



STATE OF
COLORADO

Ebert - DNR, Jared <jared.ebert@state.co.us>

Signal Reservoir No.1, 111c application, M-2017-013

Comaniciu - DNR, Ioana <ioana.comaniciu@state.co.us>

Mon, Jun 11, 2018 at 10:29 AM

To: Jared Ebert - DNR <jared.ebert@state.co.us>

Cc: "Brucker, Sarah" <sarah.brucker@state.co.us>

Good Morning Jared,

Attached is the State Engineer's comment letter on the proposed Signal Reservoir No. 1 Expansion, M2017-013.
Sincerely,

Ioana Comaniciu, P.E.
Water Resources Engineer



COLORADO

Division of Water Resources

Department of Natural Resources

P 303-866-3581 x 8246

1313 Sherman St., Suite 818, Denver, CO 80203

ioana.comaniciu@state.co.us | www.water.state.co.us

----- Forwarded message -----

From: **Brucker - DNR, Sarah** <sarah.brucker@state.co.us>

Date: Fri, May 25, 2018 at 2:51 PM

Subject: Fwd: Signal Reservoir No.1, 111c application, M-2017-013

To: Ioana Comaniciu <ioana.comaniciu@state.co.us>

Hi Ioana,

Could you respond to Jared, since I am guessing this would be in the Denver Basin? Thanks!

Sarah Brucker, P.E.
Water Resources Engineer



COLORADO

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Department of Natural Resources

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Signal Reservoir No. 1 Expansion.pdf

118K



DATE: June 11, 2018
TO: Jared L. Ebert, Environmental Protection Specialist
CC: Division 1 Office, District 2 Water Commissioner
FROM: Ioana Comaniciu, P.E.
RE: Signal Reservoir No. 1 Expansion, File No. M-2017-013
Operator: Todd Creek Metropolitan District
Contact: Don Summers, (303) 637-0344
Section 4, Twp 1 South, Rng 67 West, 6th P.M., Adams County

CONDITIONS FOR APPROVAL

- ☒ The proposed operation will potentially consume ground water by: ☒ evaporation, ☒ dust control, ☒ dewatering ☒ water removed in the mined product:
Prior to initiation of these uses of ground water, the applicant will need to obtain either a gravel pit or other type of well permit, as applicable. However, prior to obtaining a permit, an approved water supply plan or decreed plan for augmentation is required.
- ☒ Prior to approving a well permit, the applicant must conduct a field inspection of the site and document the locations of all wells within 600 feet of the permit area. The applicant must then obtain a waiver of objection from all well owners with wells within 600 feet of the permit area or request a hearing before the State Engineer.

COMMENTS: The Signal Reservoir No. 1 (WDID 0203939) was originally constructed in 1890 and decreed by the District Court of the City and County of Denver in case no. CA60052, for the purpose of storing water for irrigation purposes. The expansion of Signal Reservoir No. 1 was conditionally decreed by the Division 1 Water Court in case no. 2013CW3181. The proposed expansion will deepen the reservoir by excavating approximately 40 feet of inert clay material and bedrock from the bottom of the reservoir and establishing a pump station for distribution of stored water. The affected land area is approximately 29.72 acres and is located entirely within the footprint of the existing reservoir.

The mining plan calls for excavation of approximately 1.5 million cubic yards of material. Seventeen monitoring holes ranging in depth from 25 feet to 40 feet were drilled within and immediately adjacent to the area to be excavated. Groundwater was encountered in five of the seventeen holes at depths between 22 feet to 38 feet. Mining will be accomplished by dry-mining method. As construction advances a sump will be constructed at the lowest point to collect water resulting from precipitation or groundwater encountered during the expansion operation. As needed the water accumulated in the sump will be pumped into the Signal Reservoir No. 2 owned by the Applicant to maintain dry working conditions in the Signal Reservoir No. 1 excavation operation. Water to be used to control dust during construction will be drawn from either the Signal Reservoir No. 2 or the Marcus Reservoir owned by the Applicant and located adjacent to the proposed excavation.

In the event that ground water is exposed at the site during the expansion operation, as mentioned above prior to the use/exposure of any ground water the applicant must first obtain a well permit and a substitute



water supply plan or decreed plan for augmentation. In addition the Applicant must ensure that the water stored in Signal Reservoir No. 2 is decreed for industrial use and can be used for dust control at the site. Furthermore the proposed expansion operation will not qualify the reservoir for storage if the expansion occurs below ground water level. **Therefore in order for the reservoir to be approved for water storage the operator must line the reservoir and perform a liner leak test in accordance with the August 1999 State Engineer Guidelines for Lining Criteria for Gravel Pits (1999 SEO Guidelines) once mining is complete and the site is at final grade.**

Any storm water runoff intercepted by this operation that is not diverted or captured in priority must infiltrate into the ground or be released to the stream system within 72 hours. Otherwise, the operator will be required to make replacements for evaporation.

The applicant may contact the State Engineer's Office with any questions.