FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: CLARK COUNTY WATER RECLAMATION DISTRICT
5857 EAST FLAMINGO ROAD
LAS VEGAS, NV - 89122

Permit Number: NS0050040

Location: INDIAN SPRINGS WASTEWATER TREATMENT PLANT, CLARK
2630 E. US HIGHWAY 95 NORTH, INDIAN SPRINGS, NV - 89018
LATITUDE: 36.579167, LONGITUDE: -115.647778
TOWNSHIP: 16 S, RANGE: 56 E, SECTION: 10

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	Internal Outfall		INDIAN SPRINGS	NV	89018	CLARK	36.577735	-115.645906	GROUNDWATER
002	EFFLUENT	External Outfall		INDIAN SPRINGS	NV	89018	CLARK	36.578467	-115.646382	GROUNDWATER
003	MONITORING WELL MW-1	Monitoring Well		INDIAN SPRINGS	NV	89018	CLARK	36.581152	-115.648320	GROUNDWATER
004	MONITORING WELL MW-2	Monitoring Well		INDIAN SPRINGS	NV	89018	CLARK	36.581152	-115.647301	GROUNDWATER
005	MONITORING WELL MW-3	Monitoring Well		INDIAN SPRINGS	NV	89018	CLARK	36.581109	-115.645907	GROUNDWATER
006	MONITORING WELL MW-4	Monitoring Well		INDIAN SPRINGS	NV	89018	CLARK	36.581124	-115.644651	GROUNDWATER
007	MONITORING WELL MW-5	Monitoring Well		INDIAN SPRINGS	NV	89018	CLARK	36.577158	-115.648254	GROUNDWATER

General:

CCWRD operates a 500,000 gallons per day (GPD) capacity EDI Bio-Mizer denitrifying treatment plant to serve the community of Indian Springs (population 990) and Creech Air Force Base. Two lift stations collect raw wastewater and transport it to the treatment plant. Three zones are maintained aerobic (air on) and four anoxic (air off), rotating every 10 minutes. Surface mixing is quiescent with fine-bubble diffusion. The treated effluent is disposed in rapid infiltration basins (RIBs) to percolate into groundwaters of the State.

Five monitoring wells, one up-gradient of the WWTP and four down-gradient will be sampled quarterly to determine whether the groundwater is impacted by the percolation. The monitoring wells are sampled quarterly for total dissolved solids (TDS), chlorides, total nitrogen, depth to groundwater and groundwater water elevation. The total nitrogen level is limited at 10.0 mg/L.

Discharge Characteristics:

The treated effluent is discharged from the secondary clarifier discharges via gravity flow to the RIBs. Creech AFB reports a stronger influent strength for its BOD/TSS levels due to AFB water conservation practices including low-flow plumbing fixtures. Water quality results since the 4th quarter 2013 show the following results:

Flows: 30-day average flows did not exceed 0.25 MGD, which is only 50-percent capacity of the plant. The maximum day values also are well below the permitted limit of 1.3 MGD.

Biochemical Oxygen Demand: 30-day average influent BOD values ranged from a minimum of 150 mg/L to a maximum of 490 mg/L. The maximum day value was 540 mg/L. The 30-day average BOD values after the treatment process ranged from a minimum of about 2 mg/L to a maximum of 20 mg/L. The maximum day value was 26 mg/L. These values were within the permitted values of 30 mg/L and 45 mg/L, respectively.

Total Suspended Solids: 30-day average influent TSS values ranged from a minimum of 180 mg/L to a maximum of 720 mg/L. The maximum day value was approximately 990 mg/L. 30-day average TSS values after the treatment process ranged from a minimum of 1 mg/L to a maximum 8 mg/L. The daily maximum was 29 mg/L. These values were within the permitted values of 30 mg/L and 45 mg/L, respectively.

pH: pH values were all within the permitted values of 6.0 and 9.0 standard units.

Total Nitrogen: 30-day average TN values ranged from a minimum of 1.5 mg/L to a maximum of 14 mg/L, which exceeded the permitted limit of 10 mg/L for this one month. The maximum day value was 14 mg/L. There were four exceedances of the daily maximum of 10 mg/L during the review period.

Receiving Water:

Water quality results from five monitoring wells show whether the groundwater has been impacted. Two of these wells were installed by the Indian Springs Sewage Co. Depth to groundwater below ground surface is 56 feet and reported groundwater flow gradient is to the northwest. Water quality monitoring results from the 4th quarter 2013 show that one of these wells indicated an elevated total nitrogen (TN) level of more than 20 mg/L, but it has dropped down to approximately 15 mg/L. Results from other monitoring wells show that there are still residual TN values that exceed the permitted limit of 10 mg/L. These elevated values are due to leakage from the unlined ponds that were located there for many decades. The water quality results show that TN values have dropped since the new treatment plant has come on-line. The Permittee can request abandonment of the monitoring wells once the total nitrogen levels decrease below 10 mg/L. However, this may take many years before the TN is totally leached out of the aquifer.

Summary of Changes From Previous Permit:

The following change has been made to this permit from the previous permit:

The permit naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control changed the permit number from NEV50040 to NS0050040. This change does not reflect a change in the type of permit being issued; and

Effluent flow monitoring has been eliminated since the secondary clarifier discharges via gravity flow to the RIBs and there is no flow meter or pumping station run time to report an effluent flow rate.

Proposed Effluent Limitations:

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

WWTP Discharge Limitations Table for Sample Location 001 (Internal Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Solids, total suspended	Monthly Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Monthly	COMPOS
BOD, 5-day	Monthly Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	001	Monthly	COMPOS
Flow rate	Daily Maximum	<= 1.3 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER[1]
Flow rate	30 Day Average	<= 0.5 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER[1]

Notes (WWTP Discharge Limitations Table):

1. Pumping time or Flow Meter.

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
BOD, 5-day	Monthly Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Monthly	COMPOS
BOD, 5-day	Monthly Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Monthly	COMPOS
pH, maximum	Monthly Maximum		< 9 Standard Units (SU)	Effluent Gross	002	Monthly	DISCRT
pH, minimum	Monthly Minimum		>= 6 Standard Units (SU)	Effluent Gross	002	Monthly	DISCRT
Nitrogen, total	Monthly Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Monthly	COMPOS
Nitrogen, total	Monthly Average		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	002	Monthly	COMPOS
Solids, total suspended	Monthly Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Monthly	COMPOS
Solids, total suspended	Monthly Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Monthly	COMPOS

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

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Hydrocarbons, total petroleum[1]	Quarterly Maximum		<= 1.0 Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT

Notes (WWTP Discharge Limitations Table):

1. Full range- Purge & Extract - 8015B.

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Ethylbenzene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Dichlorobromomethane	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Dibromochloromethane	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Chloroform	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Chloroethane	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Chlorobenzene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Carbon tetrachloride	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Bromoform	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Benzene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Acrylonitrile	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Acrolein	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
			M&R				

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
2-Chloroethyl vinyl ether, (mixed)	Annual Maximum		Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,3-Dichloropropene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
trans-1,2-Dichloroethylene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,2-Dichloropropane	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,2-Dichloroethane	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,1-Dichloroethylene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,1-Dichloroethane	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,1,2-Trichloroethane	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,1,2,2-Tetrachloroethane	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,1,1-Trichloroethane	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Pyrene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Phenanthrene	Annual Maximum		M&R Micrograms per Liter	Effluent Gross	002	Annual	DISCRT

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
			(ug/L)				
N-Nitrosodiphenylamine	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
N-Nitrosodi-N-propylamine	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
N-Nitrosodimethylamine (NDMA)	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Nitrobenzene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Naphthalene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Isophorone	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Indeno(1,2,3-cd)pyrene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Hexachloroethane	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Hexachlorocyclopentadiene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Hexachlorobutadiene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Hexachlorobenzene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Fluorene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Fluoranthene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Di-n-octyl phthalate	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Di-n-butyl phthalate	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Dimethyl phthalate	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Diethyl phthalate	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Dibenzo(a,h)anthracene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Chrysene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Butyl benzyl phthalate	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Bis(2-ethylhexyl) phthalate	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Bis(2-chloroisopropyl) ether	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
			M&R				

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Bis(2-chloroethyl) ether	Annual Maximum		Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Bis(2-chloroethoxy)methane	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Benzo(k)fluoranthene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Benzo(ghi)perylene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Benzo(b)fluoranthene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Benzo(a)pyrene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Benzo(a)anthracene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Benzidine	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Anthracene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Acenaphthylene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Acenaphthene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
4-Chlorophenyl phenyl ether	Annual Maximum		M&R Micrograms per Liter	Effluent Gross	002	Annual	DISCRT

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
			(ug/L)				
4-Bromophenyl phenyl ether	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
3,3-Dichlorobenzidine	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2-Chloronaphthalene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2,6-Dinitrotoluene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Cyanide, total (as CN)	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Asbestos	Annual Maximum		M&R Fibers per Milliliter (Fib/mL)	Effluent Gross	002	Annual	DISCRT
2,3,7,8-Tetrachlorodibenzo-p-dioxin	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Zinc, total recoverable	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Thallium, total recoverable	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Silver total recoverable	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Selenium, total recoverable	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
			M&R				

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Nickel, total recoverable	Annual Maximum		Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Mercury, total recoverable	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Lead, total recoverable	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Copper, total recoverable	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Chromium, total recoverable	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Cadmium, total recoverable	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Beryllium, total recoverable (as Be)	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Arsenic, total recoverable	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Antimony, total recoverable	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Phenol	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Pentachlorophenol	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
4-Nitrophenol	Annual Maximum		M&R Micrograms per Liter	Effluent Gross	002	Annual	DISCRT

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
			(ug/L)				
4-Chloro-3-methylphenol	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2-Nitrophenol	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2-Methyl-4,6-dinitrophenol	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2-Chlorophenol	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2,4-Dinitrophenol	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2,4-Dimethylphenol	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2,4-Dichlorophenol	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2,4,6-Trichlorophenol	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Toxaphene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
PCB-1260	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
PCB-1254	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
PCB-1248	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
PCB-1242	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
PCB-1232	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
PCB-1221	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
PCB-1016	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Heptachlor epoxide	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Heptachlor	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
.gamma.-BHC	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Endrin aldehyde	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Endrin	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Endosulfan sulfate	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
			M&R				

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Dieldrin	Annual Maximum		Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
.delta.-BHC	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Chlordane (tech mix. and metabolites)	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
.beta.-Endosulfan	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
.beta.-BHC	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
.alpha.-Endosulfan	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
.alpha.-BHC	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Aldrin	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
4,4-DDT	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
4,4-DDE	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
4,4-DDD	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Vinyl chloride	Annual Maximum		M&R Micrograms per Liter	Effluent Gross	002	Annual	DISCRT

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
			(ug/L)				
Trichloroethylene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Toluene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Tetrachloroethylene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
2,4-Dinitrotoluene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,4-Dichlorobenzene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,3-Dichlorobenzene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,2-Diphenylhydrazine	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,2-Dichlorobenzene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
1,2,4-Trichlorobenzene	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Methylene chloride	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT
Methyl chloride (Chloromethane)	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Methyl bromide (Bromomethane)	Annual Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	002	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location 003 (Monitoring Well Mw-1) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Water level relative to mean sea level[3]	Quarterly Maximum	M&R Feet (ft)		Groundwater	003	Quarterly	CALCTD
Depth to water level ft below landsurface[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	003	Quarterly	VISUAL[2]
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to Groundwater, ft.
2. Field measurement.
3. Groundwater Elevation, ft.

Groundwater Monitoring Wells Table for Sample Location 004 (Monitoring Well Mw-2) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Water level relative to mean sea level[3]	Quarterly Maximum	M&R Feet (ft)		Groundwater	004	Quarterly	CALCTD
Depth to water level ft below landsurface[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	004	Quarterly	VISUAL[2]
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	004	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	004	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	004	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to Groundwater, ft.
2. Field measurement.
3. Groundwater Elevation, ft.

Groundwater Monitoring Wells Table for Sample Location 005 (Monitoring Well Mw-3) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Water level relative to mean sea level[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	005	Quarterly	CALCTD
Depth to water level ft below landsurface[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	005	Quarterly	VISUAL[3]
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	005	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	005	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	005	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to Groundwater, ft.
2. Groundwater Elevation, ft.
3. Field measurement.

Groundwater Monitoring Wells Table for Sample Location 006 (Monitoring Well Mw-4) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Water level relative to mean sea level[3]	Quarterly Maximum	M&R Feet (ft)		Groundwater	006	Quarterly	CALCTD
Depth to water level ft below landsurface[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	006	Quarterly	VISUAL[2]
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	006	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	006	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	006	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to Groundwater, ft.
2. Field measurement.
3. Groundwater Elevation, ft.

Groundwater Monitoring Wells Table for Sample Location 007 (Monitoring Well Mw-5) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Water level relative to mean sea level[3]	Quarterly Maximum	M&R Feet (ft)		Groundwater	007	Quarterly	CALCTD
Depth to water level ft below landsurface[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	007	Quarterly	VISUAL[2]
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	007	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	007	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	007	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to Groundwater, ft.
2. Field measurement.
3. Groundwater Elevation, ft.

Rationale for Permit Requirements:

Monitoring is required to ensure that groundwaters of the State of Nevada are not degraded. Monitoring is also required to assess the level of treatment being provided, and to determine compliance with discharge permit limits. The Permittee is in substantial compliance with its current discharge permit.

Special Conditions:

See official permit.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

0.5 MGD - 30-day average

1.3 MGD - Daily maximum

Corrective Action Sites:

There is no Bureau of Corrective Action (BCA) remediation site located within a one-mile radius of the Indian Springs WWTP.

Wellhead Protection Program:

The Indian Springs WWTP is not located within a source water protection area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit a copy of a revised Operations & Maintenance (O&M) Manual in accordance with NDEP Water Technical Sheet WTS-2: Minimum Information Required for an Operation and Maintenance Manual. If no changes have been made to the current O&M Manual, the Permittee shall submit a letter to NDEP stating that no changes have been made.	2/1/2017

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	10/1/2016
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** 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. **10/28/2016** , 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: **Steve McGoff, P.E.**
Date: **9/22/2016**
Title: **Professional Engineer**

Attachment A
Priority Pollutants

BASE NEUTRAL EXTRACTIBLES		VOLATILE ORGANICS		PESTICIDES		ACID EXTRACTABLES		METALS		DIOXINS		OTHER	
Storet Code	Name	Storet Code	Name	Storet Code	Name	Storet Code	Name	Storet Code	Name	Storet Code	Name	Storet Code	Name
34551	1,2,4-Trichlorobenzene	34506	1,1,1-Trichloroethane	39310	4,4-DDD	34621	2,4,6-Trichlorophenol	01268	Antimony	34675	2,3,7,8-TCDD	00948	Asbestos
34536	1,2-Dichlorobenzene	34516	1,1,2,2-Tetrachloroethane	39320	4,4-DDE	34601	2,4-Dichlorophenol	00978	Arsenic			00720	Cyanide, total
34346	1,2-Diphenylhydrazine	34511	1,1,2-Trichloroethane	39300	4,4-DDT	34606	2,4-Dimethylphenol	00998	Beryllium				
34566	1,3-Dichlorobenzene	34496	1,1-Dichloroethane	39330	Aldrin	34616	2,4-Dinitrophenol	01113	Cadmium				
34571	1,4-Dichlorobenzene	34501	1,1-Dichloroethylene	39336	Alpha-BHC	34586	2-Chlorophenol	01118	Chromium				
34611	2,4-Dinitrotoluene	32103	1,2-Dichloroethane	34361	Endosulfan I (alpha)	03615	2-Methyl-4,6-dinitrophenol	01119	Copper				
34626	2,6-Dinitrotoluene	34541	1,2-Dichloropropane	39338	Beta-BHC	34591	2-Nitrophenol	01114	Lead				
34581	2-Chloronaphthalene	34546	Trans-1,2-Dichloroethylene	34356	Endosulfan II (beta)	70012	4-Chloro-3-methylphenol	71901	Mercury				
34631	3,3-Dichlorobenzidine	77163	1,3-Dichloropropene (mixed)	39350	Chlordane (Technical)	34646	4-Nitrophenol	01074	Nickel				
34636	4-Bromophenyl phenyl ether	34576	2-Chloroethyl vinyl ether	34198	Delta-BHC	39032	Pentachlorophenol	00981	Selenium				
34641	4-Chlorophenyl phenyl ether	34210	Acrolein	39380	Dieldrin	34694	Phenol	01079	Silver				
34205	Acenaphthene	34215	Acrylonitrile	34351	Endosulfan sulfate			00982	Thallium				
34200	Acenaphthylene	34030	Benzene	39390	Endrin			01094	Zinc				
34220	Anthracene	32104	Bromoform	34366	Endrin aldehyde								
39120	Benzidine	32102	Carbon tetrachloride	39344	Gamma-BHC (Lindane)								
34526	Benzo(a)anthracene	34301	Chlorobenzene	39410	Heptachlor								
34247	Benzo(a)pyrene	85811	Chloroethane	39420	Heptachlor epoxide								
34230	Benzo(b)fluoranthene	32106	Chloroform	34671	Aroclor (PCB) 1016								
34521	Benzo(g,h,i)perylene	32105	Dibromochloromethane	39488	Aroclor (PCB) 1221								
34242	Benzo(k)fluoranthene	32101	Bromodichloromethane	39492	Aroclor (PCB) 1232								
34278	Bis(2-Chloroethoxy) methane	34371	Ethylbenzene	39496	Aroclor (PCB) 1242								
34273	Bis(2-chloroethyl) ether	34413	Bromomethane	39500	Aroclor (PCB) 1248								
34283	Bis(2-Chloroisopropyl) ether	34418	Chloromethane	39504	Aroclor (PCB) 1254								
39100	Bis(2-ethylhexyl) phthalate	34423	Dichloromethane	39508	Aroclor (PCB) 1260								
34292	Butyl benzyl phthalate	34475	Tetrachloroethylene	39400	Toxaphene								
34320	Chrysene	34010	Toluene										
34556	Dibenzo(a,h)anthracene	39180	Trichloroethylene										
34336	Diethyl phthalate	39175	Vinyl chloride										
34341	Dimethyl phthalate												
39110	Di-n-butyl phthalate												
34596	Di-n-octyl phthalate												
34376	Fluoranthene												
34381	Fluorene												
39700	Hexachlorobenzene												
34391	Hexachlorobutadiene												
34386	Hexachlorocyclopentadiene												
34396	Hexachloroethane												
34403	Indeno(1,2,3 -cd)pyrene												
34408	Isophorone												
34696	Naphthalene												
34447	Nitrobenzene												
34438	N-Nitrosodimethylamine												
34428	N-Nitrosodi-n-propylamine												
34433	N-Nitrosodiphenylamine												
34461	Phenanthrene												
34469	Pyrene												

Note: Priority Pollutants shall be analyzed using approved Environmental Protection Agency (EPA) Methods, and/or an appropriate combination of these methods to verify compliance with applicable water quality standards.

4/27/2010