

**NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
FACT SHEET**

(pursuant to NAC 445A.236)

Permittee Name: Chevron Texaco
145 S. State College Blvd.
P. O. Box 2292
Brea, CA 92822-2292

Permit Number: NV0023353

Location: Former Chevron Station #9-7753
2450 East Bonanza Road
Corner of Bonanza Road and Eastern Avenue
Las Vegas, NV 89101

Location of Discharge to Stormdrain:

Latitude: 36° 10' 26" N
Longitude: 115° 06' 59" W
Township 20S, Range 61E, Section 35 MDB&M

Drinking Water Protection:

The facility is within the 6000' but outside the 3000' Drinking Water Protection Areas (DWPAs) around two public water supply wells (Sunrise Acres Water Association, Well #1 and Well #2). A Wellhead Protection Area (WHPA) or capture zone has not been established for this area/region. The permitted discharge is to surface water and is not expected to adversely affect any public water supply wells.

Corrective Actions Sites:

There are two other Bureau of Corrective Actions remediation sites within 1 mile of the subject facility. Information on the two sites is listed below. The case officers for the sites have indicated that no adverse effects on the ongoing corrective actions at the listed sites are expected from the subject discharge.

Project ID #	Site Number	Facility Name	Corrective Action Type (Media/Source/Contaminant)
2524	8-0000681	Texaco Station 61-529-0274	Soil and Groundwater/UST/TPH
7015	8-000445	7-Eleven 29662	Groundwater/UST/Gasoline

UST = Underground Storage Tank

TPH = Total Petroleum Hydrocarbons

General:

Chevron Texaco Products Company operated a gasoline service station located at the southwest corner of Bonanza Road and Eastern Avenue in Las Vegas, Clark County, Nevada. Leaking

underground storage tanks (USTs) and ancillary piping have caused the groundwater below the site to be contaminated with hydrocarbon products. The Bureau of Corrective Actions (BCA) has required remediation of the impacted groundwater. The extraction and treatment system is comprised of the following components: a pit well and interceptor trench collect affected groundwater, which is then pumped to two—2,800 gallon polyethylene holding tanks. The fluid is then processed through two bag filters, and then through two activated carbon vessels, each containing 2,000 pounds of activated carbon. The system has a design capacity of 15 gallons per minute (21,600 gallons per day), and will be operated at a rate of approximately 10 gallons per minute. The treated water will be discharged to a stormdrain located at the north side of the site.

The original NPDES permit for discharge of treated groundwater associated with groundwater remediation activities was issued to Chevron Texaco in 2005. From July 2008 through March 2010, the facility has been conducting closure monitoring under the direction of BCA, and discharge from the facility has temporarily halted.

Discharge Flow and Characteristics:

During the period from July 2005 through September 2009, the following flow and water quality analyses were reported:

Parameter	Permit Limit	Average	Maximum	Minimum
Flow (MGD)	0.0216	0.00018	0.00041	0.00001
Total Petroleum Hydrocarbons (mg/l)	1	<0.2	<0.2	<0.2
Benzene (µg/l)	5	<1	<1	<1
Toluene (µg/l)	100	<2	<2	<2
Ethylbenzene (µg/l)	100	<5	<5	<5
Total Xylenes (µg/l)	200	<2	<2	<2
Methyl Tertiary Butyl Ether (MTBE) (µg/l)	20	<3	<3	<3
Total Inorganic Nitrogen (mg/l)	20	0.344	1.2	<0.5
Total Dissolved Solids (mg/l)	1900	3556	4500	2300
Total Phosphorus (pound/day)	1.0	0.63	2.2	0.11
Nitrate as N (mg/l)	M & R	0.18	1.2	<0.1
pH (Standard Units)	6.5-9.0	7.73	8.42	7.17

M & R = Monitor and Report

Receiving Water Characteristics:

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

Proposed Effluent Limitations and Special Conditions:

The proposed sampling point locations, effluent limitations and monitoring requirements are listed below:

Flow: The final discharge totalizing flow meter, located on the second carbon column (C-2) discharge line; and

All Other Parameters: The sampling port located on the C-2 discharge line,

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

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow (MGD)	---	0.0216	Continuous	Flow Meter
Total Petroleum Hydrocarbons (mg/l)	M & R	1	Quarterly	Discrete
Benzene (µg/l)	M & R	5	Quarterly	Discrete
Toluene (µg/l)	M & R	100	Quarterly	Discrete
Ethylbenzene (µg/l)	M & R	100	Quarterly	Discrete
Total Xylenes (µg/l)	M & R	200	Quarterly	Discrete
Methyl Tertiary Butyl Ether (MTBE) (µg/l)	M & R	20	Quarterly	Discrete
Total Dissolved Solids (mg/l)	M & R	M & R	Quarterly	Discrete
pH, (Standard Units)	6.5 - 9.0		Quarterly	Discrete

Where: MGD: Million gallons per day.
 mg/l: Milligrams per liter.
 µg/l: Micrograms per liter.
 M & R: Monitor and Report

Rationale for Permit Requirements:

pH: pH has been set in accordance with water quality standards in the Las Vegas Wash, as stated in NAC445A.199

Volatile Organic Compounds: The flow limit has been set at the Permittee’s request and is within the design capacity of the treatment system. The limits for Benzene, Toluene, Xylene, Ethylbenzene, Methyl Tertiary Butyl Ether (MTBE) and Total Petroleum Hydrocarbon (TPH) have been set at levels previously established by the Division for general use in discharge permits (Memo, “BTXE Limits for Remediation Projects”, 1991).

Temperature: Previously, the permit instituted a limit on change of temperature within the Las Vegas Wash to $\Delta T=0$ °C. After review of the configuration of the stormdrain, the small volume discharged from the facility, and the fact that the discharge commingles with numerous other discharges and stormwater outside the control of the Permittee, NDEP has deemed that discharge under this permit is unlikely to have a measurable effect on the temperature of Las Vegas Wash. For this reason, the requirement to monitor the Las Vegas Wash has been eliminated from this permit renewal.

Total Inorganic Nitrogen and Total Phosphorus: Previously, the discharge limits for the facility were set in accordance with water quality standards in the Las Vegas Wash, as stated in NAC445A.199. Total Phosphorus was limited at de minimus amounts to ensure Total Maximum Daily Load (TMDL) of the Las Vegas Wash for this constituent is not impacted. The Total Inorganic Nitrogen limit was set at the water quality standard of 20 mg/l. During the period from July 2005 through September 2009, the Permittee has demonstrated that the discharge did not exceed Las Vegas Wash water quality standards or permit limits for Total Inorganic Nitrogen and Total Phosphorus. Further, during that period, the concentrations of Total Inorganic Nitrogen and Total Phosphorus have not, and are not expected to, vary significantly. For this reason, NDEP has deemed that the discharge is unlikely to have a significant effect on water quality in the Las Vegas Wash, and these two permit limits have been removed from the proposed renewed permit.

Total Dissolved Solids (TDS): Previously, this permit included a TDS limit of 1900 mg/l or 342.44 pounds per day. The naturally occurring TDS levels in the groundwater exceed the previously imposed limit. Since the original permit renewal, information regarding the Colorado River Basin Salinity Control Forum's policy regarding discharge of intercepted groundwater has come to NDEP's attention. This policy holds that because the naturally occurring groundwater would eventually flow under natural conditions to recharge the Las Vegas Wash, TDS of the discharged intercepted groundwater is exempt from consideration. For this permit renewal, a less stringent permit limit will be imposed, pursuant to 40 CFR 112.44.(l).2.i.B, which states: "Information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and which would have justified the application of a less stringent effluent limitation at the time of permit issuance;". The permit requirement is to Monitor and Report.

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. Within thirty (30) days of the effective date of the permit, the Permittee shall submit an Operations and Maintenance Manual **stamped by a Nevada licensed Professional Engineer** to the Division for review and approval. This document shall include all relevant sampling, maintenance and BMP (good housekeeping) procedures employed during the term of this permit. The O&M Manual shall be submitted for review to the following address:

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

A copy of the final approved O&M Manual shall also be sent to

Nevada Division of Environmental Protection
Bureau of Water Pollution Control
ATTN: Compliance Coordinator
901 S. Stewart Street, Suite 4001
Carson City, Nevada 89706

Procedures for Public Comment:

The Notice of the Division's intent to issue an NPDES permit authorizing this facility to discharge into the stormdrain 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 **MMM DD, 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 issue the proposed NPDES discharge permit for a period of five (5) years

Prepared by: Janine O. Hartley, P.E.
Draft: February, 2010
Final: