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WATER RESOURCES
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August 20, 2018

Angela Grimm
Idaho Department of Water Resources
Western Region Office
2735 Airport Way
Boise, ID 83705-5082

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AUG 24 2018

DEPARTMENT OF
WATER RESOURCES

Re: Beneficial Use Field Report – Permit No. 63-34259

Dear Angie,

On behalf of Moonlake Ranch Owners' Association (the OA), we are pleased to submit the enclosed *Beneficial Use Field Report*. SPF completed its examination of the water right permit in 2017 at the request of the OA, although proof of application of water to beneficial use is not required until February 1, 2022.

We have attempted on multiple occasions since March 2017 to obtain a signed *Statement of Completion* from the OA with no success. Our project is complete and our files for this project are closed. We respectfully request that our report be added to the water right file for Permit No. 63-34259. Perhaps a request for the required *Statement of Completion* coming from IDWR will be more successful.

We understand this is an unusual request, but we are concerned our field report may be lost in our archived files. Please contact me with any questions.

Best Regards,

A handwritten signature in blue ink, appearing to read "Roxanne".

Roxanne Brown
Sr. Water Rights Specialist

CC: Moonlake Ranch Owners' Association

Enclosures

SPF Job No. 1228.0030

SCANNED
AUG 28 2018

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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AUG 22 2018

WATER RESOURCES
WESTERN REGION**COPY**

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-342591. Owner Moonlake Ranch Owners' Association, Inc.Phone No. (208) 806-8889Current address P.O. Box 810, Star, ID 836692. Examiner's name Alexandra Clark (Examiner No. 156)EXAM DATE March 23, 20173. Accompanied by Christina Bowers

Email _____

Address _____

Relationship to permit holder contact for Moonlake Ranch Owners' Assoc. Phone No. 208-286-73304. Source Groundwater

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use None2. Other water rights with the same source and point of diversion 63-12305**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination/Remarks
Well 3	5		NW	SW	14	4N	1W	Ada	Field Exam, 8/16/2013 Photo (Well 3)

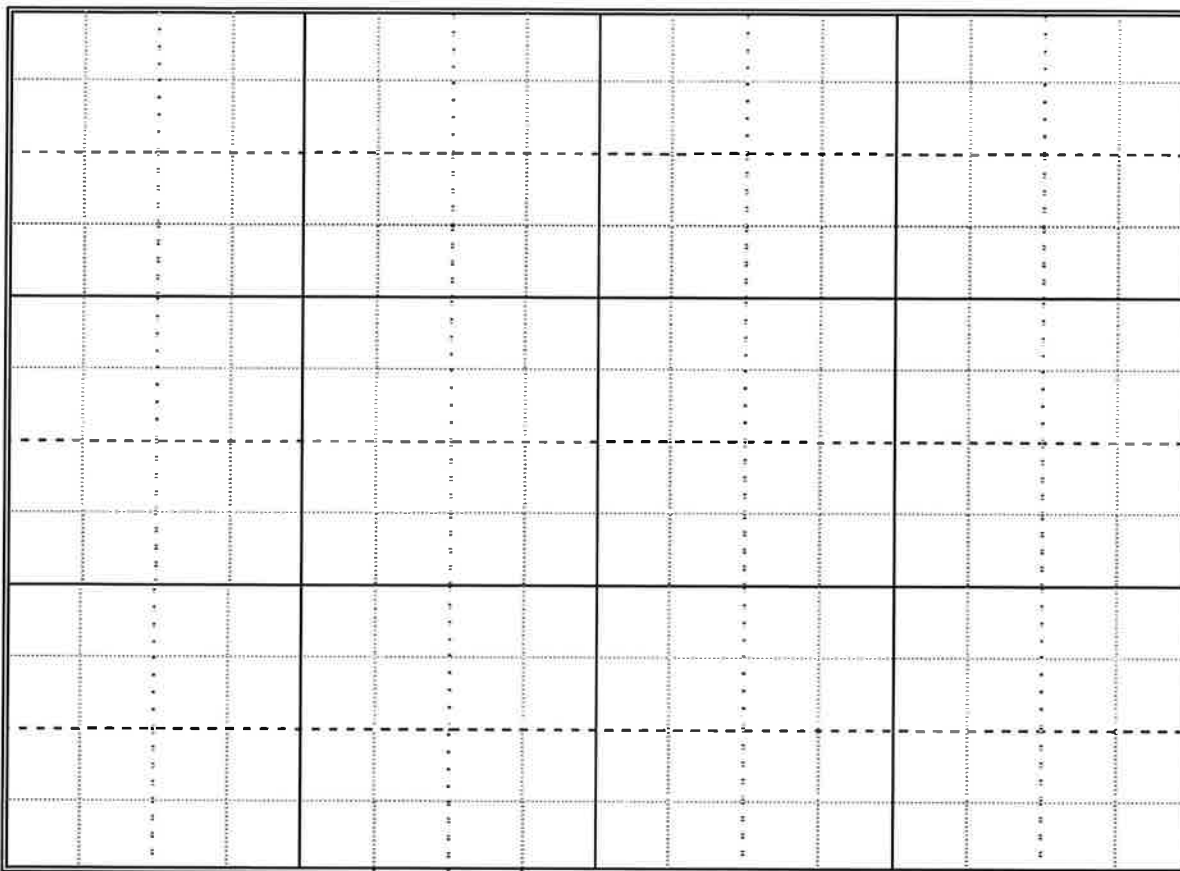
2. Place(s) of Use: Method of determination Field Exam, 8/16/2013 Photo

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4N	1W	14										A							
												L5							

SC 8/16/2013

AUG 28 2018 1

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☒ see attached.



Scale: 1" = _____

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☒ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

topographic map is not illustrative; ponds are shown in aerial image

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well 3	none (artesian)	none	none	none (artesian)	none

*Code to correspond with no. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5-gallon bucket/stopwatch	n/a	n/a	n/a	n/a	5 gallon	3/23/2017

2. **Measurements:** _____

Flow measurement was attempted using an ultrasonic flow meter (Transport PT878); however, a reading could not be taken as the 4-inch discharge pipe was approximately 1/4 to 1/3 full, with the flow valve indicated by Christina Bowers as fully open. Discharge from the end of the pipe was measured over a 10-minute interval using a bucket/stopwatch.

E. NARRATIVE/REMARKS/COMMENTS

An 8-inch diameter artesian well (Artesian Well 3) supplies flow for aesthetic purposes to an existing waterfall feature that discharges to Pond 1. Artesian Well 3 is located on the south side of Pond 1 and on the north side of S. Tranquil Ln. This well was described previously in the beneficial use field report exam for water right 63-12305 performed by IDWR on August 16, 2013. Permit 63-34259 seeks 0.12 cfs between 1/1 and 12/31 based on a measurement taken by IDWR during its August 16, 2013 field exam and historical year-round use in the water feature. The zone of appropriation for Well 3 is 200-245 feet. Caron Pump confirmed the well depth and zone of appropriation on June 27, 2016. No well driller's log was available. The Bowers operate the well for the applicant, which is controlled by a valve shut off. The valve was turned on by Christina Bower on March 23 to full capacity, and the well flowed for the exam. Discharge from the well is through a 4-inch diameter steel pipe immediately to the slope that discharges to the pond. Artesian Well 3 is used to supply flow over the water feature slope under permit 63-34259 and flow to Pond 1 under water right 63-12305. Attachment A is a copy of the permit. Attachment B is a topographical map of the point of diversion and place of use. Attachment C includes photographs of the well and place of use. Attachment D describes flow calculations based on measurements taken on March 23, 2017.

Volume calculation is based on historical year-round use of the well for the water feature, including winter-time use to keep an area of the pond clear of ice for use by water fowl. This does not qualify as a wildlife use; the intent is for beneficial use for aesthetics.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS☒ Additional computation sheets attachedMeasured Method:
See Attachment D.**G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

 $V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____ $V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____ $V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} =$ _____

2. Volume Calculations for Other Uses:

0.08 cfs x 365 days x 1.9835 = 57.9 ac-ft

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
Aesthetic	1/1	12/31	0.08	57.9
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			0.08	57.9

2. Recommended Amendments

- ☐ Change P.D. as reflected on page 1 ☐ Add P.D. as reflected on page 1 ☒ None
☐ Change P.U. as reflected on page 1 ☐ Add P.U. as reflected on page 1 ☐ Other

I. AUTHENTICATIONField Examiner's Signature Alexandra Lynn Clark Date December 6, 2017

Reviewer _____ Date _____



Attachment A - Permit

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-34259

Priority: August 05, 2016

Maximum Diversion Rate: 0.12 CFS

This is to certify, that MOON LAKE RANCH OWNERS ASSN INC
PO BOX 810
STAR ID 83669

has applied for a permit to appropriate water from:

Source: GROUND WATER

and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
AESTHETIC	01/01 to 12/31	0.12 CFS

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER L5 (NW¼SW¼) Sec. 14, Twp 04N, Rge 01W, B.M. ADA County

PLACE OF USE: AESTHETIC

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04N 01W 14											X						
											L5						

CONDITIONS OF APPROVAL

1. Proof of application of water to beneficial use shall be submitted on or before **February 01, 2022**.
2. Subject to all prior water rights.
3. Water bearing zone to be appropriated is 200 to 245 feet.
4. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
5. This right does not grant any right-of-way or easement across the land of another.
6. Aesthetic use is for an existing water feature (waterfall).
7. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.
8. The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.

Signed this 30th day of January, 2017.


Nick Miller
Manager, IDWR Western Region

State of Idaho
Department of Water Resources

Attachment to Permit to Appropriate Water

63-34259

This map depicts the AESTHETIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

01W

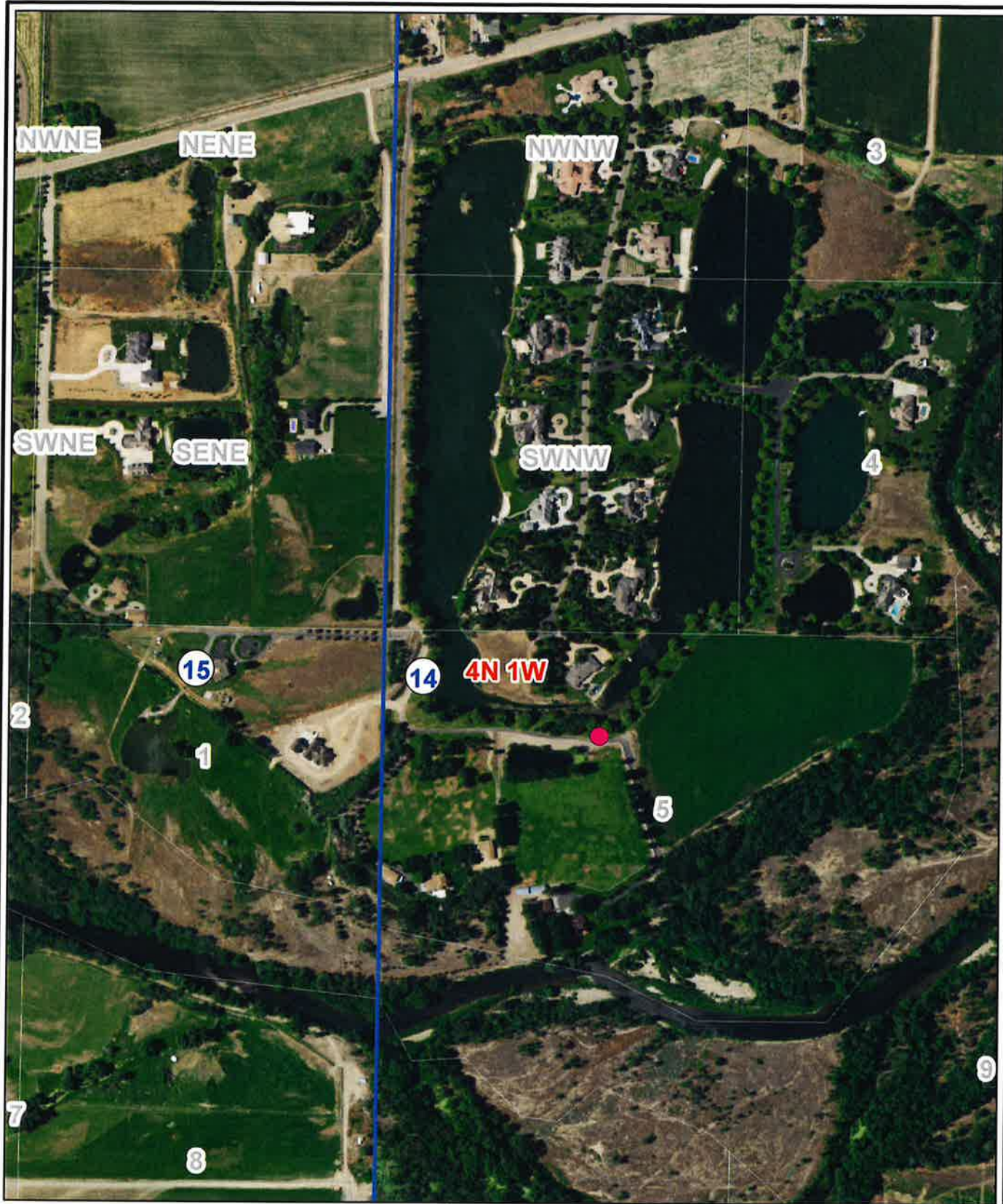


- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections

0 0.035 0.07 0.14 Miles



Attachment B - Map



● Point of Diversion and Place of Use

Permit 63-34259 - Location

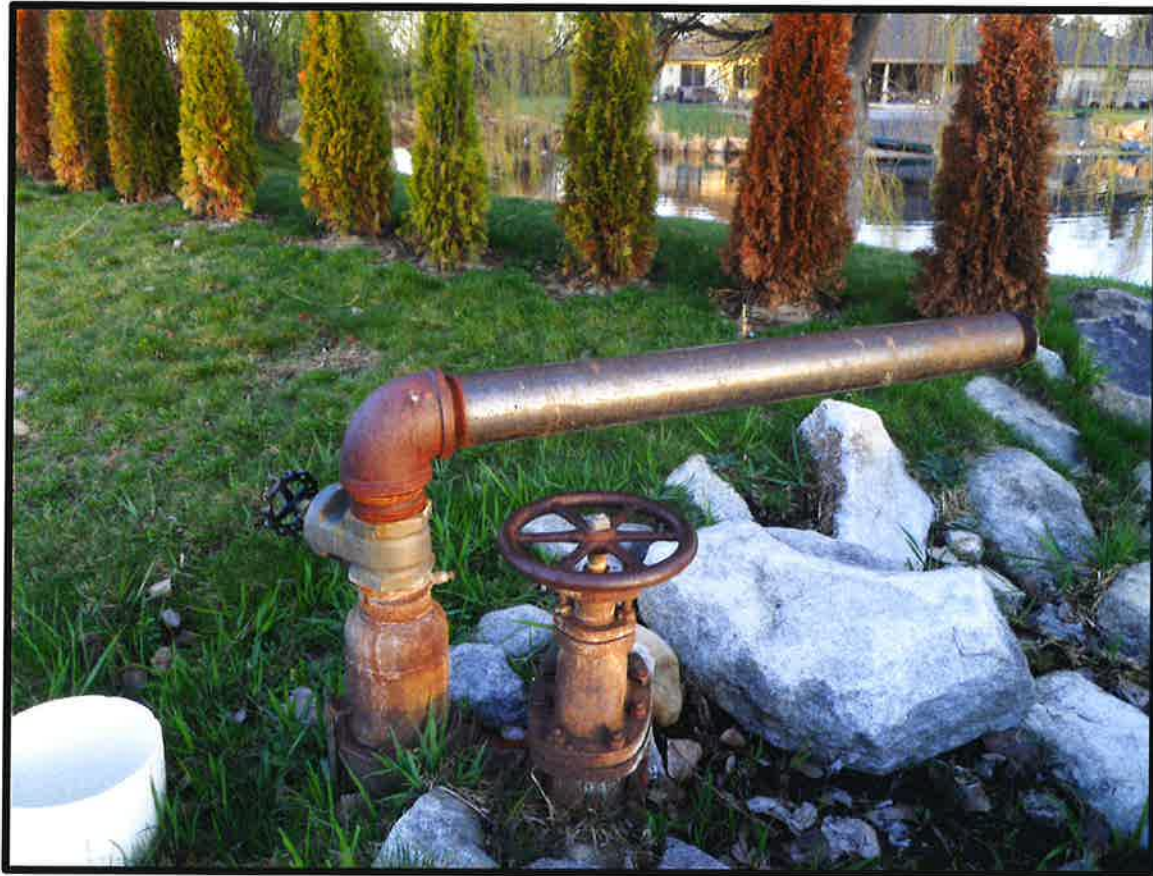


500

Feet



Attachment C - Photographs



Artesian Well #3



Artesian Well #3, Existing Water Feature, and Place of Use (Pond #1)



Discharge during March 23, 2017, Field Exam

Attachment D - Flow Calculations

FLOW CALCULATIONS

Permit No. 63-34259 allows for 0.12 cfs (53 gpm)

A 5-gallon capacity plastic bucket was used to measure flow from the 4-inch discharge line from Artesian Well #3 during five, separate tests (noted below). The bucket was filled to a level corresponding with 4-gallons based on 'calibration' of the bucket. The calibration was performed by filling the 5-gallon bucket with water to the 'fill' line and weighing the bucket. The measured weight of 34.1 pounds is equivalent to 4.1 gallons (using a conversion factor of 8.34 pounds per 1 gallon of water).

March 23, 2017 readings:

Test 1: 6.80 seconds to fill 5-gal bucket to 4-gal line = 35 gpm

Test 2: 7.24 seconds to fill 5-gal bucket to 4-gal line = 33 gpm

Test 3: 6.28 seconds to fill 5-gal bucket to 4-gal line = 38 gpm

Test 4: 6.54 seconds to fill 5-gal bucket to 4-gal line = 36 gpm

Test 5: 6.87 seconds to fill 5-gal bucket to 4-gal line = 34 gpm

The average flow rate based on the above five tests is 35.2 gpm (0.08 cfs).