

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 94-7527

Exam Date: 1/14/2016

1. Current Owner: IDAHO DEPT OF ENVIRONMENTAL QUALITY
1410 N HILTON
BOISE ID 83706
(208)373-0502
2. Accompanied by: In office exam

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NW1/4SW1/4 Sec. 33, Twp 49N, Rge 01E, B.M. KOOTENAI County

Method of Determination: Aerial photography, Bing Maps and Arc Map Data.

2.

PLACE OF USE: INDUSTRIAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
49N	01E	33							X		X	X							

Method of Determination: Aerial photography, Bing Maps and Arc Map Data.

Diversion

D. FLOW MEASUREMENTS

Flow measurement not required as per IDAPA RULE 37.03.02.035.01.r.iii.

E. FLOW CALCULATIONS

The diversion rate for this industrial right is limited to 0.20 cfs or 89.766 gpm.

F. VOLUME CALCULATIONS

The annual volume for this industrial right is limited to = 8.6 af

60 min x 8 hours x 5 days x 26 weeks = 62,400 operating minutes x 0.5 (per applicant) = 31,200 operating minutes per year

31,200 x 89.766 gpm = 2,800,699.2 gpy / 325,850 gal/af = 8.6 af

G. NARRATIVE/REMARKS/COMMENTS

IN OFFICE EXAM. DEQ PROVIDED PUMP SIZE AND OPERATING HOURS SO IDWR CAN CONDUCT IN OFFICE EXAM. MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r. THEORETICAL PUMPING EQUATION ESTIMATES FLOW 426.5 GPM OR 0.95 CFS. APPLICANT ONLY APPLIED FOR 0.20 CFS SO PUMP IS CAPABLE OF PRODUCING 0.20 CFS. ANNUAL VOLUME OF 8.6 AF WILL BE GIVEN AFTER ADDING UP THE TOTAL AMOUNT OF OPERATING HOURS EACH YEAR.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
INDUSTRIAL	01/01 to 12/31	0.200 CFS	8.60 AF
<u>Totals:</u>		0.200 CFS	8.60 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Adam Funderlit Date 1-14-2016
 Reviewer [Signature] Date 1-20-2016

Frederick, Adam

From: Bruce.Schuld@deq.idaho.gov
Sent: Tuesday, March 10, 2015 9:27 AM
To: Frederick, Adam
Cc: Don.Carpenter@deq.idaho.gov
Subject: RE: Water Permit 94-9294

Follow Up Flag: Follow up
Flag Status: Flagged

I don't know that you did or didn't talk to Don Carpenter but please change the Point of Contact to me as the Bunker Hill Superfund Program Manager. I will make sure we fill in all the details for you.

However, Don provided me:

East Mission Flats (EMF) pump details are as follows:

- 6TS25-300 Berkley Pump
- 25 hp Franklin 6 inch motor – 230 V, 3-phase
- Pumping goal was to achieve 300 gpm continuous duty

However "Continuously" is not correct. The decontamination station actually runs intermittently or half (1/2) time during operations, it also uses a recycling cistern whose primary function is to decant sediment from wash water. When you consider the fact that we operate $(26 \text{ weeks/yr } 5 \text{ days/week } 8 \text{ hrs/day}) \times \frac{1}{2} = 90\text{K gpd}$ or 11.17M gpy

Although at Page the pump is (I believe) a 40 hp we designed for the volume $(@ (26 \text{ weeks/yr } 5 \text{ days/week } 8 \text{ hrs/day}) \times \frac{1}{2} = 90\text{K gpd}$ or 11.17M gpy) of use utilizing the decant and recirculation cistern.

I am away from my Kellogg office but can confirm this next week if you need additional information.

Thanks for your help.

From: Frederick, Adam [<mailto:Adam.Frederick@idwr.idaho.gov>]
Sent: Thursday, March 05, 2015 8:59 AM
To: Bruce Schuld
Subject: RE: Water Permit 94-9294

Hi Bruce,

I just wanted to throw out there to give yourself extra water in places. We don't want to short you on the annual volume. If you wash the building or equipment other than the trucks. Add any water use that you can possibly think of. One other question, is there another contact other than Terry Harwood for the East Mission Flats Repository? I called Terry and he said he just works for you guys occasionally. It is water right number 94-7527, for that one I would need what size horse power pump is in the well and possibly a new updated annual volume sheet. I have one that someone sent in the past, but it only gives you a annual volume of 3.22 acre feet. Thanks for all your help.

Adam

From: Bruce.Schuld@deq.idaho.gov [<mailto:Bruce.Schuld@deq.idaho.gov>]
Sent: Thursday, March 05, 2015 6:23 AM
To: Frederick, Adam
Subject: RE: Water Permit 94-9294

426.5 gpm

State of Idaho
Department of Water Resources
Water Right License
94-7527



0 0.045 0.09 0.18 Miles

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



TAXLOT OWNERSHIP FOR WATER RIGHT 94-7527

2014 application map - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

15,000 Drawing Anal 10 B I U A

Process • POU • POD • Wells • SC • WMS • Dam Safety • UIC • WRA • WSB • Hydrologic • Enforcement • Calc Acres

Identify

Identify from: Taxlots

Fields

IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY

Location: 2,323,266.432 1,819,194.534 Meters

Field	Value
ID	4198955
UPDATED	5/19/2014
PIN	49M01E333225
OWNER	IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY
ADDRESS1	1410 N HILTON
ADDRESS2	
CITY	BOISE
STATE	ID
ZIPCODE	83706
P_ADDRESS	34982 E CANYON RD
P_ZIPCODE	
SUB_NAME	
LEGAL1	TAX#21268 (IN W/2 SEC)
LEGAL2	512- RURAL RESIDENTIAL TRACT
LEGAL3	
LEGAL4	
LEGAL5	
LEGAL6	<null>
ACRES	19.2
COUNTY	Kootenai
SOURCE	
YEAR_BUILT	

Identified 1 feature

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Number of features selected: 1