



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: EMPIRE FARMS, LLC / GRANITE INVESTMENT GROUP LLC
P.O. BOX 40
EMPIRE, NV - 89405

Permit Number: NS0098012

Location: EMPIRE FARMS, WASHOE
60 MILE MARKER STATE ROUTE 447, EMPIRE, NV - 89412
LATITUDE: 40.440278, LONGITUDE: -119.452778
TOWNSHIP: 30N, RANGE: 22E, SECTION: 25

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	INFLUENT	Influent Structure		EMPIRE	NV	89412	WASHOE	40.440278	-119.452778	GROUNDWATER
002	EFFLUENT	External Outfall		EMPIRE	NV	89412	WASHOE	40.440278	-119.452778	GROUNDWATER
MW1	MW-1	Monitoring Well		EMPIRE	NV	89412	WASHOE	40.440278	-119.452778	GROUNDWATER
MW2	MW-2	Monitoring Well		EMPIRE	NV	89412	WASHOE	40.440278	-119.452778	GROUNDWATER

General:

The Permittee, Granite Investment Group LLC, has applied for the renewal of permit NS0098012 for the Empire Farms Wastewater Treatment Facility (WWTF), located in Washoe County, Nevada, approximately 18 miles northeast of Pyramid Lake. The WWTF consists of two 1.25-acre facultative ponds and a 4-acre rapid infiltration basin (RIB). The WWTF treats domestic wastewater generated by houses built for farm employees, a geothermal power plant, and the no-longer-operational Empire Foods dehydration plant. Of the two facultative ponds, the north pond is the only one that is currently in use; the north pond is lined with a geosynthetic clay liner.

Discharge Characteristics:

The discharge consists of treated domestic wastewater, limited to a daily maximum biochemical oxygen demand (BOD) concentration of 45 mg/L and a daily maximum total suspended solids concentration of 90 mg/L.

Receiving Water:

The receiving water is groundwater of the State. The groundwater in the area is 85 feet below ground surface and is of potable quality. The permitted discharge is not expected to negatively impact the groundwater.

Summary of Changes From Previous Permit:

The requirement to monitor and report the biochemical oxygen demand in the influent has been removed.

The requirement for the facility to be operated by a Nevada certified grade 1 operator has been removed; in accordance with NAC 445A.286, this facility does not require an operator.

The requirement to monitor and report nitrate in the groundwater has been removed; nitrate is a component of total nitrogen, which will be reported annually and limited to 10.0 mg/L.

The measurement frequency for pH, chloride, total nitrogen, and total dissolved solids in the groundwater has been changed from quarterly to annually.

The requirement to electronically submit Discharge Monitoring Reports (DMRs) within 1 year of permit issuance has been added. The Bureau of Water Pollution Control's Nevada NetDMR system is a website that allows for electronic submission of DMRs. By using Nevada NetDMR, Permittees will save time, see a reduction in paperwork burden, and data will automatically error-check and validate the information prior to submission. The system also allows for electronic submittal of attachments and supplemental documentation and provides instant confirmation of submission.

Due to the new naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control, the permit number has been changed from NEV98012 to NS0098012. This change does not reflect a change in the type of permit being issued.

Proposed Effluent Limitations:

The discharge shall be limited and monitored by the Permittee as specified below:

WWTP Discharge Limitations Table for Sample Location 001 (Influent) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.010 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Quarterly	ESTIMA ^[1]
Flow rate	Quarterly Average	<= 0.009 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Quarterly	ESTIMA ^[1]

Notes (WWTP Discharge Limitations Table):

1. Estimate based on occupancy and Uniform Plumbing Code (e.g. 100 gallons per day per capita)

WWTP Discharge Limitations Table for Sample Location 002 (Effluent) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.010 Million Gallons per Day (Mgal/d)		Effluent Gross	002	Quarterly ^[3]	ESTIMA ^[1]
Flow rate	Quarterly Average	<= 0.009 Million Gallons per Day (Mgal/d)		Effluent Gross	002	Quarterly ^[3]	ESTIMA ^[1]
BOD, 5-day	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002 ^[2]	Quarterly ^[3]	DISCRT
BOD, 5-day	Quarterly Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002 ^[2]	Quarterly ^[3]	DISCRT
Solids, total suspended	Daily Maximum		<= 90 Milligrams per Liter (mg/L)	Effluent Gross	002 ^[2]	Quarterly ^[3]	DISCRT

Notes (WWTP Discharge Limitations Table):

1. Estimate based on occupancy and Uniform Plumbing Code (e.g. 100 gallons per day per capita)
2. Effluent discharged from the secondary facultative pond to the RIB
3. Quarterly when discharging

Groundwater Monitoring Wells Table for Sample Location Mw1 (Monitoring Well Mw-1) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW1	Quarterly	VISUAL ^[1]
Water level relative to mean sea level ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW1	Quarterly	CALCTD

Notes (Groundwater Monitoring Wells Table):

1. Field measurement
2. Groundwater elevation above mean sea level (AMSL)

Groundwater Monitoring Wells Table for Sample Location Mw1 (Monitoring Well Mw-1) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
pH	Annual Maximum		M&R Standard Units (SU)	Groundwater	MW1	Annual ^[1]	DISCRT
Chloride (as Cl)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual ^[1]	DISCRT
Nitrogen, total	Annual Maximum		<= 10.0 Milligrams per Liter (mg/L)	Groundwater	MW1	Annual ^[1]	DISCRT
Solids, total dissolved	Annual Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Annual ^[1]	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater shall be sampled and analyzed during the third quarter of each year.

Groundwater Monitoring Wells Table for Sample Location Mw2 (Monitoring Well Mw-2) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW2	Quarterly	VISUAL ^[1]
Water level relative to mean sea level ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW2	Quarterly	CALCTD

Notes (Groundwater Monitoring Wells Table):

1. Field measurement
2. Groundwater elevation AMSL

Groundwater Monitoring Wells Table for Sample Location Mw2 (Monitoring Well Mw-2) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
pH	Annual Maximum		M&R Standard Units (SU)	Groundwater	MW2	Annual ^[1]	DISCRT
Chloride (as Cl)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual ^[1]	DISCRT
Nitrogen, total	Annual Maximum		<= 10.0 Milligrams per Liter (mg/L)	Groundwater	MW2	Annual ^[1]	DISCRT
Solids, total dissolved	Annual Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Annual ^[1]	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater shall be sampled and analyzed during the third quarter of each year.

Rationale for Permit Requirements:

Monitoring is required to assess the level of treatment being provided, to determine when the design capacity is being approached, and to ensure that the groundwater is not degraded.

Special Conditions:

Substantial compliance with the current permit is a condition of permit renewal.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

Daily Maximum Flow Rate \leq 0.010 MGD

Quarterly Average Flow Rate \leq 0.009 MGD

Corrective Action Sites:

There are no Bureau of Corrective Actions remediation sites located within one mile of the WWTF.

Wellhead Protection Program:

The WWTF is not located within a Wellhead Protection Area or a Drinking Water Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit an updated Operation and Maintenance (O&M) Manual to the Division. The O&M Manual shall be prepared in accordance with guidance document <i>WTS-2: Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant</i> . If the Permittee determines that no updates to the O&M Manual are necessary, the Permittee shall submit, in lieu of an updated O&M Manual, a letter to the Division stating that no changes to the existing O&M Manual have been made.	12/28/2016
2	Within 1 year of permit issuance, all Discharge Monitoring Reports shall be submitted electronically through the Nevada NetDMR website (https://netdmr.ndep.nv.gov/netdmr/public/home.htm).	9/1/2017

Deliverable Schedule:

DLV– Deliverable Schedule for Reports, Plans, and Other Submittals

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Discharge Monitoring Report	Quarterly	10/28/2016
2	Annual Report	Annually	1/28/2017

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Reno Gazette Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **8/5/2016**, a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination:

The Division has made the tentative determination to issue / re-issue the proposed 5-year permit.

Prepared by: **Alan Pineda**

Date: **6/28/2016**

Title: **Staff I Associate Engineer**