

STATE OF COLORADO

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Colorado Department
of Public Health
and Environment

March 28, 2014

Michael Dower, Board Representative
River Glen Homeowners Association
P.O. Box 1251
Berthoud, CO 80513

Subject: Final Plans and Specifications for Construction Approval
Site Location Approval No.: ES.12.45229
River Glen Homeowners Association, Lift Station and Force Main
Associated Colorado Discharge Permit System (CDPS) No. CO-0046663 Berthoud Wastewater
Treatment Facility; Larimer County
ES Project No. ES.1.CWPDR.00583, GLU Project No. 100006W

Dear Mr. Dower:

The Water Quality Control Division (Division), Engineering Section has received and reviewed the Plans and Specifications for the River Glen Lift Station and Force Main project. The final plans and specifications, as reviewed, meet the requirements of the *State of Colorado Design Criteria for Domestic Wastewater Treatment Works* (WPC-DR-1) and is hereby approved as listed below. **The approved maximum month and peak hour hydraulic are 0.031 MGD and 0.115 MGD, respectively.**

This approval addresses the following:

- Decommission River Glen Lagoon Wastewater Treatment Plant.
- River Glen WWTF influent lift station to remain however will be reconfigured to convey wastewater to the Berthoud Wastewater Treatment Facility. River Glen Lift Station Modifications:
 - Two (2), one duty, one standby, submersible grinder pumps (Design Basis: Hydromatic Model HPGHH750M3-2) equipped with constant speed motors.
 - Each pump rated for 80 gpm at 110 feet total dynamic head (TDH). Pumps to be installed in existing wet well
 - Installation includes associated discharge piping (Design Basis: Stainless steel pipe and fittings)
 - Pumps operate in lead/lag arrangement
 - Wet well levels controlled by level transducer to control lead/lag operation and high water alarm
 - Operating capacity of the wet well as determined by the lead “pump on” set point (elev. 4975.30 feet) and the “pumps off” set point (elev. 4974.30 feet) shall be approximately 211 gallons.
 - Secondary wet well high level and low level alarms controlled by weighted float level switches
 - Pumps to be mounted to 2” guide rail system
 - Remote alarm via SCADA at the Berthoud WWTF
 - Local alarm via siren and flashing light

- One (1) 8-foot by 5-foot precast concrete valve vault structure
 - Two (2) check valves and two (2) plug valves
 - One (1) mag meter (Design Basis: Rosemount Type 1250)
- Force main
 - Approximately 5,910 lineal feet of new 4-inch HDPE followed by approximately 65 lineal feet of 8-inch PVC and HDPE force main before discharge into the existing Dry Creek Interceptor.
- Diesel engine generator (Design Basis: Cummins/Onan or Generac, 40 kW)
 - Automatic transfer switch

Conditions of Approval:

1. The existing River Glen HOA's wastewater treatment plant shall be decommissioned when the Lift Station and new forcemain become operational. All biosolids and/or waste materials must be removed, managed, and/or disposed of in accordance with local, state, and federal regulations. Following proper disposal of waste materials and decommissioning of the facility, the permittee must request termination from their Colorado Discharge Permit System permit.
2. **Upon completion of construction and prior to commencement of operation**, a written certification must be submitted to the Division stating that the project facilities were built in accordance with the approved plans, specifications, and change orders. The certification must be signed by the applicant's registered engineer.
3. Any change orders or addenda that change facility capacity, water quality, or processes, must be submitted to this office for review and approval.
4. When construction is estimated to be within 14 days of completion, please notify this office. A representative of this department may schedule a site visit to conduct a final construction inspection before the facility commences operations.
5. Please note that during construction and operation activities, the provisions specified in WPC-DR-1 Sections 2.2.0, 2.3.17 and 2.3.18, must be implemented and followed. This review does not relieve the owner from compliance with all Federal, State, and local regulations and requirements prior to construction nor from responsibility for proper engineering, construction, and operation of the facility.
6. No point source discharges of water and/or contaminants from this facility to the waters of the state are authorized during construction unless a permit for such discharges has been issued by the Division. If you have any questions regarding permit issues or requirements, please contact the Permits Section at 303-692-3510.
7. The approval of this project is based on the above referenced conditions and upon the engineering design submitted to the Division for pumping wastewater to the Berthoud WWTF located in Larimer County.
8. The Project Manual must include the most current (3/20/2014) State Revolving Fund boilerplate specs. You may obtain the most current document on our website at:
<http://www.colorado.gov/cs/Satellite?blobcol=urldata&blobheadername1=Content-Disposition&blobheadername2=Content-Type&blobheadervalue1=inline%3B+filename%3D%22Colorado+Boilerplate+Specifications+for+State+Revolving+Fund+%28SRF%29+Loan+Projects+%283-20-14%29.pdf%22&blobheadervalue2=application%2Fpdf&blobkey=id&blobtable=MungoBlobs&blobwhere=1251955500573&ssbinary=true>

9. The following documents should be submitted to the Water Quality Control Division, Grants and Loans Unit Project Manager, as identified below:
 - A copy of the executed engineering contract
 - A certified tabulation of all bids received
 - Proof of advertising indicating circulation dates and time for receipt of bids
 - A copy of the executed construction contract and schedule. Please note that the contractor must maintain adequate fire and extended coverage, workman's compensation, public liability, property damage and "all risk" builders insurance (including blasting where appropriate) during the construction phase of the contract.
 - Submit all completed forms required to comply with the Davis-Bacon Act as provide in the State of Colorado Boilerplate Specifications document. Please note that to comply with the Davis Bacon Act, the wage determination decision number must be referenced in the bid documents and contract. Please reference the State of Colorado Boilerplate Specifications for wage lock in rules. If you have any question regarding compliance with the Davis-Bacon Act, please contact Matthew Stearns at matthew.stearns@state.co.us or 303-692-4064.
 - If your project is receiving Federal funds, submit all completed forms required to comply with the Disadvantaged Business Enterprise (DBE) requirements. Please contact your GLU Project Manager to determine if you are responsible for complying with the DBE Requirements.
 - Any change orders or addenda that relates to the SRF funded project must be submitted to this office for review and approval.
 - When the facility/project is estimated to be within 30 days of completion, this office must be notified. A representative of the Division will schedule a site visit to conduct a final construction inspection.
10. If the loan recipient has not already done so, a properly noticed public meeting will be required. The meeting will need to be noticed at least 30 days prior to the scheduled meeting date, and should include a discussion of project alternatives, the preferred alternative, any projected rate increases, and construction related and/or environmental impacts of the project. Please submit a copy of the newspaper notice, minutes from the meeting, and a responsiveness summary. Also, please include a sign-up sheet to record any citizens who attend.
11. A pre-construction conference must be held prior to initiating construction to discuss prevailing wage rates (Davis-Bacon), progress payments, change order procedures, progress meetings and compliance with Federal and State regulations e.g., Civil Rights (Title VI), Equal Employment Opportunity, Occupations Safety and Health Administration, National Historic Preservation Act and all associated reporting requirements. Please contact your Grants and Loans Unit Project Manager at your earliest convenience regarding their attendance and suggested agenda.
12. Failure to submit these documents may delay processing pay requests. Please direct any questions regarding the above required submittals to:

Louanna Cruz
Colorado Department of Public Health and Environment
Water Quality Control Division, Grants and Loans Unit
4300 Cherry Creek Drive South – B-2
Denver, CO 80246-1530
EMAIL: louanna.cruz@state.co.us (GLU Project Manager)

Documents reviewed:

- Site Application/Site Application Amendment for River Glen Homeowners Association by JVA Consulting Engineers dated June 2013.
- Basis of Design Report for River Glen Homeowners Association by JVA Consulting Engineers dated December 2013.

- Final Plans and Specifications for River Glen Homeowners Association by JVA Consulting Engineers dated March 2014.
- Miscellaneous correspondence.

In accordance with the current Operators Certification Board Regulations, this facility is required to be under the control of a Class 2 Wastewater Collection System Certified Operator.

The Engineering Section is interested in gaining feedback about your experience during the engineering review process. We would appreciate your time to complete a Quality-of-Service Survey regarding your experience during the engineering review process leading up to issuance of this decision letter. The Engineering Section will use your responses and comments to identify strengths, target areas for improvement, and evaluate process improvements to better serve your needs. Please take a moment to fill out our survey at the following website: <http://fs8.formsite.com/cohealth/form627710151/index.html>.

If you should have any questions please contact Emily Becker by phone at 303-692-3566 or by electronic mail at emily.becker@state.co.us.

Sincerely,

Emily Becker, P.E.
Senior Review Engineer
Engineering Section
Water Quality Control Division
Colorado Department of Public Health and Environment

cc: Kevin Tone, JVA Consulting Engineers
Leanne Miller, JVA Engineering
Michael J.Hart, Town of Berthoud
Ed Schemm, Larimer County Environmental Health
Matthew Lafferty, Larimer County Planning
Warren Mesloh, NFRWQPA
Amy Zimmerman, WQCD ES Engineering Review Unit, Unit Manager
Louanna Cruz, WQCD Grants and Loans Unit Project Manager
Site Application File/Berthoud WWTF Discharge Permit File (CO-0046663)/River Glen HOA WWTF Discharge Permit File (CO-0029742)