

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 25-7622

Exam Date: 8/23/2011

1. Current Owner: BRP INC
PO BOX 1768
IDAHO FALLS ID 83403-1768
208-529-9891
2. Accompanied by: Doyle Beck
Phone No: Same as above
Address: Same as above
Relationship to Permit Holder: Permit holder

- | 3. <u>SOURCE</u> | <u>TRIBUTARY</u> |
|------------------|------------------|
| GROUND WATER | |

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Canal company water to irrigate lawns and landscaping
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 L4 SE1/4NE1/4SE1/4 Sec. 34, Twp 02N, Rge 37E, B.M.
BONNEVILLE County

Method of Determination: Map

2. **PLACE OF USE:** DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<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>	
02N	37E	34																X	
																		L4	
02N	37E	35										X							

Method of Determination: 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.

<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>
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A0008718		10			
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*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>
Flowmeter	Sonic	Fuji				

2. Measurements: Did a 1.17 minute test using a portable flowmeter. See attached data sheet.

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

Theoretical Q = $8.8 \times 0.70 \times 10 / 99 + 2.31 \times 50 = 0.29$ cfs

Measured Q = Average rate of 88 gpm or 0.20 cfs. Maximum flow during test was 105 gpm or 0.23 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NA

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{NA}$$

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

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

2. Volume Calculations for Other Uses:

0.6 AF x 13 lots with water hookups = 7.8 AF

G. NARRATIVE/REMARKS/COMMENTS

Water and sewer service has been stubbed out to 5 lots with homes and 8 empty lots. Only one well has been drilled. Water for lawns and landscaping is provided by canal company surface water. Only 13 out of 45 lots have been supplied with water and sewer service.

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	0.230 CFS	7.80 AF
<u>Totals:</u>		0.230 CFS	7.80 AF

2. Recommended Amendments

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

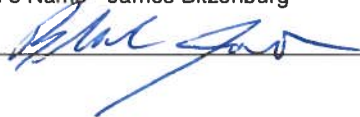
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name James Bitzenburg

Date 09-19-2011

Reviewer



Date

12/22/2011

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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. 25-7622

1. Owner BRP, Inc. Phone No. 208-529-9891
 Current address P.O. Box 1768, Idaho Falls, ID 83403-1768
 2. Examiner's name James Bitzenburg EXAM DATE 8-23-11
 3. Accompanied by Doyle Beck Email _____
 Address P.O. Box 1768, Idaho Falls, ID 83403
 Relationship to permit holder Owner Phone No. 208-529-9891
 4. Source Groundwater tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use Surface water (canal company)
 2. Other water rights with the same source and point of diversion _____

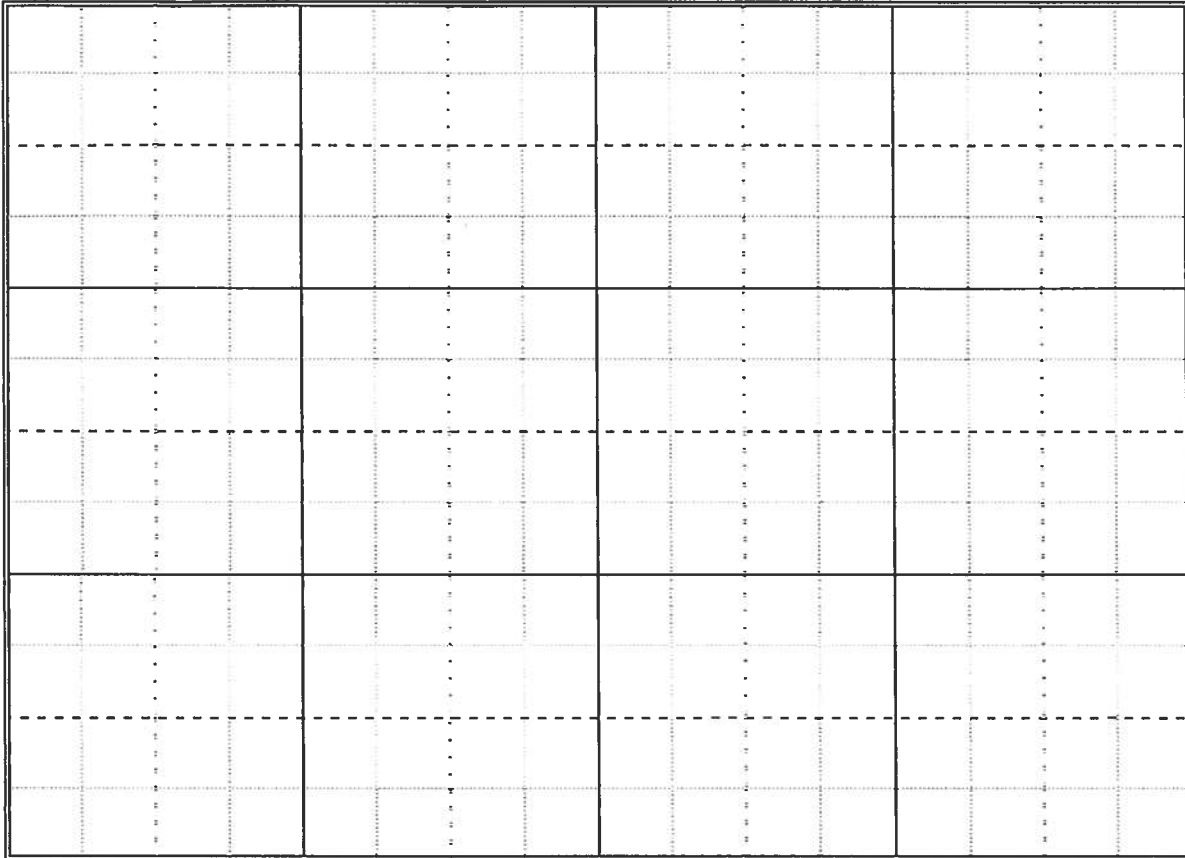
C. DIVERSION AND DELIVERY SYSTEM**1. Point(s) of Diversion:**

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
	4	SE	NE	SE	34	02N	37E	Benneville	Map

2. Place(s) of Use: Method of determination Map

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02N	37E	34																X	
02N	37E	35											X						

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

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*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
Flowmeter	Sonic	Fuji				

2. Measurements: Did a 1.17 minute test which gave an average flow rate of 88 gpm. See attached data sheets

E. NARRATIVE/REMARKS/COMMENTS

Water and sewer service has been stubbed out to 5 lots with homes and 8 empty lots. Only one well has been drilled. Water for lawns and landscaping is provided by canal company surface water.

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?

Only 13 out of 45 proposed lots have been supplied with water and sewer service. Only one well has been drilled.

F. FLOW CALCULATIONS☒ Additional computation sheets attached

Measured Method:

$$\text{Theoretical } Q = \frac{8.8 \cdot 0.70 \cdot 10}{99 + 2.31 \cdot 50} = \frac{61.6}{214.5} = 0.29 \text{ cfs}$$

measured $Q = 88 \text{ gpm}$ average flow. Maximum flow during test was 105 gpm or 0.23 cfs .

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{NA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = \underline{NA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{NA}$$

2. Volume Calculations for Other Uses:

$$0.6 \text{ AF} \cdot 13 \text{ viable lots} = 7.8 \text{ AF}$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use From	To	Rate of Diversion Q (cfs)	Annual Volume V (afa)
Domestic	1/1	12/31	0.25	7.8 AF
Totals:			0.25	7.8 AF

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. AUTHENTICATION**

Field Examiner's Signature



Date

09-19-2011

SEAL

Reviewer

Date

IDAHO DEPARTMENT OF WATER RESOURCES

Water Right Report 25-7622

WATER RIGHT NUMBER: 25-7622

DRAFT

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	BRP INC PO BOX 1768 IDAHO FALLS, ID 83403-1768 208-529-9891

Priority Date: 09/23/1998

Basis: License

Status: Active DRAFT

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
DOMESTIC	1/01 to 12/31	0.330 CFS	
	<u>Total Diversion:</u>	0.330 CFS	

Location of Point(s) of Diversion

GROUND WATER	L4 (SE1/4NE1/4SE1/4)	Sec. 34, Twp 02N, Rge 37E, B.M.
BONNEVILLE County		

Place of Use

DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
02N	37E	34													X				
02N	37E	35									X	X							

Conditions of Approval:

1. 004 The issuance of this right does not grant any right-of-way or easement across the land of another.
2. 048 The use of water under this right shall not give rise to any claim against the holder of a senior water right based upon the theories of forfeiture, abandonment, adverse possession, waiver, equitable estoppel, estoppel by laches or customary preference.
3. 01G Prior to the diversion of water under this right a flow measurement port or other device as specified by the Department shall be installed to provide for the installation of measuring equipment and the determination of the rate of diversion by the Department.
4. 049 The Director retains jurisdiction of the right to incorporate the use into a water district, require streamflow augmentation or other action needed to protect prior surface water and groundwater rights.
5. 046 Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.

IDAHO DEPARTMENT OF WATER RESOURCES

Water Right Report 25-7622

6. 26A 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 permit holder had no control.
7. 46B The right holder shall comply with Idaho well construction standards when constructing a well pursuant to this right.
8. Domestic use is for 45 homes.
Two points of diversion are located within SENESE, S34, T2N, R37E.
Place of use is located within Gem Lake Harbor Subdivision.
9. 021 Use of water for domestic purposes under this right shall be limited to in-house use and watering of household stock.

Remarks:Comments:

1. kpickett 4/12/2006 POD

Comment: Correlated PODID 591285 from SpatialDataID 247528 to SpatialDataID 351820

Dates and Other Information:

Licensed Date:
 Decreed Date:
 Enlargement Use Priority Date:
 Enlargement Statute Priority Date:
 State or Federal:
 Owner Name Connector:
 Water District Number:
 Generic Max Rate Per Acre:
 Generic Max Volume Per Acre:
 Decree Defendant:
 Decree Plaintiff:
 Civil Case Number:
 Judicial District:
 Swan Falls Trust or Nontrust:
 Swan Falls Dismissed:
 DLE Act Number:
 Carey Act Number:
 Mitigation Plan: False

Combined Use Limits:Element Reviewed/Verified Dates:

<u>Element</u>	<u>Last Reviewed Date</u>	<u>Reviewer</u>	<u>Last Verified Date</u>	<u>Verifier</u>	<u>Status</u>
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Verification Log:

<u>Element</u>	<u>Date Time Stamp</u>	<u>Reviewer</u>	<u>Log text</u>
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Water Supply Bank:

FLOWMETER DATA

CALIBRATION DATE: 8-28-11

GPS SITE TAG# 70008718

RECORD # 210006

EXAMINER: Jim Bitzenburg

SUITABLE FOR PCC Y / N

FOLLOW-UP 8-14

$$SS = 2/3$$

2.328

INSTALLED METER		STANDARD METER	
METER TYPE:	Impeller	PIPE MATERIAL	Steel
MAUFACTURER:	Sensus	OUTSIDE DIAMETER	3.5625
MODEL:	W-350	WALL THICKNESS	0.199
SERIAL NUMBER:	1443873	UPSTREAM STRAIGHT (FT.)	1
OUTSIDE DIAMETER:		DOWNSREAM STRAIGHT (FT.)	1
WALL THICKNESS:		METER TYPE:	Fuji
UPSTREAM STRAIGHT (FT.)	2	RATE UNITS:	GPM
DOWNSREAM STRAIGHT (FT.)	2	MEASURED FLOW:	100 GPM
RATE UNITS:	NA	CONFIDENCE:	Good
RATE MULTIPLIER:	—		
VOLUME UNITS:	Gallons	OTHER WELL (S):	
VOLUME MULTIPLIER:	100		
LOCATION:			
INDICATED FLOW (GPM)			
		OTHER METER (S):	

FLOWMETER ACCURACY CALIBRATION TABLE

[illegible]

SITE VISIT COMMENTS: Pump only ran for 1:10.

MEAS. 1 (M_1) IS THE MEASURED RATE OF FLOW FROM THE PERMANENTLY INSTALLED FLOW METER

MEAS. 2 (M₂) IS THE MEASURED RATE OF FLOW FROM THE MEASURING DEVICE BEING USED TO CHECK THE FLOW FOR THE CALIBRATION. (+ or - %5 accuracy). DESCRIBE METHOD AND EQUIPMENT USED TO PERFORM THIS MEASUREMENT

PERCENT DIFFERENCE = $(M_1 - M_2) \div M_2 \times 100 = (+ \text{ or } - \%)$ **ACCEPTABLE WITHIN** (+ or - 10%)

$$\text{CALIBRATION MULTIPLIER} = (M_2 \div M_1)$$

FLOWMETER CALIBRATION MULTIPLIER: 1.016

	4 'VELOCITY ft/s	'FLOW RAT' gal/min	+'TOTALIZER gal
8/23/2011 10:29	4.268	104.645	44690.67
8/23/2011 10:29	4.291	105.195	44707.53
8/23/2011 10:29	4.201	102.986	44725.24
8/23/2011 10:30	4.16	101.994	44742.72
8/23/2011 10:30	4.124	101.097	44758.8
8/23/2011 10:30	4.13	101.252	44775.99
8/23/2011 10:30	4.187	102.664	44793.25
	Total gallons		102.58
	Time		1.17
	GPM		87.7

BRP, Inc.- Gem Lakes Subdivision



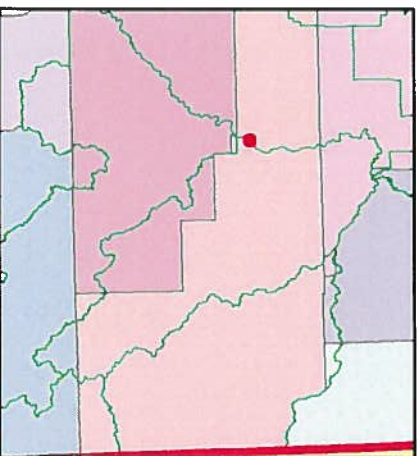


Idaho Department of Water Resources

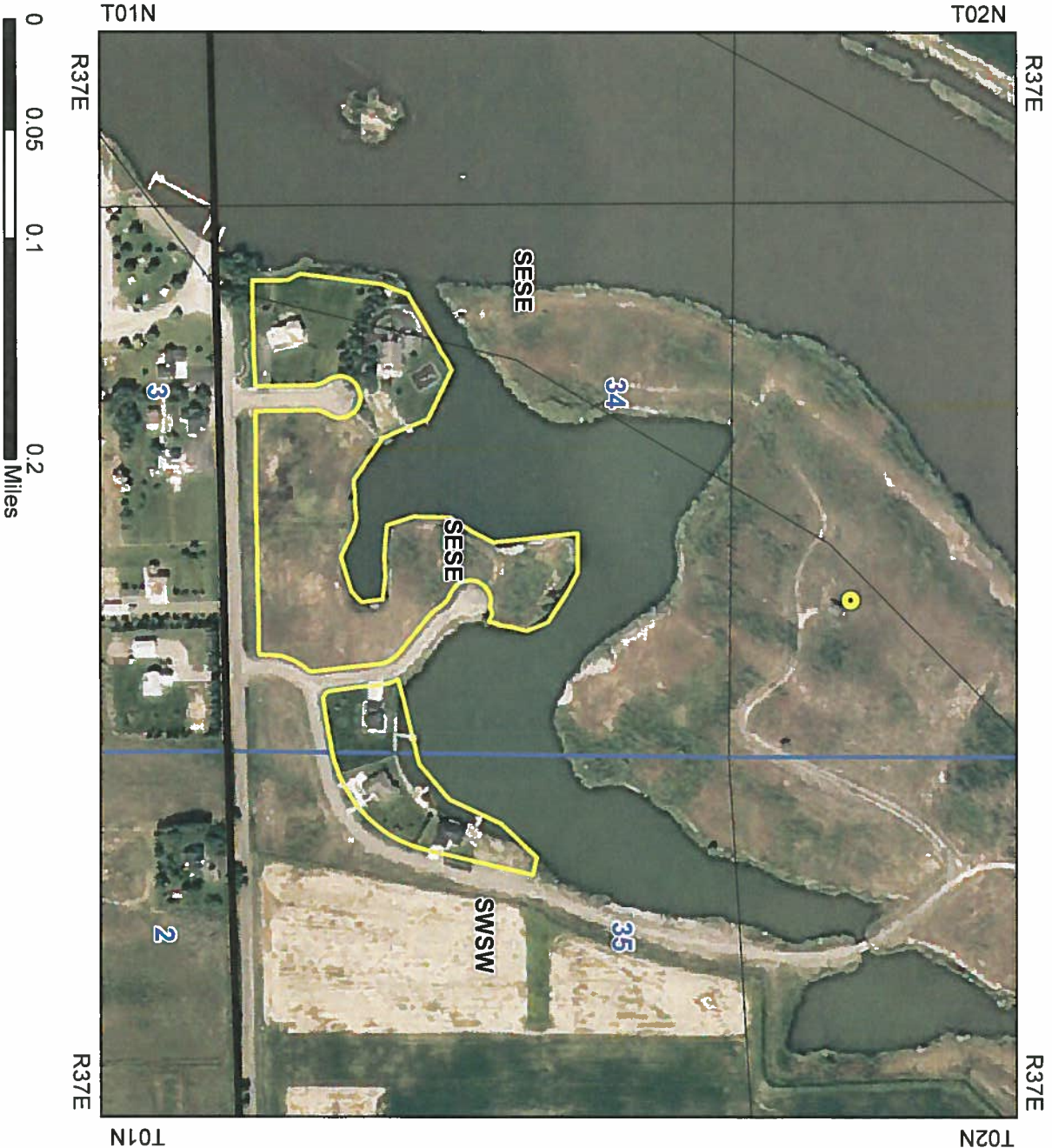
Water Right
25-7622
(DOMESTIC)

Legend

- Point of Diversion
- Place of Use
- State Outline
- Townships
- PLS Sections
- Quarter Quarters



Bonneville County
IDWR Basin 25



Owner: Brp Inc

NOTE: Only one owner is listed. There may or may not be more than this in the IDWR database.

Prepared by Bitzenburg, James
On December 21, 2011
2009 Aerial Photography



Homes and Empty lot in Gem Lakes Subdivision



Well house



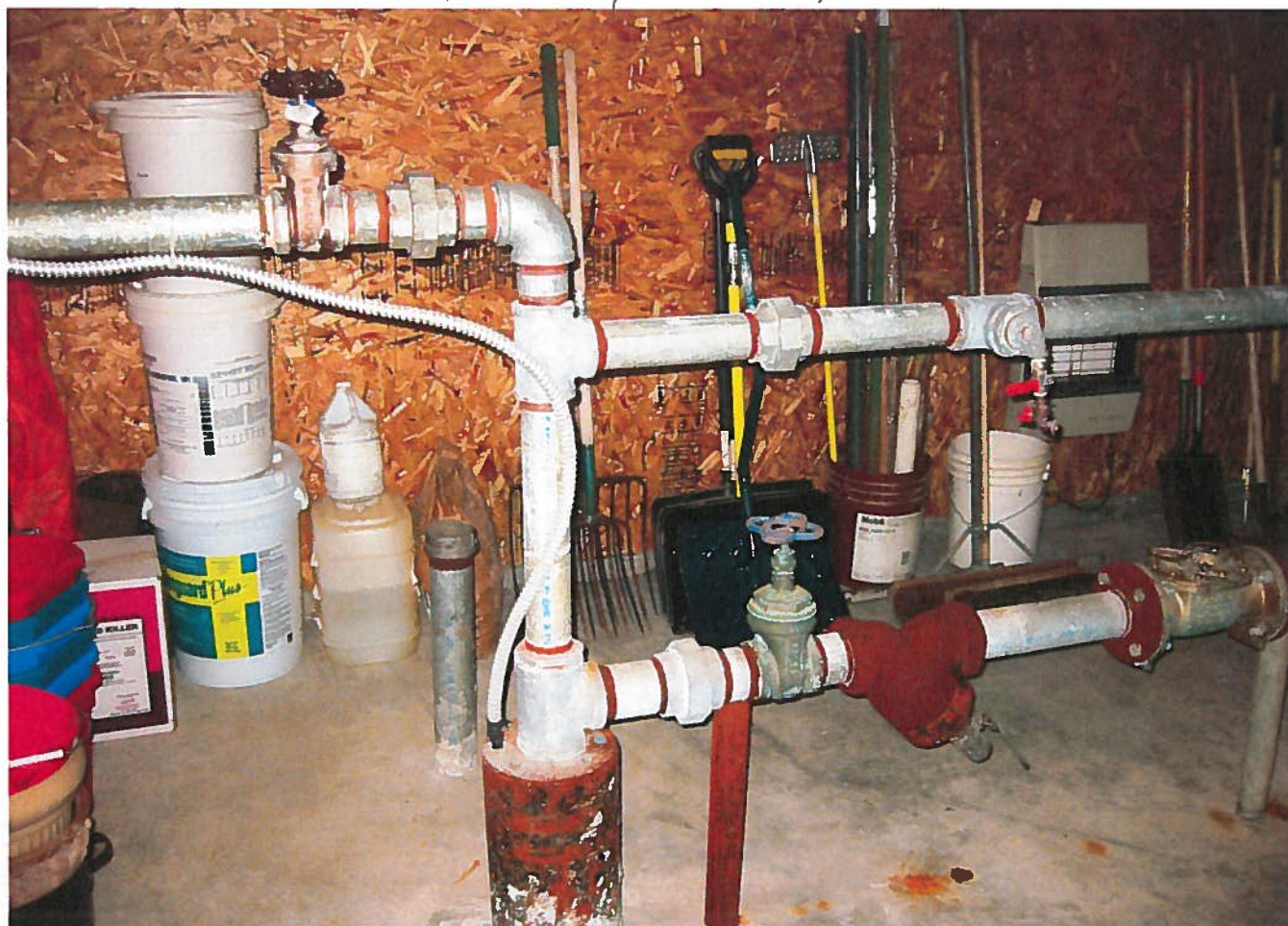
Homes and Empty lot in Green Lakes Subdivision.



Hydrant on Empty Lot



View of Subdivision and close proximity to Sludge Application Site



View of well head inside of well house



Inside of well house



Empty lots in subdivision



Plumbing inside well house.



Canal water being pumped for Outside
use in subdivision

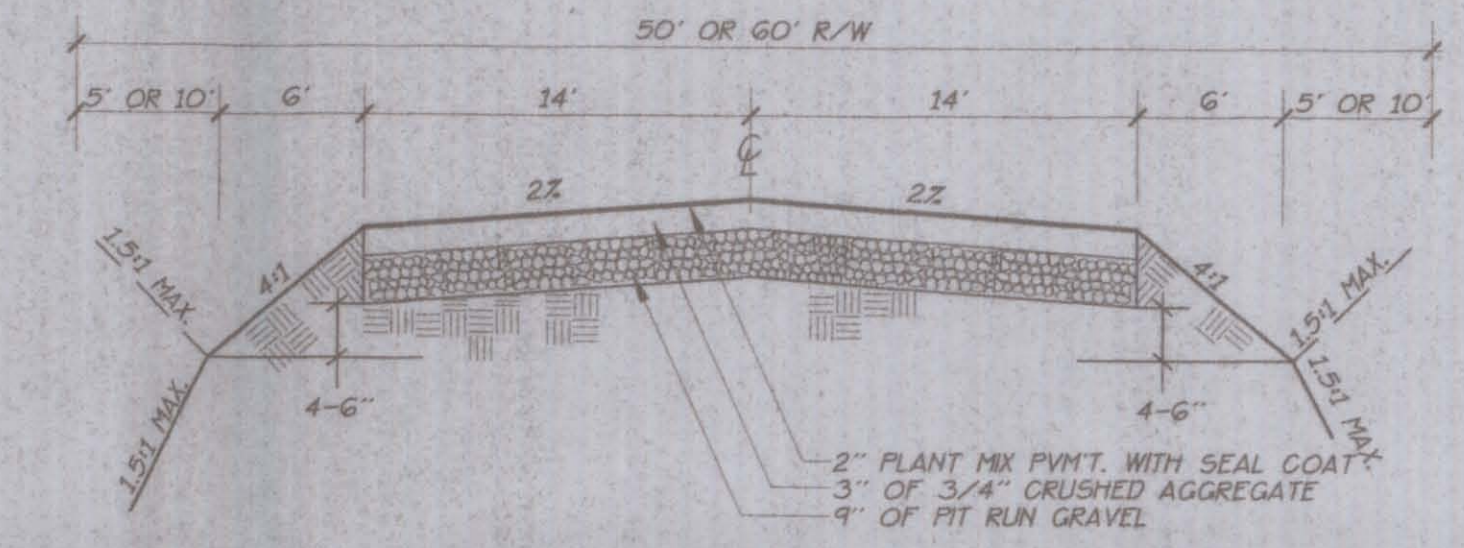
[illegible]

3142

- PROPOSED MANHOLE
- SANTARY OR STORM SEWER
- WATERLINE
- PROPOSED FLUSHING HYDRANT
- WATER VALVE
- END PLUG
- JUNCTION BOX
- TRANSFORMER
- POWER SERVICE

SYMBOL LEGEND

N
1" = 100'



TYPICAL R/W SECTION
NO SCALE

- GENERAL NOTES
- 1) IN GENERAL AND WHERE APPLICABLE IN THE OPINION OF THE ENGINEER, CONSTRUCTION SHALL CONFORM TO THE 1990 IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION.
 - 2) ALL STREET SIGNS TO MEET MUTCO REQUIREMENTS

REVIEWED BY INTERMOUNTAIN GAS

DATE:

PRINT
REVIEWED BY: CLARK O. Thompson
AND SIGNED: UTAH POWER + LIGHT

DATE: 9-17-98

REVIEWED BY U.S. WEST

DATE:

REVIEWED BY T.C.I. CABLE

DATE:

APPROVED BY COUNTY ENGINEER

DATE:



REDED DRAWING 10-22-98

NOTE: ANY MODIFICATION TO THE CONSTRUCTION OR TO THE CONSTRUCTION SCHEDULE OR TO THE CONSTRUCTION PHASE LIMITS SHALL BE APPROVED BY THE COUNTY ENGINEER. PRIOR TO SAID APPROVAL, ALL IMPROVEMENT DRAWINGS SHALL BE RE-SUBMITTED TO THE COUNTY ENGINEERING DEPT. SHOWING THE PROPOSED CHANGES.

Mountain River
Engineering

GENERAL LAYOUT
FOR
GEM LAKE HARBOR
DIVISION No. 1 PHASE 2
BONNEVILLE COUNTY, IDAHO

Scale: 1" = 100'	Date: SEPT 1998	Job No.
Drawn By: D. THURMAN	Des d. By: G.M.	3142
1020 E. LINCOLN RD. Idaho Falls, Idaho 83402 (208) 524-6175		Sht. 2 of 4

