

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(Pursuant to NAC 445A.236)

Permittee Name: Diversified Concrete Cutting
59 Coney Island Drive
Sparks, Nevada 89543

Permit Number: NEV2010512

Location: Tahoe Reno Industrial Center
485 London Drive
McCarron, Storey County, Nevada

Township 20N, Range 22E, Sections 34 & 35, MDB&M

Latitude: 39° 33' 41" N
Longitude: 119° 29' 36" W

Wellhead Protection

The lined slurry ponds are not within any established wellhead protection zone for a public water supply well. Additionally, the facility is not within the 6000 foot low vulnerability buffer zone of any public water supply well for the region.

General:

Diversified Concrete Cuttings processes the cement slurry waste from concrete cutting operations in California and Nevada. The company proposes to haul the slurry waste generated from the cuttings into two double lined ponds located in the Reno Tahoe Industrial Center in Storey County. After allowing the slurry to settle and dry, the dried cement mixture will be removed from the pond and taken to an approved recycling facility for concrete formulation.

The proposed permit will require the operation of the two lined ponds in a manner that will not impact groundwater or surface waters. The approved design for the ponds is for two 35,000 gallon double lined ponds with an interstitial media for leak collection and detection. A four-inch layer of Class II aggregate base will be bed on four inches of sand and sit atop primary liner. The liner design includes two 60 mil thick HDPE liners with a uniform sand media serving as the interstitial media. Perforated PVC drain pipe will collect seepage from the primary (upper) liner and transmit to a sump for removal. An allowable leakage limit of 33 GPD is set for the primary liner. This limit is based on the Division guidance of 500 gpd/acre for lined wastewater ponds.

If the liner leakage rate is exceeded, a plan for taking the pond off-line and repairing the leaks will be implemented per the permit. The construction of two lined ponds will facilitate taking a pond out of service in a timely fashion.

Receiving Water Characteristics:

Groundwater below the site is estimated to be around 20 feet below ground and is of potable (drinking) quality. The Truckee River flows about 200 feet north of the ponds.

Because this is a permit for zero discharge, there shall be no permitted release to any waters of the State or U.S. If a significant failure of the double liner system at either pond was to occur, the pond will be taken offline for repairs and groundwater monitoring wells will be installed to assess any impacts to the groundwater.

Effluent Flow and Characteristics:

The concrete slurry will enter the ponds as a viscous liquid and will dry up via evaporation. The loading volume will be based on maintaining a two foot freeboard in the four foot deep pond at all times. The chemical characteristic of the slurry as it enters the pond was based on a September 1, 2010 sample collected of the cuttings slurry by the applicant and is summarized below:

PARAMETER	CONCENTRATION IN SLURRY MG/L	PROFILE ONE STANDARD MG/L
Lead	ND @ 0.1 mg/l	0.015
Cadmium	ND @ 0.1 mg/l	0.005
Chromium	ND @ 0.1 mg/l	0.1
Barium	0.9	2.0
Silver	ND @ 0.1 mg/l	0.1
Selenium	ND @ 0.5 mg/l	0.05
Arsenic	ND @ 0.1 mg/l	0.01

The requirement for a double liner with leak detection is predicated on the potential of elevated metals that are anticipated to be in the pond wastewater that may exceed the profile one standards. None of these results meet the RCRA standards for hazardous waste.

Proposed Effluent Limitations and Special Conditions:

NDEP proposes the following permit limitations and monitoring requirements:

TABLE ONE: Pond Limitations

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	30 Day Average	Daily Maximum	Sample Location(s)	Measurement Frequency	Sample Type
Influent Volume of hauled slurry (Gallons)	M & R ¹	M & R	Influent to Pond 1 and 2	Continuously	Haul Volume ²
As, Ba, Cd, Cr, Pb, Ag, Se	M & R		Truck Tank	Quarterly	TCLP on Slurry from haul truck
Pond Freeboard	Two Feet Minimum		Pond 1 and 2	Weekly	Gage
Solids Removed (cubic yards)	M & R		Pond 1 and 2	Monthly	Haul Volume ²
Allowable Primary Liner Leakage Rate	33 GPD per pond (500 GPD/Acre)		Leak Detection Sump for Pond 1 and Pond 2	Monthly	Calculation
Chromium VI (mg/l)	M & R		Both Pond 1 and 2	Monthly	Discrete
Total Chromium (mg/l)	M & R		Both Pond 1 and 2	Monthly	Discrete

TABLE ONE: Pond Limitations continued:

Cadmium (mg/l)	M & R	Both Pond 1 and 2	Monthly	Discrete
Lead (mg/l)	M & R	Both Pond 1 and 2	Monthly	Discrete
Barium (mg/l)	M & R	Both Pond 1 and 2	Monthly	Discrete
Nickel (mg/l)	M & R	Both Pond 1 and 2	Monthly	Discrete
Copper (mg/l)	M & R	Both Pond 1 and 2	Monthly	Discrete
Vanadium (mg/l)	M & R	Both Pond 1 and 2	Monthly	Discrete
Mercury (mg/l)	M & R	Both Pond 1 and 2	Monthly	Discrete
Sulfate (mg/l)	M & R	Both Pond 1 and 2	Monthly	Discrete
TDS (mg/l)	M & R	Both Pond 1 and 2	Monthly	Discrete
pH (S.U.)	M & R	Both Pond 1 and 2	Monthly	Discrete
Oil and Grease (mg/l)	M & R	Both Pond 1 and 2	Monthly	Discrete

¹ M & R =Monitor and Report

² Haul Volume is the total volume of slurry discharged to each pond over a given month and or the total volume of dried sludge removed from the pond to a permitted recycling facility.

Any additional sampling and monitoring of the discharge to the ponds shall be reported pursuant to Part I.B.1.d. of this permit.

gpd: gallons per day

MGD: million gallons per day

S.U.: standard units

M&R: monitor and report

Schedule of Compliance

1. The Permittee shall achieve compliance with the effluent limitations upon issuance of this permit.
2. By **March 1, 2011**, the Permittee shall submit an Operation and Maintenance Plan for the facility.

Rationale for Permit Requirements

The permit limitations and monitoring requirements proposed by this permit are consistent with requirements to protect groundwater quality via a zero discharge permit.

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwaters of the State of Nevada subject to the conditions contained within the permit is being sent to the **Reno Gazette Journal** for publication. The notice is also 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 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator. The deadline at the Division for the receipt of all comments pertaining to this public notice period is **5:00 PM, January 14, 2011**

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 permit for a period of five (5) years.

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