

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22838

Exam Date: 7/19/2013

1. Current Owner: BARBARA DAY
5491 MONTOUR RD
EMMETT ID 83613
(208)584-3003

And

CHRISTOPHER DAY
5491 MONTOUR RD
EMMETT ID 83613
(208)584-3003

2. Accompanied by: Chris & Barbara Day
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. SOURCETRIBUTARY

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 SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW1/4NE1/4
GEM County

Sec. 16, Twp 07N, Rge 01E, B.M.

Method of Determination: Arc Map (Aerial Photo); GPS – Latitude N.43°56.728', Longitude W.116°20.455'; Datum – NVD83.

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
07N	01E	16																	4.5

Total Acres: 4.5

Method of Determination: Arc Map (Aerial Photo); Tax Lots.

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>
D0038466	Franklin_	_5_	_Unknown_	_Grundfos_	_Unknown_
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

*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>
_____N/A_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

2. Measurements: No field measurement. Irrigation system was not in operation during the field exam. Four (4) Impact sprinklers with 7/32" nozzles per station. Assume an operating pressure of 40 psi. $Q = 4 \times 9.02 \text{ gpm} = 36.08 \text{ gpm} \sim 0.08 \text{ cfs}$.

E. FLOW CALCULATIONS

_____Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 5/200 + (2.31 \times 40) = 30.8/292.4 = 0.10 \text{ cfs}$$

$$Q(\text{sprinklers}) = 4 \times 9.02 \text{ gpm} = 36.08 \text{ gpm} \sim 0.08 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.10 \text{ cfs} > 0.08 \text{ cfs } Q(\text{sprinkler}) < 0.15 \text{ cfs } Q(\text{permit})$$

$$HP = 5$$

$$P = 40 \text{ psi (Assumed)}$$

$$Z = 200'$$

Appears that the current pumping system cannot attain the permit diversion rate of 0.15 cfs.

Recommend the theoretical pumping capacity of 0.10 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 4.5 \times 4.5 = 20.3 \text{ AFA}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.10 \times 260 \times 1.9835 = 51.6 \text{ AFA}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 20.3 \text{ AFA}$$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS**WATER SUPPLY SYSTEM:**

A 5-hp submersible pump diverts ground water for irrigation of approximately 4.5 acres of pasture and lawn and landscaping.

IRRIGATION SYSTEM:

The pressurized irrigation system is comprised of ten (10) stations. Nine (9) stations are used to irrigate the pasture areas, and one (1) station is used to irrigate the lawn and landscaping. Each stations for irrigation of the pasture areas operates with four (4) Impact sprinklers with 7/32" nozzles. Each sprinkler is connected to a 2' – 3' riser. The risers are attached to wood posts for support. The lawn and landscaping areas are irrigated with a mixture of rotary and spray pop-up sprinklers.

OVERLAP ANALYSIS:

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 65-22838.

Place of Use: There are no place of use overlaps for Water Right Permit No. 65-22838.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.15	&/or	N/A
Beneficial Use Limit	0.14	&/or	N/A
System Measurement	0.10(theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.10	&/or	N/A

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	03/01 to 11/15	0.100 CFS	20.3 AFA
<u>Totals:</u>		0.100 CFS	20.3 AFA

2. Recommended Amendments

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

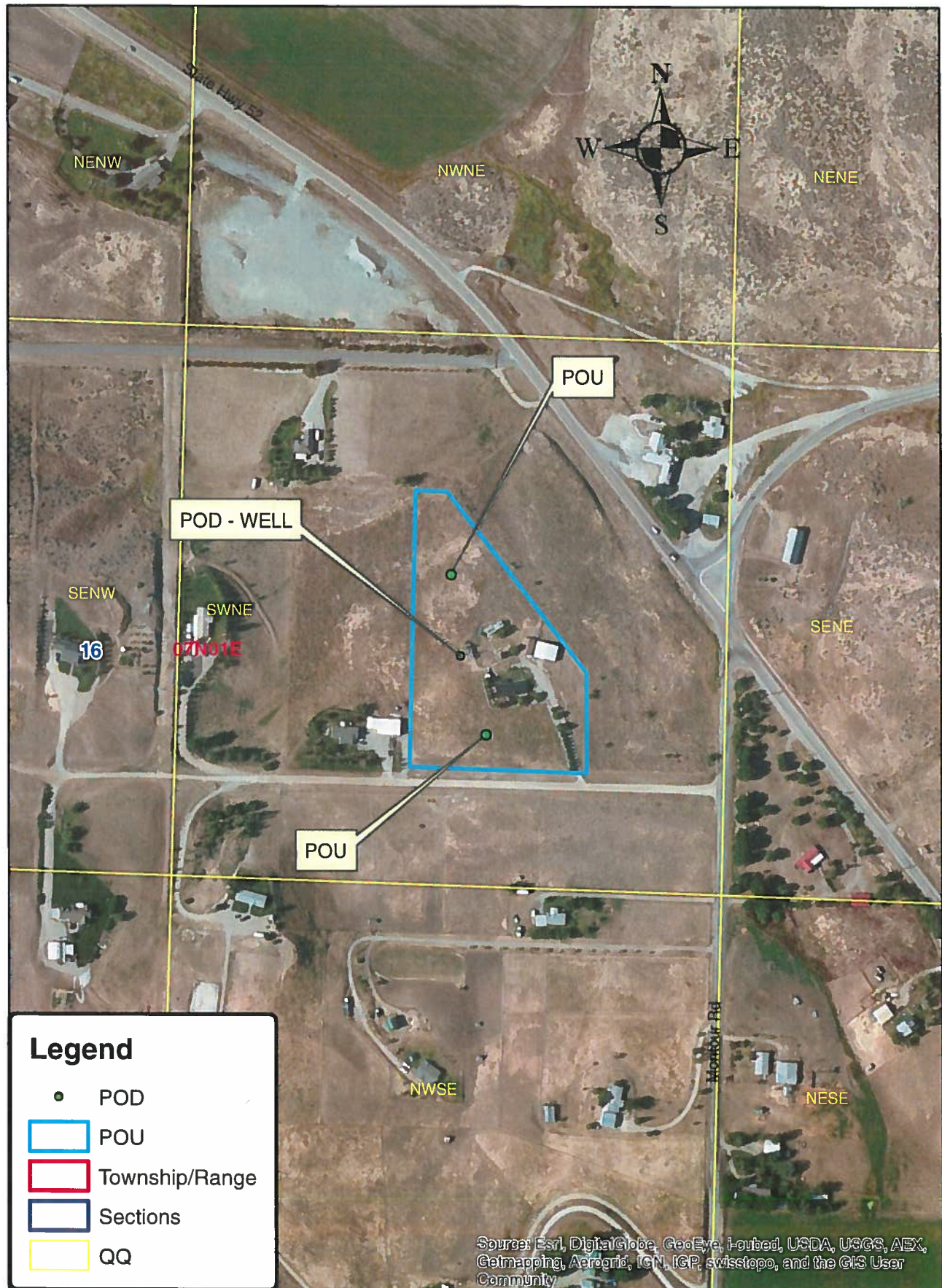
☐ Change P.U. as reflected above
 ☐ Add P.U. as reflected above
 ☐ Other

I. AUTHENTICATION

Field Examiner's Name *Rick Collingwood* Date 11/25/13
 Reviewer _____ Date _____

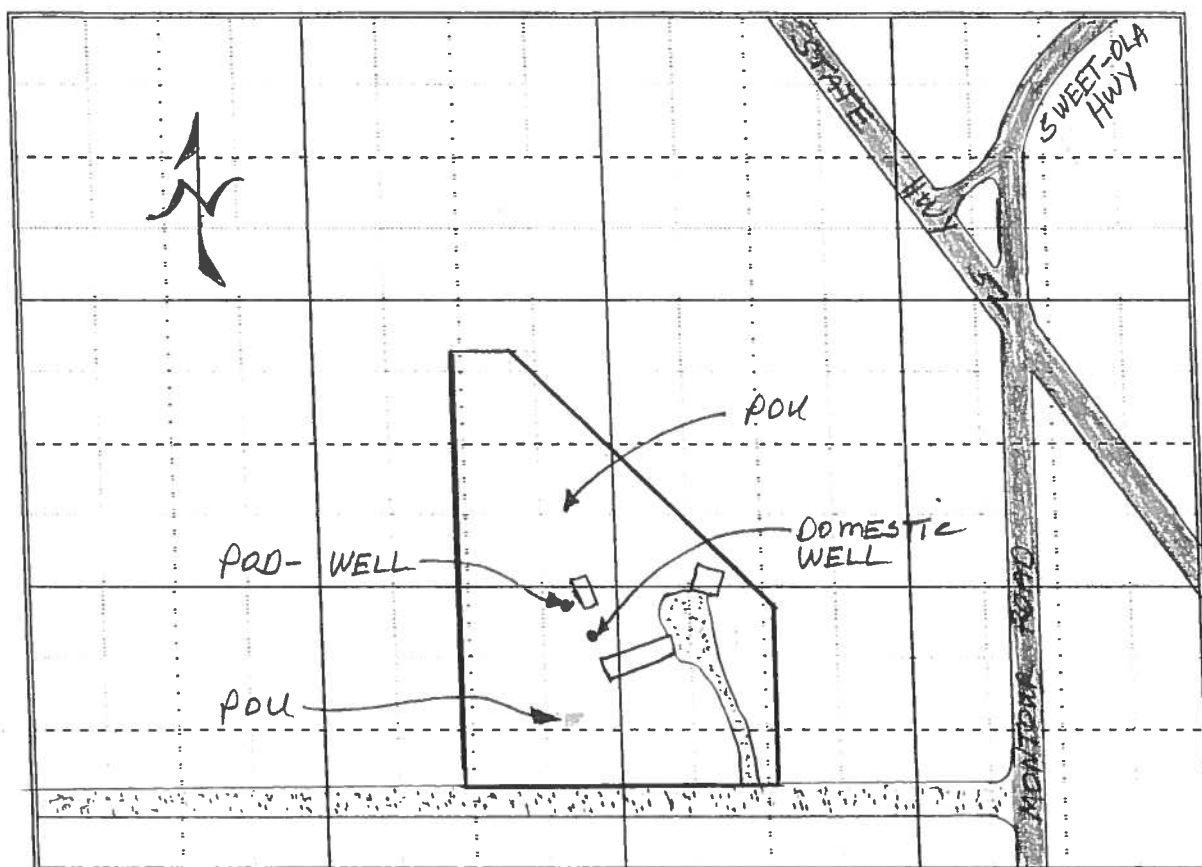
65-22838

ESRI AERIAL PHOTO - 2012



0 105 210 420 630 840
Feet

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" = NTS

- ☐ 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

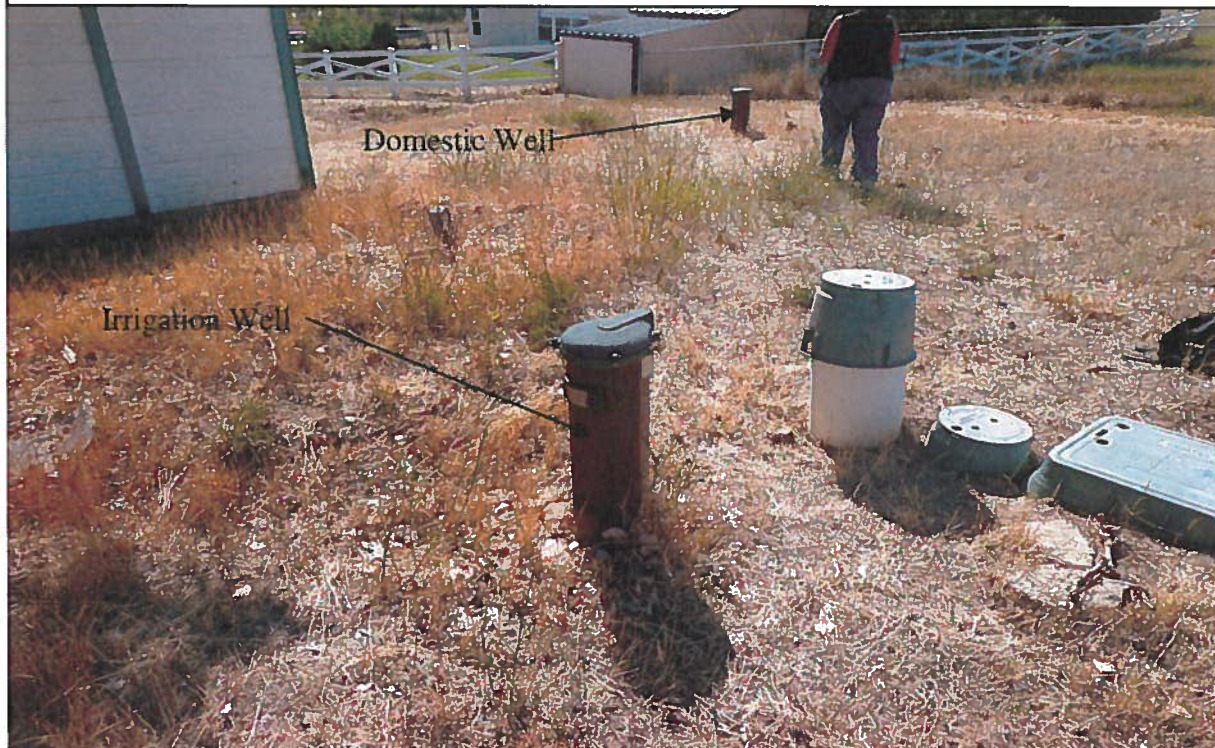
FIELD EXAM PHOTOS

Water Right Permit: 65-22838

Field Exam Date: 7-19-13

PLS: SW1/4, NE1/4 Section 16, T.07N, R.01E.

Field Examiner: RC



Point of Diversion: View southeasterly of the irrigation ground water well. The domestic well which serves the home is shown in the background.



Place of Use: View northwesterly of the pasture area north of the home. Impact sprinklers are located on the westerly boundary of the property.



Place of Use: View southerly of the pasture area west and south of the home. Impact sprinklers extend southerly across the right holder's property.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

June 7, 2013

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

Diana Siderides
P.O. Box 545
Bozeman, MT 59771

Re: Water Right Permit No. 65-22838

Dear Diana:

Last summer, I contacted you to conduct a field exam for your Water Right Permit No. 65-22838. However, you indicated that you had moved or was in the process of moving and that you were selling your property. I contacted the new owners, Christopher and Barbara Day, to discuss the water right permit for the property, and to provide two options available to them to transfer the water right permit or water right into their name.

Since the water right is still in the permit stage, there exists an option to assign your water right permit to the Day's. In order for an assignment to take place, you would need to execute the enclosed 'Assignment of Permit' form, which needs to be notarized, and forward to the Day's for submission to the Department. The \$25 fee would be paid by the Day's.

Another option for the Day's would be to file a 'Change of Ownership' upon licensure of the water right. However, this process is comprised of several tasks and can be quite lengthy.

If you do not wish to execute the 'Assignment of Permit', please let me know so I can inform the Day's that they will need to file a 'Change of Ownership' once the water right permit has been licensed.

If you have any questions, you can contact me at (208) 334-2190, or by e-mail at rick.collingwood@idwr.idaho.gov.

Sincerely,

Rick Collingwood, P.E.
Water Resource Agent, Sr.



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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

May 29, 2013

Christopher J. & Barbara J. Day
5491 Montour Road
Emmett, ID 83617-5004

Re: Water Right Permit – 65-22838

Dear Mr. & Mrs. Day:

I am writing to inform you of an existing water right permit which exists on your property at 5491 Montour Road, Emmett, Idaho. A water right permit is not a water right, but a permit issued by the Department to allow the beneficial use of water as requested by the applicant. The beneficial use for the water right permit is to divert ground water from a well for irrigation of 4.5 acres.

The water right permit was issued to the previous owner, Diana Siderides. Last summer I contacted Diana to schedule a field exam. However, she indicated that she had moved to Montana and that the property was being sold.

In order to proceed with obtaining a water right for the irrigation system on your property, there are two options available which transfers the water right ownership to you. The first option would be to have the Ms. Siderides assign the permit to you. If you have contact information for Ms. Siderides, we can submit an 'Assignment of Permit' form to her for her execution. The process fee for an 'Assignment of Permit' is \$25.00. If contact information is not attainable for the Ms. Siderides, the next option would be to proceed with obtaining the water right under the Ms. Siderides name. Upon issuance of the water right, you will then need to execute a 'Change of Ownership'. This will officially transfer the water right ownership to you. The process fee for the 'Change of Ownership' is \$25.00.

The next step which needs to take place to proceed with the issuance of the water right is to conduct a field examination. The field examination is required to verify that the permit information is accurate, and if possible to obtain a water flow measurement. If the ground water is no longer being put to beneficial use for irrigation of 4.5 acres, please let me know and we will proceed with relinquishment or voidance of the water right permit. However, if you are beneficially using the ground water for irrigation, you are required to obtain a water right from our Department.

If you have any questions, you can contact me at the Idaho Department of Water Resources Western Region Office at (208) 334-2190, or by e-mail at rick.collingwood@idwr.idaho.gov.

Sincerely,

A handwritten signature in black ink, reading "Rick Collingwood". The signature is written in a cursive style with a large, looping "R" and a long, sweeping underline.

Rick Collingwood, P.E.
Water Resources Agent, Sr.