

MEMORANDUM

Date: September 21, 2015

To: Permit 63-33698

From: Steven Visosky

Re: Second field exam and use of available surface water

On 09-17-2015, IDWR staff was requested by the Church of Jesus Christ of Latter-Day Saints, Eagle ID FM Group (the permit holder of permit 63-33698) to perform a second field exam for licensing purposes. This field exam was requested to verify the use of existing available surface water for irrigation at the place of use for permit 63-33698.

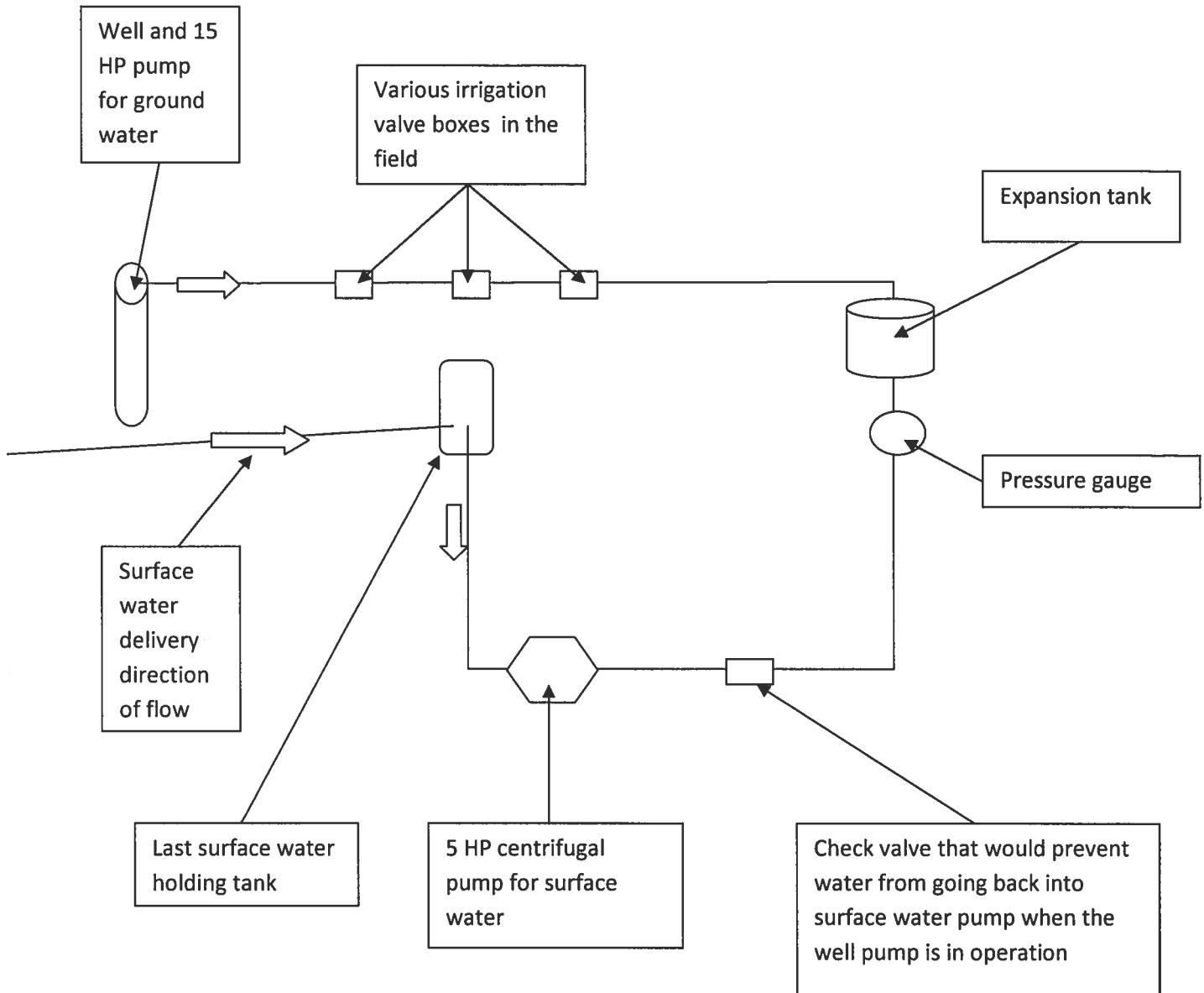
On 09-21-2015, IDWR staff members Steven Visosky and Dan Nelson visited the property and met with Rob Buchanan, the facilities manager of the property. Rob and his pump technician "Michael", demonstrated how their irrigation system utilized the surface water that was being delivered on that date. This canal surface water was being delivered by Nampa and Meridian Irrigation District.

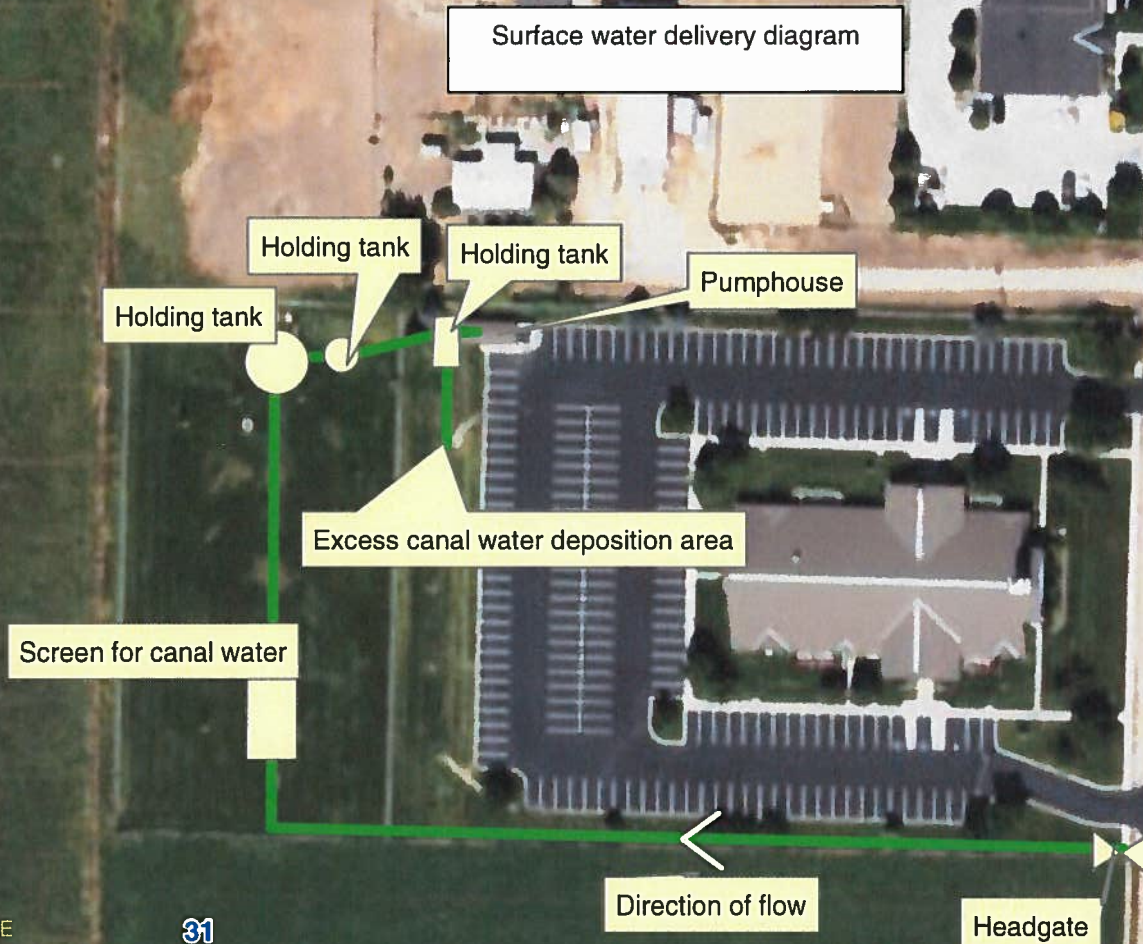
Water was first diverted from a headgate along N. Locust Grove Rd. in the south east corner of the property. From this diversion, water passed through a screen box in the back west lawn to filter debris. Water would then pass through two 1,000 gallon holding tanks and then into a smaller holding tank near the pumphouse. Water was then pumped from this smaller holding tank by a 5 HP centrifugal pump located inside the pumphouse. This pump was tied into the mainline of the irrigation system with a 2" metal pipe with a check valve. The pressure in the mainline at the time of the exam was 55 PSI. This 55PSI reading was less than the 72 PSI demonstrated on the first field exam which could be explained by the difference in pump sizes (surface water pump is 5.0 HP and ground water pump is 15 HP). The same zone of irrigation was used for demonstrational purposes on the 07-28-2015 and the 09-21-2015 field exams. The irrigation system appeared to operate the zone of irrigation with the same 28 sprinklers with only a slight decrease in pressure utilizing the surface water compared to the groundwater as a source.

In conclusion, IDWR staff has verified the use of available surface for irrigation purposes at the place of use for permit 63-33698 on 09-21-2015. With this verification, all the conditions of approval for permit 63-33698 have been met.

Irrigation System Diagram

Permit 63-33698





Permit 63-33698
By Steven Visosky

Green Line is location of the canal delivery line that is burried.

Rob Buchanan described the surface water delivery system. When surface water is delivered, it first comes into a diversion box along N. Locust Drive. The water then travels to a screen box on the west side of the property that has a series of screens for filtering the canal water. The canal water then travels to the north side of the property and into two 1000 gallon holding tanks. Water then travels towards the pumphouse and is discharged into another holding tank. It is from this third holding tank that the water is drawn from for pumping into the irrigation system. The supply line from the holding tank to the pumphouse is a 2" metal pipe. Water is pumped through a 5HP pump and into a 2" metal pipe that is tied into the mainline of the irrigation system. There is a check valve on the 2" metal pipe that prevents water from being pumped backwards into the 5HP pump when the groundwater pump is in operation. Any excess water in the last holding tank that is not used for the irrigation system overflows into a pipe in the last holding tank and is diverted into a large depression area on the west side of the parking lot . Currently the large depression area was being maintained as manicured lawn.

PHOTOGRAPHER AND DATE OF PHOTOS - Steven Visosky 9/21/15
FILE NUMBER 63-33698

**Please note that the date on the photos is not correct. All pictures taken for this second exam were taken on 9/21/15.



Headgate box that diverts surface water to the church property. This is the south east corner of the property.



The filter box that filters the canal surface water before it goes into the holding tanks.

PHOTOGRAPHER AND DATE OF PHOTOS - Steven Visosky 9/21/15
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Looking in the filter box where water passes through a series of screens. Water was flowing through the screen box at the time of our field exam

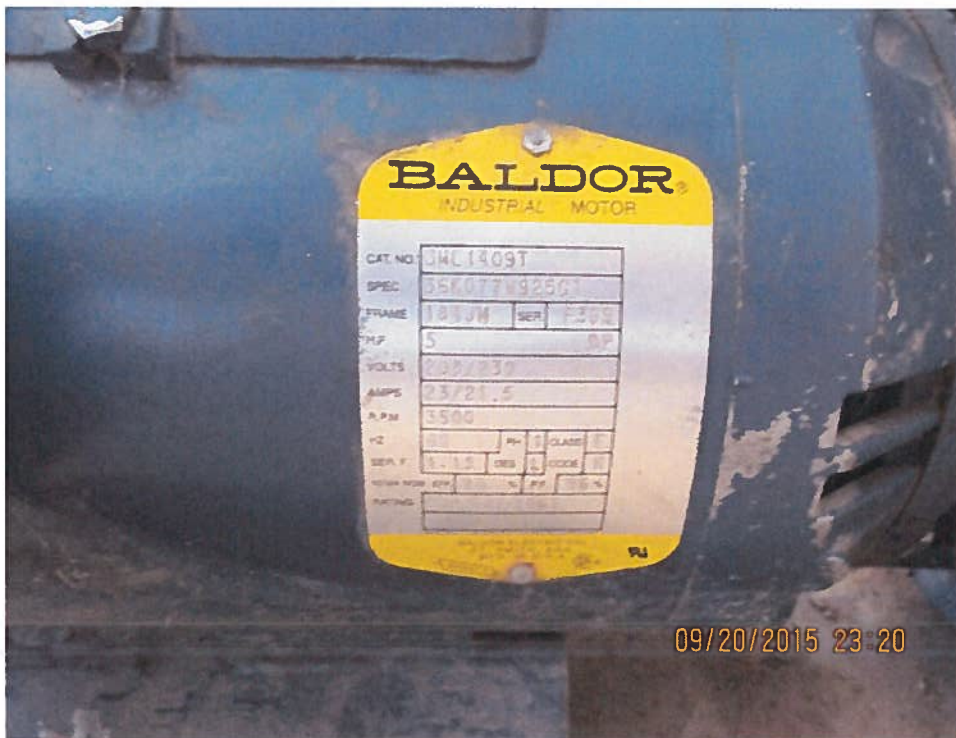


Pressure during the exam using the surface water with the above ground pump was 55PSI according to the gauge on the system.

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The pump
information;
STA-RITE
Industries – self
priming
centrifugal
Model DHJ-170
Serial 1D99J



Pump motor
info; Baldor
Industrial
Motor 5HP Cat
No. JWL1409T
Serial # F399

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A view from inside the pump house. Water is pumped in from the holding tank outside the pumphouse, into the above ground pump, and is tied to the mainline with the pressure tank and pressure gauge.



A view of the intake line from the holding tank going into the pump inside the pumphouse.

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The holding tank where canal water is stored and diverted into the intake line for the above ground pump. Any excess water flowing into this holding tank overflows into a large depression area behind the parking lot.

THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

RECEIVED

SEP 17 2015

DEPARTMENT OF
WATER RESOURCES

EAGLE ID FM GROUP
P.O. Box 609
Eagle, Idaho 83616-0609
Phone: 208-939-2108
Facsimile: 208-939-2445

Sept. 17, 2015

Idaho Dept. of Water Resources
Boise, Idaho

Subject: 2nd Field Exam Fee for LDS Church at 3451 N. Locust Grove,
Meridian, Idaho

Enclosed is a check for the \$100 fee to have Steven Visosky do a 2nd
field exam at the above property.

Sincerely,

A handwritten signature in black ink, appearing to read "Rob Buchanan", with a stylized flourish at the end.

Rob Buchanan
Facilities Manager
Eagle ID FM Group