

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATIONPermit No: ~~95-8887~~ **8909**

Exam Date: 10/26/2007

1. Current Owner: AVONDALE IRRIGATION DIST
PO BOX 81
HAYDEN LAKE ID 83835
(208)772-5657
2. Accompanied by: **Chad Coy**
Phone No: **(208) 772.5657, (208) 704.5726**
Address: **Same As Above**
Relationship to Permit Holder: **Manager**

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. ~~Other~~ water rights with the same place of use: **95-7558, 95-8144, 95-8321, 95-8909**
95-465, 95-465A, 95-465B, 95-8774, 95-8867,
2. ~~Other~~ water rights with the same point of diversion: **95-8774, 95-8867, 95-8909, 95-7558**

C. DIVERSION AND DELIVERY SYSTEM**95-8144, 95-8321 8687**1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

SW1/4SW1/4

Sec. 24, Twp 51N, Rge 04W, B.M.

KOOTENAI County

Method of Determination: **USGS 7.5' Quadrangles 'Coeur d'Alene,' Hayden,'**
Garmin GPS Receiver

2.

PLACE OF USE: WITHIN SERVICE AREA OF AVONDALE AIRRIGATION DISTRICT

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
Permit No:	95-8687																		Page 3

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

95-8909

4.

Well or DiversionPump Serial No. or Discharge

ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Size
Finucane		75			
Miles #1	Westinghouse	350	2S-77	Peerless	76F66724 (Motor) #20954
Miles #2	U.S.E.M.	200	AA-71	Peerless	
Miles #3	Westinghouse	350	1F-77	Peerless	USW 1
Airport #1	GE	200			5K44DP (Partly Visible)
Airport #2	U.S.E.M.	250			725B/POIN 322DRØ67R/1

*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
Watch	Wrist	Remington	NA	NA	NA	NA
Flowmeters	(SEE BELOW)					

2. Measurements:

Water	Right	No.	95-	Finucane Well		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	75	406.4626	0.819	270	59
Q =	1.332	CFS	=	597.843	GPM	

~~95-8867~~

Flowmeter reading 500 GPM = 1.1 CFS

Water	Right	No.	95-	Miles AVE Well 1		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	350	601.2925	.85	370	100
Q =	4.361	CFS	=	1957.353	GPM	

Flowmeter 913958.0
913957.0 $1.0 \times 1000 = 1000 \text{ Gallons/1min} = 1000 \text{ GPM} = 2.22 \text{ CFS}$

Water	Right	No.	95-	Miles AVE Well 2		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	200	571.2925	.85	340	100
Q =	2.623	CFS	=	177.284	GPM	

Flowmeter 913959.0
913958.0 $1.0 \times 1000 = 1000 \text{ Gallons/1min} = 1000 \text{ GPM} = 2.22 \text{ CFS}$

Water	Right	No.	95-	Miles AVE Well 3		
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	350		.85	340	100
Q =	4.590	CFS	=	2060.135	GPM	

Flowmeter 913960.0
913959.0 $1.0 \times 1000 \text{ Gallons/1min} = 1000 \text{ GPM} = 2.22 \text{ CFS}$

95-8909

Water	Right	No.	95-	Airport Well 1	95-8774	
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	200	575.292517	.9	344	100
Q =	2.758	CFS	=	1237.876	GPM	

Flowmeter showing 1250-1275 GPM in real time

$$1275 \text{ GPM} = 2.84 \text{ CFS}$$

Water	Right	No.	95-	Airport Well 2	95-8909	
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	250	581.292517	0.9	350	100
Q =	3.412	CFS	=	1531.412	GPM	

Accuwell International Flowmeter 227,387,000

227,384,000

$$3,000 \div 2 \text{ MIN} = 1500 \text{ GPM}$$

$$1500 \text{ GPM} = 3.34 \text{ CFS}$$

E. FLOW CALCULATIONS

Measured Method:

(See Above)

Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

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

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

2. Volume Calculations for Other Uses:

$$(3.0 \text{ CFS}) \times (365 \text{ days per Year}) \times (1.9835) = 2172.0 \text{ AF}$$

MUNICIPAL

95-8909

G. NARRATIVE/REMARKS/COMMENTS

Well logs are with W.R 95-8867 Field Exam. Flow calculations for POD well in NWSWSW, S.24, T51N, R04W indicate 500 GPM. GPS Coordinates indicate this well is located just inside the SW SW T51NR04W instead of the NWSW T51NR04W indicated on Permit 95-8867.

Avondale Irrigation District built a pumping station on Hayden Lake to withdraw water from the Lake. It is no longer in use and has not been operated for this exam and is covered by separate Water Rights.

District facilities include a 50,000 Gallon reservoir located on a hill immediately West of the Hayden Lake pumping station and a main distribution line which that runs West along Miles Avenue, past the three District wells at the Miles Avenue site, to the Coeur d Alene Airport (Pappy Boyington Field). Two District operated wells are located at the Airport on either side of a square concrete reservoir that was formerly operated by Kootenai County. Lines connect to the Finucane well (operates nearly continuously) and to a large new 675,000 Gallon reservoir in the Whispering Pines area.

Amendment(s) are to add all District wells as PODs (6 wells total) and correct well locations. The District has 21.12 CFS of groundwater water right diversion capacity. The District will have licensed simultaneous diversion capacity of 13.94 CFS upon completion of amendments at licensing.

The maximum diversion capacity for water rights 95-8687, 95-8774, and 95-8909 at licensing was calculated using (maximum diversion rate CFS) x (365 days) x (1.9835). Water Right 95-8867 began as a municipal only permit.

The combined use condition for 95-8687, 95-8774, 95-8867 and 95-8909 was determined by using the sum of the measured CFS for each right plus the CFS from previously licensed rights 95-7558, 95-8321, and 95-8144. The total measured CFS from these rights is 13.94 CFS. The combined use maximum diversion volume was determined by (13.94 CFS) x (365 days) x (1.9835) = 10092.2 AF

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	1/01 to 12/31	3.0 1.340 CFS	2172.0 AF
		<u>Totals:</u> 3.0 1.340 CFS	2172.0 AF

2. Recommended Amendments

☒ Change P.D. as reflected above ☒ Add P.D. as reflected above ☐ None *Amend to Municipal*
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name *Sharon M. May* Date 3/3/09
 Reviewer *Keith Franklin* Date 3/4/09

95-8909



United States Department of the Interior

BUREAU OF RECLAMATION

Washington, D.C. 20240

IN REPLY REFER TO

D-5300

LND-9.00

FEB 13 2005

Mr. Bob Chandler
Manager
Avondale Irrigation District
P. O. Box 81
Hayden Lake, Idaho 83835

Subject: Exemption from the Ownership and Full-Cost Pricing Provisions of Federal Reclamation Law

Dear Mr. Chandler:

Section 213 of the Reclamation Reform Act of 1982 (RRA) and section 426.16 of the Acreage Limitation Rules and Regulations provide that land in a district is exempt from the ownership and full-cost pricing provisions of Federal reclamation law when a district has fully repaid its construction cost obligation in accordance with the terms of its repayment contract(s) with the Bureau of Reclamation.

Reclamation's financial records show that Avondale Irrigation District (District) has made the final payments on its March 26, 1962, repayment contract (Contract No. 14-06-100-2393) and its July 14, 1954, repayment contracts (Contract No. 14-06-100-517 and Contract No. 14-06-100-518).

This letter serves as official notification that land included in the District is exempt from the ownership and full-cost pricing provisions of Federal reclamation law. The exemption remains in effect until the requirements of Federal reclamation law, including section 203(a) of the RRA, dictate otherwise.

Please note that as a result of being exempt from the ownership and full-cost pricing provisions of Federal reclamation law, the RRA forms submittal requirements no longer apply to the District. However, other RRA provisions (for example, the water conservation provisions) and relevant contract provisions remain in effect. Also be aware that this exemption does not relieve the District of any existing or future obligations to the United States, including the obligation to pay any applicable operation and maintenance costs.

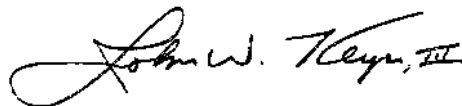
The Pacific Northwest Regional Office has advised me that all follow-up actions have been completed with respect to the final water district review conducted on July 22, 2003. Therefore, upon receipt of this letter, the District may discard all the landholder RRA forms in its files by burning, shredding, or pulping them in accordance with the Privacy Act disposal requirements.

Congratulations to the District for having completed repayment of its construction cost obligation to the United States, and having achieved exemption from the ownership and full-cost pricing provisions of Federal reclamation law.

95-8909

If you have any questions regarding this matter, please contact Wanda Shearer at the Pacific Northwest Regional Office in Boise, Idaho, at 208-378-5342.

Sincerely,

A handwritten signature in cursive script that reads "John W. Keys, III". The signature is fluid and written in dark ink.

John W. Keys, III
Commissioner

95-8909



United States Department of the Interior

BUREAU OF RECLAMATION

Ephrata Field Office

P. O. Box 815

Ephrata, Washington 98823

IN REPLY REFER TO

EPH-2606

LND-9.00

AUG - 8 2003

Ms. Connie Dougall
Avondale Irrigation District
P.O. Box 81
Hayden, ID 83835-0081

Subject: Water District Review Report -- Reclamation Reform Act of 1982 (RRA)

Dear Ms. Dougall:

Enclosed please find the Water District Review Report for the water district review (review) conducted at the Avondale Irrigation District (District) on July 22, 2003.

The Bureau of Reclamation appreciates the cooperation of the District during the review. There is no follow up required.

If you have questions about the enclosed Water District Review Report, please contact Jean Howard at 509-754-0266.

Sincerely,

ACTING FOR

William D. Gray
Deputy Area Manager

Enclosures

95-8909

WATER DISTRICT REVIEW REPORT

Avondale Irrigation District
(Name of District)

July 22, 2003
(Date of Review)

Team Members

Jean Howard

Paula Hanson

Reclamation Office

Ephrata Field Office, Ephrata, WA

Ephrata Field Office, Ephrata, WA

I. Purpose and Scope

The water district review was conducted at the Avondale Irrigation District (District) office in Hayden Lake, Idaho. Review team members met with Ms. Connie Dougall, Secretary for the District, on July 22, 2003. It was the final review for this District because it is paying out its repayment contract in 2003. There are no landholders in the District above the forms submittal threshold and a copy of the assessment rolls were given to the review team.

II. Background

The District is Category 2, prior law. New landholders are required to prepay all construction obligations prior to purchasing land in the District and are not subject to the reporting requirements of the Reclamation Reform Act of 1982 (RRA). Lands within the District are being subdivided at an accelerated rate due to the scenic beauty of the area and the desirable location.

III. General Findings

Although the District has several landholders, there are none who hold more than 40 acres, which would subject them to the forms requirements of the RRA.

IV. Specific Findings

N/A

V. Required or Actions taken

The review team advised Ms. Dougall that any documents covered by the retention period under the forms requirements must be retained until the District is notified by the Regional Office, Boise, ID, that all RRA materials can be disposed of. Ms. Dougall was given a packet of information explaining the RRA procedure when a district pays out its contract.

There were no other actions required or taken.

VI. District Input

The District indicated that it would probably request a title transfer from Reclamation for the facilities installed under the contract. Although the District was familiar with the procedure, the review team provided Ms. Dougall with the name of phone number of an employee in Ephrata who would be able to answer any contractual questions.

VII. Recommendations

The review team had no recommendations since the District is paying out its contract in 2003 and lands within the District will be exempt from the RRA.

Jean Howard
Signatures of all review team members

7/25/03
Signature date

Paula Howard

7-25-03
Signature date

Signature date

SUMMARY OF WORK PERFORMED

A. GENERAL INFORMATION	
Type of review (water district review or in-depth review)	Water District Review – Close Out
Water years for which records are being reviewed	2002, 2003
IDCON	100020
Contract number, date of contract, and type	14-06-100-517; 7/14/54; repayment 14-06-100-2393; 3/26/62; repayment
Date of previous water district review	August 1, 2001
District status and category status (1 or 2) (provide district's acreage limitation status and forms submittal threshold category status for each year reviewed) (District Status: PL = prior law, DP = discretionary provisions)	Category 2 -- PL 2002, 2003
Full-cost rates, 202(3) and 205 (a)(3) (identify if rate is per acre or per acre foot)	\$42.73; \$54.41 each per acre
Irrigable acres in district (from most recent summary form)	1005 (includes domestic wells/excludes new landholders who have prepaid construction obligation)
Total landholders (direct or indirect landowners or lessees) in district (from most recent summary form)	1,395
Total direct landholders over forms submittal threshold (from most recent summary form)	0
Class 1 equivalency available in this district? (yes or no)	No

B. REVIEW OF RRA FORMS (Includes certification, reporting, and declaration forms)	
Number of landholders who directly hold (own or lease) land and are subject to DP (from most recent summary form)	0
Number of these landholders whose forms were reviewed	0
Number of landholders who directly hold (own or lease) land and are subject to PL (from most recent summary form)	0
Number of these landholders whose forms were reviewed	0

C. LANDHOLDERS WHO LEASE LAND (Should also be included in direct landholders or indirect landholders figures)	
Number of landholders leasing land (from most recent summary form)	0
Number of these landholders whose forms were reviewed	0
Number of landholders leasing over 960 acres (from current water year)	0
Have all landholders leasing more than 960 acres been audited? (Yes or No or N/A) If not, explain why.	N/A
Number of leases requested for review	N/A
Number of limited recipients leasing over nonfull-cost entitlement (from current water year)	0
Number of prior law recipients leasing over nonfull-cost entitlement (from current water year)	0

D. INDIRECT LANDHOLDERS	
Number of landholders who only indirectly hold land found during this review	0
Number of these landholders subject to DP and whose forms were reviewed	0
Number of these landholders subject to PL and whose forms were reviewed	0

E. EXCESS LANDHOLDINGS	
Number of qualified recipients with excess land (from current water year)	0
Number of qualified recipients with excess land reviewed	0
Number of limited recipients with excess land (from current water year)	0
Number of limited recipients with excess land reviewed	0
Number of prior law recipients with excess land (from current water year)	0
Number of prior law recipients with excess land reviewed	0

F. FULL-COST LANDHOLDINGS

Number of qualified recipients with full-cost land (from current water year)	0
Number of qualified recipients with full-cost land reviewed	0
Number of limited recipients (320-acre entitlement) with full-cost land (from current water year)	0
Number of limited recipients (320-acre entitlement) with full-cost land reviewed	0
Number of limited recipients (0-acre entitlement) with full-cost land (from current water year)	0
Number of limited recipients (0-acre entitlement) with full-cost land reviewed	0
Number of prior law recipients with full-cost land (from current water year)	0
Number of prior law recipients with full-cost land reviewed	0

G. TRUSTS

Total number of trusts holding land in district	0
Total number of trust forms reviewed during this review (number should already be included in Sections B and D above)	0
Have all identified trusts in this district been reviewed? (Yes or no; if no, how many remain to be reviewed?)	N/A
Total number of trusts holding more than 960 acres (list separately)	
<u>Name of Trust</u>	<u># Acres Held by Trust</u>
None	<u>Audited? (Yes, with date /No)</u>

H. ALL LANDHOLDERS HOLDING MORE THAN 960 ACRES (excluding trusts)

<u>Landholder</u>	<u># Acres Held</u>	<u>Audited? (Yes, with date/No/In process)</u>
None		

I. FARM OPERATORS

Total number of farm operators of which Reclamation is aware (include those below 960 acres)

0

Total number of farm operators over 960 acres that submitted farm operator forms

0

Number of farm operators audited or to be audited (list separately; must include all over 960 acres))

Farm Operator
None# Acres OperatedAudited (Yes, with date/No/In process)**J. PUBLIC ENTITIES**Number of public entities above forms submittal threshold in this district (number should already be included in Sections **B** and **D** above)

0

K. RELIGIOUS AND CHARITABLE ORGANIZATIONSNumber of religious and charitable organizations above forms submittal threshold in this district (number should already be included in Sections **B** and **D** above)

0

L. LIST OF INELIGIBLE LAND (OTHER THAN EXCESS) RECEIVING RECLAMATION IRRIGATION WATER (can include class 6, outside district boundaries, etc.)Landholder
None# AcresReason for Ineligibility

M. PRIVACY ACT COMPLIANCE

Is the district aware of and in compliance with Privacy Act requirements (this includes non-automated and automated records)? N/A

Describe how the records are protected. N/A

N. SOURCES OF INFORMATION USED

(Yes/No)

District maps	No
Water delivery records	No
District summary forms and tabulation sheets	Yes
District assessment records	Yes
Water right priority list	No
County records (if so, list county office contacted)	No
Farm Service Agency records (if so, list FSA office contacted)	No
GIS data	No
Onsite reviews (e.g., verifying excess land did not receive Reclamation irrigation water); if so, list purpose of each separately	No
Other (specify):	N/A

O. TRUSTS, LEASES, PARTNERSHIP AGREEMENTS, FARM OPERATING ARRANGEMENTS, ETC. REQUESTED FOR REVIEWLandholder/Farm OperatorDocument Requested for Review

None

P. FORM ERRORS FOUND DURING REVIEW

Type of Error
None

Total Number Found

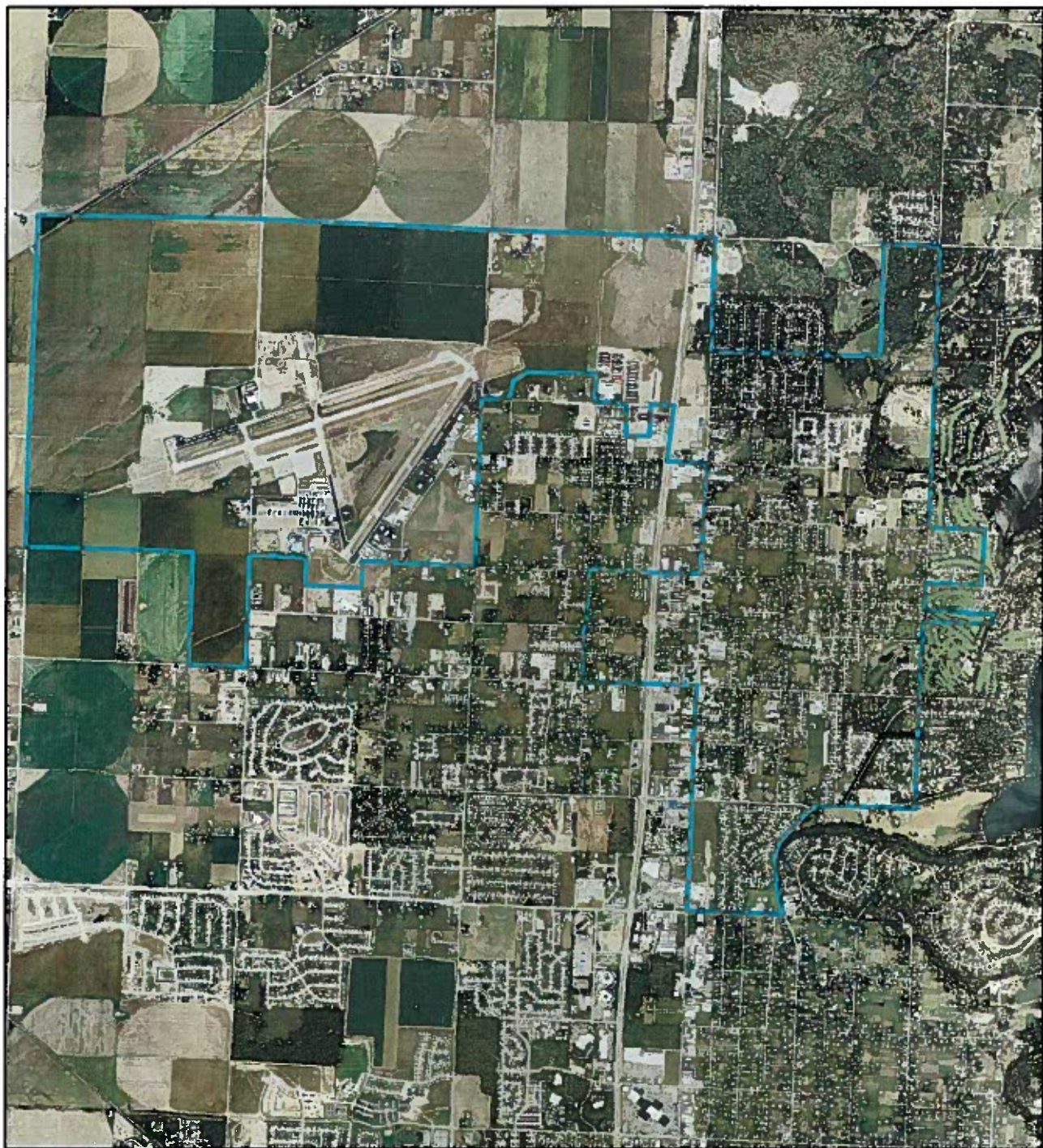
Q. FORM SUBMITTAL PROBLEM OR INELIGIBLE LAND RECEIVING WATER (Also addressed in written narrative section)													
Landholder	# Acres	Water Year	Form #	Date Sign/File	Date H2O Began	TYPE OF SUBMITTAL PROBLEM							
						1	2	3	4	5	6	7	8
None													

- 1 = Form for the direct landowner or lessee not filed
- 2 = Part-owner(s) form(s) not filed
- 3 = Late filer
- 4 = Excess land receiving water
- 5 = Improper rate paid (e.g., receiving Reclamation irrigation water over nonfull-cost entitlement)
- 6 = Farm operating agreement determined to be a lease
- 7 = Attribution of land held by trust incorrect
- 8 = Other (specify here)

95-8909

95-8909

Prior to License



95 - 8909



~~95-08867~~
8909

CD



CD



CD

95-8909



New Avondale Reservoir



Miles AVE Well Site Control BLDG

95-8909



Miles Control BLDG Flowmeter Wells 1-3



Miles AVE Baldor 3 HP Booster Pump

95-8909



Well 3 Miles AVE



Airport Well 1, POU & Unused Reservoir

95-8909



Airport Well 2 Flowmeter

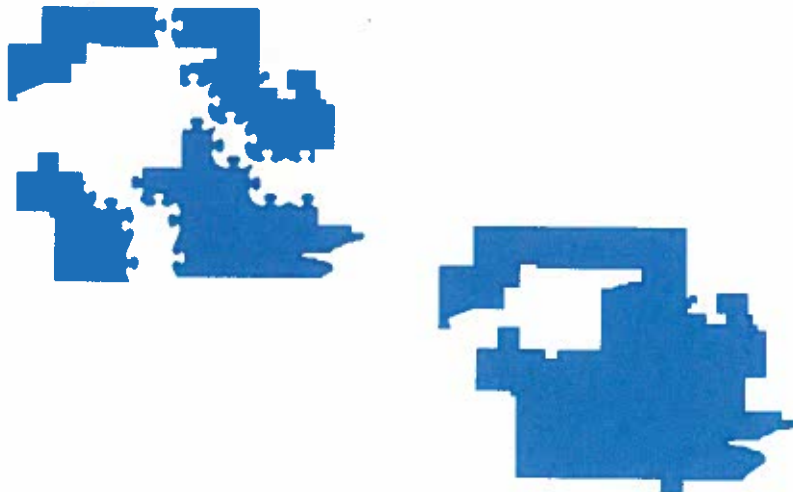


Finucane 75 HP Well Interior

95-8909



**2007
COMPREHENSIVE PLAN
UPDATE**



January 23, 2007

95-8909

FIGURE IID-7: Recent Subdivisions

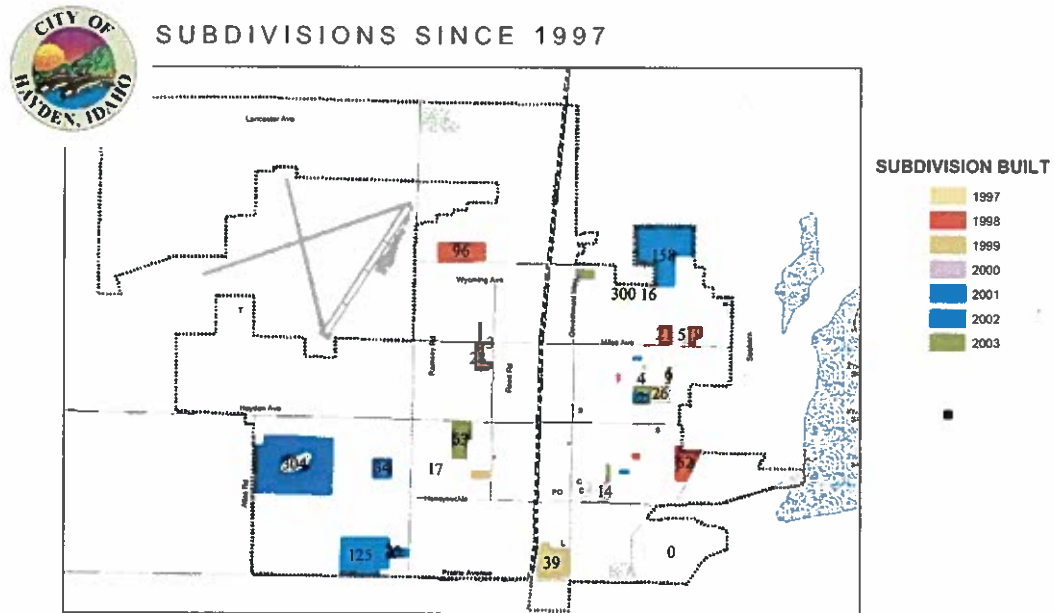
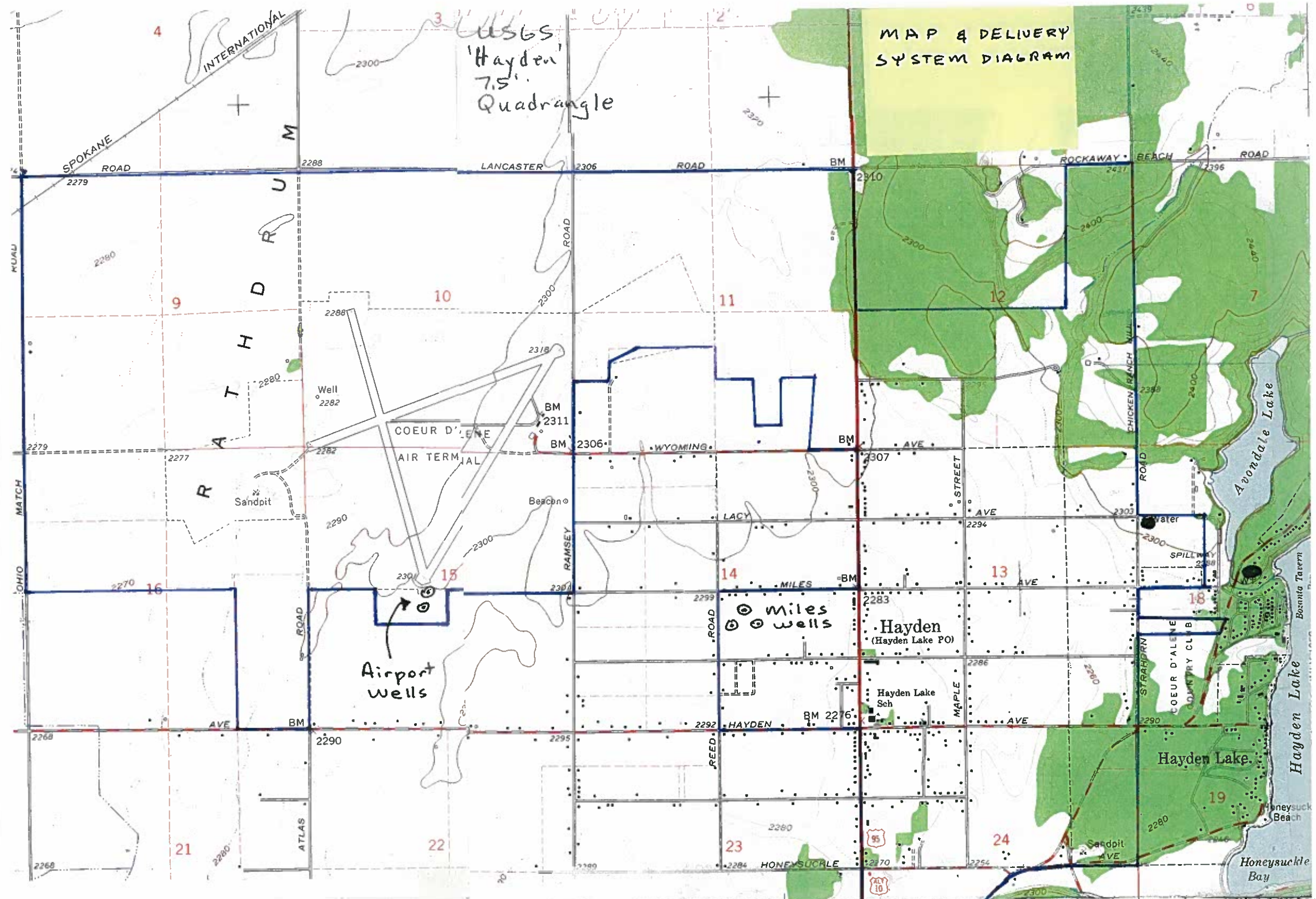


FIGURE IID-8: Number of Units per Residential Structure

Units in Structure	Number of Units	Percent of Total
1 unit, detached	2543	68.6%
1 unit attached	150	4.0%
2 units	119	3.2%
3-4 units	122	3.3%
5-9 units	120	3.2%
10-19 units	22	0.6%
20+ unit	49	1.3%
Mobile Home	580	15.7%
Total Housing Units	3705	100.0%

Source: U.S. Census Bureau, 2000 Census

95-8909



USGS
Coeur d'Alene
7.5' Quadrangle

95-8909

- Well
- Reservoir Tower
- Service Area Boundary