



State of Utah

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Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF DRINKING WATER
Kenneth H. Bousfield, P.E.
Director

February 21, 2013

Evan D. Miller
Powder Mountain Ski Resort
P.O. Box 270
Eden, UT 84310

Dear Mr. Miller:

Subject: **Plan Approval**, Well Drilling, Summit Well (WS006),
System #29028, File #9225

On January 29, 2013, the Division of Drinking Water (the Division) received the plans and specifications for the subject project from George W. Cond rat, P.E., P.G., of Loughlin Water Associates LLC, a consultant working for the Summit Group. The Summit Group is planning to develop recreational home and condo lots in the Powder Mountain Ski Resort.

We understand that this project consists of drilling a well, named the Summit Well and identified as WS006 in the Division's database, to provide drinking water to the new proposed development. The proposed well is anticipated to be drilled with a 19-inch minimum borehole and a 14-inch casing to a depth of approximately 1300 feet. If necessary, the bore hole may be continued to a depth as far as 1800 feet with a 12.25 inch bore hole and an 8-inch slotted liner casing installed. It is anticipated that the pump test for the finished well will be performed at 500 gpm. There are no wells of this size in the immediate area. It has been proposed to drill a 6-inch test hole first to evaluate the potential of the well site.

We have completed our review of the plans and specifications, stamped and signed by George W. Cond rat, P.E., P.G., and William D. Loughlin P.G., and dated January 28, 2013, and found they basically comply with the applicable portions of *Utah's Administrative Rules for Public Drinking Water Systems*. On this basis, **the plans for the drilling the Summit Well (WS006) are hereby approved**. This approval pertains to well drilling, development, aquifer testing, and disinfection of Summit Well (WS006) only. Please be aware that discharge permits may be required by Utah Division of Water Quality for discharges generated during well drilling and aquifer drawdown test.

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We have also reviewed the Preliminary Evaluation Report (PER) submitted for your Summit Well. The Division of Drinking Water **concurs** with this report. **This PER must be refined and a complete Drinking Water Source Protection Plan submitted within one year of the date of this letter.** Refer to R309-600-13(6) and R309-600-7(1). In order to be considered as producing from a protected aquifer, the Summit Well must be grouted as described in section 2.6 of the PER. Refer to R309-600-6(1)(x).

This new source may not be introduced into the public water system until documentation is submitted demonstrating that all applicable materials have been submitted to Weber County as required in section 41-4 of the Weber County Zoning Ordinance Chapter 41, and you receive written concurrence from the Division of Drinking Water. Refer to R309-600-13(2)(d). The documentation of coverage under the ordinance may be submitted to the Division before the DWSP Plan is due.

After drilling is completed, you are required to submit additional information outlined in *R309-515-6(5)(b)* and *(c)* for review, and **obtain an approval for equipping this well and constructing discharge piping and infrastructure necessary for introducing the well water into the distribution system.** An Operating Permit must be obtained from the Director before the Summit Well (WS006) may be put in service. A checklist outlining the well approval process, including the items required for well equipping and operating permit, is enclosed for your information.

The Summit Well is referenced as WS006 in our inventory. Please label the well water sample collected for new source chemical analysis with your water system number UTAH29028 and WS006 (for both the facility ID and sample point ID) on all laboratory forms for each individual source. This will ensure proper identification and entry of the new source chemical analysis results in our database.

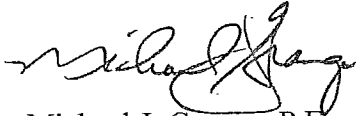
Approvals or permits by local authority or county may be necessary before beginning construction of this project. As the project proceeds, notice of any changes in the approved design, as well as any change affecting the quantity or quality of the delivered water, must be submitted to the Division. We may also conduct interim and final inspections of this project. Please notify us when actual construction begins so that these inspections can be scheduled.

Project approval must be renewed if construction has not begun or if substantial materials have not been ordered within one year of the date of this letter.

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If you have any questions regarding this letter, please contact Bob Hart, of this office, at (801) 536-0054, or Ying-Ying Macauley, Engineering Section Manager, of this office, at (801) 536-4188.

Sincerely,



Michael J. Grange, P.E.
Program Manager

REH

Enclosure — Well Approval Checklist

cc: Louis Cooper, Env. Director, Weber-Morgan Health Dept., lcooper@co.weber.ut.us
George W. Condrat, P.E., P.G., 3100 W. Pinebrook Road, #1100, Park City, UT 84098
John Reeve, Reeve and Associates Inc., 920 Chambers St, #14, Ogden, UT 84403
Sean Wilkinson, Weber County Planning, 2380 Washington Blvd., #240, Ogden, UT 84401
Russ Watts, Summit Group, 5200 South Highland Drive, Salt Lake City, UT 84117
Ryan Cathey, NV5, 5217 S. State Street, #300, Murray, UT 84107
Kate Johnson, Division of Drinking Water, katej@utah.gov
Jim Martin, Division of Drinking Water, jhmartin@utah.gov
Bob Hart, Division of Drinking Water, bhart@utah.gov

DDW-2012-010712

DIVISION OF DRINKING WATER
Checklist for New Public Drinking Water Wells

System Name: _____ System Number: _____

Well Name & Description: _____

1. Approval to Drill the Well

- Project Notification Form
- Preliminary Evaluation Report (PER) concurrence
- Well drilling specifications and plans
- Valid Start Card or authorization to drill letter from the Division of Water Rights

2. Approval to Equip the Well

- Project Notification Form
- Well location data
- Certification of well seal
- Well driller's report (well log)
- Aquifer drawdown test results (step drawdown test & constant-rate test) for well yield determination
- Chemical analyses of the well water
- Plans and specifications for equipping the well
 - Pump information (e.g., pump specifications, pump curve & operating point, motor information, etc.)
 - Well head discharge piping
 - Well house design

3. Operating Permit to Introduce the Well Water

- Documentation of valid water right(s)
- Design engineer's statement of conformance with approval conditions
- Design engineer's statement of conformance with the Rule for any deviation from the plan approval
- Evidence of O&M manual delivery
- As-built drawings
- Recorded land use agreements or documentation that the requirements for coverage under the City/County source protection ordinance have been met
- Satisfactory bacteriological results