



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: JDLB, LLC
2827 PARADISE ROAD
LAS VEGAS, NV - 89109

Permit Number: NV0023256

Location: THE STIRLING CLUB, CLARK
2827 PARADISE ROAD, LAS VEGAS, NV - 89109
LATITUDE: 36.136667, LONGITUDE: -115.155278
TOWNSHIP: T21S, RANGE: R61E, SECTION: S9

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
01A	INFLUENT TO CARBON SYSTEM	Internal Outfall		LAS VEGAS	NV	89109	CLARK	36.136667	-115.155278	LAS VEGAS WASH VIA STORM DRAIN
01B	INFLUENT TO FINAL CARBON CANISTER	Internal Outfall		LAS VEGAS	NV	89109	CLARK	36.136667	-115.155278	LAS VEGAS WASH VIA STORM DRAIN
01C	DEWATERING SYSTEM DISCHARGE - EFFLUENT FROM CARBON SYSTEM	External Outfall		LAS VEGAS	NV	89109	CLARK	36.138687	-115.155007	LAS VEGAS WASH VIA STORM DRAIN

General:

The Permittee, JDLB, LLC, has applied for a renewal of discharge permit NV0023256. The permit authorizes the Permittee to discharge treated groundwater found in the below-grade parking level of its facility, The Stirling Club at Turnberry Place Tower II. The facility is located at 2827 Paradise Road, Las Vegas, NV 89109. The facility's parking level is located beneath the shallow groundwater table. To prevent structural damage and the occurrence of nuisance water, the facility captures and treats the groundwater, then discharges it to the Las Vegas Wash via the storm drain system.

The facility uses underfloor and perimeter drains to capture the groundwater. The drains lead to four separate sump pits (pits 1, 2, 3, and 4). Groundwater in pits 1, 2, and 3 is pumped into pit 4. From pit 4, the groundwater is pumped through two 2,000-pound granulated activated carbon (GAC) vessels, which remove the pollutant tetrachloroethene (PCE). From the GAC vessels, the treated groundwater is discharged to the Las Vegas Wash via a storm drain drop inlet on Paradise Road in Las Vegas.

Discharge Characteristics:

The discharge consists of groundwater that is intercepted in a below-grade parking garage and treated in two GAC vessels before being discharged to the Las Vegas Wash via the storm drain system. During the last permit cycle, the facility exceeded its permit limit for PCE, which is 5 micrograms per liter (µg/L), on three occasions: 2nd quarter, 2011 (19 µg/L); 2nd quarter, 2012 (17 µg/L); and 3rd quarter, 2012 (11.5 µg/L). The PCE exceedances were due to carbon breakthrough and have been resolved. The facility is considered to be in substantial compliance with its permit.

Receiving Water:

Treated groundwater from the facility's parking level will be discharged into the Las Vegas Wash via the storm drain system. Beneficial uses and water quality standards for the nearest downstream control point, Las Vegas Wash at Telephone Line Road, are specified in NAC 445A.2142 and NAC 445A.2156, respectively. No adverse effects to the receiving water are expected as a result of this discharge.

Summary of Changes From Previous Permit:

There have been no substantial changes to this permit from its previous version.

Proposed Effluent Limitations:

The water discharged from the groundwater remediation system to the storm drain system shall be limited, sampled, and monitored by the Permittee as specified in the tables below.

Discharge Limitations Table for Sample Location 01A (Internal Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
1,4-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
1,3-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
1,2-Dichloropropane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
1,2-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
1,2-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
1,1-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
1,1-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
1,1,2-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
1,1,2,2-Tetrachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
1,1,1-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Vinyl chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01A (Internal Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Trichlorofluoromethane	Daily Maximum		Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Trichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
trans-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
trans-1,2-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Toluene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Tetrachloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Methylene chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Ethylbenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Dibromochloromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
cis-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Methyl chloride (Chloromethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Chloroform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT

Discharge Limitations Table for Sample Location 01A (Internal Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Chloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Chlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Carbon tetrachloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Methyl bromide (Bromomethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Bromoform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Dichlorobromomethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
Benzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT
2-Chloroethyl vinyl ether, (mixed)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Intake	01A	Quarterly	DISCRT

Discharge Limitations Table for Sample Location 01B (Internal Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Vinyl chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Trichlorofluoromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Trichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
trans-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
trans-1,2-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Toluene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Tetrachloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Methylene chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Ethylbenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Dibromochloromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
cis-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT

Discharge Limitations Table for Sample Location 01B (Internal Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Methyl chloride (Chloromethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Chloroform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Chloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Chlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Carbon tetrachloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Methyl bromide (Bromomethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Bromoform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Dichlorobromomethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
Benzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
2-Chloroethyl vinyl ether, (mixed)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
1,4-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT

Discharge Limitations Table for Sample Location 01B (Internal Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
1,3-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
1,2-Dichloropropane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
1,2-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
1,2-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
1,1-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
1,1-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
1,1,2-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
1,1,2,2-Tetrachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT
1,1,1-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Internal Monitoring Point	01B	Quarterly	DISCRT

Discharge Limitations Table for Sample Location 01C (External Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 249,000 Gallons per Day (gal/d)		Effluent Gross	01C	Continuous	METER

Discharge Limitations Table for Sample Location 01C (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Mercury, total (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Manganese, total (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Lead, total (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Iron, total (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Fluoride, total (as F)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Chromium, total (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Cadmium, total (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Boron, total (as B)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01C (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Beryllium, total (as Be)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Barium, total (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Antimony, total (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
pH, maximum	Daily Maximum		<= 9 Standard Units (SU)	Effluent Gross	01C	Quarterly	DISCRT
pH, minimum	Daily Minimum		>= 6.5 Standard Units (SU)	Effluent Gross	01C	Quarterly	DISCRT
Phosphorus, total (as P)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Nitrogen, inorganic total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Nitrogen, ammonia total (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01C (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, Kjeldahl, total (as N)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Xylene ^[2]	Daily Maximum		<= 200 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Methyl tert-butyl ether	Daily Maximum		<= 20 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Trihalomethane, tot.	Daily Maximum		<= 100 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Hydrocarbons, total petroleum ^[1]	Daily Maximum		<= 1.0 Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Vinyl chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Trichlorofluoromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Trichloroethylene	Daily Maximum		<= 5 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
trans-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
trans-1,2-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Toluene	Daily Maximum		<= 100 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Tetrachloroethylene	Daily Maximum		<= 5 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT

Discharge Limitations Table for Sample Location 01C (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Methylene chloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Ethylbenzene	Daily Maximum		<= 100 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Dibromochloromethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
cis-1,3-Dichloropropene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Methyl chloride (Chloromethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Chloroform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Chloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Chlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Carbon tetrachloride	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Methyl bromide (Bromomethane)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Bromoform	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 01C (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Dichlorobromomethane	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Benzene	Daily Maximum		<= 5 Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
2-Chloroethyl vinyl ether, (mixed)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
1,4-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
1,3-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
1,2-Dichloropropane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
1,2-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
1,2-Dichlorobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
1,1-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
1,1-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
1,1,2-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
1,1,2,2-Tetrachloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT

Discharge Limitations Table for Sample Location 01C (External Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
1,1,1-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	01C	Quarterly	DISCRT
Hardness, total (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Zinc, total (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Thallium, total (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Silver, total (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Selenium, total (as Se)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Nickel, total (as Ni)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT
Molybdenum, total (as Mo)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	01C	Quarterly	DISCRT

Notes (Discharge Limitations Table):

1. C6-C40
2. Total xylenes

Rationale for Permit Requirements:

The limits have been set using the standards at the nearest downstream control point, the Las Vegas Wash at Telephone Line Road. These standards are found in the Nevada Administrative Code (NAC 445A.2156). Additionally, the State standards for toxic materials, found in NAC 445A.1236, and the total maximum daily loads (TMDLs) for total phosphorous and ammonia for the Las Vegas Wash have been taken into

consideration in creating the permit limits.

Total Ammonia as Nitrogen and Total Phosphorus: The 1989 TMDL for the receiving water included the following discussion of point source contributions to the Las Vegas Wash: "Point source discharges into the Las Vegas Wash include City of Las Vegas, Clark County Sanitation District, TIMET, Kerr-McGee and Stauffer... Kerr-McGee discharges non-contact cooling water and stormwater and Stauffer discharges stormwater. The discharges from both these facilities are intermittent, and have been relatively uncommon in the past. TIMET discharges approximately 4 MGD and both the total ammonia and total phosphorus concentration found in these discharges are approximately 0.01 mg/L or less. Therefore, only the discharge from the City of Las Vegas and Clark County treatment plants were used to estimate the total monthly average point source load discharged to Las Vegas Wash.

In consideration of the permit application, NDEP has determined that the permitted discharge limits are consistent with the assumptions for the relevant Waste Load Allocations (WLAs) and does not warrant more restrictive limit to implement the applicable WLAs. Reported groundwater concentrations for Total Ammonia have been non-detect with the exceptions of April 2013 (0.96 mg/L) and July 2013 (0.36mg/L). Reported groundwater concentrations for Total Phosphorus have been non-detect with the exceptions of September 2009 (0.07 mg/L); November 2012 (0.25 mg/L); and December 2013 (0.09 mg/L). In conjunction with the proposed flow limit of less than 0.25 million gallons per day (MGD) and recent flows of 0.047 MGD, NDEP has determined the load to be an insignificant or negligible contributor of TP and Total Ammonia, consistent with the assumptions and requirements of the WLAs in the TMDL. However, the parameters will be monitored quarterly to allow NDEP the opportunity to review and ensure concentrations remain consistent with background levels and degradation of waters does not occur.

Total petroleum hydrocarbons (TPH) (C6 - C40) are limited to 1.0 mg/l: This is a technology-based limit. The analysis is included because it covers a wide range of potential pollutants. TPH is typically split up as gasoline range organics (C6 - C12), diesel range organics (C12 - C28), and oil range organics (C28 - C40).

Volatile organic compounds (VOCs) are monitored because they cover a wide range of potential pollutants. Numeric limits have been placed on the following VOCs:

Total Trihalomethanes are limited to 100 µ/l: This is the toxic standard for the municipal or domestic supply beneficial use.

Trichloroethylene (TCE) is limited to 5 µg/l: This is the toxic standard for the municipal or domestic supply beneficial use.

Tetrachloroethylene (PCE) is limited to 5 µg/l: This is the Maximum Contaminant Level (MCL) for drinking water.

Methyl tert-butyl ether (MTBE) is limited to 20 µg/l: This limit is taken from the Corrective Action program and is based on taste and odor considerations.

Benzene is limited to 5 µg/l: This is the toxic standard for the municipal or domestic supply beneficial use.

Toluene is limited to 100 µg/l: This technology-based limit is used instead of the toxics standard (14,300 µg/l) because it is easily achievable.

Ethylbenzene is limited to 100 µg/l: This technology-based limit is used instead of the toxic standard (1,400 µg/l) because it is easily achievable.

Total xylenes are limited to 200 µg/l: This is a technology-based limit.

Total Kjeldahl nitrogen (TKN) is required to be monitored and reported: TKN is the sum of the organic forms plus ammonia is needed as part of the determination of total nitrogen.

Nitrite + nitrate is required to be monitored and reported: This is monitored as a part of the total nitrogen monitoring.

Total inorganic nitrogen (TIN) is required to be monitored and reported: This is included because of the control point standard, 20 mg/l, which is based on existing quality. TIN is determined from the sum of separate analyses for nitrite, nitrate, and ammonia. TIN concentrations in the effluent have remained below the standard.

Total nitrogen (TN) is required to be monitored and reported: TN is determined from the sum of separate analyses for Kjeldahl, nitrite, and nitrate.

pH is limited to 6.5 - 9.0 standard units: This is the control point standard, based on beneficial uses. Although not controlled by a treatment process, an excursion would represent some type of mishap and could be corrected.

Total dissolved solids are required to be monitored and reported: Naturally occurring elevated TDS levels would flow to the Las Vegas Wash if it were not intercepted by the dewatering system; therefore, the TDS standard is not applied to remediation discharges in this area. This permit is for the interception and passage of groundwater and thus is exempted under the Colorado River Basin Salinity Control Forum's policy on groundwater interception. The requirement to monitor and report quarterly has been retained from the previous permit.

Metals are required to be monitored & reported: These are monitored because of their environmental effects. Metals concentrations have remained non-detect or below applicable surface water standards.

Total suspended solids (TSS): TSS is listed in the Standards of Water Quality for the Las Vegas Wash at Telephone Line Road. Previous sampling indicates that TSS is non-detect in the discharged water from this facility, therefore TSS is not required to be monitored.

Special Conditions:

SA – Special Approvals / Conditions Table

Item #	Description
1	Breakthrough of Carbon Canisters: spent carbon shall be replaced when breakthrough has been detected. Fresh carbon shall be placed in the final canister and the other canisters shall be rotated so that the oldest carbon is placed in the first position, and subsequent positions are occupied by decreasingly spent carbon.

Flow:

Flow is limited to 0.249 million gallons per day.

Corrective Action Sites:

This facility is located within one mile of twelve corrective actions sites. NDEP does not expect any negative impacts to these sites as a result of this discharge.

Wellhead Protection Program:

This facility is not located within a drinking water protection.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two copies of an updated Operations and Maintenance (O&M) Manual for Division review. The O&M Manual shall be prepared by a Professional Engineer registered in the State of Nevada or other qualified person.	10/31/2015

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	10/28/2015
2	Annual Reports	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 surface waters 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. **9/22/2015**, 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: **8/19/2015**

Title: **Environmental Scientist**