



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: UNITED STATES AIR FORCE
P.O. BOX 93174
LAS VEGAS, NV - 891913174

Permit Number: NS0020001

Location: USAF TONOPAH TEST RANGE (TTR), NYE
32 MILES SE OF TONOPAH, TOHOPAH TEST RANGE, NV - 89108
LATITUDE: 37.872222, LONGITUDE: -116.786667
TOWNSHIP: 1S, RANGE: 46E, SECTION: 11 NW 1/4

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
002	OIL/WATER SEPARATOR # 2	Internal Outfall		TONOPAH	NV	89191	NYE	37.8720	-116.7860	GROUNDWATER
003	OIL/WATER SEPARATOR # 3	Internal Outfall		TONOPAH	NV	89191	NYE	37.8720	-116.7876	GROUNDWATER
004	OIL/WATER SEPARATOR # 4	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
006	OIL/WATER SEPARATOR # 6	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
007	OIL/WATER SEPARATOR # 7	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
008	OIL/WATER SEPARATOR # 8	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
015	OIL/WATER SEPARATOR # 15	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
018	OIL/WATER SEPARATOR # 18	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
020	OIL/WATER SEPARATOR # 20	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
021	OIL/WATER SEPARATOR # 21	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
022	OIL/WATER SEPARATOR # 22	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
023	OIL/WATER SEPARATOR # 23	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
024	OIL/WATER SEPARATOR # 24	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
025	OIL/WATER SEPARATOR # 25	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
026	OIL/WATER SEPARATOR # 26	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
027	OIL/WATER SEPARATOR # 27	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
028	OIL/WATER SEPARATOR # 28	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
029	OIL/WATER SEPARATOR # 29	Internal Outfall		TONOPAH	NV	89191	NYE	37.87	-116.78	GROUNDWATER
EFF	EFFLUENT	External Outfall		TONOPAH	NV	89191	NYE	37.872222	-116.786667	GROUNDWATER
INF	INFLUENT	Internal Outfall		TONOPAH	NV	89191	NYE	37.872222	-116.786667	GROUNDWATER

General:

The USAF Tonopah Test Range (TTR) is a military installation that is operated by the United States Air

Force, located approximately 32 miles southeast of Tonopah, NV in Nye County. TTR generates wastewater flow from military housing and an industrial area. The industrial area wastewater flow is pre-treated via several oil-water separators for the removal of oil and grease from equipment wash racks. After pre-treatment, the industrial wastewater flow is combined with the domestic wastewater flow at the headworks for final treatment in two aerated ponds. The wastewater in the aerated ponds is treated via biological processes and discharged for evaporation at the TTR wastewater treatment facility (WWTF).

The WWTF consists of two lined partial-mix treatment ponds. The original treatment pond is identified as the Modified Aerated Facultative Lagoon and is a 1.33-acre, clay-lined (bentonite) pond, aerated with four (4) 7.5 Hp aerators. This treatment pond discharges secondary (biological) treated effluent to two HDPE-lined (60-mil thickness) evaporation ponds, which have an area of 0.9 acres (West Evaporation Pond) and 1.2 acres (East Evaporation Pond).

The newer treatment pond is identified as the New Aerated Facultative Lagoon and is an 8.5-acre, HDPE-lined lagoon, aerated with four (4) 7.5 Hp aerators. Secondary treated effluent from this lagoon is discharged to a 5.0-acre, clay-lined evaporation pond (Remaining Large Evaporation Pond).

Discharge Characteristics:

The facility discharges secondary treated domestic wastewater and industrial wastewater to onsite evaporation ponds. Over the last five-year permit cycle, the facility has not exceeded any permit limits. This facility is in substantial compliance with its permit.

Receiving Water:

While the wastewater is discharged to evaporation ponds, the receiving water is considered to be groundwater of the State. Groundwater is reported to be approximately 100 feet below ground surface, at an elevation of 5250 feet above mean sea level, and flows west.

Summary of Changes From Previous Permit:

There are no substantial changes from the previous permit.

WWTP Discharge Limitations Table for Sample Location 002 (Internal Outfall Ows2) To Be Reported Annually^[2]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	002	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	002	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	002	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	002	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	002	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	002	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	002	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	002	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	002	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 003 (Internal Outfall Ows3) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	003	Annual	DISCRT
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	003	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	003	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	003	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	003	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	003	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	003	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	003	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	003	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 004 (Internal Outfall Ows4) To Be Reported Annually^[2]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	004	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	004	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	004	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	004	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	004	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	004	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	004	Annual	DISCRT
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	004	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	004	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 006 (Internal Outfall Ows6) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	006	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	006	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	006	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	006	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	006	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	006	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	006	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	006	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	006	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 007 (Internal Outfall Ows7) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	007	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	007	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	007	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	007	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	007	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	007	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	007	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	007	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	007	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 008 (Internal Outfall Ows8) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	008	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	008	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	008	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	008	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	008	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	008	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	008	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	008	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	008	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 015 (Internal Outfall Ows15) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	015	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	015	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	015	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	015	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	015	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	015	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	015	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	015	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	015	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 018 (Internal Outfall Ows18) To Be Reported Annually^[2]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	018	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	018	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	018	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	018	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	018	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	018	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	018	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	018	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	018	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 020 (Internal Outfall Ows20) To Be Reported Annually^[2]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	020	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	020	Annual	DISCRT
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	020	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	020	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	020	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	020	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	020	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	020	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	020	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Method 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 021 (Internal Outfall Ows21) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	021	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	021	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	021	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	021	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	021	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	021	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	021	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	021	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	021	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Method 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 022 (Internal Outfall Ows22) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	022	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	022	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	022	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	022	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	022	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	022	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	022	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	022	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	022	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 023 (Internal Outfall Ows23) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	023	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	023	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	023	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	023	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	023	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	023	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	023	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	023	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	023	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 024 (Internal Outfall Ows24) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	024	Annual	DISCRT
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	024	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	024	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	024	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	024	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	024	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	024	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	024	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	024	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 025 (Internal Outfall Ows25) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	025	Annual	DISCRT
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	025	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	025	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	025	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	025	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	025	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	025	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	025	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	025	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 026 (Internal Outfall Ows26) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	026	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	026	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	026	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	026	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	026	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	026	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	026	Annual	DISCRT
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	026	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	026	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 027 (Internal Outfall Ows27) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	027	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	027	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	027	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	027	Annual	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	027	Annual	DISCRT
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	027	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	027	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	027	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	027	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 028 (Internal Outfall Ows28) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	028	Annual	DISCRT
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	028	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	028	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	028	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	028	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	028	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	028	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	028	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	028	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location 029 (Internal Outfall Ows29) To Be Reported Annually^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	029	Annual	DISCRT
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	029	Annual	DISCRT
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	029	Annual	DISCRT
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	029	Annual	DISCRT
Lead, total (as Pb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	029	Annual	DISCRT
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	029	Annual	DISCRT
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	029	Annual	DISCRT
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	029	Annual	DISCRT
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Internal Monitoring Point	029	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. EPA Modified 8015.
2. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location Eff (External Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total suspended ^[1]	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Quarterly	COMPOS
Solids, total suspended ^[1]	Quarterly Average		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Quarterly	COMPOS
BOD, carbonaceous, 05 day, 20 C ^[1]	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Quarterly	COMPOS
BOD, carbonaceous, 05 day, 20 C ^[1]	Quarterly Average		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Quarterly	COMPOS

Notes (WWTP Discharge Limitations Table):

- Effluent samples from Modified Aerated Facultative Lagoon shall be required when there is a discharge to the West and/or East Evaporation Ponds. If no discharge occurred during the quarter, then "No Discharge" shall be indicated on the DMR Report.

Effluent samples from New Aerated Facultative Lagoon shall be required when there is a discharge to the Remaining Large Evaporation Pond. If no discharge occurred during the quarter, then "No Discharge" shall be indicated on the DMR Report.

WWTP Discharge Limitations Table for Sample Location Eff (External Outfall) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Silver, total (as Ag) ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Annual ^[3]	DISCRT
Arsenic, total (as As) ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Annual ^[3]	DISCRT
Hydrocarbons, total petroleum ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L) ^[2]	Effluent Gross	EFF	Annual ^[3]	DISCRT
Barium, total (as Ba) ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Annual ^[3]	DISCRT
Selenium, total (as Se) ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Annual ^[3]	DISCRT
Mercury, total (as Hg) ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Annual ^[3]	DISCRT
Lead, total (as Pb) ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Annual ^[3]	DISCRT
Chromium, total (as Cr) ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Annual ^[3]	DISCRT
Cadmium, total (as Cd) ^[1]	Annual Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFF	Annual ^[3]	DISCRT

Notes (WWTP Discharge Limitations Table):

1. Effluent samples from New Aerated Facultative Lagoon shall be required when there is a discharge to the Remaining Large Evaporation Pond. If no discharge occurred during the quarter, then "No Discharge" shall be indicated on the DMR Report.
2. EPA Modified 8015.
3. Samples to be taken mid-week (T, W or TH) in the 1st Quarter.

WWTP Discharge Limitations Table for Sample Location Inf (Internal Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate ^[1]	Daily Maximum	<= 0.672 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	INF	Continuous	METER
Flow rate ^[1]	30 Day Average	<= 0.375 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	INF	Continuous	METER

Notes (WWTP Discharge Limitations Table):

1. Combined domestic and industrial flow at headworks.

WWTP Discharge Limitations Table for Sample Location Inf (Internal Outfall) To Be Reported Quarterly

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

Notes (WWTP Discharge Limitations Table):

1. Combined domestic and industrial flow at headworks.

Rationale for Permit Requirements:

The Division's rationale for the proposed monitoring conditions is as follows:

Effluent Limits: Although the treatment ponds have been designed to achieve secondary treatment, effluent limits are not established because the disposal method is evaporation.

Annual Sampling: Annual sampling of the Oil/Water Separators in the Industrial Complex is required to evaluate the oil and grease removal performance of the industrial pre-treatment program.

Special Conditions:

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

The design treatment capacities for the 30-day average and daily maximum periods are 0.375 and 0.672 million gallons per day, respectively.

Corrective Action Sites:

There are no corrective actions sites within one mile of this facility.

Wellhead Protection Program:

The TTR WWTF is not located within a wellhead capture zone or a drinking water protection area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

There are no Schedule of Compliance items

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Reports	Quarterly	1/28/2016
2	Annual Report	Annually	1/28/2016

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. **12/21/2015**, 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: **Peter Lassaline**

Date: **11/12/2015**

Title: **Environmental Scientist**