in A.A.C. R18-9-A203(C)(5).	June 27, 2030 and every six years thereafter.	No
5	Cost Estimate Update The permittee shall submit updated cost estimates for facility closure and post-closure, as per A.A.C. R18-9-A201(B)(5) and A.R.S. 49-243.N.2.a.	June 27, 2030 and every six years thereafter.	Yes

Table 8: COMPLIANCE SCHEDULE ITEMS

6	Ambient Groundwater Monitoring Report Addendum The permittee shall continue quarterly groundwater monitoring for nitrogen species at POC #3 until data shows stable trends and submit a minor amendment application to establish AL's and AQL's for nitrogen species at POC #3 – MW-7R. If nitrogen species have not stabilized within two years, then ADEQ may extend the ambient monitoring period further. The report shall be sealed by an Arizona Registered Geologist or other qualified registrant.	Upon the determination that nitrogen species concentrations are no longer trending with statistical significance, or two years after permit issuance.	Yes (minor)
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4.0 TABLES OF MONITORING REQUIREMENTS

4.1. PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable.

4.2. COMPLIANCE OR OPERATIONAL MONITORING

Table 9: FLOW MONITORING					
Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
Outfall Flow Meter	AZPDES Outfall 001			32° 54' 12.2"	111° 47' 34"
Influent Flow Meter	Plant Influent Flow			32° 54' 13"	111° 47' 37"
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Daily Influent Flow	Not Applicable ²	Not Applicable	MGD ³	Daily	Quarterly
Influent Flow Monthly Average	Not Applicable	0.692	MGD	Monthly Calculation	Quarterly
AZPDES: Daily ⁴	0.588	0.692	MGD	Daily	Quarterly
AZPDES: Monthly Average ⁵	Not Applicable	Not Applicable	MGD	Monthly Calculation	Quarterly

Table 10: ROUTINE DISCHARGE MONITORING					
Sampling Point Number	Sampling Point Identification		Latitude (North)		Longitude (West)
1	AZPDES Outfall 001		32° 54' 12.2"		111° 47' 34"
Parameter	Alert Level	Discharge Limit	Units	Sampling Frequency	Reporting Frequency
Total Nitrogen	8	10	mg/L ⁶	Quarterly	Quarterly
Nitrate-Nitrite as N	8	10	mg/L	Quarterly	Quarterly
Total Kjeldahl Nitrogen (TKN)	Not Applicable	Not Applicable	mg/L	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/L	Annual	Annual
Fluoride	3.2	4.0	mg/L	Annual	Annual
Metals (Total)					
Antimony	0.0048	0.006	mg/L	Annual	Annual
Arsenic	0.04	0.05	mg/L	Annual	Annual
Barium	1.6	2	mg/L	Annual	Annual
Beryllium	0.0032	0.004	mg/L	Annual	Annual
Cadmium	0.004	0.005	mg/L	Annual	Annual
Chromium	0.08	0.1	mg/L	Annual	Annual
Lead	0.04	0.05	mg/L	Annual	Annual
Mercury	0.0016	0.002	mg/L	Annual	Annual
Selenium	0.04	0.05	mg/L	Annual	Annual
Thallium	0.0016	0.002	mg/L	Annual	Annual
Copper	Not Applicable	Not Applicable	mg/L	Annual	Annual
Zinc	Not Applicable	Not Applicable	mg/L	Annual	Annual

² Not Applicable means that monitoring is required, but no limits have been specified at the time of permit issuance

³ MGD = million gallons per day

⁴ Total Daily Flow shall be measured using a continuous recording flow meter that totals the flows daily.

⁵ Monthly Average means the calculated average of daily flow values in a month

⁶ mg/L = milligrams per liter

Table 11: CONTINGENCY COMPLIANCE GROUNDWATER MONITORING ⁷ - (2A)					
Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
2 (Well #55-209086)	MW-1b - (POC #1) (Contingency well paired with MW-1c)			32° 54' 26.9"	111° 48' 17.3"
2 (Well #55-916399)	MW-1c - (POC #1) (Contingency well paired with MW-1b)			32° 54' 26.2"	111° 48' 17.9"
Parameter	Alert Level	Aquifer Quality Limit	Units	Sampling Frequency ⁸	Reporting Frequency ⁹
Depth to Water ¹⁰	Monitor	Not Applicable	ft. bgs ¹¹	Quarterly	Quarterly
Total Nitrogen ¹² :	Monitor ¹³	21.4	mg/L ¹⁴	Quarterly	Quarterly
Nitrate-Nitrite as N	Monitor	21.4	mg/L	Quarterly	Quarterly
Total Kjeldahl Nitrogen (TKN)	Not Applicable	3.79	mg/L	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/L	Biennial	Biennial
Fluoride	Monitor	14.0	mg/L	Annual	Annual
Metals (Total)					
Antimony	0.0048	0.006	mg/L	Annual	Annual
Arsenic	Monitor	0.27	mg/L	Annual	Annual
Barium	1.6	2	mg/L	Biennial	Biennial
Beryllium	0.0032	0.004	mg/L	Biennial	Biennial
Cadmium	0.008	0.010	mg/L	Biennial	Biennial
Chromium	0.08	0.10	mg/L	Biennial	Biennial
Lead	0.04	0.05	mg/L	Biennial	Biennial
Mercury	0.0016	0.002	mg/L	Biennial	Biennial
Selenium	0.04	0.05	mg/L	Biennial	Biennial
Thallium	0.0016	0.002	mg/L	Annual	Annual

⁷ Not reported on SMRFs unless contingency plan is required per Section 2.6.1.1 and CSI No. 1 & 2. Contact the Groundwater Section to obtain a SMRF for reporting.

⁸ Quarterly sampling only required for Nitrate-Nitrite as N and groundwater level (depth to water). Compliance groundwater monitoring shall resume only if contingency plan is required per Section 2.6.1.1.

⁹ Only sampling results for Nitrate-Nitrite as N and groundwater level (depth to water) to be included in annual report. Compliance groundwater monitoring shall resume only if contingency plan is required per Section 2.6.1.1.

¹⁰ The contingency wells are being evaluated for any groundwater flow direction changes that may impact sampling from POC locations as identified in Section 2.7.4.1.

¹¹ ft. bgs = Feet below ground surface

¹² Total Nitrogen is equal to Nitrate as N plus Nitrite as N plus TKN. Use one sample to determine Total Nitrogen and the associated components (Nitrate-Nitrite as N, Nitrate as N, Nitrite as N, and TKN).

¹³ Monitoring required, but no limits established.

¹⁴ mg/L = milligrams per liter

Table 12: COMPLIANCE GROUNDWATER MONITORING - (2B)

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
3 (Well #55-912009)	MW-2 - (POC #2) (Paired with MW-2b) AZPDES Discharge to the North Branch of the Santa Cruz Wash			32° 54' 30.6"	111° 48' 17.2"
3 (Well #55-916397)	MW-2b - (POC #2) (Paired with MW-2) AZPDES Discharge to the North Branch of the Santa Cruz Wash			32° 54' 30.4"	111° 48' 16.7"
Parameter	Alert Level	Aquifer Quality Limit	Units	Sampling Frequency	Reporting Frequency
Depth to Water ¹⁵	Monitor	Not Applicable	ft. bgs ¹⁶	Quarterly	Quarterly
Total Nitrogen ¹⁷ :	Monitor ¹⁸	Monitor	mg/L ¹⁹	Quarterly	Quarterly
Nitrate-Nitrite as N	8	10	mg/L	Quarterly	Quarterly
Total Kjeldahl Nitrogen (TKN)	Monitor	Monitor	mg/L	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/L	Biennial	Biennial
Fluoride	Monitor	6.5	mg/L	Annual	Annual
Metals (Total)					
Antimony	0.0048	0.006	mg/L	Annual	Annual
Arsenic	Monitor	0.25	mg/L	Annual	Annual
Barium	1.6	2	mg/L	Biennial	Biennial
Beryllium	0.0032	0.004	mg/L	Biennial	Biennial
Cadmium	0.004	0.005	mg/L	Biennial	Biennial
Chromium	0.08	0.10	mg/L	Biennial	Biennial
Lead	0.04	0.05	mg/L	Biennial	Biennial
Mercury	0.0016	0.002	mg/L	Biennial	Biennial
Selenium	0.04	0.05	mg/L	Biennial	Biennial
Thallium	0.0016	0.002	mg/L	Annual	Annual

¹⁵The POC wells are being evaluated for any groundwater flow direction changes that may impact sampling from POC locations as identified in Section 2.7.4.1.

¹⁶ft. bgs = Feet below ground surface

¹⁷ Total Nitrogen is equal to Nitrate as N plus Nitrite as N plus TKN.

¹⁸ Monitoring required, but no limits established.

¹⁹ mg/L = milligrams per liter

Table 13: COMPLIANCE GROUNDWATER MONITORING - (3B)

Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
4 (Well # 55-928476)	MW-7R - (POC #3) (Near former LDA Pivot 3)			32° 54' 7.96"	111° 47' 48.408"
Parameter	Alert Level	Aquifer Quality Limit	Units	Sampling Frequency	Reporting Frequency
Depth to Water ²⁰	31-51	Not Applicable	ft. bgs	Quarterly	Quarterly
Total Nitrogen	Reserved ²¹	Reserved	mg/L	Quarterly	Quarterly
Nitrate-Nitrite as N	Reserved	Reserved	mg/L	Quarterly	Quarterly
Total Kjeldahl Nitrogen (TKN)	Reserved	Reserved	mg/L	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/L	Biennial	Biennial
Fluoride	3.2	4.0	mg/L	Annual	Annual
Metals (Total)					
Antimony	0.0048	0.006	mg/L	Annual	Annual
Arsenic	Not Applicable	0.044	mg/L	Annual	Annual
Barium	1.6	2	mg/L	Biennial	Biennial
Beryllium	0.0032	0.004	mg/L	Biennial	Biennial
Cadmium	0.004	0.005	mg/L	Biennial	Biennial
Chromium	0.08	0.1	mg/L	Biennial	Biennial
Lead	0.04	0.05	mg/L	Biennial	Biennial
Mercury	0.0016	0.002	mg/L	Biennial	Biennial
Selenium	0.04	0.05	mg/L	Biennial	Biennial
Thallium	0.0016	0.002	mg/L	Annual	Annual

Table 14: AMBIENT GROUNDWATER MONITORING PARAMETERS

Depth to Water ²²	Total Kjeldahl Nitrogen (TKN)	Antimony	Beryllium
Total Nitrogen ²³ :	Cyanide (as free cyanide)	Arsenic	Cadmium
Nitrate-Nitrite as N	Fluoride	Barium	Chromium
Lead	Mercury	Selenium	Thallium

²⁰The POC well is being evaluated for any groundwater flow direction changes that may impact sampling from POC locations as identified in Section 2.7.4.1.

²¹ Reserved until Ambient Groundwater Monitor completed per Section 3.0 Compliance Schedule Item No. 6.

²²The POC wells are being evaluated for any groundwater flow direction changes that may impact sampling from POC locations as identified in Section 2.7.4.1.

²³ Total Nitrogen is equal to Nitrate as N plus Nitrite as N plus TKN.

Table 15: OTHER GROUNDWATER MONITORING LOCATIONS ²⁴

Table 15: OTHER GROUNDWATER MONITORING LOCATIONS ²⁴					
Sampling Point Number	Sampling Point Identification			Latitude (North)	Longitude (West)
5 (Well #55-912011)	MW-4			32° 54’ 28.8”	111° 43’ 30.6”
5 (Well #55-916400)	MW-4b			32° 54’ 28.5”	111° 43’ 31.6”
6 (Well #55-913478)	MW-5b			32° 54’ 29.3”	111° 47’ 53.2”
7 (Well #55-921437)	MW-6R			32°54’14.588”	111°47’30.974”
8 (Well #55- 921438)	MW-12			32°53’56.892”	111°47’30.974”
Parameter	Alert Level	Aquifer Quality Limit	Units	Sampling Frequency	Reporting Frequency
Depth to Water ²⁵	Monitor ²⁶	Not Applicable	ft. bgs ²⁷	Quarterly	Annually
Nitrate-Nitrite as N	Monitor	Monitor	mg/L	Quarterly	Annually

²⁴ Sampling results to be included in an annual report and not reported on SMRFs.

²⁵The wells will be used to evaluate for any groundwater flow direction changes that may impact sampling from POC locations as identified in Section 2.7.4.1.

²⁶Monitoring required, but no limits established.

²⁷ft. bgs = Feet below ground surface

Table 16: FACILITY INSPECTION AND OPERATIONAL MONITORING

The permittee shall record the inspection performance levels in a log book as per Section 2.7.2, and report any violations or exceedances as per Section 2.7.3. In the case of an exceedance, identify which structure exceeds the performance level in the log book.

Pollution Control Structure/Parameter	Performance Level	Inspection Frequency	Reporting Frequency
Pump Integrity	Good working condition	Daily	See Section 2.7.3
Treatment Plant Components	Good working condition	Daily	See Section 2.7.3
POC Wells	Well cap and seals are intact. No discernable corrosion or deterioration of the well(s). No discernable materials accumulating in the well. Any dedicated well equipment are functional and intact.	Quarterly	See Section 2.7.3 and 2.5.5.2

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:

APP Application, dated: 12/23/2025

Contingency Plan, dated: 10/23/2023

6.0 NOTIFICATION PROVISIONS

6.1. Duty to Comply

[A.R.S. §§ 49-221 through 263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the 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.

6.2. Duty to Provide Information

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

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

6.3. Compliance with Aquifer Water Quality Standards

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

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

6.4. Technical and Financial Capability

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

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

6.5. Reporting of Bankruptcy or Environmental Enforcement

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

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

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

6.6. 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.

6.7. 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.

6.8. Duty to Modify

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

The permittee shall apply for a permit amendment prior to making changes to the design or operational practices required under A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211.

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

7.0. ADDITIONAL PERMIT CONDITIONS**7.1. Other Information**

[A.R.S. § 49-243(K)(8)]

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

7.2. Severability

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

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

7.3. Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by 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).