



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

NOTICE OF INSPECTION RIGHTS

FACILITY INFORMATION	ADEQ INFORMATION
Facility Name (Customer): Section 11 WWTP	Date/Time of Inspection: 01/25/2018
Facility Location (Place): 5452 East Hunt Highway, Queen Creek, AZ 85132	County: Pinal
	Inspector: Isa Valdez
Mailing Address: 5230 Shea Blvd. Ste. 200. Scottsdale, AZ	Telephone: 602-771-2303
Responsible Party: Johnson Utilities	Accompanied by: Mindi Cross and David Dunaway
On-Site Representative: Brad Cole	ADEQ Follow-up Contact: Luke Peterson
Telephone: 480-798-0413	
Title: Chief Operating Officer	Title: APP Unit Manager
E-mail: bcole@azvision.net	Telephone: 602-771-4737

The ADEQ representative(s) identified above were present at the above address on the above listed date and time. Upon entry to the premises, the ADEQ representative(s) met with me, presented photo identification indicating that they are ADEQ employees and explained:

☐ **That the purpose of the inspection is to determine:**

- ☐ Compliance with Title 49 of the Arizona Revised Statutes, Title 18 of the Arizona Administrative Code* and/or:

Arizona Revised Statutes: Title 49, Chapter 2 et seq, Article _____.

Arizona Administrative Code: Title 18, Chapter 9 et seq, Article _____.

Permit/Agreement Number: APP P-103081 and Reclaim R-105412.

- ☐ Qualification for a license issued pursuant to:

Arizona Revised Statutes: Title 49, Chapter 2, Article 10.

Arizona Administrative Code: Title 18, Chapter 5, Article 1 et. seq..

- ☐ That this inspection is conducted pursuant to the authority granted in Arizona Revised Statutes § 49-104(B)(8) and/or:

Arizona Revised Statutes: § 41-1009, 49-203(B)(1).

Arizona Administrative Code: R18-9-110.

Permit/Agreement Number: APP P-103081 and Reclaim R-105412.

- ☐ That the state shall not be barred by the statutes of limitations of actions, according to A.R.S. § 12-510, except as provided in A.R.S. § 12-529 concerning certain claims based on navigability of watercourses. According to 28 U.S.C. § 2462, the U.S. government must commence an action within 5 years after the date the claim first accrued.

- ☐ Possible applicability of Small Business Bill of Rights pursuant to Arizona Revised Statutes § 41-1001(21)

☐ **That the fee for this inspection is:** ZERO.

*The Arizona Revised Statutes (A.R.S.) can be found on the internet: www.azleg.state.az.us/ArizonaRevisedStatutes.asp while the Arizona Administrative Code (A.A.C.) can be found at www.azsosaz.gov/public_services/Table_of_Contents.htm

While I have the right to refuse to sign this form, the ADEQ representatives may still proceed with the inspection

- ☐ I have read this notice and discussed any questions or concerns with the ADEQ representatives and I have received the Small Business Bill of Rights

Brad Cole
Signature of Regulated Person or Authorized On-Site Representative

1/25/18
Date

- ☐ The regulated person or authorized on-site representative refused to sign.

Name of Regulated Person or Authorized On-Site Representative Title

- ☐ The regulated person or an authorized on-site representative was not present at the facility.

Signature of ADEQ Representative Date

INSPECTION RIGHTS

- ☐ I understand that I can accompany the ADEQ representative(s) on the premises, except during confidential interviews.
- ☐ I understand that I have right , on request, to:
 - Copies of any original documents taken during the inspection, and that ADEQ will provide copies of those documents at ADEQ's expense;
 - A split of any samples taken during the inspection, if the split of the samples would not prohibit an analysis from being conducted or render an analysis inconclusive;
 - Copies of any analysis performed on samples taken during the inspection and that ADEQ will provide copies of this analysis at ADEQ's expense;
 - Copies of any documents to be relied on to determine compliance with licensure or regulatory requirements if the agency is otherwise permitted by law to do so.
- ☐ I also understand that:
 - Each person who is interviewed by an ADEQ inspector during the inspection must be informed that:
 - (1) participation in an interview is voluntary, unless legally compelled to participate;
 - (2) they have the right to have an attorney or other experts in their field present during the interview to represent or advise the regulated person;
 - (3) the ADEQ inspector may not take any adverse action or treat less favorably or draw any inference as a result of the regulated person's decision to be represented by an attorney or advised by any other experts in their field;
 - (4) statements made by the person may be included in the inspection report; and
 - (5) they have the right to 24 hours to review and revise any written witness statement drafted by the ADEQ inspector on which the ADEQ inspector requests that person's signature.
 - If the information and documents provided to the ADEQ inspector become a public record, trade secrets and proprietary and confidential information may be redacted, unless the information and documents are not confidential pursuant to statute.
 - Each person interviewed during the inspection must be informed that statements made by the person may be included in the inspection report;
 - Each person whose conversation is tape recorded during the inspection must be informed that the conversation is being tape recorded;
 - If an administrative order is issued or a permit decision is made based on the results of the inspection, I have the right to appeal that administrative order or permit decision. I understand that my administrative hearing rights are set forth in Arizona Revised Statutes § 41-1092 *et seq.* and my rights relating to an appeal of a final agency decision are found in Arizona Revised Statutes § 12-901 *et seq.*;
 - If I have any questions or concerns about this inspection, I may contact the person listed as the ADEQ Follow-up Contact on the front of this form; ADEQ's Ombudsman at (602) 771-4322 (toll free inside Arizona at (800) 234-5677, extension, 771-4322); or the Arizona Ombudsman-Citizens' Aid office at (602) 277-7292 (toll free at (800) 872-2879);
 - If I have any questions concerning my rights to appeal an administrative order or permit decision, I may contact ADEQ's Office of Administrative Counsel at (602) 771-2212 (toll free inside Arizona at (800) 234-5677, extension 771-2212).

Water Quality Field Inspection Photograph Log





Site Location: Section 11 Wastewater Treatment Plant (WWTP)		Photographer/Inspector: Isa Valdez	
Weather: Sunny			
Photo No. 1	Date: 01/25/2018		
Direction Photo Taken: Looking West			
Photo Description: Effluent overflowing at northwest portion of Recharge Basin #4 at Section 11 WWTP.			

Photo No. 2	Date: 01/25/2018	
Direction Photo Taken: Looking West		
Photo Description: Effluent observed flowing west towards the dirt road. Effluent was flowing from Recharge Basin #4 at the northwest corner of the basin.		

Field Inspection Photograph Log

Photo No. 3	Date: 01/25/2018	
Direction Photo Taken: Looking South		
Photo Description: Effluent overflowing northwest portion of the Recharge Basin #4. The recharge basin berm ends where the vegetation is observed in the picture. The effluent is approximately 15 ft past the recharge basin limit.		

Recharge Basin #4 limits


Photo No. 4	Date: 01/25/2018	
Direction Photo Taken: Looking East		
Photo Description: Effluent overflowing at the north boundary of Recharge Basin #4. The recharge basin berm ends where the vegetation is observed in the picture. At the time of the inspection, the effluent was overflowing the basin's limits and exceeding freeboard of 2 foot.		

Field Inspection Photograph Log

Photo No. 5	Date: 01/25/2018
Direction Photo Taken: Looking West	
Photo Description: Effluent overflowing at the southeast corner of the Recharge Basin #7. The drainage pattern indicates the effluent is flowing towards wash identified as Detention basin, used for stormwater purposes.	



Photo No. 6	Date: 01/25/2018
Direction Photo Taken: Looking South	
Photo Description: Drainage pattern traces of effluent discharging from Recharge Basin #7 leading to wash, identified as Detention basin, used for stormwater purposes. Erosion is observed at the berm area.	

A photograph showing a dirt path with a large erosion gully. A red arrow points to the erosion. A text box on the right says "Drainage pattern and erosion observed from effluent flow." The photo shows a dirt path with a large erosion gully. In the background, there are houses and solar panels. The sky is blue with some clouds. The ground is sandy and eroded. A red arrow points to the erosion. A text box on the right says "Drainage pattern and erosion observed from effluent flow."

Field Inspection Photograph Log

Photo No. 7	Date: 01/25/2018
Direction Photo Taken: Looking West	
Photo Description: Effluent water located along the Detention Basin.	


A photograph of a desert landscape. In the foreground, there is a small, shallow pool of water with a greenish-yellow tint, surrounded by dry, yellowish-brown grass and shrubs. In the background, a large, light-colored sand dune rises under a clear blue sky. The water appears to be effluent from a detention basin.

Photo No. 8	Date: 01/25/2018
Direction Photo Taken: Looking North	
Photo Description: Effluent observed along the Detention Basin.	



Field Inspection Photograph Log



Photo No. 9	Date: 01/25/2018	
Direction Photo Taken: Looking West		
Photo Description: Overview of Recharge Basin #5, soil was previously saturated. Saturation observed outside of the basin area		

Photo No. 10	Date: 01/25/2018	
Direction Photo Taken: Looking Down		
Photo Description: View of soil with oil stain at the lift station – Oasis Sunrise.		

JOHNSON UTILITIES, L.L.C

5230 East Shea Boulevard * Scottsdale, Arizona 85254

PH: (480) 998-3300; FAX: (480) 483-7908

July 21, 2015

Robert Phalen
Arizona Department of Environmental Quality
Water Quality Compliance Field Service Unit I
1110 West Washington Street
Phoenix, Arizona 85007

RE: Notice of Violation Case ID No. 156348

Dear Mr. Phalen:

During the meeting on July 8, 2015 with ADEQ, Johnson Utilities was asked to provide documentation demonstrating that employees have been provided training to ensure recharge water will be discharged in accordance with the reuse rules, in order to satisfy the outstanding items associated with NOV Case ID No. 156348. Richard Connally, the Water Reclamation Manager, provided training to the Section 11 WWTP Operations Staff on July 13, 2015. The training outlined the routine inspections and operations, and the effluent disposal rules in accordance with Table A of A.A.C R-18-11-309. Attached is the certification letter that the operations staff has been trained to dispose of the effluent in accordance with the APP and Rules, the Standard Operating Procedure for the Section 11 WWTP, and the sign in sheet.

If you should have any questions or comments, please contact me at (480) 998-3300.

Sincerely,



Bradley J. Cole
Chief Operating Officer

cc: Katherine Nierva

Attachment:

Certification Letter of Training and Standard Operating Procedure for Section 11 WWTP

ARIZONA DEPARTMENT OF
ENVIRONMENTAL QUALITY
JUL 24 2015
WATER QUALITY
COMPLIANCE SECTION

Attachment 1

Standard Operating Procedure at Section 11 Wastewater Treatment Plant

Purpose

The purpose of this Standard Operating Procedure is to present the guidelines for operating the Section 11 WWTP and disposing of the treated Class B+ effluent in accordance with the Aquifer Protection Permit issued by the Arizona Department of Environmental Quality.

Routine Procedures

1. During Phase I of Section 11 WWTP, the plant shall not exceed a daily average effluent flow of 1.6 MGD. Take a reading of the effluent meter at 6:00 am every morning and record it in the daily spreadsheet. Calculate the daily flow rate by taking the difference of the influent flow meter readings and record it in the daily spreadsheet. Every day, calculate the 30-day running average to ensure the alert level of 1.52 MGD is not exceeded.
2. Each lagoon is equipped with six aerators. Inspect on a daily basis that all aerators within the lagoons are functioning properly. If any of the aerators are not functioning properly, the aerator(s) shall be pulled from the lagoon, assessed, and repaired immediately. Spare aerators are kept onsite in the event the defective aerator needs to be sent to the manufacturer for repair.
3. Inspect all pipelines are site daily and jet lines as necessary. Exercise valves and repair as needed.
4. The cattails within the constructed wetlands are burned every fall, as permitted by Pinal County. Inspect the berms around the wetlands and reconstruct, as necessary.
5. Recharge basins are drained every summer (when effluent reuse demand is high) and soil is tilled to improve percolation rates. Remove any foreign debris and dispose. Inspect all recharge wells and clean as necessary.
6. All effluent shall be disposed of in accordance with Table A of A.A.C. R-18-11-309 (See Attached)

Contacts

Listed below are the facility contacts, should you have any issues or questions.

- Manager Wastewater Reclamation, Rich Connally; (480) 739-8128 (cell)
- Chief Operating Officer, Brad Cole; (602) 377-4730 (cell), (480) 998-3300 (office)
- Operations Engineer, Katherine Nierva; (480) 797-9609 (cell), (480) 998-3300 (office)

Department of Environmental Quality – Water Quality Standards

R18-11-308. Industrial Reuse

- A. The reclaimed water quality requirements for the following direct reuse applications are industry-specific and shall be determined by the Department on a case-by-case basis in a reclaimed water permit issued by the Department under 18 A.A.C. 9, Article 7:
1. Direct reuse of industrial wastewater containing sewage.
 2. Direct reuse of industrial wastewater for the production or processing of any crop used as human or animal food.
- B. The Department shall use best professional judgment to determine the reclaimed water quality requirements needed to protect public health and the environment for a type of direct reuse specified in subsection (A).

Historical Note

New Section adopted by final rulemaking at 7 A.A.R. 870, effective January 22, 2001 (Supp. 01-1).

R18-11-309. Reclaimed Water Quality Standards for an Unlisted Type of Direct Reuse

- A. The Department may prescribe in an individual reclaimed water permit issued under 18 A.A.C. 9, Article 7, reclaimed water quality requirements for a type of direct reuse not listed in Table A. Before permitting a direct reuse of reclaimed water not listed in Table A, the Department shall, using its best professional judgment, determine and require compliance with reclaimed water quality requirements needed to protect public health and the environment.
- B. Department may determine that Class A+, A, B+, B, or C reclaimed water is appropriate for a new type of direct reuse.
- C. The Department shall consider the following factors when prescribing reclaimed water quality requirements for a new type of direct reuse:
1. The risk to public health;
 2. The degree of public access to the site where the reclaimed water is reused and human exposure to the reclaimed water;
 3. The level of treatment necessary to ensure that the reclaimed water is aesthetically acceptable;
 4. The level of treatment necessary to prevent nuisance conditions;
 5. Specific water quality requirements for the intended type of direct reuse;
 6. The means of application of the reclaimed water;
 7. The degree of treatment necessary to avoid a violation of surface water quality standards or aquifer water quality standards;
 8. The potential for improper or unintended use of the reclaimed water;
 9. The reuse guidelines, criteria, or standards adopted or recommended by the U.S. Environmental Protection Agency or other federal or state agencies that apply to the new type of direct reuse; and
 10. Similar wastewater reclamation experience of reclaimed water providers in the United States.

Historical Note

New Section adopted by final rulemaking at 7 A.A.R. 870, effective January 22, 2001 (Supp. 01-1).

Table A. Minimum Reclaimed Water Quality Requirements for Direct Reuse

Type of Direct Reuse	Minimum Class of Reclaimed Water Required
Irrigation of food crops	A

Recreational impoundments	A
Residential landscape irrigation	A
Schoolground landscape irrigation	A
Open access landscape irrigation	A
Toilet and urinal flushing	A
Fire protection systems	A
Spray irrigation of an orchard or vineyard	A
Commercial closed loop air conditioning systems	A
Vehicle and equipment washing (does not include self-service vehicle washes)	A
Snowmaking	A
Surface irrigation of an orchard or vineyard	B
Golf course irrigation	B
Restricted access landscape irrigation	B
Landscape impoundment	B
Dust control	B
Soil compaction and similar construction activities	B
Pasture for milking animals	B
Livestock watering (dairy animals)	B
Concrete and cement mixing	B
Materials washing and sieving	B
Street cleaning	B
Pasture for non-dairy animals	C
Livestock watering (non-dairy animals)	C
Irrigation of sod farms	C
Irrigation of fiber, seed, forage, and similar crops	C
Silviculture	C

Note: Nothing in this Article prevents a wastewater treatment plant from using a higher quality reclaimed water for a type of direct reuse than the minimum class of reclaimed water listed in Table A. For example, a wastewater treatment plant may provide Class A reclaimed water for a type of direct reuse where Class B or Class C reclaimed water is acceptable.

Historical Note

New Table adopted by final rulemaking at 7 A.A.R. 870, effective January 22, 2001 (Supp. 01-1).

ARTICLE 4. AQUIFER WATER QUALITY STANDARDS**R18-11-401. Definitions**

In addition to the definitions contained in A.R.S. §§ 49-101 and 49-201, the terms of this Article shall have the following meanings:

1. "Beta particle and photon radioactivity from man-made radionuclides" means all radionuclides emitting beta particles or photons, except Thorium-232, Uranium-235, Uranium-238 and their progeny.
2. "Dose equivalent" means the product of the absorbed dose from ionizing radiation and such factors as account for differences in biological effectiveness due to the type of radiation and its distribution in the body as specified by the International Commission on Radiological Units and Measurements.
3. "Drinking water protected use" means the protection and maintenance of aquifer water quality for human consumption.

Johnson Utilities

Section 11 Wastewater Treatment Plant

Standard Operating Procedure for Effluent Discharge

July 13, 2015

The below listed were in attendance to study and follow up on the proper procedure for the discharge of effluent water at the Section 11 Wastewater Treatment Plant. All methods are in accordance with Table A of A.A.C. R-18-11-309. See attached SOP and Supp. 08-4.

Richard Connally; Johnson Utilities, Manager Wastewater Reclamation

Jed Lant; Johnson Utilities, Training Operator, Lead Operator-Pecan WRP

William Lopez; Johnson Utilities, Lead Operator-Section 11 WWTP *William Lopez*

Evan Coon; Johnson Utilities, Auxiliary Operator *Evan Coon*

Nolan Connally; Johnson Utilities, Auxiliary Operator *Nolan Connally*

Joseph Martinez; Operator-Section 11 WWTP *Joseph Martinez*

Richard Connally *[Signature]* Date 7-13-15

Jed Lant *[Signature]* Date 7-13-15