

**NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
FACT SHEET**

(pursuant to NAC 445A.236)

Permittee Name: Valley Hospital Medical Center
620 Shadow Lane
Las Vegas, NV 89106

Permit Number: NV0022195

Location: Valley Hospital Medical Center
620 Shadow Lane
Las Vegas, Clark County, Nevada

Latitude: 36° 09' 46" N
Longitude: 115° 09' 57" W

DRAFT

Drinking Water Protection Areas:

Valley Hospital Medical Center is within the 6000' but outside the 3000' Drinking Water Protection Area (DWPA) around four public water supply wells (Las Vegas Valley Water District Wells 7A, 81, 84; Shetland Water District Well 1). Wellhead Protection Areas (WHPAs) have not been established for this area.

Bureau of Corrective Actions Sites:

Valley Hospital Medical Center is within 1 mile of two Bureau of Corrective Action (BCA) sites. The sites are listed below. The case officers in charge of these projects have indicated that ongoing dewatering activities are not expected to adversely affect corrective actions.

Project ID #	Site Number	Facility Name	Corrective Action Type (Media/Source/Contaminant)
576	H-000038	Union Pacific Railroad Company	Soil and Groundwater//Gasoline
2514	8-000675	Texaco Station 0151	Soil and Groundwater/UST/Diesel, Gasoline

General:

Valley Hospital Medical Center is a general medical hospital located in Las Vegas, Clark County, Nevada. The facility is located 2 blocks north of Charleston Boulevard and 3 blocks east of S. Rancho Drive. Groundwater is drained from the building foundation through dewatering trenches (French drains containing perforated pipes) to a dedicated collection sump within the hospital. Collected water is pumped from the sump, and is discharged to the Clark County storm drain system through a sub-grade HDPE line.

The original permit was for discharge of groundwater collected in the foundation dewatering system of the portion of the building known as the Pavilion, built in 1977. This discharge has been designated

designated as Outfall 001. Discharge is at the storm drain at the intersection of Shadow Lane and Pinto Lane. Samples are collected from a valved sampling port located downstream of the collection sump and upstream of the discharge point. In December, 2007, construction began on a new surgical wing, which also requires foundation dewatering. This new discharge has been designated as Outfall 002. Discharge at Outfall 002 is via a sub-grade PVC pipe to the storm drain within the hospital grounds. Grab samples from Outfall 002 are collected at the end of the pipe.

Discharge Flow and Characteristics:

During the period from December 2005 through June 2009, Discharge Monitoring Reports (DMRs) indicate the following discharge characteristics for Outfall 001:

Parameter	Permit Limit	Average	Maximum	Minimum
Flow (gpd): Average	15,000	1721	3164	252
Daily Maximum		2726	7850	510
Total Phosphorus (lb/day)	1.0	0.0076	0.018	0.0004
Total Ammonia (lb/day)	1.0	0.013	0.033	0.002
Total Dissolved Solids (lb/day)	2,000	31.39	65.9	0.35
Total Nitrogen (mg/l)	20	5.4	14	0.84
pH (Standard Units)	6.5 – 9.0	7.50	8.01	7.15
Total Petroleum Hydrocarbons (mg/l)	1.0	<0.6	4.3	<0.5

Outfall 002 will be added to the permit to account for dewatering of the new surgical suite wing. Outfall 002 has the following characteristics:

Parameter	Average	Maximum	Minimum
Flow (gpd): Average	4300	15977	0.4
Daily Maximum	6814	22300	5.0
Total Phosphorus (lb/day)	0.017	0.019	0.015
Total Ammonia (lb/day)	0.085	0.093	0.077
Total Dissolved Solids (mg/l)	2620	3000	1700
Total Nitrogen (mg/l)	3.82	4.80	3.04
pH (Standard Units)	7.17	7.55	6.89
Total Petroleum Hydrocarbons (mg/l)	<0.4	0.33	<0.34

Receiving Water Characteristics:

The dewatering system discharges into a Clark County stormdrain inlet, which eventually discharges to the Upper Las Vegas Wash. Water quality standards for the Upper Las Vegas Wash are specified in NAC 445A.199. The requirements to maintain existing higher quality waters apply.

Proposed Effluent Limitations and Special Conditions:

The following effluent limitations and special conditions are proposed for the permit renewal:

Table I.A

PARAMETERS	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Total Combined Flow (gallons/day)	M & R	50,000	Continuous	Flow meter
Flow (gallons/day) (Each Outfall)	M & R	M & R	Continuous	Flow meter
Total Petroleum Hydrocarbons ⁽²⁾ (mg/l) (Each Outfall)	---	1.0	Quarterly	Discrete
Total Phosphorous as P (lbs/day ⁽¹⁾) (Sum of Both Outfalls)	---	1.0	Quarterly	Discrete
Ammonia as N (lbs/day ⁽¹⁾) (Sum of Both Outfalls)	---	1.0	Quarterly	Discrete
Total Dissolved Solids(lbs/day ⁽¹⁾) (Sum of Both Outfalls)	---	2,000	Quarterly	Discrete
Total Inorganic Nitrogen(mg/l) (Each Outfall)	---	20	Quarterly	Discrete
pH (Standard Units) (Each Outfall)	---	6.5 - 9.0	Quarterly	Discrete
Beryllium, Boron, Cadmium, Lead, Nickel, Selenium (mg/l) (Each Outfall)	---	M & R	Annually Fourth Quarter (Attachment A)	Discrete

- (1) The sum of the discharges must meet the total lbs/day listed in Table I.A. Discharge Monitoring Reports shall reflect both the individual Outfalls and the sum of the two Outfalls. The calculation for reporting each Outfall is: Flow (gpd) ÷ 1,000,000 X Lab Analysis Concentration (mg/l) X 8.34 = pounds per day.
- (2) EPA Method 8015B and EPA Method 8260 B, full range, C6-C40. Summation must meet permit limit

M & R = Monitor and Report

Rationale for Permit Requirements:

The monitoring requirements for the site are consistent with the requirements for maintaining higher water quality, as stated in NAC445A.199. The Permittee is required to continue monitoring discharge to ensure that the receiving water (Upper Las Vegas Wash) is not degraded from groundwater discharge dewatering at the Valley Hospital Medical Center site.

Schedule of Compliance:

The Permittee shall implement and comply with the provisions of the Schedule of Compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications that the Administrator may make in approving the schedule of compliance.

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.

- b. **By MMM DD, 2010**, the Permittee shall submit for review and approval an updated Operations and Maintenance (O&M) Manual for the groundwater collection and discharge facility, prepared in accordance with appropriate sections of NDEP guidance document WTS-2, “*Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant*”.

Procedures for Public Comment:

The Notice of the Division’s intent to issue an NPDES permit authorizing this facility to discharge into the Las Vegas Wash 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 **January 20, 2010 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 renew the proposed NPDES discharge permit for a period of five (5) years

Prepared by: Janine O. Hartley, P.E.
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