

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-22431

Exam Date: 3/18/2015

1. Current Owner: CITY OF RICHFIELD
210 N MAIN ST
PO BOX 97
RICHFIELD ID 83349
(208)487-2755
2. Accompanied by: Jason Brauburger
Phone No: 208-539-5541
Address: PO Box 97
Richfield, ID 83349
Relationship to Permit Holder: City Superintendent

3. SOURCE

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same POU: 37-4084, 37-4185, 37-8402 (municipals) and 37-8336 (wastewater permit)
2. Other water rights with the same point of diversion: 37-4084, 37-4185 and 37-8402 (municipals)

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

GROUND WATER	SW1/4NW1/4NW1/4	Sec. 25,	Twp 04S,	Rge 19E, B.M.
LINCOLN County				
GROUND WATER	SW1/4SW1/4NW1/4	Sec. 25,	Twp 04S,	Rge 19E, B.M.
LINCOLN County				
GROUND WATER	NW1/4SW1/4SW1/4	Sec. 24,	Twp 04S,	Rge 19E, B.M.
LINCOLN County				
GROUND WATER	SE1/4SE1/4NE1/4	Sec. 26,	Twp 04S,	Rge 19E, B.M.
LINCOLN County				

Method of Determination: GPS and Aerial Photography.

2.

PLACE OF USE: MUNICIPAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04S	19E	23	X			X									X	X	X	X	
04S	19E	24					X	X	X		X	X							
04S	19E	25					X	X	X	X		X	X						
													L 1						
04S	19E	26	X	X	X	X	X		X	X	X	X			X	X			
04S	20E	7					X	X	X	X	X	X	X	X	X	X	X	X	
								L 1	L 2			L 3	L 4						

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04S	20E	8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
04S	20E	17						X											
04S	20E	18	X	X	X	X	X												

Method of Determination: Digital Large POU shape and aerial photography.

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 ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
Well 1	US Electric	50 HP		6 inch
Well 2	Submersible	25 HP	Franklin	6 inch
Well 3	GE	100 HP		8 inch
Well 4	US electric	150 HP		10 inch

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

D. FLOW MEASUREMENTS

1.

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

WMIS records were used to calculate 4.7 cfs as the maximum capacity of the city's municipal system. (See attached WMIS records.)

9/28/2007 Well #1 319 gpm or 0.7 cfs

6/14/2010 Well #2 124 gpm or 0.28 cfs

8/11/1999 Well #3 621 gpm or 0.38 cfs

7/25/2013 Well #4 1065 gpm or 2.37 cfs

Totals 2129 gpm or 4.7 cfs

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: Physical measurement records were available in WMIS.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: **N/A**
2. Volume Calculations for Other Uses: **No volume for municipal use.**

G. NARRATIVE/REMARKS/COMMENTS

Application for permit 37-22431 was filed on January 13, 2009 for 2.18 cfs for municipal use in the City of Richfield. After several amendments it was approved on October 15, 2009 for 1.19 cfs. Proof of beneficial use was filed on September 16, 2014.

WMIS records and measurements were available to calculate the maximum capacity of the city's municipal system at 4.7 cfs. (see above calculations) Currently the city's water rights 37-4084 (0.15 cfs), 37-4085 (0.14 cfs) and 37-8402 (1.63 cfs) authorize the diversion of 1.92 cfs leaving 2.78 cfs of water available to potentially be licensed under this permit. (4.7 cfs - 1.92 cfs = 2.78 cfs) However this exceeds the permitted rate of 1.19 cfs. **Recommend a flow rate of 1.19 cfs for municipal use with no volume for this license.**

A new service area map was provided by the city and expanded to include the farmland where Glandbia land applies their wastewater from the city municipal system.

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>
MUNICIPAL	01/01 to 12/31	1.190 CFS	N/A
<u>Totals:</u>		1.190 CFS	

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

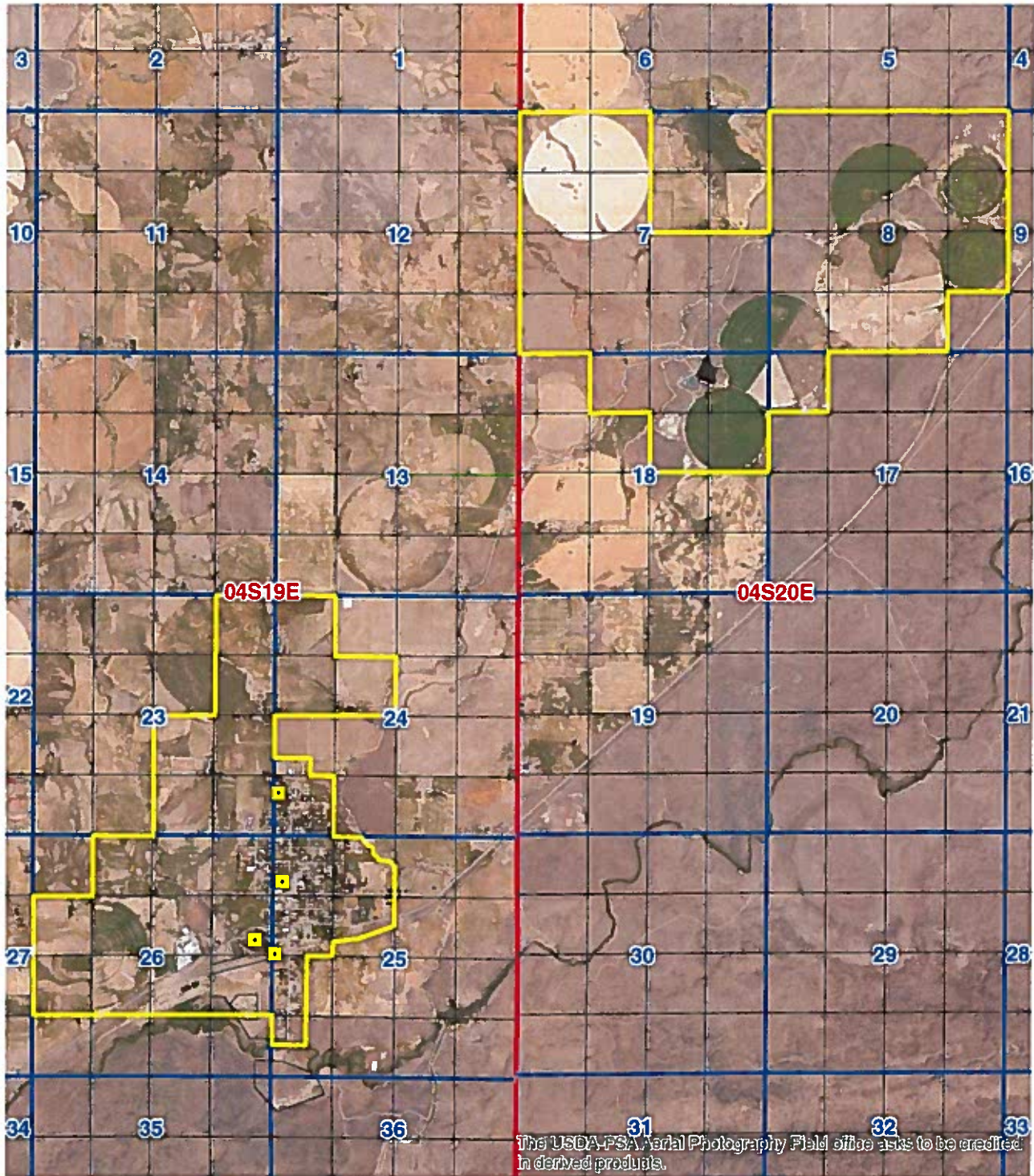
I. AUTHENTICATION

Field Examiner's Name *Jana Reeder* Date 6/19/15

Reviewer *Douglas Jones* Date 6/23/15

WATER RIGHT LICENSE

37-22431
City of Richfield



6/23/2015

Well #1



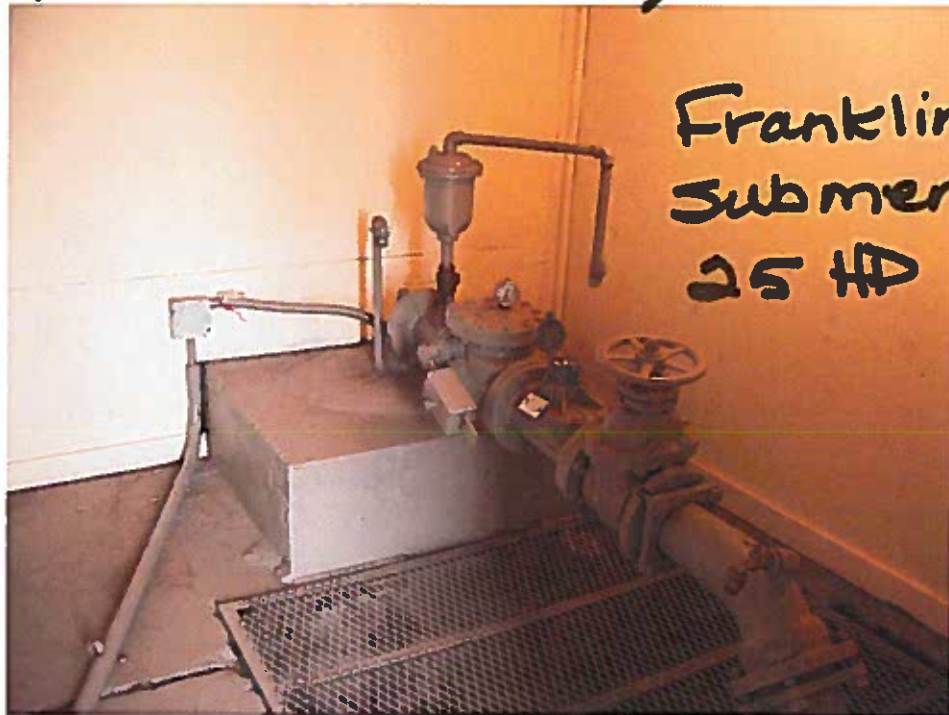
US Electric
50 HP

A0004221



37-22431

Well #2 (Backup)



Franklin
Submersible
25 HP

A0004222



Well #3



Well #4 (Primary)



US Electric
150 HP

E0007873



Reeder, Jana

From: North Snake Ground Water District [nsgwd@safelink.net]
Sent: Tuesday, June 23, 2015 3:34 PM
To: Reeder, Jana
Subject: FW: Richfield



152 East Main Jerome, ID 83338 (208) 324-8995, Fax: (208) 324-8033

Jana,

This is to verify that the City of Richfield is currently participating in the North Snake Ground Water District with water rights 37-22431- 1.19 cfs, 37-4084- .15 cfs, 37-4085- .14 cfs, 37-8402- 1.63 cfs. The City is current on all of their assessment.

If you have any questions, please call.

Joyce
NSGWD

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4/10/15

City of Richfield

37-22431

measured max. capacity = 2129.4 gpm
4.8 cfs

decrees

37-4084 0.15 cfs

37-4085 0.14 cfs

License

37-8402 1.63 cfs

Permit

37-22431 1.19 cfs

TOTAL 3.11 cfs

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9/28/07

319 gpm

Bhiggs

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Flow Meter Calibrations

Well # 1

You are viewing 401844; A0004221

Calibration Date/Time:	07/25/2013	Factor:	0.85
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	309.14	Standard Meter Flow:	263.03
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1.0000	Pipe Material:	STEEL
Volume Multiplier:	1000.0000	Outside Diameter (inches):	6.68
Volume Unit:	GAL	Wall Thickness (inches):	0.13
Location:	FAIR	Downstream Distance (feet):	10.00
Comments:		Upstream Distance (feet):	10.00
		Calibration Confidence:	POOR
Installed Meter Information:		Installation Date:	
Manufacturer:	SEAMETRICS	Serial Number:	
Model Number:		Other Well:	
Meter Type:			
Calibration Date/Time:	01/01/2011	Factor:	1.00
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:		Standard Meter Flow:	
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1000.0000	Pipe Material:	
Volume Multiplier:	1000.0000	Outside Diameter (inches):	
Volume Unit:	GAL	Wall Thickness (inches):	
Location:		Downstream Distance (feet):	
Comments:		Upstream Distance (feet):	
Existing meter was reprogrammed to add volume multiplier. Meter should be retested. Please update this record, do not add another record. cy		Calibration Confidence:	
Installed Meter Information:		Installation Date:	
Manufacturer:	SEAMETRICS	Serial Number:	
Model Number:	FT420	Other Well:	
Meter Type:	IMPELLER		
Calibration Date/Time:	06/14/2010	Factor:	0.96
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	325.40	Standard Meter Flow:	311.60
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1.0000	Pipe Material:	STEEL
Volume Multiplier:	1.0000	Outside Diameter (inches):	6.84
Volume Unit:	AF	Wall Thickness (inches):	0.24

Location:		Downstream Distance (feet):	0.00
Comments:		Upstream Distance (feet):	0.00
WHAT METER ARE YOU TESTING. IS THIS AN OLD METER.		Calibration Confidence:	
Installed Meter Information:			
Manufacturer:	SPARLING	Installation Date:	
Model Number:	K473-A	Serial Number:	131030
Meter Type:	PROPELLER	Other Well:	
Calibration Date/Time: 09/28/2007 Factor: 0.95			
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	335.00	Standard Meter Flow:	319.00
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1.0000	Pipe Material:	STEEL
Volume Multiplier:	1.0000	Outside Diameter (inches):	6.68
Volume Unit:	GAL	Wall Thickness (inches):	0.20
Location:	FAIR	Downstream Distance (feet):	2.00
Comments:		Upstream Distance (feet):	2.00
		Calibration Confidence:	FAIR
Installed Meter Information:			
Manufacturer:	SEAMETRICS	Installation Date:	
Model Number:	FT420	Serial Number:	
Meter Type:	IMPELLER	Other Well:	
Calibration Date/Time: 11/04/2004 Factor: 1.03			
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	236.70	Standard Meter Flow:	244.50
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1.0000	Pipe Material:	STEEL
Volume Multiplier:	10.0000	Outside Diameter (inches):	6.65
Volume Unit:	GAL	Wall Thickness (inches):	0.24
Location:	EXCL	Downstream Distance (feet):	2.30
Comments:		Upstream Distance (feet):	2.50
		Calibration Confidence:	GOOD
Installed Meter Information:			
Manufacturer:	PEEK	Installation Date:	
Model Number:	2850M/2110	Serial Number:	
Meter Type:	IMPELLER	Other Well:	
Calibration Date/Time: 06/23/2000 Factor: 0.96			
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	234.00	Standard Meter Flow:	225.30
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1.0000	Pipe Material:	STEEL
Volume Multiplier:	100.0000	Outside Diameter (inches):	6.78
Volume Unit:	GAL	Wall Thickness (inches):	0.28
Location:	EXCL	Downstream Distance (feet):	2.30
Comments:		Upstream Distance (feet):	2.50
		Calibration Confidence:	GOOD
Installed Meter Information:			
Manufacturer:	PEEK	Installation Date:	
Model Number:	2850M/2110	Serial Number:	
Meter Type:	IMPELLER	Other Well:	
Calibration Date/Time: 09/29/1998 Factor: 1.43			
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:		Standard Meter Flow:	
Rate Unit:		Rate Unit:	
Rate Multiplier:	1.0000	Pipe Material:	
Volume Multiplier:	100.0000	Outside Diameter (inches):	
Volume Unit:	GAL	Wall Thickness (inches):	
Location:	POOR	Downstream Distance (feet):	
Comments:		Upstream Distance (feet):	
		Calibration Confidence:	
Installed Meter Information:			
Manufacturer:	SPARLING	Installation Date:	
Model Number:	K473-A	Serial Number:	131030
Meter Type:	PROPELLER	Other Well:	

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Flow Meter Calibrations

You are viewing 401843; A0004222

Calibration Date/Time:	06/14/2010	Factor:	0.98
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	126.50	Standard Meter Flow:	124.20
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1.0000	Pipe Material:	STEEL
Volume Multiplier:	100.0000	Outside Diameter (inches):	4.85
Volume Unit:	GAL	Wall Thickness (inches):	0.25
Location:		Downstream Distance (feet):	5.00
Comments:		Upstream Distance (feet):	
		Calibration Confidence:	EXCL
Installed Meter Information:		Installation Date:	
Manufacturer:	SPARLING	Serial Number:	131031
Model Number:	K473-A	Other Well:	
Meter Type:	PROPELLER		
Calibration Date/Time:	09/28/2007	Factor:	0.75
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	122.00	Standard Meter Flow:	91.00
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1.0000	Pipe Material:	CAST IRON
Volume Multiplier:	100.0000	Outside Diameter (inches):	4.85
Volume Unit:	GAL	Wall Thickness (inches):	0.25
Location:	GOOD	Downstream Distance (feet):	1.00
Comments:		Upstream Distance (feet):	3.00
Totals. 2 Site tags here also A0009960. This well back up only. 11.6.08 Changed to gpm. bdh		Calibration Confidence:	
Installed Meter Information:		Installation Date:	
Manufacturer:	SPARLING	Serial Number:	131031
Model Number:		Other Well:	
Meter Type:			
Calibration Date/Time:	11/04/2004	Factor:	0.95
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	124.13	Standard Meter Flow:	117.90
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1.0000	Pipe Material:	STEEL
Volume Multiplier:	100.0000	Outside Diameter (inches):	4.85
Volume Unit:	GAL	Wall Thickness (inches):	0.31

Location:	EXCL	Downstream Distance (feet):	0.42
Comments:		Upstream Distance (feet):	3.33
		Calibration Confidence:	FAIR
Installed Meter Information:			
Manufacturer:	PEEK	Installation Date:	
Model Number:	2850M/2110	Serial Number:	
Meter Type:	IMPELLER	Other Well:	
Calibration Date/Time:	06/15/2000	Factor:	0.97
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	116.00	Standard Meter Flow:	112.10
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1.0000	Pipe Material:	DUCTILE IRON
Volume Multiplier:	100.0000	Outside Diameter (inches):	4.70
Volume Unit:	GAL	Wall Thickness (inches):	0.37
Location:	EXCL	Downstream Distance (feet):	0.42
Comments:		Upstream Distance (feet):	3.33
		Calibration Confidence:	GOOD
Installed Meter Information:			
Manufacturer:	PEEK	Installation Date:	
Model Number:	2850M/2110	Serial Number:	
Meter Type:	IMPELLER	Other Well:	
Calibration Date/Time:	09/29/1998	Factor:	0.78
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:		Standard Meter Flow:	
Rate Unit:		Rate Unit:	
Rate Multiplier:	1.0000	Pipe Material:	
Volume Multiplier:	100.0000	Outside Diameter (inches):	
Volume Unit:	GAL	Wall Thickness (inches):	
Location:	POOR	Downstream Distance (feet):	
Comments:		Upstream Distance (feet):	
		Calibration Confidence:	
Installed Meter Information:			
Manufacturer:	SPARLING	Installation Date:	
Model Number:	K473-A	Serial Number:	131031
Meter Type:	PROPELLER	Other Well:	

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8/11/99

621 gpm
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Flow Meter Calibrations

Well # 3

You are viewing 400040; A0004223

Calibration Date/Time:	07/25/2013	Factor:	0.97
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	549.32	Standard Meter Flow:	530.41
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1.0000	Pipe Material:	
Volume Multiplier:	1000.0000	Outside Diameter (Inches):	9.07
Volume Unit:	GAL	Wall Thickness (Inches):	0.27
Location:		Downstream Distance (feet):	10.00
Comments:	No rate.	Upstream Distance (feet):	10.00
		Calibration Confidence:	GOOD
Installed Meter Information:		Installation Date:	
Manufacturer:	SENSUS	Serial Number:	37804
Model Number:		Other Well:	
Meter Type:	PROPELLER		
Calibration Date/Time:	06/14/2010	Factor:	0.94
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	522.30	Standard Meter Flow:	489.60
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	10.0000	Pipe Material:	CARBON STEEL
Volume Multiplier:	1000.0000	Outside Diameter (Inches):	9.08
Volume Unit:	GAL	Wall Thickness (Inches):	0.42
Location:		Downstream Distance (feet):	0.00
Comments:		Upstream Distance (feet):	2.00
		Calibration Confidence:	
Installed Meter Information:		Installation Date:	
Manufacturer:	SENSUS	Serial Number:	37804
Model Number:		Other Well:	
Meter Type:	PROPELLER		
Calibration Date/Time:	09/28/2007	Factor:	1.13
Installed Meter Data:		Standard Meter Data:	
Installed Meter Flow:	548.00	Standard Meter Flow:	618.00
Rate Unit:	GPM	Rate Unit:	GPM
Rate Multiplier:	1.0000	Pipe Material:	CAST IRON
Volume Multiplier:	1000.0000	Outside Diameter (Inches):	9.05
Volume Unit:	GAL	Wall Thickness (Inches):	0.50
Location:	FAIR	Downstream Distance (feet):	2.00

Comments: totals. Main well of Richfield 11.7.08 changed totals to gpm.bdh -- PIPE MATERIAL IS LIKELY WRONG, DO NOT USE THIS TEST. cy		Upstream Distance (feet): 2.00 Calibration Confidence:	
Installed Meter Information: Manufacturer: Model Number: Meter Type:		Installation Date: Serial Number: Other Well:	
Calibration Date/Time: 11/04/2004		Factor: 0.91	
Installed Meter Data: Installed Meter Flow: 638.70 Rate Unit: GPM Rate Multiplier: 10.0000 Volume Multiplier: 1000.0000 Volume Unit: GAL Location: FAIR Comments:		Standard Meter Data: Standard Meter Flow: 582.00 Rate Unit: GPM Pipe Material: DUCTILE IRON Outside Diameter (inches): 9.05 Wall Thickness (inches): 0.42 Downstream Distance (feet): 2.20 Upstream Distance (feet): 2.20 Calibration Confidence: FAIR	
Installed Meter Information: Manufacturer: SENSUS Model Number: Meter Type: PROPELLER		Installation Date: Serial Number: 37804 Other Well:	
Calibration Date/Time: 08/11/1999		Factor: 0.97	
Installed Meter Data: Installed Meter Flow: 642.20 Rate Unit: GPM Rate Multiplier: 10.0000 Volume Multiplier: 1000.0000 Volume Unit: GAL Location: FAIR Comments: AUDIT		Standard Meter Data: Standard Meter Flow: 621.00 Rate Unit: GPM Pipe Material: CAST IRON Outside Diameter (inches): 9.05 Wall Thickness (inches): 0.38 Downstream Distance (feet): 2.20 Upstream Distance (feet): 2.20 Calibration Confidence: GOOD	
Installed Meter Information: Manufacturer: SENSUS Model Number: Meter Type: PROPELLER		Installation Date: Serial Number: 37804 Other Well:	
Calibration Date/Time: 09/29/1998		Factor: 0.97	
Installed Meter Data: Installed Meter Flow: Rate Unit: GPM Rate Multiplier: 10.0000 Volume Multiplier: 1000.0000 Volume Unit: GAL Location: FAIR Comments:		Standard Meter Data: Standard Meter Flow: Rate Unit: Pipe Material: Outside Diameter (inches): Wall Thickness (inches): Downstream Distance (feet): Upstream Distance (feet): Calibration Confidence:	
Installed Meter Information: Manufacturer: SENSUS Model Number: Meter Type: PROPELLER		Installation Date: Serial Number: 37804 Other Well:	

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7/25/13

1065 gpm

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Flow Meter Calibrations

Well # 4

You are viewing 1000481

Calibration Date/Time:		07/25/2013	Factor:		1.13
Installed Meter Data:					
Installed Meter Flow:	939.14	Standard Meter Data:		Standard Meter Flow:	1065.16
Rate Unit:	GPM	Rate Unit:		GPM	
Rate Multiplier:	1.0000	Pipe Material:		DUCTILE IRON	
Volume Multiplier:	1000.0000	Outside Diameter (inches):		11.14	
Volume Unit:	GAL	Wall Thickness (inches):		0.24	
Location:		Downstream Distance (feet):		10.00	
Comments:		Upstream Distance (feet):		5.00	
about 950gpm.		Calibration Confidence:		POOR	
Installed Meter Information:					
Manufacturer:	MCCROMETER	Installation Date:			
Model Number:	Ultra Mag UM06-10	Serial Number:		UMZ0110384	
Meter Type:		Other Well:			

Calibration Date/Time:		01/01/2012	Factor:		1.00
Installed Meter Data:					
Installed Meter Flow:	0.00	Standard Meter Data:		Standard Meter Flow:	0.00
Rate Unit:	GPM	Rate Unit:		GPM	
Rate Multiplier:	1.0000	Pipe Material:			
Volume Multiplier:	1.0000	Outside Diameter (inches):		0.00	
Volume Unit:	GAL	Wall Thickness (inches):		0.00	
Location:		Downstream Distance (feet):		0.00	
Comments:		Upstream Distance (feet):		0.00	
No calibration data. This record created to add in meter reading for 2012.		Calibration Confidence:			
bbh					
Installed Meter Information:					
Manufacturer:		Installation Date:			
Model Number:		Serial Number:			
Meter Type:		Other Well:			