

**STATE OF ARIZONA  
AQUIFER PROTECTION PERMIT NO. P-511440  
PLACE ID 145828, LTF 114062  
SIGNIFICANT AMENDMENT**

**1.0 AUTHORIZATION**

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2, and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A.A.C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, the Arizona Department of Environmental Quality (ADEQ) hereby authorizes City of Goodyear to operate the City of Goodyear – Soil Aquifer Treatment (SAT) and Vadose Injection Project (VIP) Recharge Facility located at 15600 West Yuma Road, Goodyear, Arizona in Maricopa County, over the groundwater of the Phoenix Active Management Area groundwater basin in Township 1 North, Range 1 West, Section 8, SW¼, NW¼, NW¼ and Section 7, SE¼, SE¼ of the Gila and Salt River Base Line and Meridian.

This permit is effective upon signature and payment of the final bill. The effective date is the date the final bill is paid, and entered below. The permit 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:** City of Goodyear – SAT and VIP Recharge Facility  
**Facility Address:** 15600 West Yuma Road  
Goodyear, Arizona 85338  
**County:** Maricopa

**Permitted Flow Rate:** 7.47 million gallons per day (MGD)

**Permittee:** The City of Goodyear  
**Permittee Address:** P.O. Box 5100  
Goodyear, AZ 85338

**Facility Contact:** Anthony Dudley  
**Emergency Phone No.:** (623) 222 - 7125

**Latitude/Longitude:** 33° 26' 8.845" N / 112° 23' 32.179" W  
**Legal Description:** Township 1 North, Range 1 West, Section 8, SW ¼ NW ¼ NW ¼ and Section 7, SE ¼ SE ¼ of the Gila and Salt River Baseline and Meridian

**1.2. AUTHORIZING SIGNATURE**

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

Effective Date: \_\_\_\_\_ day of \_\_\_\_\_, 2026

**THIS AMENDED PERMIT SUPERSEDES ALL PREVIOUS PERMITS**

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### 1.3. COMMONLY USED ACRONYMS

|          |                                                     |                                                                                                                               |
|----------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| A.A.C.   | Arizona Administrative Code                         | <a href="https://apps.azsos.gov/public_services/CodeTOC.htm#ID18">https://apps.azsos.gov/public_services/CodeTOC.htm#ID18</a> |
| A.R.S.   | Arizona Revised Statutes                            | <a href="https://www.azleg.gov/arstitle/">https://www.azleg.gov/arstitle/</a>                                                 |
| A.W.Q.S. | Aquifer Water Quality Standards                     | A.A.C. R18-11 [ARTICLE 4]                                                                                                     |
| ADEQ     | Arizona Department of Environmental Quality         |                                                                                                                               |
| ADWR     | Arizona Department of Water Resources               |                                                                                                                               |
| AL       | Alert Level                                         |                                                                                                                               |
| Amsl     | above mean sea level                                |                                                                                                                               |
| APP      | Aquifer Protection Permit                           |                                                                                                                               |
| AQL      | Aquifer Quality Limit                               |                                                                                                                               |
| ASR      | Aquifer Storage and Recovery                        |                                                                                                                               |
| AZPDES   | Arizona Pollutant Discharge Elimination System      |                                                                                                                               |
| BADCT    | Best Available Demonstrated Control Technology      |                                                                                                                               |
| bgs      | below ground surface                                |                                                                                                                               |
| CSI      | compliance schedule item                            |                                                                                                                               |
| DL       | discharge limit                                     |                                                                                                                               |
| EPA      | Environmental Protection Agency                     |                                                                                                                               |
| ft       | feet                                                |                                                                                                                               |
| gpd      | gallons per day                                     |                                                                                                                               |
| gpm      | gallons per minute                                  |                                                                                                                               |
| hp       | horsepower                                          |                                                                                                                               |
| LTF      | Licensing Time Frame                                |                                                                                                                               |
| mg/l     | milligrams per liter                                |                                                                                                                               |
| MGD      | Million Gallons per Day                             |                                                                                                                               |
| mm       | millimeter                                          |                                                                                                                               |
| MW       | monitoring well                                     |                                                                                                                               |
| O&M      | Operation and Maintenance                           |                                                                                                                               |
| °F       | Degrees Fahrenheit                                  |                                                                                                                               |
| P.E.     | Professional Engineer                               |                                                                                                                               |
| pCi/L    | picocuries per liter                                |                                                                                                                               |
| POC      | Point of Compliance                                 |                                                                                                                               |
| PQL      | Practical Quantitation Limit                        |                                                                                                                               |
| QA/QC    | Quality Assurance/Quality Control                   |                                                                                                                               |
| SAT      | Soil Aquifer Treatment                              |                                                                                                                               |
| SMRF     | Self-Monitoring Report Forms                        |                                                                                                                               |
| SVOC     | Semi-Volatile Organic Compound                      |                                                                                                                               |
| USF      | Underground Storage Facility                        |                                                                                                                               |
| USGS     | United States Geological Survey                     |                                                                                                                               |
| VFD      | Variable Frequency Drive                            |                                                                                                                               |
| VIP      | Vadose Injection Program                            |                                                                                                                               |
| VOCs     | Volatile Organic Compounds                          |                                                                                                                               |
| WRF      | Water Reclamation Facility                          |                                                                                                                               |
| WWTP     | Wastewater treatment plant                          |                                                                                                                               |
| µmhos/cm | Micromhos per centimeter (Conductivity Measurement) |                                                                                                                               |

## 2.0 SPECIFIC CONDITIONS

[A.R.S. §§ 49-203(4), 49-241(A)]

### 2.1. FACILITY / SITE DESCRIPTION

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

The permittee is authorized to operate the City of Goodyear – SAT and VIP recharge facility a 7.47 MGD groundwater recharge facility. The recharge facility receives Class A+ Reclaimed water conveyed via an underground pipeline from the City of Goodyear's 157<sup>th</sup> Avenue Water Reclamation Facility (157<sup>th</sup> WRF) which is permitted under APP P-101324. The permittee additionally has an underground storage facility (USF) permit No. 71-226310.0001 and water storage permits issued by Arizona Department of Water Resources (ADWR) for this facility. The recharge facility consists of two recharge sites: SAT and VIP. The SAT site is located approximately 0.7 miles from the VIP site. The SAT site can recharge up to 7.34 MGD and VIP site can recharge up to 0.13 MGD (total combined flow not to exceed 7.47 MGD).

#### SAT Site:

The SAT site consists of five (5) recharge basins with a total area of 15.4 acres. Recharge will be accomplished through earthen basins operated with alternating wet and dry cycles, which will achieve additional denitrification and optimize the recharge performance of the basins. These recharge basins can recharge up to an annual average flow of 7.34 MGD.

The SAT site includes the following permitted discharging facilities:

| Table 1: SAT DISCHARGING FACILITIES |                  |                  |                           |
|-------------------------------------|------------------|------------------|---------------------------|
| Facility                            | Latitude (North) | Longitude (West) | Basin Size (Wetted Acres) |
| Recharge Basin 1                    | 33° 26' 11.86"   | 112° 23' 38.67"  | 2.75                      |
| Recharge Basin 2                    | 33° 26' 17.32"   | 112° 23' 38.67"  | 2.66                      |
| Recharge Basin 3                    | 33° 26' 17.32"   | 112° 23' 44.51"  | 5.34                      |
| Recharge Basin 4                    | 33° 26' 13.11"   | 112° 23' 44.51"  | 3.40                      |
| Recharge Basin 5                    | 33° 26' 10.34"   | 112° 23' 42.81"  | 1.60                      |

#### VIP Site:

The VIP site consists of four (4) vadose injection wells located within the city right of way, in a pattern proceeding to the south of the intersection of West Van Buren Road along South Estrella Parkway. Discharge to the VIP wells will be as needed, but no more than 0.13 MGD. Phase II, III, IV and contingency injection wells were previously removed from the permit and not be constructed as the recharge rate through the existing injection wells were not operated as anticipated.

The VIP site includes the following permitted discharging facilities:

| Table 2: VIP DISCHARGING FACILITIES |             |                    |                  |                  |
|-------------------------------------|-------------|--------------------|------------------|------------------|
| ADWR Well No.                       | Well ID No. | Cadastral Location | Latitude (North) | Longitude (West) |
| 55-226077                           | GY-VZ-1     | B(01-01)8BBB       | 33° 26' 56.199"  | 112° 23' 33.062" |
| 55-226080                           | GY-VZ-2     | B(01-01)8BBC       | 33° 26' 51.375"  | 112° 23' 33.115" |
| 55-226079                           | GY-VZ-3     | B(01-01)8BBC2      | 33° 26' 46.598"  | 112° 23' 33.084" |
| 55-226078                           | GY-VZ-4     | B(01-01)8BCB       | 33° 26' 42.333"  | 112° 23' 33.141" |

**2.1.1. Annual Registration Fee**

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

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

**2.1.2. Financial Capability**

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

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The total estimated closure/post closure cost for the facilities under this permit is \$1,550,000. The financial capability was demonstrated through A.A.C. R18-9-A203(B)(1) and (2).

**2.2. BEST AVAILABLE DEMONSTRATED CONTROL TECHNOLOGY**

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

The Class A+ reclaimed water being injected and recharged at the SAT and VIP is conveyed from the 157<sup>th</sup> WRF. The 157<sup>th</sup> WRF was designed, constructed, operated, and maintained to meet the treatment performance criteria for new facilities as specified in A.A.C. R18-9-B204. The 157<sup>th</sup> WRF meets the performance requirement for industrial pre-treatment as per A.A.C. R18-9-B204(B)(6)(b).

**2.2.1. Engineering Design**

The WRF was designed as per the design report and subsequent supplemental submittals prepared and stamped, dated, and signed (sealed) by John Matta, P.E. (Professional Engineer) with Waterworks Engineers dated May 13, 2026.

Recharge basin #5 was designed as per the design report and design plans signed, dated, and sealed by Angela M. Balliet, P.E. (Professional Engineer) (Environmental #37337) with Brown and Caldwell on August 05, 2019.

Recharge basins (#1 through #4) were designed as per the design drawings and design plans signed, dated, and sealed by Keith Drunasky, P.E. (Professional Engineer) (Civil) with Ritoch-Powell & Associates on August 24, 2016. The VIP was designed as per the design report and design plans signed, dated, and sealed by the Brown and Caldwell APP team, on July 28, 2014.

**2.2.2. Site-Specific Characteristics**

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

**2.2.3. Pre-Operational Requirements**

Not applicable.

**2.2.4. Operational Requirements**

1. The permittee shall maintain a copy of the up-to-date operations and maintenance manual at the treatment facility site at all times; the manual shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.2, Table 11: FACILITY INSPECTION AND OPERATIONAL MONITORING.

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

**2.2.5. Reclaimed Water Classification**

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

Not applicable.

**2.2.6. Certified Areawide Water Quality Management Plan Conformance**

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

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

**2.3. DISCHARGE LIMITATIONS**

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

1. The permittee is authorized to operate the SAT and VIP facility with a maximum average monthly flow of 7.47 MGD. The recharge basins are authorized to recharge a maximum average monthly flow of 7.34 MGD. The injection wells are authorized as needed, at a maximum average monthly flow of 0.13 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, including treatment works and disposal works listed in Section 2.1.
4. Specific discharge limitations are listed in Section 4.2, Table 8: ROUTINE FLOW MONITORING.

**2.4. POINT OF COMPLIANCE**

[A.R.S. § 49-244]

The POC have been established at the following locations:

| Table 3: POINT OF COMPLIANCE |                                                                                                                                |           |                  |                  |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|------------------|
| POC #                        | POC Location                                                                                                                   | ADWR No.  | Latitude (North) | Longitude (West) |
| 1                            | Approximately 600 feet north northwest of the intersection of West Yuma Road and South Estrella Parkway (east of the SAT Site) | 55-916673 | 33°26'14.7"      | 112°23'36.8"     |
| 2                            | Downgradient of SAT site recharge basins-located approximately 75 feet northwest of SAT Basin #3                               | 55-916671 | 33°26'17.6"      | 112°23'47.5"     |

The depth to groundwater is approximately 80 feet below ground surface (ft bgs) and the groundwater flow direction is to the west-northwest. POC #1 MW-1 currently is experiencing cascading water issues and will be replaced and relocated as per compliance scheduled item (CSI) No. 1-4. Groundwater monitoring is required at POC #1 MW-1 until new alert levels (ALs) and aquifer quality limits (AQLs) are established for the replacement POC #1 MW-1.

Groundwater monitoring is required at the POC wells. The director may require an amendment of this permit to install a monitoring well if there is cause or concern that groundwater quality may be impacted at the POC. The Director may amend this permit to designate additional points of compliance if information on groundwater gradients or groundwater usage indicates the need.

## **2.5. MONITORING REQUIREMENTS**

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

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

### **2.5.1. Pre-Operational Monitoring**

Not Applicable.

### **2.5.2. Routine Discharge Monitoring**

The permittee shall monitor the effluent according to Section 4.2, Table 8: ROUTINE FLOW MONITORING. Representative samples of the effluent shall be collected at the point of discharge at the flow meter located at the southeast corner of Recharge Basin #5. The flow to the vadose injection wells shall be monitored at the flow meter located inside the concrete vault at each well head. Flow to the Recharge Basins shall be monitored at the flowmeter located at the southeast corner of Recharge Basin #5. Effluent quality monitoring shall be conducted under the 157th WRF permitted under APP P-I01324 and shall be reported in Table 11 of that permit.

### **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 11: 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**

The permittee shall monitor groundwater quality according to Section 4.2 Table 10: 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, 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 twenty-four (24) hours, whichever is shorter, prior to sampling. If after twenty-four (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 Forms (SMRFs).

The permittee may conduct the sampling using low-flow purging methods in accordance with Environmental Protection Agency (EPA), United States Geological Society (USGS), or Department of Defense (DOD) protocols. 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. Otherwise, POC wells that are able to be purged, may conduct sampling using no-purge sampling techniques using HydraSleeve™ or similar type methodology, upon completion of a comparison sampling event by first collecting a groundwater sample by the no-purge method, followed by a groundwater sample collected using either the three boreholes volume or low-flow purging methods described above. If the results between the two sampling methods are within a relative percent difference of 10%, the no-purge method may be considered an acceptable method of sampling. 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. 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 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 (50) feet or less from the original well, the ALs and/or AQLs calculated for the designated POC well may apply to the replacement well. Otherwise, the ALs and/or AQLs shall be set following the provisions in Section 2.5.5.3 and Section 2.5.5.4 of this permit.

#### **2.5.5.2. Ambient Groundwater Quality Monitoring for POC Wells**

In accordance with CSI No. 3 in Section 3.0, the permittee shall complete a minimum of eight (8) quarterly rounds of ambient groundwater monitoring for POC MW-1 for all constituents listed as “reserved” in Section 4.2, Table 9: AMBIENT GROUNDWATER MONITORING.

#### **2.5.5.3. Alert Levels for POC Wells**

ALs shall be calculated for all contaminants with an established numeric AWQS for each of the POC wells listed on Table 3: POINT OF COMPLIANCE. For any new or replacement POC wells, ALs shall be calculated for all contaminants with an established numeric AWQS, as described below.

As per the CSI No. 3, following receipt of the laboratory analyses for the final month of the ambient groundwater monitoring period for each POC well referenced in Section 3.0, Table 7: COMPLIANCE SCHEDULE ITEMS 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 9: AMBIENT GROUNDWATER MONITORING, 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 ADEQ 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 (8) quarterly 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 and well is less than 80% of the AWQS, the AL shall be set at 80% of the AWQS for that constituent in that well.

#### **2.5.5.4. 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

#### **2.5.5.5. Compliance Groundwater Quality Monitoring for POC Wells**

Quarterly compliance groundwater monitoring in each POC well shall commence within the first calendar quarter after completion of the ambient groundwater sampling period. For quarterly compliance monitoring, the permittee shall analyze groundwater samples for the parameters listed in Section 4.2, Table 10: GROUNDWATER MONITORING.

#### **2.5.6. Surface Water Monitoring and Sampling Protocols**

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

#### **2.5.7. Analytical Methodology**

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

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

**2.5.8. Installation and Maintenance of Monitoring Equipment**

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

**2.6. CONTINGENCY PLAN REQUIREMENTS**

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

**2.6.1. General Contingency Plan Requirements**

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

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

Some contingency actions involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated 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 actions 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. Vadose Zone Monitoring and Injection Contingencies**

1. A well in which the water level has risen higher than 15 ft bgs for at least two (2) weeks may be rehabilitated prior to being placed back in service. The permittee shall provide a rehabilitation report to the Groundwater Protection Value Stream each time a well is rehabilitated, including flow data, methods of rehabilitation, the quantity and quality of any chemicals involved in rehabilitation, a description of the actions and repeat actions taken, and the period of time required to complete the rehabilitation. ADEQ approval of the rehabilitation report is not required before the well is placed back in service. After the well has been placed back in service, the permittee shall provide a report describing the percolation capacity of the rehabilitated well, the new water levels involved, and an estimation of the remaining lifespan of the well.

2. Once water levels return to at least 15 ft bgs, and/or after rehabilitation procedures have been completed, injection may resume within the affected well(s). However, if water levels return to levels higher than 15 ft bgs within thirty (30) days after the last rehabilitation attempt, injection operations within the affected wells shall immediately cease, and the permittee shall submit a clean closure application to the Groundwater Protection Value Stream, and submit a Notice of Intent to Abandon to ADWR.

#### **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 4.2, Table 11: FACILITY INSPECTION AND OPERATIONAL MONITORING has been exceeded the permittee shall:

1. Notify ADEQ within five (5) days of becoming aware of the exceedance per Section 2.7.5.
2. Submit a written report to ADEQ within thirty (30) days after becoming aware of the exceedance per Section 2.7.5. The report shall document all of the following:
  - a. A description of the exceedance and the cause of the exceedance;
  - b. The period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
  - c. Any action taken or planned to mitigate the effects of the exceedance or spill, or to eliminate or prevent recurrence of the exceedance or spill;
  - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS; and
  - e. Any malfunction or failure of pollution control devices or other equipment or process.
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 Set for Discharge Monitoring**

1. If an AL set in Section 4.2, Table 8: ROUTINE FLOW MONITORING has been exceeded, the permittee shall investigate to determine the cause of the AL exceedance within twenty-four (24) hours, or as soon as practicable. The investigation shall include the following:
  - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the exceedance;
  - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and

- c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the exceedance, the permittee shall sample individual waste streams composing the wastewater for the parameter(s) in question, if necessary to identify the cause of the exceedance.
2. The permittee shall initiate actions identified in the contingency plan referenced in Section 2.6.1 'General Contingency Plan Requirements' and specific contingency measures identified in Section 2.6 to resolve any problems identified by the investigation which may have led to the AL exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6 Corrective Actions.
3. Within thirty (30) days of an AL exceedance, the permittee shall submit the laboratory results to ADEQ per Section 2.7.5 along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.
4. Upon review of the submitted report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

**2.6.2.2.1. Exceeding Permit Flow Limit**

If the AL for average monthly flow in Section 4.2, Table 8: ROUTINE FLOW MONITORING has been exceeded, the permittee shall submit an application to ADEQ for an Aquifer Protection Permit (APP) amendment to expand the recharge facility, or submit a report detailing the reasons an expansion is not necessary. Acceptance of the report instead of an application for expansion requires ADEQ approval.

**2.6.2.3. Exceeding of Alert Levels in Groundwater Monitoring**

**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 10: GROUNDWATER MONITORING, 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 |
| Monthly                                                  | Weekly                                 |
| Quarterly                                                | Monthly                                |
| Semi-annually                                            | Quarterly                              |

In addition, the permittee shall initiate an investigation of the cause of the AL exceedance within twenty-four (24) hours, or as soon as practicable, 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 contingency plan referenced in Section 5.0 and specific contingency measures identified in Section 2.6 CONTINGENCY PLAN REQUIREMENTS 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 thirty (30) days after confirmation of an AL exceedance, for each pollutant that exceeded an AL, the permittee shall submit the laboratory results to ADEQ per Section 2.7.5 along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.
5. Upon review of the submitted report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.
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 10: GROUNDWATER MONITORING 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 per Section 2.7.5 a second report documenting an investigation of each pollutant which continued to exceed an AL. This report is due within thirty (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**

1. If monitoring indicates the groundwater level is not within the allowable range established by the AL in Section 4.2, Table 10: GROUNDWATER MONITORING, the permittee shall submit a written report to ADEQ per Section 2.7.5 within thirty (30) days after becoming aware of the exceedance. The report shall document the following:
  - a. the as-built configuration of the well including the screened interval;
  - b. all groundwater level measurements available for the well;
  - c. a discussion and analysis of any trends or seasonal variations in the groundwater level measurements;
  - d. information on groundwater recharge, withdrawal, or other hydrologic conditions in the vicinity of the well, and;
  - e. any other pertinent information obtained by the permittee.
2. If monitoring indicates the groundwater level is not within the allowable range established by the AL in Section 4.2, Table 10: GROUNDWATER MONITORING for more than three (3) sequential sampling events, the permittee shall submit a second report which

evaluates the cause(s) of the exceedance and recommends whether the well should be replaced pursuant to Section 2.5.5.1. The report shall discuss and demonstrate whether samples representative of the water quality of the relevant aquifer can be practicably obtained from the well.

3. Upon review of the submitted report, ADEQ may amend the permit to require replacement of the well, require additional permit conditions, or other actions.

#### **2.6.3. Discharge Limit Violation**

1. If a discharge limit (DL) set in Section 4.2, Table 8: ROUTINE FLOW MONITORING has been violated, the permittee shall investigate to determine the cause within twenty-four (24) hours, or as soon as practicable. The investigation shall include the following:
  - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the violation;
  - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences;
  - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the violation, the permittee shall sample individual waste streams composing the wastewater for the parameters in violation, as necessary to identify the cause of the violation.

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

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

#### **2.6.4. Aquifer Quality Limit Violation**

1. If an AQL set in Section 4.2, Table 10: GROUNDWATER MONITORING 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/Biennially                                               | Quarterly                              |

In addition, the permittee shall initiate an evaluation for the cause of the violation within twenty-four (24) hours, or as soon as practicable, 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 an 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 thirty (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 the approved contingency plan, or separately approved according to Section 2.6.6.

4. Upon review of the submitted report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.
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 § 49-241]

##### **2.6.5.1. Duty to Respond**

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

##### **2.6.5.2. Discharge of Hazardous Substances or Toxic Pollutants**

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

#### **2.6.5.4. Reporting Requirements**

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

#### **2.6.6. Corrective Actions**

Specific contingency measures identified in Section 2.6 CONTINGENCY PLAN REQUIREMENTS 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 another permit condition:

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

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

### **2.7. REPORTING AND RECORDKEEPING REQUIREMENTS**

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

#### **2.7.1. Self-Monitoring Report Form**

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

- a. Table 8: ROUTINE FLOW MONITORING

- b. Table 9: AMBIENT GROUNDWATER MONITORING
- c. Table 10: 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 readily available for review by ADEQ personnel. The information in the log book shall include, but not be limited to, the following information as applicable:

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

### **2.7.3. Permit Violation and Alert Level Status Reporting**

1. The permittee shall notify ADEQ per Section 2.7.5 within five (5) days (except as provided in Section 2.6.5 Emergency Response and Contingency Requirements for Unauthorized Discharges) of becoming aware of an AL exceedance, or violation of any permit condition, 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 per Section 2.7.5 within thirty (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 4.2, Table 11: FACILITY INSPECTION AND OPERATIONAL MONITORING in the facility log book as per Section 2.7.2, and report to ADEQ any violations or exceedances as per Section 2.7.3.

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

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

#### **2.7.4.1. Well Installation Reports**

A well installation report shall be submitted to ADEQ as apart of the amendment application to establish ALs and AQLs in accordance with Section 3.0 CSI No. 4. Each well installation report shall be completed in accordance with A.A.C. R12-15-801 et seq. and consist of the following:

1. Copies of Arizona Dept. of Water Resources (ADWR) Notice of Intent and all related submittals to ADWR;
2. Boring log and well as-built diagram; Total depth of well measured after installation; Top of well casing or sounding tube (whichever is used as the fixed reference measuring point) and ground surface elevation;
3. Depth to groundwater;
4. Geophysical logging reports and subsurface sampling results, if any;
5. Description of well drilling method;
6. Description of well development method;
7. If dedicated sampling equipment installed, details on the equipment and at what depth the equipment was installed;
8. Summary of analytical results for initial groundwater sample collected after installation;
9. Corresponding analytical data sheets; and
10. GPS coordinates for each new well

#### **2.7.5. Reporting Location**

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

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

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

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

### 2.7.6. Reporting Deadline

The following table lists the quarterly report due dates:

| Table 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               |

### 2.7.7. Changes to Facility Information in Section 1.0

ADEQ shall be notified per 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, Certified Operator in Direct Responsible Charge or Emergency Telephone Number.

## 2.8. Temporary Cessation

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

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

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

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

## 2.9. Closure

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

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

### 2.9.1. Closure Plan

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

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

### 2.9.2. Closure Completion

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

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

SMRF submittals are required until Clean Closure is issued.

### 2.10. Post-closure

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

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

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

#### 2.10.1. Post-Closure Plan

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

#### 2.10.2. Post-Closure Completion

Not required at the time of permit issuance.

### 3.0 COMPLIANCE SCHEDULE

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

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

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

Table 7: COMPLIANCE SCHEDULE ITEMS

| No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Due By:                                                                                             | Permit Amendment Required? |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------|
| 1.  | Submit well construction and installation proposal for replacement POC MW-1. At a minimum the proposal shall contain a preliminary well construction diagram, proposed locations (latitude and longitude), and a proposed installation schedule. The well design shall include a screened interval suitable to monitor the top of the aquifer/water table, with no more than 30 feet of screen located beneath the top of the water table and no more than 10 feet located above the top of the water table. The proposal must include well abandonment activities and a proposed well abandonment schedule to abandon the original POC well in accordance with A.A.C. R12-15-816. The submittal shall be sealed by an Arizona Registered Geologist or other qualified registrant. | Within thirty (30) days of issuance of permit                                                       | No                         |
| 2.  | The permittee shall install the replacement POC MW-1 according to the ADEQ-approved design. Appropriate measures, such as field and downhole geophysical logging shall be used to determine the top of the aquifer. The permittee shall ensure that no more than 30 feet of the screen is installed beneath the top of the water table and no more than 10 feet is installed above the top of the water table.                                                                                                                                                                                                                                                                                                                                                                     | Within thirty (30) days of ADEQ approval of well construction and installation proposal.            | No                         |
| 3.  | Begin ambient groundwater monitoring at replacement POC MW-1 for a minimum of 8 samples, in accordance with A.A.C. R18-9-A202(A)(6) for all parameters listed in Section 4.2, Table 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Within thirty (30) days of installation of replacement POC MW-1                                     | No                         |
| 4.  | The permittee shall submit an APP amendment application, with an ambient groundwater monitoring report to establish ALs and AQLs and the well installation report for replacement POC MW1. At a minimum the well installation report shall contain copies of all ADWR documents related to the wells, as-built diagram for the replacement well, a copy of the Well Abandonment Completion Report, and latitude and longitude of the well. All reports shall be sealed by an Arizona Registered Geologist or other qualified registrant.                                                                                                                                                                                                                                           | Within sixty (60) days of completion of ambient groundwater monitoring under Section 4.2, Table 10. | Yes                        |

#### 4.0 TABLES OF MONITORING REQUIREMENTS

##### 4.1. PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable

##### 4.2. COMPLIANCE OR OPERATIONAL MONITORING

| Table 8: ROUTINE FLOW MONITORING                          |                                                            |                  |                       |                          |                     |
|-----------------------------------------------------------|------------------------------------------------------------|------------------|-----------------------|--------------------------|---------------------|
| Sampling Point Number                                     | Sampling Point Identification                              |                  |                       | Latitude (North)         | Longitude (West)    |
| 1 <sup>1</sup>                                            | Flow mete located at southeast corner of Recharge Basin #5 |                  |                       | 33° 26' 9.15"            | 112° 23' 41.44"     |
| Parameter                                                 | AL                                                         | DL               | Units                 | Sampling Frequency       | Reporting Frequency |
| <b>Total Flow to VIP and SAT:</b>                         |                                                            |                  |                       |                          |                     |
| Total Flow <sup>2</sup> : Daily <sup>3</sup>              | Not Established                                            | Not Established  | MGD                   | Daily                    | Quarterly           |
| Total Flow:<br>Annual Average <sup>4</sup>                | 7.10                                                       | 7.47             | MGD                   | Annual Calculation       | Annually            |
| <b>Flow to Recharge Basins:</b>                           |                                                            |                  |                       |                          |                     |
| Flow to the Recharge Basins <sup>5</sup>                  | Not Established                                            | Not Established  | MGD                   | Daily                    | Quarterly           |
| Flow to Recharge Basins:<br>Monthly Average <sup>6</sup>  | 6.97                                                       | 7.34             | MGD                   | Annual Calculation       | Annually            |
| <b>Flow to Vadose Injection Wells:</b>                    |                                                            |                  |                       |                          |                     |
| Flow to Vadose Injection Wells <sup>7</sup>               | Not Established                                            | Not Established  | MGD                   | Daily                    | Quarterly           |
| Flow to Vadose Injection Wells:<br>Annual Average         | 0.12                                                       | 0.13             | MGD                   | Annual Calculation       | Annually            |
| <b>Vadose Injection Wells Subject to Flow Monitoring:</b> |                                                            |                  |                       |                          |                     |
| Well Name                                                 | Latitude (North)                                           | Longitude (West) | ADWR Registration No. | Screen Interval (ft bgs) |                     |
| GY-VZ-1                                                   | 33° 26' 56.199"                                            | 112° 23' 33.062" | 55-226077             | 30-100                   |                     |
| GY-VZ-2                                                   | 33° 26' 51.375"                                            | 112° 23' 33.115" | 55-226080             | 30-100                   |                     |
| GY-VZ-3                                                   | 33° 26' 46.598"                                            | 112° 23' 33.084" | 55-226079             | 30-100                   |                     |
| GY-VZ-4                                                   | 33° 26' 42.333"                                            | 112° 23' 33.141" | 55-226078             | 30-100                   |                     |

<sup>1</sup> All wastewater flow measurement devices must be calibrated prior to the first year of reporting and recalibrated either biennially (every 2 years) or at the minimum frequency specified by the manufacturer. Wastewater flow measurement devices must be calibrated using the procedures specified by the device manufacturer (40 CFR § 98.354.e)

<sup>2</sup> Total flow is sum of the flow to the vadose injection wells and the recharge basins

<sup>3</sup> Total Daily Flow shall be measured using a continuous recording flow meter that totals the flows daily

<sup>4</sup> Annual Average means the calculated average of daily flow values in a year

<sup>5</sup> Recharge flow will be monitored at sampling point #1

<sup>6</sup> Monthly Average means the calculated average of daily flow values in each calendar month

<sup>7</sup> Flow to vadose injection wells is sum of flow to each vadose injection well and the flow meter is located inside the concrete vault at each well head

| Table 9: AMBIENT GROUNDWATER MONITORING |                               |                       |                       |                    |                     |
|-----------------------------------------|-------------------------------|-----------------------|-----------------------|--------------------|---------------------|
| Sampling Point Number                   | Sampling Point Identification |                       |                       | Latitude (North)   | Longitude (West)    |
| 2                                       | Replacement POC #1 - MW-1     |                       |                       | TBD                | TBD                 |
| Parameter                               | Alert Level                   | Aquifer Quality Limit | Units                 | Sampling Frequency | Reporting Frequency |
| Nitrate-Nitrite as N                    | Reserved <sup>8</sup>         | Reserved              | mg/L                  | Quarterly          | Once <sup>9</sup>   |
| Nitrate as N                            | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Nitrite as N                            | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Fecal Coliform or E. Coli               | Reserved                      | Reserved              | CFU/MPN <sup>10</sup> | Quarterly          | Once                |
| Cyanide (as free cyanide)               | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Fluoride                                | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Water Level <sup>11</sup>               | Reserved                      | Reserved              | ft bgs                | Monthly            | Once                |
| <b>Metals (Dissolved)</b>               |                               |                       |                       |                    |                     |
| Antimony                                | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Arsenic                                 | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Barium                                  | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Bromate                                 | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Beryllium                               | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Cadmium                                 | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Chlorite                                | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Chromium                                | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Lead                                    | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Mercury                                 | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Nickel                                  | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Selenium                                | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Thallium                                | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |
| Uranium                                 | Reserved                      | Reserved              | mg/L                  | Quarterly          | Once                |

<sup>8</sup> Limits are Reserved until the completion of ambient monitoring per CSI No. 3

<sup>9</sup> Values shall be reported per the ambient groundwater monitoring report to be submitted per CSI No. 3

<sup>10</sup> CFU = Colony Forming Units per 100 ml, a value of <1.0 shall be considered non-detect; MPN = Most Probable Number per 100 ml [For MPN, a value of <2.2 shall be considered non-detect]

<sup>11</sup> See Section 2.6.2.3.4.

| Error! Reference source not found.: AMBIENT GROUNDWATER MONITORING (Continued) |                               |                       |       |                    |                     |
|--------------------------------------------------------------------------------|-------------------------------|-----------------------|-------|--------------------|---------------------|
| Sampling Point Number                                                          | Sampling Point Identification |                       |       | Latitude (North)   | Longitude (West)    |
| 2                                                                              | Replacement POC #1 - MW-1     |                       |       | TBD                | TBD                 |
| Parameter                                                                      | Alert Level                   | Aquifer Quality Limit | Units | Sampling Frequency | Reporting Frequency |
| Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs)                  |                               |                       |       |                    |                     |
| Benzene                                                                        | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Carbon tetrachloride                                                           | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| o-Dichlorobenzene                                                              | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| para-Dichlorobenzene                                                           | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| 1,2-Dichloroethane                                                             | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| 1,1-Dichloroethylene                                                           | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| cis-1,2-Dichloroethylene                                                       | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| trans-1,2-Dichloroethylene                                                     | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Dichloromethane                                                                | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| 1,2-Dichloropropane                                                            | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Ethylbenzene                                                                   | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Haloacetic Acids                                                               | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Hexachlorobenzene                                                              | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Hexachlorocyclopentadiene                                                      | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Monochlorobenzene                                                              | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Styrene                                                                        | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Tetrachloroethylene                                                            | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Toluene                                                                        | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Trihalomethanes (total) <sup>12</sup>                                          | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| 1,1,1-Trichloroethane                                                          | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| 1,2,4 - Trichlorobenzene                                                       | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| 1,1,2 - Trichloroethane                                                        | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Trichloroethylene                                                              | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Vinyl Chloride                                                                 | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |
| Xylenes (Total)                                                                | Reserved                      | Reserved              | mg/L  | Quarterly          | Once                |

<sup>12</sup> Total Trihalomethanes are comprised of Bromoform, Bromodichloromethane, Chloroform, and Dibromochloromethane.

Table 10: GROUNDWATER MONITORING

| Sampling Point Number     | Sampling Point Identification                                                                                                                                      |                          |        | Latitude (North)   | Longitude (West)    |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|--------------------|---------------------|
| 3                         | POC #1 MW-1 (ADWR No. 55-916673)<br>Approximately 600 feet north northwest of the intersection of West Yuma Road and South Estrella Parkway (east of the SAT Site) |                          |        | 33° 26' 14.6"      | 111° 23' 37.2"      |
| 4                         | POC #2 MW-2 (ADWR No. 55-916671)<br>Downgradient of SAT site recharge basins-located approximately 75 feet northwest of SAT Basin #3                               |                          |        | 33° 26' 17.6"      | 111° 23' 47.5"      |
| Parameter                 | AL                                                                                                                                                                 | AQL                      | Units  | Sampling Frequency | Reporting Frequency |
| Nitrate and Nitrite as N  | 8.0                                                                                                                                                                | 10.0                     | mg/L   | Quarterly          | Quarterly           |
| Nitrate as N              | 8.0                                                                                                                                                                | 10.0                     | mg/L   | Quarterly          | Quarterly           |
| Nitrite as N              | 0.8                                                                                                                                                                | 1.0                      | mg/L   | Quarterly          | Quarterly           |
| Fecal Coliform            | Not Applicable <sup>13</sup>                                                                                                                                       | Non-detect <sup>14</sup> | MPN    | Quarterly          | Quarterly           |
| Water Level               | 30-105 <sup>15</sup>                                                                                                                                               | Not Applicable           | ft bgs | Monthly            | Quarterly           |
| <b>Metals (Dissolved)</b> |                                                                                                                                                                    |                          |        |                    |                     |
| Antimony                  | 0.0048                                                                                                                                                             | 0.006                    | mg/L   | Quarterly          | Quarterly           |
| Arsenic                   | 0.004                                                                                                                                                              | 0.05                     | mg/L   | Quarterly          | Quarterly           |
| Barium                    | 1.6                                                                                                                                                                | 2                        | 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           |

<sup>13</sup> Not applicable means monitoring is required, but no limits are specified

<sup>14</sup> Non-detect – For MPN, a value of <2.2 shall be considered to be non-detect

<sup>15</sup> If the water level does not fall within this range, the Alert Level is considered to be exceeded

| Error! Reference source not found.: GROUNDWATER MONITORING (Continued) |                                                                                                                                                                    |       |       |                    |                     |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|--------------------|---------------------|
| Sampling Point Number                                                  | Sampling Point Identification                                                                                                                                      |       |       | Latitude (North)   | Longitude (West)    |
| 3                                                                      | POC #1 MW-1 (ADWR No. 55-916673)<br>Approximately 600 feet north northwest of the intersection of West Yuma Road and South Estrella Parkway (east of the SAT Site) |       |       | 33° 26' 17.6"      | 111° 23' 36.8"      |
| 4                                                                      | POC #2 MW-2 (ADWR No. 55-916671)<br>Downgradient of SAT site recharge basins-located approximately 75 feet northwest of SAT Basin #3                               |       |       | 33° 26' 17.6"      | 111° 23' 47.5"      |
| Parameter                                                              | AL                                                                                                                                                                 | AQL   | Units | Sampling Frequency | Reporting Frequency |
| <b>Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs)</b>   |                                                                                                                                                                    |       |       |                    |                     |
| 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                                               | 0.056                                                                                                                                                              | 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     | mg/L  | Semi-Annually      | Semi-Annually       |
| Trihalomethanes (total)                                                | 0.008                                                                                                                                                              | 0.1   | mg/L  | Semi-Annually      | Semi-Annually       |
| 1,2,4 - Trichlorobenzene                                               | 0.056                                                                                                                                                              | 0.07  | mg/L  | Semi-Annually      | Semi-Annually       |
| 1,1,1-Trichloroethane                                                  | 0.16                                                                                                                                                               | 0.20  | 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                                                                                                                                                                  | 10    | mg/L  | Semi-Annually      | Semi-Annually       |

Table 11: FACILITY INSPECTION AND OPERATIONAL MONITORING

| Pollution Control Structure/Parameter | Performance Level                                                                                                                                                                                   | Inspection Frequency | Reporting Frequency |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|
| Recharge Basins Freeboard             | 2 feet                                                                                                                                                                                              | Weekly               | See Section 2.7.3   |
| Recharge Basins                       | No visible structural damage, breach, or erosion of embankments                                                                                                                                     | Monthly              |                     |
| Flowmeter                             | Good working condition                                                                                                                                                                              | Monthly              |                     |
| Vadose-zone Wells                     | Good working condition<br>No biofouling<br>No clogging                                                                                                                                              | Weekly               |                     |
| 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. | Monthly              |                     |

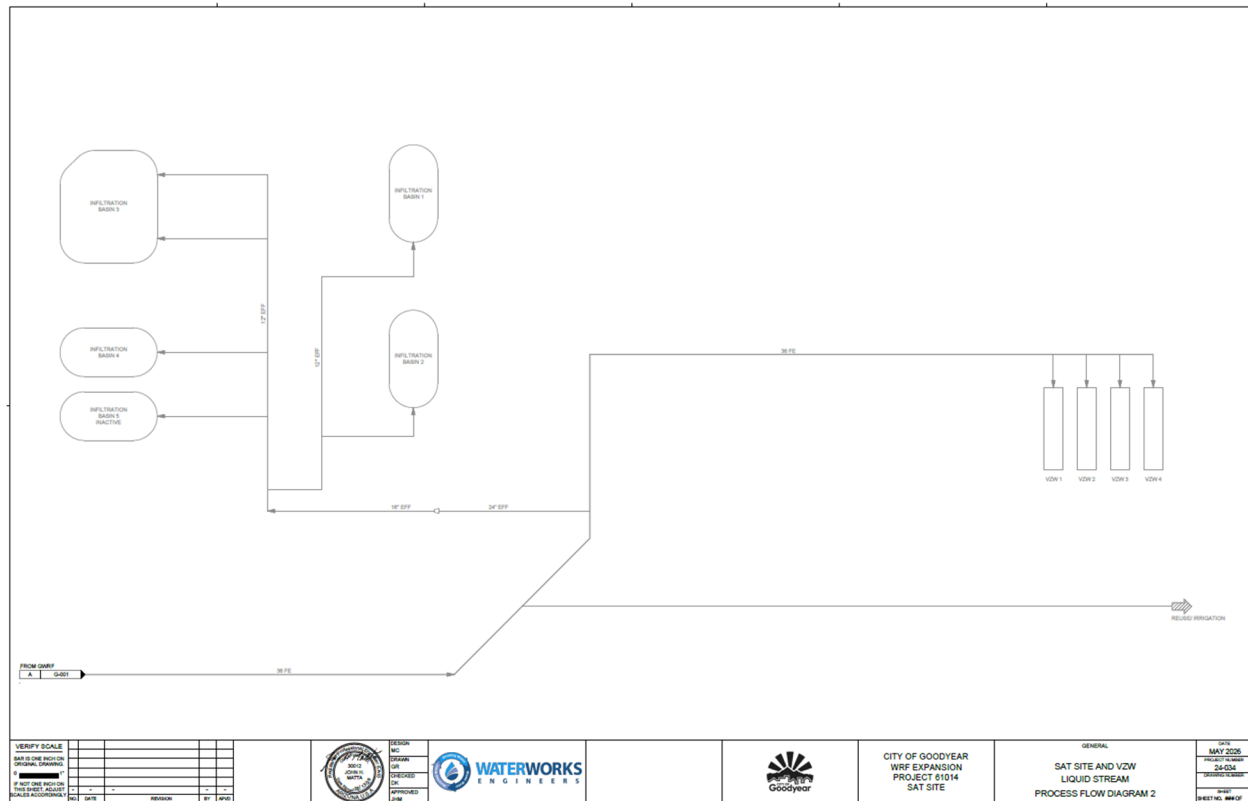
## 5.0 REFERENCES AND PERTINENT INFORMATION

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

APP Application, dated: 04/08/2026

Contingency Plan, date and name 05/13/2026 Appendix J – Contingency Plan

Process Flow Diagram 05/13/2026



## 6.0 NOTIFICATION PROVISIONS

### 6.1. Duty to Comply

[A.R.S. §§ 49-221 through 263]

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

## 6.2. Duty to Provide Information

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

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

**6.3. Compliance with Aquifer Water Quality Standards**

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

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

**6.4. Technical and Financial Capability**

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

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

**6.5. Reporting of Bankruptcy or Environmental Enforcement**

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

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

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

**6.6. Inspection and Entry**

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

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

**6.7. Duty to Modify**

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

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

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

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

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

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

[A.R.S. § 49-243(K)(8)]

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

**7.2. Severability**

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

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

**7.3. Permit Transfer**

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