

**NEVADA DIVISION OF ENVIRONMENTAL PROTECTION**  
**FACT SHEET**  
 (pursuant to NAC 445A.236)

**Permittee Name:** City of North Las Vegas  
 2829 Fort Sumter Drive  
 North Las Vegas, Nevada 89030

**Permit Number:** NV0023728

**Discharge Location::** Various points along the path described by the following:

Segment	Starting Location	Ending Location	Township Range and Section
Pecos Road (Owens Ave to Lake Mead Blvd.)	36° 11' 16.71" N 115° 05' 53.74" W	36° 11' 44.76" N 115° 05' 53.74" W	T 20S, R 62E, Section 19
Lake Mead Boulevard (Pecos Dr. to Walnut Rd.)	36° 11' 44.76" N 115° 05' 53.74" W	36° 11' 44.76" N 115° 05' 21.05" W	T 20S, R 62E, Section 19
Walnut Road (Lake Mead Blvd to Judson Ave.)	36° 11' 44.76" N 115° 05' 21.05" W	36° 11' 57.71" N 115° 05' 21.05" W	T 20S, R 62E, Section 19
Judson Avenue (Walnut Rd. to Lamb Blvd.)	36° 11' 57.71" N 115° 05' 21.05" W	36° 11' 57.71" N 115° 04' 48.50" W	T 20S, R 62E, Sections 19, 20
Lamb Boulevard (Judson Ave. to Alto Ave.)	36° 11' 57.71" N 115° 04' 48.50" W	36° 12' 37.13" N 115° 04' 48.50" W	T 20S, R 62E, Sections 17, 20
Alto Avenue (Judson Ave. to Betty Ln.)	36° 12' 37.13" N 115° 04' 48.50" W	36° 12' 39.06" N 115° 03' 27.06" W	T 20S, R 62E, Sections 16, 17
Betty Lane (Alto Ave. to City of North Las Vegas Water Reclamation Facility)	36° 12' 39.06" N 115° 03' 27.06" W	36° 12' 27.74" N 115° 03' 27.06" W	T 20S, R 62E, Section 16

**Receiving Water:** Las Vegas Wash, via Clark County Stormdrain System

**Drinking Water Protection:** The pathway of the proposed pipeline trench intersects the 3000' Drinking Water Protection Areas (DWPAs) around four (4) community water supply wells: Nellis Air Force Base Area 1 Wells 13 and 14, and 2 wells owned by Oakridge Apartments. Activity associated with this permit is not expected to impact these supply wells, since discharge is not to groundwater.

**Corrective Actions Sites:** The subject facility pathway passes within 1 mile of the following Bureau of Corrective Actions (BCA) sites. The BCA case officers in charge of these sites have indicated that adverse effects of the proposed project on the ongoing corrective activities is not anticipated.

Project ID #	Site Number	Facility Name	Corrective Action Type
4072	8-000329	Circle K Store # 1791	UST
2123	8-000434	7-Eleven Store #29644	UST
1183	8-000125	Circle K Store #1248	UST
5611	H-000643	Arrow Industrial Park Commercial Subdivision	Mobile (Motor Oil)

UST = Underground Storage Tank Leak

**General:** The City of North Las Vegas has proposed the construction of a sewer interceptor pipeline to transmit municipal wastewater to the new City of North Las Vegas Water Reclamation Facility (WRF). The approximately 21,900 feet of buried pipeline will require dewatering of the trench excavation, due to shallow groundwater. The Applicant has proposed discharge of the extracted groundwater to the Clark County stormdrain system, which ultimately discharges to Las Vegas Wash. The Applicant anticipates discharge will be 0.72 MGD and 2.16 MGD for the 30-Day Average and Daily Maximum, respectively. The proposed project does not require ongoing dewatering of the pipeline trenches, and discharge will cease once the pipeline is installed.

**Discharge Characteristics:** Overall, the groundwater to be discharged is of good quality. Groundwater from the areas to be dewatered was sampled in four (4) monitor wells, and was analyzed with the following results (only those analytes with concentrations above the method reporting limits are listed). No appreciable amounts of metals were detected. No Volatile Organic Compounds were detected.

ANALYTE (mg/L)	AVERAGE (mg/L)	MAX (mg/L)	MIN (mg/L)
Chloride	294	390	66
Nitrate as N	2.48	3.9	0.9
pH	7.72	8	7.6
Total Phosphorus	0.25	0.6	<0.1
Sulfate	752.5	1300	190
Total Dissolved Solids (TDS)	1719	2520	736
Aluminum	6.12	14	1.1
Barium	0.093	0.14	0.07
Boron	0.928	1.9	0.34
Calcium	180	250	100
Chromium	0.0072	0.015	<0.005
Iron	3.74	8.7	0.46
Magnesium	143.25	220	83
Manganese	0.2012	0.29	0.045
Potassium	20.5	29	14
Sodium	308.25	520	23
Thallium	<0.005	0.005	<0.005
Zinc	0.0206	0.035	<0.005

**Receiving Water Characteristics:** The dewatering system will discharge into various Clark County storm drain inlets along the path of the pipeline, which eventually discharge to the Las Vegas Wash. Water quality standards for the Las Vegas Wash are specified in NAC 445A.199.

**Proposed Effluent Limitations and Special Conditions:** The water discharged to the stormdrain system shall be limited, sampled and monitored by the Permittee at ALL points of discharge to the storm drain system, as specified below:

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Total Flow, All Discharge Points (MGD)	0.720	2.16	Continuous	Calculation
Flow, Each Discharge Point (MGD)	Monitor & Report	Monitor & Report	Continuous	Flow Meter
Total Dissolved Solids (TDS), (mg/L)	---	Monitor & Report	Quarterly	Discrete
Total Suspended Solids (TSS) (mg/L)	---	135	Quarterly	Discrete
Total Inorganic Nitrogen as N, (mg/L)	---	20	Quarterly	Discrete
Total Phosphorus as P (lbs/day)	---	1.0	Quarterly	Discrete
Ammonia as N (lbs/day)	---	1.0	Quarterly	Discrete
pH (Standard Units)	---	6.5 – 9.0	Quarterly	Discrete
Total Petroleum Hydrocarbons (TPH) <sup>1</sup> , (mg/L)	---	1.0	Monthly	Discrete
Volatile Organic Compounds (VOC and MTBE), (µg/L)	---	Monitor & Report	Monthly	Discrete
Chromium, Lead, Selenium, Zinc (µg/L)	---	Monitor & Report	Quarterly	Discrete
Hardness as CaCO <sub>3</sub> (mg/L)	---	Monitor & Report	Quarterly	Discrete

MGD = million gallons per day  
 mg/l = milligrams per liter  
 lbs/day = pounds per day  
 µg/L = micrograms per liter

1. Report TPH full range (C<sub>6</sub>-C<sub>40</sub>), extractable and purgable. Summation must meet permit limit

**Rationale for Permit Requirements:** The monitoring requirements and permit limits have been established to ensure that the receiving water (Las Vegas Wash) is not degraded from dewatering of the Southeast Interceptor Pipeline trench. The requirements are consistent with other similar installations discharging to the Las Vegas Wash and have been established to ensure that the Las Vegas Wash is not degraded by dewatering activities and incidentally introduced fluids.

**Schedule of Compliance:** The Permittee shall achieve compliance with the discharge limitations upon issuance of the permit; and,

- a. The Permittee shall achieve compliance with the discharge limitations stated in Part I.A.1 upon issuance of the permit; and,

- b. **By MMM DD, 2009** (Within fourteen (14) days of the permit issuance date), the Permittee shall submit for review and approval a copy of the Operations & Maintenance (O&M) Manual for the dewatering system, prepared in accordance with the Division's WTS-2 guidance: *Minimum Information Required for an Operations and Maintenance Manual*. The manual shall describe the Best Management Procedures (BMPs), which have been employed at the site to minimize the introduction of contaminants/pollutants into the stormdrain. **This document shall be wet stamped and signed by a Nevada Professional Engineer (P.E.).** The document shall be sent to the following address for review and approval:

**Mr. Nadir Sous**  
**Division of Environmental Protection**  
**Bureau of Water Pollution Control - Las Vegas**  
**2030 E. Flamingo Rd**  
**Suite 230**  
**Las Vegas, NV 89119-0837**

Once approved, the Permittee shall submit a copy of the approved O&M Manual to the Division at the following

**Department of Conservation and Natural Resources**  
**Division of Environmental Protection**  
**Bureau of Water Pollution Control**  
**901 S. Stewart Street, Suite 4001**  
**Carson City, Nevada 89701**

**Procedures for Public Comment:** The Notice of the Division's intent to issue an NPDES permit authorizing this facility to discharge for a five-year period, 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 for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is **September 21, 2009 by 5:00 P.M.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator 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 determines to be appropriate. All public hearings must be conducted in 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 the proposed NPDES discharge permit for a period of five (5) years.

Prepared by: Janine O. Hartley, P.E.  
Staff Engineer II  
Bureau of Water Pollution Control

**DRAFT**