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DEPARTMENT OF
WATER RESOURCES

March 20, 2012

Mat Weaver, P.E.
Idaho Department of Water Resources
322 East Front Street
P.O. Box 83720
Boise, ID 83720-0098

Subject: *City of Nampa, Well 16 Water Right Licensing
Permit No. 63-33022*

Dear Matt:

You posed several questions concerning the above captioned permit during recent telephone conversations. SPF provided information concerning the pumping capacity of Well 16 in a letter dated February 14, 2012. This letter provides additional information to support licensing of permit 63-33022 for the reasonably anticipated future needs (RAFN) of the City of Nampa. Our response is guided by IDWR's Administrative Memo #63.

Planning Horizon

Permit 63-33022 was issued by IDWR on October 5, 2009. Condition #9 on the permit reads:

This right authorizes the diversion and use of 4.5 cfs for reasonably anticipated future needs for municipal purposes within the City of Nampa service area for a 21-year planning horizon ending December 31, 2030, pursuant to Section 42-202(B), Idaho Code.

As of this date, the City of Nampa's planning horizon remains unchanged, and documentation of the City's RAFN planning process was provided to IDWR by the City's water counsel, Chris Meyer, in a letter dated July 28, 2009, and a letter report submitted by SPF on the same date.

System Capacity

Water right license 63-12543 was previously issued by IDWR authorizing diversion of 4.00 cfs from Well 16. Permit 63-33022 authorizes the additional diversion of 4.50 cfs, thus totaling an authorized diversion rate of 8.50 cfs from Well 16. SPF has provided technical information concerning well construction to support a well capacity of 8.50 cfs (see *Beneficial Use Field Report* dated November 26, 2010, and correspondence dated February 14, 2012). Well 16 was designed and completed to deliver 8.50 cfs for the current and future needs of the City of Nampa.

The City of Nampa has constructed a facility for Well 16 that is capable of treating for aesthetic water quality issues caused by excess iron and manganese, and the presence of hydrogen sulfide. Water supplied by the well can be treated in two 1,500 gpm "cells". The first cell has been installed, and a second bay has been constructed to accept the second 1,500 gpm cell in the future. In addition, the 1,500 gpm capacity of each cell is a nominal design, and could be exceeded during periods of peak demand. A by-pass valve has been installed which can be set to provide up to 1,200 gpm of untreated potable water during periods of peak demand or emergency. Currently, the valve is set to by-pass flows in excess of the 1,500 gpm capacity of the first treatment cell. After future installation of the second cell, the by-pass valve will be set to deliver untreated flows in excess of 3,000 gpm. When the by-pass valve is in use, the system is capable of delivering 2,700 gpm (6 cfs) today and up to 4,200 gpm approximately (9 cfs) after installation of the second treatment cell. A pump upgrade will be necessary to supply these future demands.

Well 16 is currently connected to Nampa's potable water delivery system. It is a two-zone system, and Well 16 was designed to deliver to both zones. The full capacity of Well 16 could currently be delivered in existing mainlines which have been designed to accommodate future expansion of the City's potable water distribution system to the north side of the City.

In summary, the full capacity of Well 16 could currently be delivered through the treatment facility (after installation of the second treatment cell in an existing bay), and the full capacity of Well 16 could currently be delivered through existing mainlines to both zones of the City's potable water supply system. We have attached copies from the mechanical and HVAC plan prepared by CH2M Hill for the treatment facility, and a copy of the valve schedule showing the capacity of the by-pass valve. City staff has noted the locations of the second treatment cell bay and by-pass valve on the plans.

Please contact me with any questions.

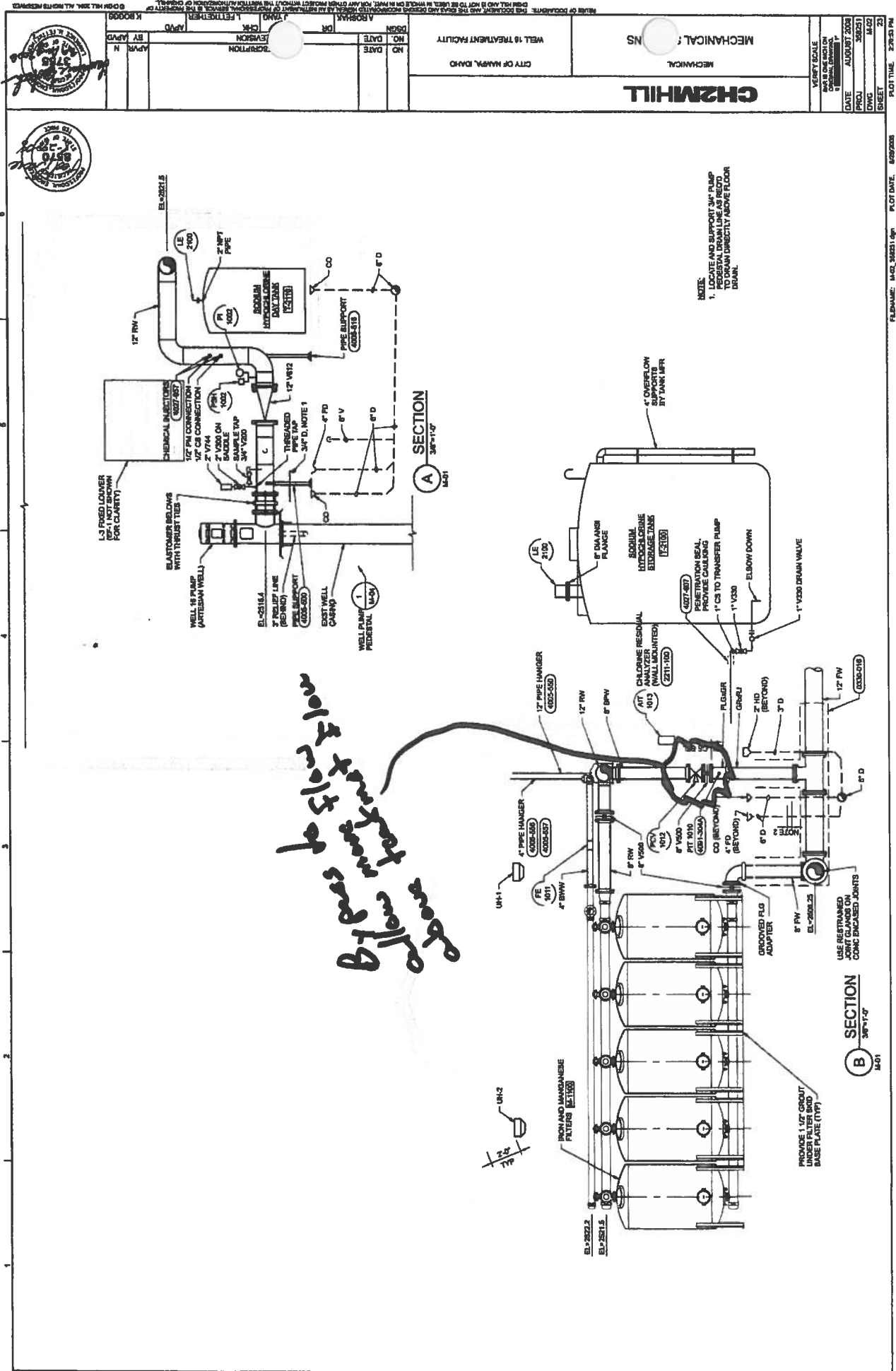
Sincerely,



Roxanne Brown
Senior Water Rights Specialist

cc: Michael Fuss, P.E. – City of Nampa
Chris Meyer – Givens Pursley

File: 270.0070



Self-Regulated Valve Schedule							
Tag No.	Valve Type	Valve Size (in)	Process Fluid	Inlet Pressure (psig)	Outlet Pressure (psig)	Maximum Pressure (psig)	Flow (gpm)
PCV-1012	V714	8	BPW	55-80	4 psi below inlet	100	1200
PCV-2004	V720	1/2	PM	100	55-80	125	<1
PCV-2014	V720	1/2	PM	100	55-80	125	<1
PCV-2114	V722	1/2	CS	NA	55-80	125	<1
PCV-2124	V723	1/2	CS	NA	55-80	125	<1
PCV-1007	V732	3	RW	150	0	150	2000