

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, Jul 2, 2018 at 9:21 AM

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

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

Good Morning Jared,

Thank you for your email. Note that on June 20, 2018 I received a request for an SWSP and a well permit application for the Signal Reservoir proposed expansion. I have not reviewed the SWSP yet and in fact we have to wait 35-days to ensure not objection to the SWSP is received. As far as the liner if the excavation exposes ground water then a liner is required to be installed unless Todd Creek demonstrates (after the excavation is complete) that a liner is necessary because of the low permeability of the soil/bedrock. Todd Creek satisfied DWR concerns regarding the SWSP and the well permit however at this point I cannot determine that the reservoir will meet our standards for lining criteria and qualifies for storage. This determination will be made after the excavation is complete and Todd Creek demonstrates then that a liner is not necessary.

I hope this answered your question.

Best Regards,

Ioana Comaniciu, P.E.
Water Resources Engineer



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On Mon, Jul 2, 2018 at 7:54 AM, Ebert - DNR, Jared <jared.ebert@state.co.us> wrote:

Good morning Ioana,

Todd Creek Village Metro. District responded to my last adequacy review letter for the proposed application. They commit to obtaining a well permit and augmentation plan prior to exposing groundwater. They provide documentation the final subsurface material of the reservoir will be liner grade material so they do not need to physically install a liner system and they indicate they will comply with the SEO's liner guidelines.

I did identify one discrepancy in their letter where they indicated they would need to install a liner after they had already made the statement that a liner would not need to be installed. I believe this was a typographical error on their part. Does this satisfy the DWR's concerns?

Please let me know if you have any questions.

Thanks,

Jared

On Wed, Jun 20, 2018 at 5:03 AM, Jared Ebert - DNR <jared.ebert@state.co.us> wrote:

Yes, it does. Thank you.

On Tue, Jun 19, 2018, 5:47 PM Comaniciu - DNR, Ioana <ioana.comaniciu@state.co.us> wrote:

Hello Jared,

Unless proven that the water encountered during the excavation comes from Signal Reservoir No. 2, the water exposed during excavation is considered to be ground water and therefore a SWSP and a well permit is required. I was contacted by Gina Burke from Jehn Water Consultants and she indicated that a SWSP is in the works for the Todd Creek's Signal Reservoir No. 1. I hope this answers your question.
Best Regards,

Ioana Comaniciu, P.E.
Water Resources Engineer



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On Tue, Jun 19, 2018 at 4:00 PM, Ebert - DNR, Jared <jared.ebert@state.co.us> wrote:
Hello Ioana,

TCVMD (applicant) has indicated that they do not believe a well permit or SWSP/Augmentation plan will be needed. But they commit to getting them if needed. Based on the information they provided it appears they may encounter water as a result of perched/trapped conditions on top of bedrock and/or fractures/fissures within the bedrock formation. They go further to say the majority of this water is seepage from the Signal 2 reservoir located upstream of the Signal 1 reservoir. I am not sure how to verify what the source of the water is and if it matters.

Is my understanding correct, if they encounter water in the excavation (regardless of source) and it is not obvious precipitation water, they will need to get a well permit and substitute water supply plan or augmentation plan?

Thanks,

On Mon, Jun 11, 2018 at 10:29 AM, Comaniciu - DNR, Ioana <ioana.comaniciu@state.co.us> wrote:
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



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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



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From: **Ebert - DNR, Jared** <jared.ebert@state.co.us>
Date: Fri, May 25, 2018 at 2:07 PM
Subject: Signal Reservoir No.1, 111c application, M-2017-013
To: "Brucker - DNR, Sarah" <sarah.brucker@state.co.us>

Hello Sarah,

I have a proposed site in Adams County, the Signal Reservoir No.1 Expansion (M-2017-013). The plan is to deepen an existing reservoir. They did some subsurface evaluations and found that they encountered water at depths between 22 and 38 feet in only 5 of 17 sample holes. They attribute this to either perched/trapped conditions on top of bedrock and/or fractures/fissures within the bedrock formation.

In this case would they need to get a well permit and SWSP?

Thanks,

Jared

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Jared Ebert

Environmental Protection Specialist III



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