



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: UNITED STATES AIR FORCE
PO BOX 93174
LAS VEGAS, NV - 891933174

Permit Number: NS0095014

Location: CEDAR PASS, NEVADA TEST AND TRAINING RANGE, CLARK
PO BOX 93174, LAS VEGAS, NV - 891933174
LATITUDE: 37.711389, LONGITUDE: -116.445833
TOWNSHIP: 3S, RANGE: 49E, SECTION: 1

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	PACKAGE PLANT INFLUENT	Influent Structure		LAS VEGAS	NV	891933174	CLARK	37.711389	-116.445833	GROUNDWATER
002	PACKAGE PLANT EFFLUENT	External Outfall		LAS VEGAS	NV	891933174	CLARK	37.711389	-116.445833	GROUNDWATER
003	POND INFLUENT	Influent Structure		LAS VEGAS	NV	891933174	CLARK	37.708052	-116.450612	GROUNDWATER
004	POND EFFLUENT	External Outfall		LAS VEGAS	NV	891933174	CLARK	37.708052	-116.450612	GROUNDWATER
005	POND LEAK DETECTION	Internal Outfall		LAS VEGAS	NV	891933174	CLARK	37.708052	-116.450612	GROUNDWATER

General:

The United States Air Force has applied for the renewal of permit NS0095014 for the Cedar Pass Nevada Test and Training Range (NTTR) in Nye County, Nevada, approximately 44 miles east of Goldfield. Domestic and non-domestic wastewater generated at the NTTR is treated in an on-site wastewater treatment facility (WWTF), which consists of an activated sludge package plant, three rapid infiltration basins (RIBs), and one double-lined standby/emergency holding pond. The WWTF has a design treatment capacity of 0.030 million gallons per day (MGD) and a current operational flow of 0.010 MGD.

Non-domestic wastewater, which originates from the vehicle maintenance facility, is pre-treated by two sand-oil interceptors, and domestic grease interception is provided at the culinary facility. The holding pond is available in case of WWTF failure or overhaul. Pond effluent meets secondary treatment standards and package plant effluent is tertiary-treated and denitrified.

Discharge Characteristics:

The following average WWTF effluent characteristics were calculated from values reported between the third quarter of 2010 and the second quarter of 2015:

Biochemical Oxygen Demand: 1.6 mg/L
Total Suspended Solids: 4 mg/L
Total Petroleum Hydrocarbons: 0.075 mg/L
pH: 7.73 standard units
Total Nitrogen: 6.03 mg/L

The Permittee is considered to be in substantial compliance with the current permit.

Receiving Water:

The receiving water is groundwater of the State. The groundwater reportedly flows southwest and is 800 feet below ground surface.

Summary of Changes From Previous Permit:

The WWTF formerly consisted of two double-lined partial mix treatment ponds and three double-lined evaporation ponds. During the previous permit cycle, three of the five ponds were converted into rapid infiltration basins, one of the five ponds was decommissioned, and the remaining pond was retained as a standby/emergency holding pond.

The daily maximum WWTF influent flow rate limit has been changed from 0.03 million gallons per day (MGD) to 0.045 MGD. The new limit is based on the requested flow limit in the permit renewal application.

A liner leakage rate limit of 500 gallons per acre per day has been added to the discharge limitations table for Outfall 005.

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 NEV95014 to NS0095014. 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 (Package Plant Influent) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.045 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER
Flow rate	30 Day Average	<= 0.030 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER

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

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
BOD, 5-day	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Quarterly	DISCRT
BOD, 5-day	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Quarterly	DISCRT
Solids, total suspended	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Quarterly	DISCRT
Solids, total suspended	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Quarterly	DISCRT
Hydrocarbons, total petroleum ^[1]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Quarterly	DISCRT
Hydrocarbons, total petroleum ^[1]	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Quarterly	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015

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

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
pH, minimum	Daily Minimum		>= 6.0 Standard Units (SU)	Effluent Gross	002	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
pH, maximum	Daily Maximum		<= 9.0 Standard Units (SU)	Effluent Gross	002	Quarterly	DISCRT
BOD, 5-day	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
BOD, 5-day	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
Solids, total suspended	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
Solids, total suspended	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
Hydrocarbons, total petroleum ^[1]	Daily Maximum		<= 1.0 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
Hydrocarbons, total petroleum ^[1]	30 Day Average		<= 1.0 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
Nitrogen, total	30 Day Average		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015

Ponds / Rapid Infiltration Basins for Sample Location 003 (Pond Influent) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.023 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	003	Continuous	METER
Flow rate	30 Day Average	<= 0.018 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	003	Continuous	METER

Ponds / Rapid Infiltration Basins for Sample Location 003 (Pond Influent) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
BOD, carbonaceous, 05 day, 20 C	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	003	Quarterly	DISCRT
BOD, carbonaceous, 05 day, 20 C	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	003	Quarterly	DISCRT
Solids, total suspended	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	003	Quarterly	DISCRT
Solids, total suspended	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	003	Quarterly	DISCRT
Hydrocarbons, total petroleum ^[1]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	003	Quarterly	DISCRT
Hydrocarbons, total petroleum ^[1]	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	003	Quarterly	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

1. EPA Modified 8015

Ponds / Rapid Infiltration Basins for Sample Location 004 (Pond Effluent) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
BOD, carbonaceous, 05 day, 20 C	30 Day Average		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	DISCRT
Solids, total suspended	Daily Maximum		<= 90 Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	DISCRT
Solids, total suspended	30 Day Average		<= 90 Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	DISCRT
Hydrocarbons, total petroleum ^[1]	Daily Maximum		<= 1.0 Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	DISCRT
Hydrocarbons, total petroleum ^[1]	30 Day Average		<= 1.0 Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	DISCRT
pH, maximum	Daily Maximum		<= 9.0 Standard Units (SU)	Effluent Gross	004	Quarterly	DISCRT
pH, minimum	Daily Minimum		>= 6.0 Standard Units (SU)	Effluent Gross	004	Quarterly	DISCRT
BOD, carbonaceous, 05 day, 20 C	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	004	Quarterly	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

1. EPA Modified 8015

Ponds / Rapid Infiltration Basins for Sample Location 005 (Pond Leak Detection) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Liner Leakage Rate	Daily Maximum	<= 500 Gallons per Acre per Day (gal/acre/d)		Internal Monitoring Point	005	Continuous	METER

Rationale for Permit Requirements:

Permit limits and requirements have been established to ensure that the receiving water, groundwater of the State, is not degraded by the discharge.

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:Outfall 001

Daily Maximum Flow Rate \leq 0.045 MGD

30-Day Average Flow Rate \leq 0.030 MGD

Outfall 003

Daily Maximum Flow Rate \leq 0.023 MGD

30-Day Average Flow Rate \leq 0.018 MGD

Corrective Action Sites:

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

Wellhead Protection Program:

The NTTR 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 two copies of an updated Operations & Maintenance (O&M) Manual to the Division. The O&M Manual shall be prepared by a qualified person 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.	7/28/2016
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).	4/1/2017

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Discharge Monitoring Report	Quarterly	7/28/2016
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 **Las Vegas Review Journal, Tonopah Times-Bonanza & Goldfield News** 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. **3/28/2016**, 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: **2/19/2016**

Title: **Staff I Associate Engineer**