

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9392

Exam Date: 7/27/2011

1. Current Owner: KOOTENAI COUNTY SOLID WASTE
3650 RAMSEY RD
COEUR D ALENE ID 83815
(208)446-1430
2. Accompanied by: Dave Hosky
Phone No: SAME
Address: SAME
Relationship to Permit Holder: WORKER

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 95-9391
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 NW1/4NE1/4NW1/4 Sec. 29, Twp 51N, Rge 05W, B.M.
KOOTENAI County

Method of Determination: MAP

2.

PLACE OF USE: DOMESTIC

Twp Rge Sec	NE				NW				SW				SE				Totals
51N 05W 29	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
					X	X											

PLACE OF USE: IRRIGATION

Twp Rge Sec	NE				NW				SW				SE				Totals
51N 05W 29	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
					3.0	3.0											6.0

Total Acres: 6

Method of Determination:

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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
D0054389	Goulds Pump	15 Hp			

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements:

PUMP EQUATIONS WATER RIGHT No. 95-9392						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	15	325.6463	0.7	210	50
Q = 0.284 cfs 127.6 gpm						

FLOW CALCULATIONS

Measured Method:

☐ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 6 \times 3 = 18 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 53.6 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 18 \text{ AF}$$

2. Volume Calculations for Other Uses: 7 restroom X 400 gpd per restroom X 365 dpy = 3.1 AF

G. NARRATIVE/REMARKS/COMMENTS

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>
DOMESTIC	01/01 to 12/31	0.110 CFS	3.10 AF
IRRIGATION	04/01 to 11/30	0.110 CFS	18.00 AF
<u>Totals:</u>		0.220 CFS	21.10 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 Eric J. Quinn Date 1-25-2012

Reviewer [Signature] Date 1-27-2012



USE For WR # 95-9392





(Pd) For WR# 95-9392

SUBMERSIBLE PUMP

Installation and Operation & Instructions

Manufacturer: Goulds Pump
90L 15
Date Code 20070924
3450 RPM
25 – 130 Gallons per minute

Supplier: Mitchell Water & Waste
2502 E. Trent Ave.
Spokane, WA 99202
509-534-0343
Fax: 509-534-0363

Parts Supplier:
Mitchell Water & Waste
2502 E. Trent Ave.
Spokane, WA 99202
509-534-0343
Fax: 509-534-0363

MAINTENANCE SUMMARY FORM

PROJECT: Prairie Transfer Station CONTRACT NO.: _____

1. EQUIPMENT ITEM Domestic Well Pump

2. MANUFACTURER Gould's Pump

3. EQUIPMENT/TAG NUMBER(S) N/A

4. WEIGHT OF INDIVIDUAL COMPONENTS (OVER 100 POUNDS) N/A

5. NAMEPLATE DATA (hp, voltage, speed, etc.) 15 HP 3450 RPM

6. MANUFACTURER'S LOCAL REPRESENTATIVE H2O Well Service Inc.

a. Name Jim Johnston Telephone No. 772-4004

b. Address 582 W. Hayden Ave. Hayden, ID 83835

7. MAINTENANCE REQUIREMENTS

Maintenance Operation Comments	Frequency	Lubricant (If Applicable)
List briefly each maintenance operation required and refer to specific information in manufacturer's standard maintenance manual, if applicable. (Reference to manufacturer's catalog or sales literature is not acceptable.)	List required frequency of each maintenance operation.	Refer by symbol to lubricant required.
Verify insulation resistance with megohmmeter	Monthly	N/A
Verify winding resistance line to line	Monthly	N/A

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only			
Inspected by			
Twp	Rge	Sec	
1/4	1/4	1/4	
Lat:		Long:	

1. **WELL TAG NO.** D0054389

Drilling Permit No: 850374

Other IDWR No. 95-9391



2. **OWNER**

Name Kootenai Cnty Solid Waste

Address P.O. Box 6300

City Coeur d'Alene State ID Zip 83816

Well Number:

1392

3. **LOCATION OF WELL by legal description**

sketch map location must agree with written location

N	E	S	W	Twp. 51N	☒ North or	South
				Rge. 05W	East or	☒ West
				Sec. 29	1/4 NW	1/4 NE
Gov't Lot				County	KOOTENAI	
Latitude:				Longitude:		

Address of Well Site PRAIRIE AVE.
City POST FALLS

(Give at least name of road + Distance to Road or Landmark)

Lt. Blk. Sub. Name

4. **USE:**

☐ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. **TYPE OF WORK** check all that apply (Replacement, etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. **DRILL METHOD**

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. **SEALING PROCEDURES**

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
CEMENT GROUT	0	58	2900 LBS	Pumped

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) RB

Was drive shoe seal tested? ☐ Y ☒ N How?

8. **CASING/LINER:**

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8	+2	199	.322	STEEL	☒	☐	☒	☐
7	-194	215	.322	STEEL	☒	☐	☒	☐

Length of Headpipe 5 Length of Tailpipe 5

9. **PERFORATIONS/SCREENS**

☐ Perforations Method
☒ Screens Screen Type JOHNSON

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
200	210	.70	1	8	SS	☐	☐

10. **STATIC WATER LEVEL OR ARTESIAN PRESSURE:**

140 ft. below ground Artesian pressure lb.

Depth flow encountered 150 ft. Describe access port or control devices:

11. **WELL TESTS:**

Pump Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
75+			1.5

Water Temp. COLD Bottom Hole Temp. COLD

Water Quality test or comments: CLEAR

Depth first Water encountered 150

12. **LITHOLOGIC LOG:(Describe repairs or abandonment)**

Bore Diam	From	To	Remarks: Lithology, Water Quality, Temperature	Water
12	0	3	Top Soil	☒
12	3	11	Tan Clay, Cobbles & Gravels	☒
12	11	13	Boulder	☒
12	13	58	Gravels, Cobbles & Sand	☒
8	58	60	Boulder	☒
8	60	150	Sand & Gravels	☒
8	150	161	Large Gravels	☒
8	161	163	Boulder	☒
8	163	197	Coarse Sand & Gravels	☒
8	197	220	Gravels & Coarse Sand	☒

RECEIVED

FEB 11 2008

IDWR/North

Completed Depth 215 (Measurable)
Date Started 1/2/2008 Completed 1/29/2008

13. **DRILLER'S CERTIFICATION**

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name H2O Well Service, Inc. Firm No. 448

Firm Official *John R. Rutter* Date 2-5-08

and

Supervisor or Operator *Jim McLieslie* Date 1/31/2008

McLESIE, JIM (Sign Once if Firm Official and Operator)

SIN SW 29