

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-13717
Exam Date: 4/7/2021

1. Current Owner:
CITY OF VICTOR PO BOX 122 VICTOR ID 83455-0122
2. Accompanied by: Robert Heuseveldt, P.E., CFM (On May 28, 2020)
Phone No: (208)399-2155
Address: PO Box 122 Victor ID 83455
Relationship to permit Holder: City Engineer

3. SOURCE:
GROUND WATER

Method of Determination: Site Visit

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
22-13265	Ground Water	Municipal	License
22-7762	Ground Water	Municipal	License
22-566A	Springs	Municipal	Decreed
22-122	Springs	Municipal	Decreed

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
22-13265			

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

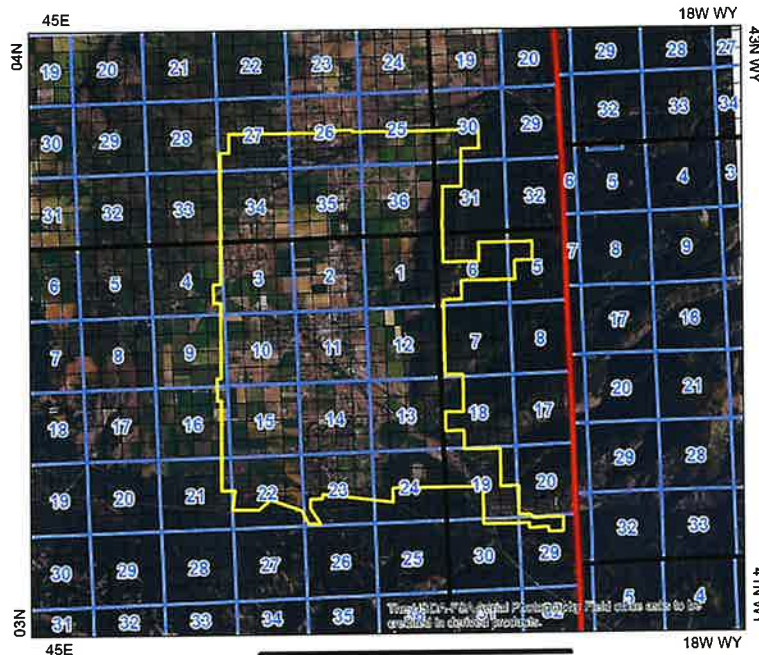
GROUND WATER SW¼ NW¼, Sec. 2, Twp 03N, Rge 45E, B.M. TETON County

Method of Determination: GPS and site visit.



Place of Use: Municipal (Large POU)

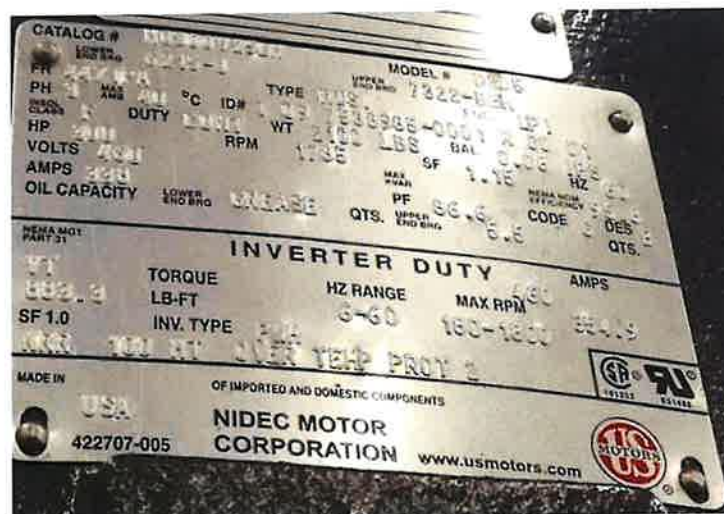
Method of Determination: Aerial photography and map



3. Delivery System Diagram Attached (required). Indicate all major components and distances between components.
☒ Indicate weir size/pipe as applicable.
 Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
☒
☒ Aerial Photo Attached (required for irrigation of 10+ acres).
☒ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
North Well	US Motors	300			



D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flow Meter	Magnetic	McCrometer	Ultra Mag	UM06-12	12"	



2. Measurements:

E. FLOW CALCULATIONS

Additional Computation Sheets Attached

Measured Method: May 28, 2020 field exam. Flow Meter reading. $Q = 5.65$ cfs. Water Right 22-13265 authorizes 3.0 cfs.
Recommended rate = 2.65 cfs (22-13717)



F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

$$2. \text{ Volume Calculations for Other Uses: } 2.65 \text{ cfs} \times 1.9835 \times 365 \text{ days} = 1918.5 \text{ AF}$$

The City of Victor provided a water use report showing the quantity of water diverted between 2017 and 2020. The north well went into production in mid-August 2019. The City's report includes fifteen months (August 2019 – October 2020) of water use data for the north well. From October 2019 to September 2020 the north well diverted 250.6 acre-feet. Based on the City of Victor's water report no additional volume was developed under their water use portfolio. Recommend a licensed volume of 196.2 af (water right 22-13265 authorized volume). Also recommend combined volume limitation. Rights 22-13265 and 22-13717 when combined is limited to an annual volume of 196.2 af.

G. NARRATIVE/REMARKS/COMMENTS

The licensing of this permit is based on field exam conducted on May 28, 2020 for water right 22-13265. See water right 22-13265 field exam for a description of the City of Victor's water delivery system. Based on the May 28, 2020 field exam and the City of Victor's water use portfolio that was submitted with proof of beneficial use for this water right, an additional 2.65 cfs has been developed. Based on water delivery records provided by the city (2017-2020) no additional volume was developed under their water use portfolio. Recommended flow rate for this license is 2.65 cfs. Recommended license volume 196.2 af (water right 22-13265 authorized volume) with a combined volume limit of 196.2 acre-feet. See City of Victor's October 2020 Water Right report that was submitted with proof of beneficial use.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
MUNICIPAL	01/01 to 12/31	2.65 CFS	196.2 AF
<u>Totals:</u>		2.65 CFS	196.2 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None
 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

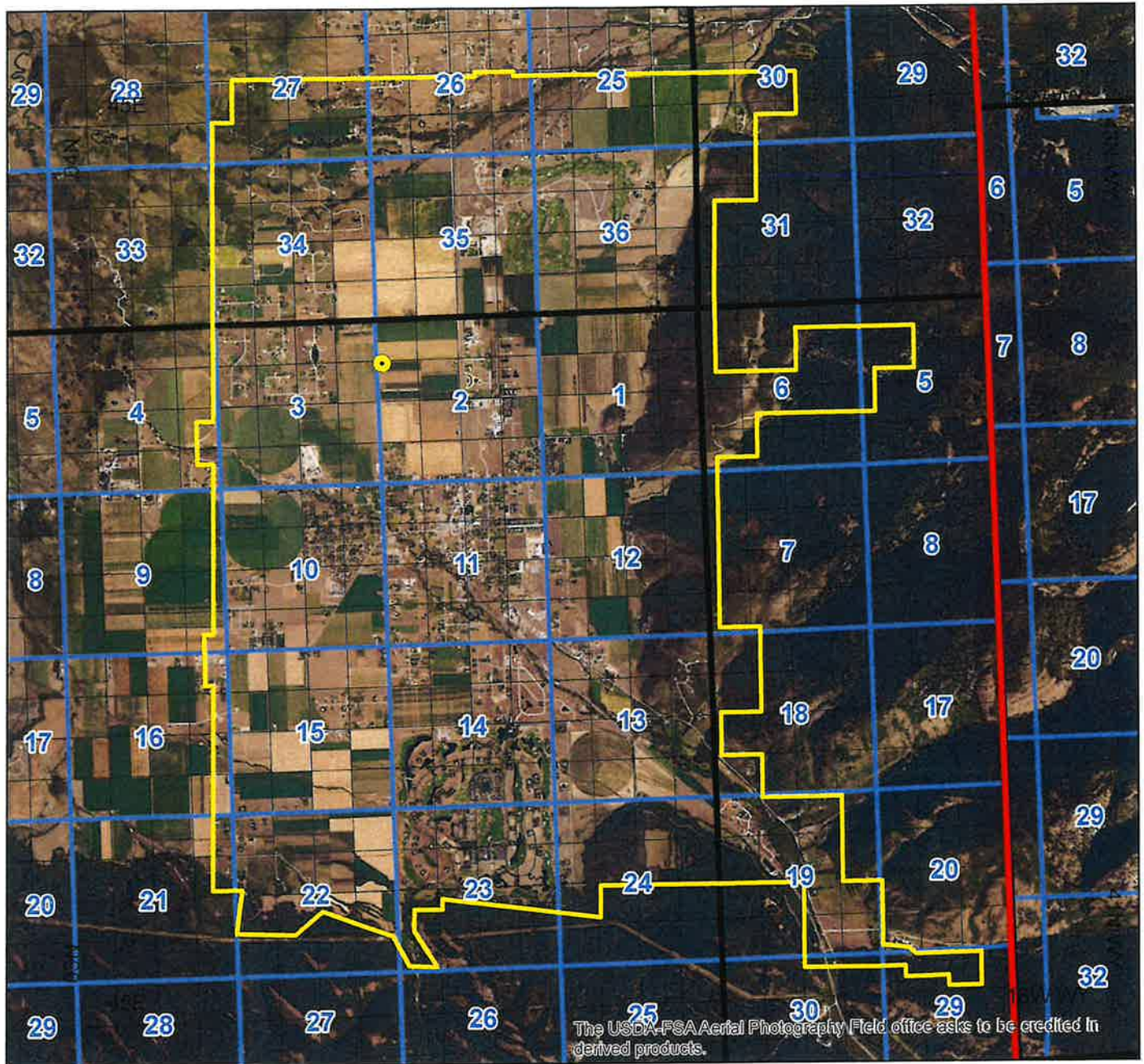
Blake Jordan - Water Rights Supervisor

Field Examiner's Name _____ Date _____
 Reviewer James Cefalo Date 5/14/21

City Of Victor

Water Right License

22-13717



Point of Diversion



Water Service Area Boundary



Townships



PLS Sections



Quarter Quarters

0 0.5 1 2 Miles



Table 3 – Game Creek Spring – Volume of Water used by the System (gal)

Month	Year			
	2017	2018	2019	2020
January	11,914,074	11,857,230	9,687,600	9,391,200
February	11,970,504	10,799,880	8,988,000	7,729,560
March	14,082,948	12,153,060	9,757,386	9,822,600
April	13,219,200	12,669,120	11,737,140	10,704,960
May	17,254,560	14,950,650	12,800,844	10,221,120
June	16,753,200	12,088,800	10,490,940	10,111,260
July	14,246,550	9,940,080	8,385,000	7,122,060
August	14,239,800	8,754,720	6,537,300	4,664,400
September	11,468,520	7,871,940	4,605,300	4,739,640
October	13,017,600	11,880,900	9,450,540	5,672,640
November	12,776,400	11,419,920	7,176,600	0
December	11,922,600	10,017,000	9,352,200	0
Total	162,865,956	134,403,300	108,968,850	80,179,440

Table 4 – Willow Creek Well – Volume of Water used by the System (gal)

Month	Year			
	2017	2018	2019	2020
January	5,619,000	4,137,000	7,900,000	3,874,000
February	4,375,000	3,795,000	8,269,000	2,890,000
March	4,119,000	4,178,000	7,410,000	964,000
April	860,000	3,550,000	7,119,000	4,163,000
May	1,374,000	2,085,000	4,251,000	3,120,000
June	6,665,000	6,691,000	7,090,000	6,245,000
July	9,391,000	13,062,000	17,746,000	5,741,000
August	9,671,000	12,919,000	9,509,000	4,258,000
September	7,318,000	11,779,000	4,030,000	3,304,000
October	2,443,000	6,734,000	3,879,000	3,844,000
November	2,367,000	5,685,000	3,554,000	0
December	3,011,000	5,955,000	3,909,000	0
Total	57,213,000	80,570,000	84,666,000	38,403,000

675.448 659.73 ~~290.11~~ ↓

Table 6 – North Well – Volume of Water used by the System (gal)

Month	Year	
	2019	2020
January	0	4,097,325
February	0	3,624,530
March	0	5,018,496
April	0	4,378,552
May	0	3,054,162
June	0	7,685,386
July	0	11,488,157
August	8,702,400	15,138,812
September	13,260,096	15,675,247
October	4,464,191	5,792,064
November	3,044,499	0
December	3,982,332	0
Total	~~196,244~~ 33,453,518	75,952,731

790.4

597.0

Table 7 – Total Volume Pumped by North Well

Month - Year	Volume (gal)	Days Measured
Oct-19	4,464,191	28
Nov-19	3,044,499	24
Dec-19	3,982,332	30
Jan-20	4,097,325	29
Feb-20	3,624,530	24
Mar-20	5,018,496	30
Apr-20	4,378,552	30
May-20	3,054,162	25
Jun-20	7,685,386	30
Jul-20	11,488,157	30
Aug-20	15,138,812	29
Sep-20	15,675,247	30
Total	81,651,689	339