NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: Pulte Homes 8345 West Sunset Road Las Vegas, Nevada 89113

Permit Number: NEV2008510

Description of Discharge Treated Effluent Reuse for Irrigation, Construction Use and Dust Control

Location: Conestoga Golf Course at Anthem Mesquite Mesquite, Clark County, Nevada

Sec. 1: Part all Quarters	Township 13 South	Range 70 East	Mt Diablo Base & Meridian	
Sec. 6: Part NW4, Part-SW4	Township 13 South	Range 71 East	Mt Diablo Base & Meridian	
FEATURE	LAT (d m s)	LON (d m s)	LAT (decimal °)	LON (decimal °)
Conestoga Golf Course Pump Station	36° 50' 33.66" N	114° 06' 53.58" W	36.8426833°	-114.1148833°

<u>Characteristics</u>: The Mesquite Wastewater Treatment Facility (MWTF) [NEV40011] will provide tertiary treated, denitrified, disinfected effluent reuse water to the 18-hole Conestoga Golf Course (Conestoga GC) at Anthem, via the adjoining Oasis Golf Course (Oasis GC), for irrigation of 101 acres of fairway, tees, greens and driving range turf grasses and other landscape plant materials. The MWTF effluent is first delivered to the Oasis GC where the effluent is blended with Virgin River "ditch" water in the effluent storage pond at Oasis GC; once blended it is conveyed via pump station and force main to the 40 mil PVC lined, aerated effluent storage lake at Conestoga GC. Effluent is also approved for construction uses and dust control on site. Effluent irrigation is controlled remotely via an onsite weather station program which automatically controls the Rainbird WS-PRO–Sh System field satellite controllers used for irrigation. All reuse activities are to be conducted in accordance with the approved Effluent Management Plan, and permit conditions.

Flow: 0.990 MGD 30-Day Average Flow 900 Acre Feet per year

Reuse Water Quality supplied by the City of Mesquite Wastewater Treatment Plant (NEV40011):

CBOD ₅ :	30 mg/l 30-Day average; 45 mg/l Daily Maximum
TSS:	30 mg/l 30-day average; 45 mg/l Daily Maximum
Total Coliform (cfu, mpn ¹)	2.2/100 ml 30 day average, 23/100 ml daily max.
Total Nitrogen - N:	<10 mg/L
Nitrate - N:	Monitor & Report
pH	Between 6.0 and 9.0 SU
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¹ cfu = colony forming unit mpn = most probable number

General: The applicant intends to reuse tertiary treated, denitrified and disinfected reuse water provided by the City of Mesquite Wastewater Treatment Facility. Application of the reuse water will be via spray irrigation on the golf course and via drip irrigation on ornamental plant materials in accordance with the permit conditions and the Effluent Management Plan (EMP).

The golf course also has a total of six potable water decorative lakes, two large and four small which are designed to flow one into another, with the water pumped back up to the upper lake from the lower lake, to cascade back down into each lower lake.

The Conestoga Golf Course and residential development of Anthem at Mesquite is located in the northern city limits of the City of Mesquite. Geologically in this area, the mesa has been strongly dissected by erosion. Spectacular colors, Pulte, Conestoga Golf Course [Reuse NEV40011] NEV2008510 [Reuse NEV40012] DRAFT FACT SHEET: Pg 1 of 2

shapes and landforms are characteristic of the setting, as are other landforms at adjacent golf course properties.

<u>Receiving Water Characteristics</u>: Depth to groundwater in the area varies with elevation. A new municipal supply well proximal to Pulsipher Wash, lies several thousand feet southwest of the southwest margin of the Conestoga Golf Course, at an elevation which is several hundred feet lower than the golf course (elevations vary with location), and is screened at about 110', the static groundwater level. There is a thick clay confining layer above the water table which may cause artesian pressures. Water quality is good, with TDS in the 300 to 500 mg/l range. No adverse effects are expected to occur as a result of this effluent reuse.

Schedule of Compliance and Special Conditions

A final Effluent Management Plan (EMP) shall be submitted to the Division within 60 days of permit issuance. The Permittee shall provide a copy of the final Division approved EMP to the City of Mesquite Public Works Department. There are no special conditions.

Rationale for Permit Requirements

Required parameters are monitored to ensure effluent reuse requirements are maintained (NAC 445A.275, 445A.276) and groundwaters of the State are protected.

Proposed Determination

The Division has made the tentative determination to issue the proposed permit for a period of five (5) years.

Procedures for Public Comment:

The Notice of the Division's intent to issue the permit authorizing the facility to discharge to the groundwater 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 the NDP-BWPC 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 publication of the public notice. All comments must be received by 5:00 pm local time on March 20, 2009. 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 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.

Prepared by: E. Samuel Stegeman, P.E. January 2009

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