



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

601 Pole Line Road, Suite 2 • Twin Falls, Idaho 83301-3035 • (208) 736-2190

Dirk Kempthorne, Governor
Toni Hardesty, Director

September 19, 2005

RECEIVED

SEP 20 2006

Department of Water Resources
Southern Region

Mr. Chuck Brockway, Jr.
Brockway Engineering
2016 N. Washington St. Suite 4
Twin Falls, ID 83301

Re: Public Water System Well Site Evaluation; **Approval of Proposed Croy Creek Subdivision PUD well sites (Correction)**

Dear Chuck:

It appears from our well site investigation conducted on September 9th, 2005 that the four proposed Croy Creek Ranch PUD well lots (designated as the Northeast, Northwest, Southeast, and Southwest sites), appear to comply with current state of Idaho public drinking water well setback requirements.

Please be aware of the following public water well setback requirements:

- Constructed public water sources must be located at least: **fifty (50) feet** from all non-water system owned property boundaries, storm water drainage swells, fuel tanks, chemical holding tanks, surface water, ditches, livestock, irrigation canals, non-potable mains and other potential sources of contamination; be **one-hundred (100) feet** from standard subsurface disposal fields, storm water ponds, seepage pits, septic tanks and privies; and be between **one-hundred fifty (150) feet** and **three-hundred (300) feet** from Large Soil Absorption Systems (LSAS), depending on wastewater characteristics and on-site soil conditions.
- Public water sources must be located on well lots that are dedicated to the public water system, and no other structures except those necessary for the water system operation may be constructed or located within **fifty (50) feet** without prior departmental approval.
- The finished ground surface elevation surrounding the well must continually slope away from the finished well head in order to prevent surface water "ponding" near the public source.
- Chemicals including fertilizers, pesticides, herbicides and other non-NSF approved chemicals may not be applied or stored within **fifty (50)-feet** of the public water source.
- If the well head is placed where it may be susceptible to physical damage, three adequately sized and placed concrete bollards must be constructed around the well head.

Monitoring for chemical, radiological, and biological contaminants, as well as sand production during the test pump, will need to be conducted before the well is allowed to supply water to the public.

If the well source does not have the necessary yield and is abandoned, abandonment must be done in accordance with Idaho Department of Water Resources (IDWR) rules and regulations in order to reduce the potential for entry of contaminants into the source water aquifer.

The Surface Water Rule states that a determination of surface water influence on ground water sources be conducted in accordance with criteria established by the state. State policy requires an evaluation of surface water influence on ground water sources located less than five hundred (500) feet from a surface water source. If surface water exists within five hundred (500) feet of the proposed well lot, a ground water under the direct influence (GWUDI) evaluation and Micro-Particulate Analysis (MPA) will be necessary upon completion of the well source, and prior to operation and service to the public.

There is the potential for some contamination of the shallow water aquifer in the area around the well. Proper well construction and sealing will help prevent this water from entering the well and prevent contamination, which may require that source water be treated prior to use.

All public water systems must have an approved water right which must be secured prior to construction of production wells. At this time, we would like to recommend that the Idaho Department of Water Resources (IDWR) be contacted and the necessary water right approvals be obtained, if not already done so.

DEQ respectfully requests that well construction design plans and specifications be submitted to this office and to the Twin Falls Regional IDWR office for review and approval prior to construction. Upon completion of the well source, our office would like to be contacted so that we may collect GPS information and affix a water source identification tag to the well head.

If you have any questions, please do not hesitate to contact me at 736-2190.

Sincerely,



R. Chad Chorney
Regional Drinking Water Program Coordinator, DEQ-TFRO

c: ~~_____~~ IDWR, Twin Falls Regional Office
John Bokor, Regional Drinking Water Protection Coordinator, DEQ-TFRO
Brian Reed, Staff Engineer, DEQ-TFRO