



State of Utah

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Department of  
Environmental Quality

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*Executive Director*

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

February 18, 2014

Rob Thomas  
General Manager  
Wolf Creek Water and Sewer Improvement District  
P.O. Box 658  
Eden, UT 84310

Dear Mr. Thomas:

Subject: **Plan Approval**, The Ridge Subdivision Phase 1, System #29013, File #9577

On January 31, 2014, the Division of Drinking Water (the Division) received the plans for The Ridge Subdivision Phase 1 from you on behalf of the Wolf Creek Water and Sewer Improvement District (WCWSID). This project will be reviewed with the standard specifications for the construction of drinking water facilities for WCWSID that was submitted to the Division on May 13, 2009, and amended on February 24, 2010 by Gardner Engineering.

Our understanding of the project is the installation of 280 feet of 8-inch ductile iron pipe to serve Phase 1 of The Ridge Subdivision. Phase 1 consists of two buildings with four units each for a total of 8 connections. The Ridge will consist of ten buildings with four units each that will be installed over several phases.

Included with the information submitted on January 31, 2014, is your letter stating that WCWSID is moving forward with a request for proposal to engineering firms to do a master plan for the drinking water system, the secondary irrigation water system, and the sewer system of WCWSID. Included in the master plan will be a hydraulic model of the drinking water system meeting the hydraulic modeling requirements in drinking water rule *R-309-511*. However, it may take up to a year to complete the master plan and hydraulic model. You requested that the Director of the Division of Drinking Water not require a hydraulic model for The Ridge Subdivision Phase 1 since the 8 connections with this project will have a negligible hydraulic impact on the WCWSID, which currently serves 957 active connections and is committed to serve 1378 connections. The Division issued a feasibility letter for WCWSID, dated January 16, 2014, that estimates WCWSID has the capacity to serve 209 additional ERCs over the 1378 committed connections with the present infrastructure. Therefore, under drinking water rule *R309-511-4(1)(i)(G)*, a hydraulic model is not required for The Ridge Subdivision Phase 1 because the Director has determined it

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will have a negligible hydraulic impact and WCWSID is in the process of doing a hydraulic model for the entire system.

We have completed our review of the plans and specifications, stamped and signed by Ryan A. Christensen, P.E., of Gardner Engineering and dated January 31, 2014, and find they basically comply with the applicable portions of Utah's Administrative Rules for Public Drinking Water Systems in R309. On this basis, **the plans for The Ridge Subdivision Phase 1 are hereby approved.**

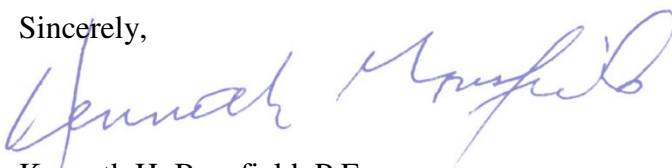
This approval pertains to construction only. **An operating permit must be obtained from the Director before drinking water lines in The Ridge Subdivision Phase 1 may be put in service.** A checklist outlining the items required for operating permit issuance is enclosed for your information.

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.

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

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,



Kenneth H. Bousfield, P.E.  
Director

REH

Enclosure — Operating Permit Checklist

cc: Louis Cooper, Env. Director, Weber-Morgan Health Department, [lcooper@co.weber.ut.us](mailto:lcooper@co.weber.ut.us)  
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## Division of Drinking Water Checklist for Issuing Operating Permits

Water System Name: \_\_\_\_\_ System Number: \_\_\_\_\_

Project Description: \_\_\_\_\_ File Number: \_\_\_\_\_

The following items must be submitted and found to be acceptable for operating permit issuance with the exception of distribution lines without booster pumps and/or pressure-reducing valves.

*[Waterline projects without booster pumps and/or pressure-reducing valves may be placed into service prior to submittal of all items or the Division's issuance of an operating permit if: (1) the water system has officially designated a professional engineer (P.E.) responsible for the entire water system; and, (2) if this designated P.E. has received a "Certification of Rule Conformance" statement issued by a P.E. and evidence of satisfactory bacteriological sample result. In this case, a public water system will submit all items needed for obtaining an operating permit for each distribution system project even after the new waterlines have been placed into service as determined by the water system's designated P.E.]*

- Utah Registered Engineer's Certification of Rule Conformance that all conditions of plan approval (including conditions set forth by the Division Director in any conditional approval letter) have been accomplished
- Utah Registered Engineer's statement of what plan changes, if any, were necessary during construction and a Certification of Rule Conformance that all of these changes were in accordance with applicable Utah Administrative Code, *R309-500 through R309-550, Drinking Water Facility, Construction, Design, and Operation Rules*
- As-built drawings have been received at the Division (unless no changes were made to the previously submitted and approved pre-construction drawings)
- Confirmation that the record drawings have been received by the water system (unless no changes were made to the previously submitted and approved pre-construction drawings)
- Evidence of proper flushing and disinfection in accordance with the appropriate ANSI/AWWA Standards
  - ANSI/AWWA C651-05 AWWA Standard for Disinfecting Water Mains
    - Two consecutive sample sets (each 1200 feet, end-of-line, each branch, etc.), none positive, at least 24 hours apart
  - ANSI/AWWA C652-02 AWWA Standard for Disinfection of Water-Storage Facilities
    - One or more samples, none positive
  - ANSI/AWWA C653-03 AWWA Standard for Disinfection of Water Treatment Plants
    - Two consecutive samples per unit, none positive, no less than 30 minutes apart
  - ANSI/AWWA C654-03 AWWA Standard for Disinfection of Wells
    - Two consecutive samples, none positive, no less than 30 minutes apart
- Water quality data, where appropriate *[Guidance: Include appropriate raw and finished water data that demonstrate the performance of the new treatment facility. Storage tank water should be analyzed for residual volatile organic compounds after tank interior painting or coating.]*
- Confirmation that the water system owner has received the O&M manual for the new facility
- Location data of new storage tank, treatment facility, or source, if applicable