



FACT SHEET

(Pursuant to NAC 445A.874)

Permittee Name: Truckee Meadows Water Authority
 Permittee Address: 1355 Capital Blvd. Reno, Nevada 89520
 Project Name: South Truckee Meadows ASR Program - Basin 87
 Permit Number: UNEV2015200
 Injection Wells (#): Fourteen (14)
 Well Subclass: 5R33
 Type of Project: Aquifer Storage & Recovery Permit Action: Permit Modification

A. Description of Injection well

Location: Sections 8, 18, 19, 25 and 30 T.18N., R20E., and Sections 23, 24, and 26 T.18N., R19E.MDB&M Washoe County, Nevada.

Well Construction:

Well Name/No.	Total Depth	Screen Interval	Water Levels (2015)	Proposed Rate - gpm
Double Diamond 3	400'	210' - 390'	10'	150
STMGID 1	530'	260' - 520'	144'	900
STMGID 2	515'	255' - 505'	174'	350
STMGID 3	590'	240' - 580'	223'	900
STMGID 4	831'	700' - 831'	543'	1500
STMGID 5	760'	400' - 460', 480' - 750'	377'	3000
STMGID 6	650'	250' - 380', 400' - 640'	189'	2500
STMGID 11	720'	380' - 560', 580' - 680'	237'	900
STMGID 12	665'	265' - 320', 415'-495', 535'-655'	310'	2500
Arrowcreek 1	765'	320' - 370', 390' - 500'	289'	1200
Arrowcreek 2	610'	260' - 400', 420' - 600'	189'	650
Arrowcreek 3	705'	440' - 560', 580' - 700'	551'	1250
Picollo	362'	130' - 230', 250' - 350'	75'	300
Thomas Creek	690'	459' - 591', 601' - 686'	371'	1000

Injectate Characteristics: All injectate will be surface water treated through TMWA's drinking water treatment plants and municipal water distribution system; some pumped ground water may be in distribution system during the injection cycle. Proposed rates will be 400 - 800 gpm. The TDS of the injectate ranges from 140 mg/l, chloride = 11 mg/l, sulfate = 23 mg/l, magnesium = 4.9 mg/l, sodium = 20 mg/l; and meets all drinking water standards for the constituents tested.

Receiving Water Characteristics: For STMGID 1, STMGID 2, and STMGID 11 wells, the quality of the receiving groundwater aquifer meets all drinking water standards and has ranges of: TDS of 150-210 mg/l and pH of 7.8-8.2. Other values include arsenic = 0.0028-0.0047 mg/l, sulfate = 2.5-8.5 mg/l, Chloride = 1.1-24 mg/l, fluoride = ND, sodium = 7.1-17 mg/l, iron 0.021-0.20 mg/l, and nitrate as NO₃ = 0.62-0.83 mg/l, magnesium = 8.7-13 mg/l.

Wellhead Protection Areas

All wells are municipal water well is a water supply well, thus this well has its own protection area.

Y Injection well/Facility within a 2-, 5-, or 10-year ground water protection area

Y Injection well/Facility within 7000-foot buffer zone for any public water supply well

B. Synopsis of Project

The project area is located in the South Reno between Foothill Road on north and Mt. Rose Hwy on the south, Hwy I-580 on east and Carson Range on west. TMWA is requesting an increase from five (5) wells permitted earlier this year to fourteen (14) existing production wells for recharge purposes. These wells will be produced in the dry months and recharged in the wet months. The purpose of TMWA's aquifer storage and recovery (ASR) program is to store water that is extracted from the Truckee River, treated at the drinking water treatment plant, and conveyed via the distribution system. Injection periods will vary depending on system demand and weather, but will usually operate from October through April. Injection rates will occur at the rates shown above in the table.

Assuming only treated surface water (vs groundwater) is injected, the closest chlorine treatment point would be at the Chalk Bluff Treatment Facility.

C. Proposed Effluent Limitations and Special Conditions

Refer to Part I.A of the permit.

E. Rationale for Permit Requirements

The permit conditions will help to ensure that the injectate does not adversely affect the existing water quality or hydrologic groundwater regime. Verification will be performed to ensure that injected fluid quality remains constant and meets drinking water standards. In particular, NDEP is concerned recharge projects do not create chlorinated organics in the ground water due to the chlorination treatment of injected water.

E. Proposed Determination

The Division has made the tentative determination to issue the permit.

F. Procedures for Public Comment

The Notice of the Division's intent to renew the permit authorizing the facility to discharge to the ground water of the State of Nevada subject to the conditions contained within the permit, was sent to the *Reno Gazette-Journal* newspaper for publication no later than September 10, 2015. The notice is being sent 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. All written comments received during the comment period will be retained and considered in the final determination. 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. 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 will 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.

Prepared by: Russ Land

Date: September 10, 2015