

Jordan, Blake

From: Jason Helms [jasoncivil@alumni.nd.edu]
Sent: Monday, December 16, 2013 6:54 AM
To: Jordan, Blake
Subject: Re: Additional information for Transfer 29-2523
Attachments: Transfer_29-2523_JCH-Lagtimereport_12162013.pdf

Hi Blake,

Attached report detailing my calculation and including an additional ESPA analysis with the single trimester time-lag incorporated. Based on my calculations and results, the pumping reduction already proposed by the transfer is adequate to maintain impacts within 10% of historical calculated impacts. Give me a call if you have any questions or need any additional information.

Thanks,
Jason

On Mon, Dec 2, 2013 at 7:51 AM, Jordan, Blake <Blake.Jordan@idwr.idaho.gov> wrote:

Hi Jason,

No problem. We will be looking to receive your report on the 16th of December?

Blake

From: Jason Helms [mailto:jasoncivil@alumni.nd.edu]
Sent: Wednesday, November 27, 2013 3:28 PM
To: Jordan, Blake
Subject: Fwd: Additional information for Transfer 29-2523

Blake,

Forward without the attachment but rather a link to where I found it since that is likely what failed the delivery according to postmaster@idwr.idaho.gov.

http://www.idwr.idaho.gov/WaterInformation/Publications/wib/wib16-water_res_portneuf_basin_id.pdf

Jason

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

From: **Jason Helms** <jasoncivil@alumni.nd.edu>
Date: Wed, Nov 27, 2013 at 3:05 PM
Subject: Additional information for Transfer 29-2523
To: Blake Jordan <Blake.Jordan@idwr.idaho.gov>

Blake,

I have been unable to complete a report regarding the lag time for water use change between the existing place of use and the City of Chubbuck. I would like to request an additional 2 weeks to complete.

Based on information I have reviewed so far, it appears the ground water at the current place of use is at a much higher elevation than the surface water in Marsh Creek to the southwest and so ground water unpumped at the current POD must feed Marsh Creek surface flows. Marsh Creek moves slowly and is generally a gaining stream until it enters the Inkom valley where it becomes perched after joining the Portneuf River. Based on the limited information available I believe the hydraulic impacts although extremely complex within the Marsh Creek Valley become fully realized in the ESPA within a year or two following cessation of pumping at the current place of use (likely on the order of a few months to fully feed Marsh Creek surface flows and additional days for the surface water to travel into the gap and then perhaps months for the water to pass as surface water and fully percolate as ground water through the gap). Chemical constituent data from the attached report (page 42) confirms similar water quality characteristics between the ground water in the area of the existing place of use and the surface water and ground water flowing through the Portneuf gap into the ESPA near Pocatello and appears to be essentially the same water with limited temporal separation.

I will be able to better quantify a specific time range for the lag if you can allow some additional time to put the information together into a letter report.

Let me know your thoughts,

Thanks,

Jason C. Helms, P.E.

JCH Engineering & Consulting, PLLC

[\(208\) 308-2109](tel:(208)308-2109)

Jordan, Blake

From: Jordan, Blake
Sent: Friday, November 01, 2013 11:37 AM
To: Jason Helms
Cc: delkohtzidwc@mindspring.com
Subject: Application for Transfer 29-2523

Jason,

I have finished reviewing Idaho Water Company's transfer application for water right 29-2523. Before we can continue to process the application we need some additional information.

The point of diversion for water right 29-2523 is located approximately 2.5 miles NW of the City of Downey and approximately 30 miles south of the closest active ESPA model cell (which you used for your ground water analysis). The ESPA analysis provided with the transfer used the nearest active model cell to determine potential impacts to the ESPA reaches. According to your analysis changes to the ESPA river reaches are less than two acre-feet per trimester with an initial pumping limitation of 30% during the first year after the transfer. This analysis would be appropriate if the actual point of diversion was located inside or very close to the active ESPA model cell that you used. But the current point of diversion is located approximately 30.0 miles from that active ESPA model cell and your analysis does not appropriately identify the transient impacts to the ESPA river reaches.

The department will allow point of diversion changes to occur between the ESPA modeled area and non-modeled aquifers as long as the non-model aquifer is tributary to the ESPA and as long as the potential impacts to the ESPA river reaches meet the mitigation requirements described in the transfer memo.

According to the transfer memo "An application for transfer proposing to change the point of diversion from one distinct aquifer to a totally separate aquifer is not approvable, just as an application for transfer proposing to change the point of diversion for a surface water right from one distinct surface water source to a totally separate surface water source is not approvable." (pg 27 (8) Changing Aquifer Source).

For the department to continue to process the transfer application, Idaho Water Co must provide information showing that the ground water source described under water right 29-2523 is tributary to the ESPA and must provide a separate analysis estimating the transient impacts to the Snake River reaches associated with changing the point of diversion described under water right 29-2523. If the impacts are greater than the impact limits described in the transfer memo then additional mitigation will be required.

If we don't receive this additional information by December 1st 2013 or if the information that is provided within the time limit is inadequate, we may reject the application and return it.

Let me know if you have any questions

Thanks,

Blake Jordan
Sr. Water Resource Agent
IDWR
(208)525-7161

October 16, 2013

Idaho Department Of Water Resources
Eastern Region
900 North Skyline Drive, Suite A
Idaho Falls, Idaho 83402-1718

Jason C. Helms, P.E.

JCH Engineering & Consulting
6755 N. Albert Lane
Idaho Falls, ID 83401
(208) 308-2109
jasoncivil@alumni.nd.edu

Re: Application For Transfer 29-2523 in the name of Idaho Water Company, LLC

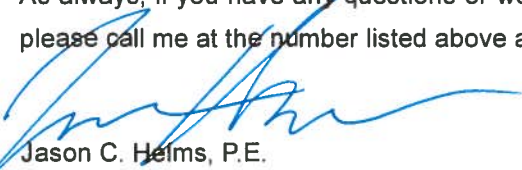
To Whom It May Concern,

Please find attached an application for transfer seeking a change in place of use and point of diversion for a portion of existing water right 29-2523. Essentially, the transfer seeks to move water rights authorizing irrigation of 132.0 acres within Bannock County tributary to the Eastern Snake River Plain Aquifer to the City of Chubbuck municipal water supply system.

An ESPA Transfer spreadsheet analysis was performed, and calculated changes to ESPA river reaches all appear to be less than 2 acre-ft per trimester (transient to steady-state) with an initial pumping reduction limited to 30% of the transferred volume during the first year after transfer. Full details of the ESPA Transfer Spreadsheet simulation and results with the initial pumping reduction are attached.

The listed water right owner is Fay L. Barfuss however I have attached a Personal Representative Deed showing the current owner is actually TeAuna Newton. The applicant is Idaho Water Company, LLC (IDWC) and I have also attached an Option Agreement For Purchase and Sale of Real Property between IDWC and TeAuna Newton demonstrating IDWC has the authority to make the proposed change. I have also attached an Agreement For Purchase and Sale of Water Rights (29-2523) between IDWC and the City of Chubbuck allowing the proposed transfers. This arrangement should allow Idaho Water Company to coordinate with IDWR transfer processing more quickly. Any ownership change will be filed following formal transfer approval and final closing.

As always, if you have any questions or would find any GIS information shown helpful with processing please call me at the number listed above at your convenience. Thanks,



Jason C. Helms, P.E.

cc: Del Kohtz (Idaho Water Company, LLC)
Attachments

- Transfer 29-2523 (2.56 cfs / 462.0 afa / 132.0 ac) to City of Chubbuck
- Idaho Water Company LLC Check #1518 (\$660.⁰⁰)
- ESPA Transfer Spreadsheet Details (Dated 10/07/2013)
- Agreements Allowing Water Right Transfer (3)

RECEIVED

OCT 16 2013

Department of Water Resources
Eastern Region