

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22712

Exam Date: 5/28/2013

1. Current Owner: STONECREEK ESTATES HOMEOWNERS ASSN
2360 UA AVENUE
EMMETT, ID 83617-9811
(208)365-0961
2. Accompanied by: Thomas Martin
Phone No: Same
Address: Same
Relationship to Permit Holder: President, Stone Creek Estates Homeowner's Association

3. SOURCE TRIBUTARY
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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L3(NW1/4SW1/4) Sec. 31, Twp 07N, Rge 01W, B.M.
GEM County

Method of Determination: Arc Map (Aerial Photo); GPS - Latitude N.43°53.911', Longitude 116°30.700'; Datum - NAD83.

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>	
07N	01W	31										X							
												L3							

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>
<u>D0019783</u>	<u>Franklin</u>	<u>5</u>	<u>Unknown</u>	<u>Gould</u>	<u>2"</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

*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>
<u>N/A</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

2. Measurements: No field measurement. Domestic internal use is pressurized by two (2) pressure tanks. Operating gauge pressure of 72 psi.

E. FLOW CALCULATIONS Additional Computation Sheets Attached

Measured Method: (Theoretical Horsepower Equation)

$$Q = 8.8 \times 0.7 \times 5/84 + (2.31 \times 72) = 30.8/250.3 = 0.12 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.12 \text{ cfs} > 0.11 \text{ cfs } Q(\text{permit})$$

$$HP = 5$$

$$P = 72 \text{ psi}$$

$$Z = 84'$$

Appears that the current pumping system can attain the permit diversion rate of 0.11 cfs. Recommend the permit diversion rate of 0.11 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: (Community Well)

Homes – 5

Domestic Volume per Home = 0.60 AFA

V = 5 homes x 0.6 AF/home = 3.0 AFA

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

A 5-HP submersible pump diverts water from a ground water well, located on Lot 4 of the Stone Creek Estates Subdivision, to serve five (5) homes. The water use is limited to domestic internal use. Surface water for irrigation of the lawns, landscaping, and gardens, is provided by the Emmett Irrigation District.

OVERLAP ANALYSIS:

Point of Diversion: No point of diversion overlaps for Water Right Permit No. 65-22712 ground water well.

Place of Use: No place of use overlaps for Water Right Permit No. 65-22712 for the domestic internal use for the five homes which comprise the Stone Creek Estates Subdivision.

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

RATE &/OR STORAGE RECOMMENDED FOR LICENSING

Description	Rate of Flow (cfs)		Storage (af)
Permit Amount	0.11	&/or	N/A
Beneficial Use Limit	0.11	&/or	N/A
System Measurement	0.12 (theoretical)	&/or	N/A
Proof Fee Amount	0.20	&/or	N/A
Recommended Amount	0.11	&/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>
DOMESTIC	01/01 to 12/31	0.110 CFS	3.00 AFA
<u>Totals:</u>		0.110 CFS	3.00 AFA

2. Recommended Amendments

___ Change P.D. as reflected above ___ Add P.D. as reflected above X None

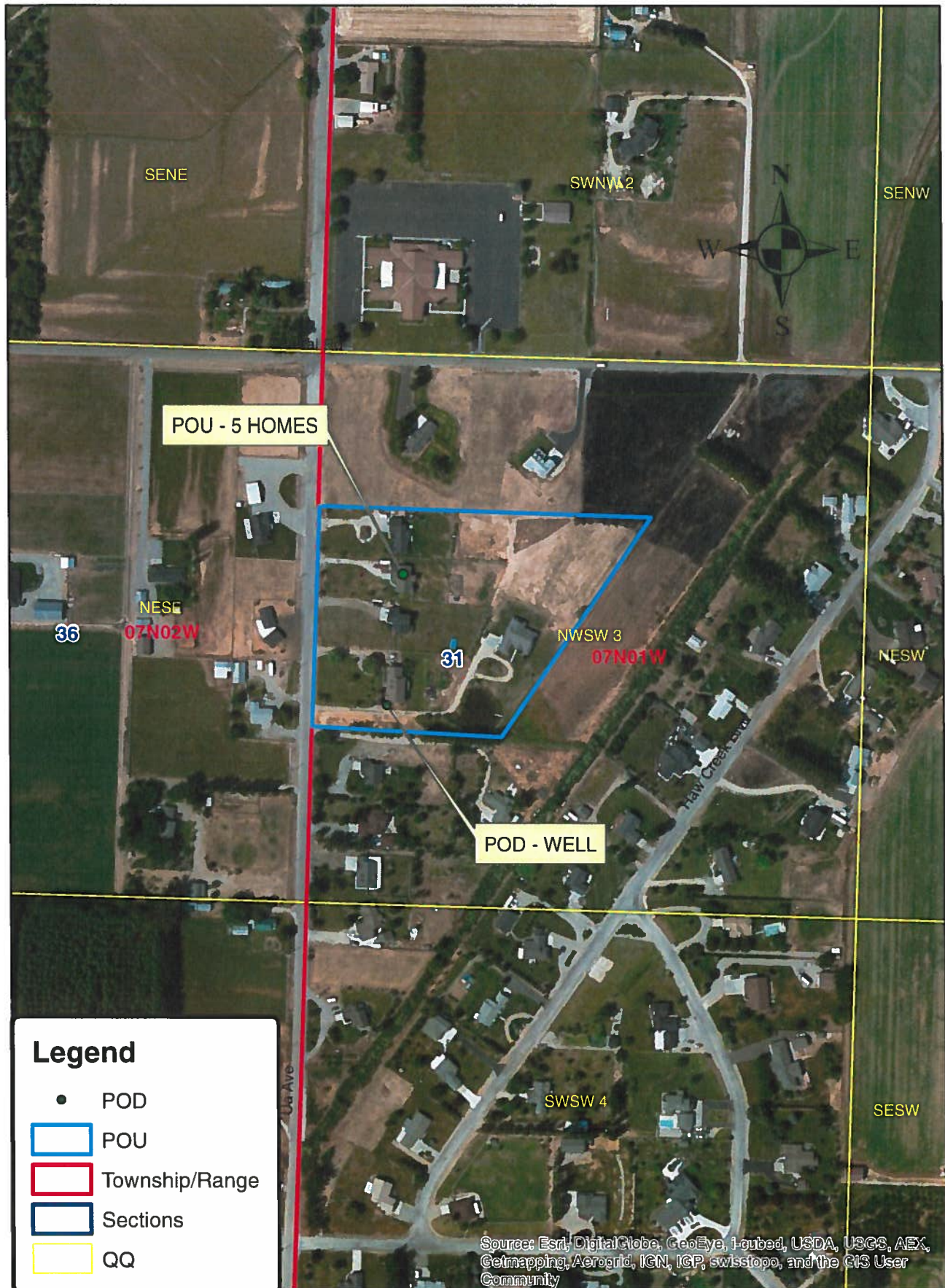
___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

Field Examiner's Name Rick Collingwood Date 9/25/13

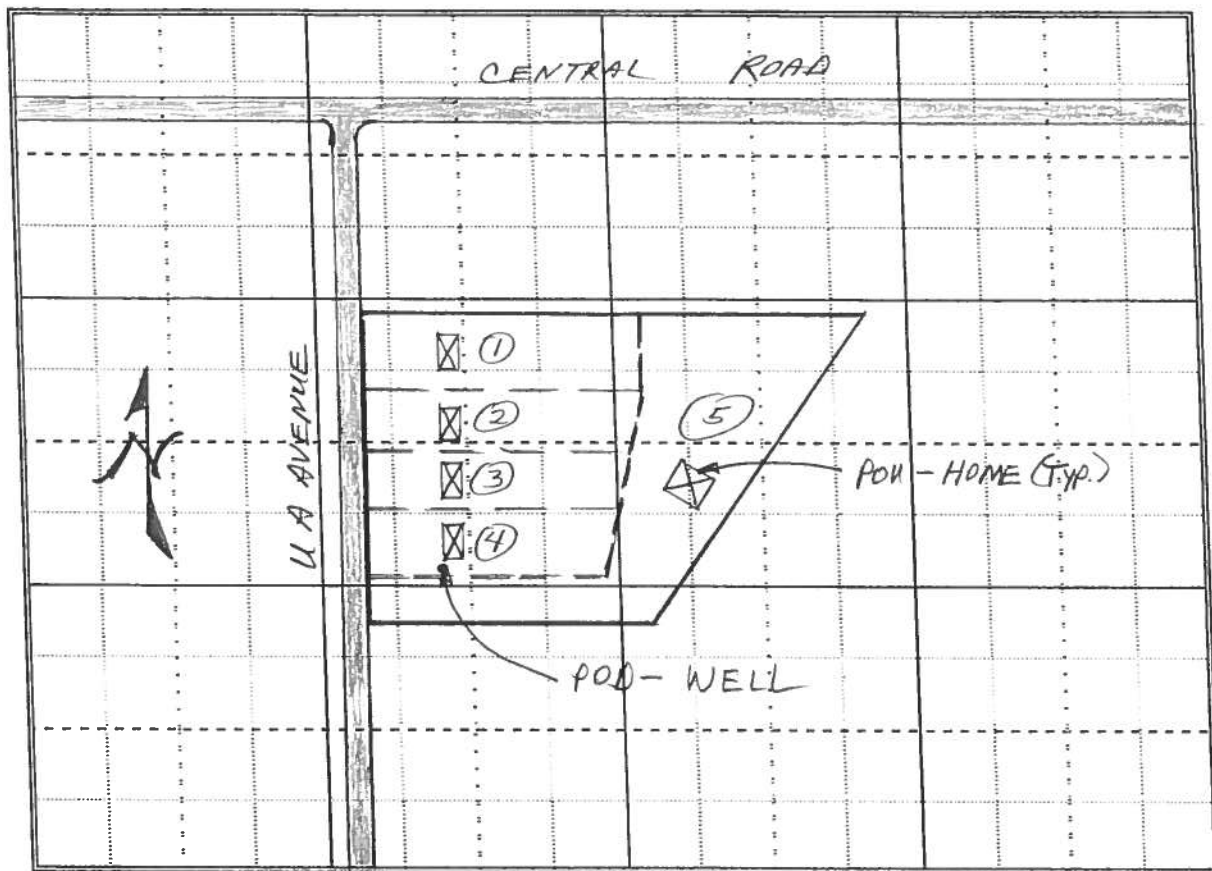
Reviewer _____ Date _____

65-22712
GOV'T. LOT 3 ESRI AERIAL PHOTO - 2012



0 110 220 440 660 880
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

876599-775885
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. D 19783
 DRILLING PERMIT NO. _____
 Other IDWR No. 65-22712

2. OWNER:

Name Darwin Hillman
 Address 4997 SE 4th Ave
 City New Plymouth State ID Zip 83655

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		E		S		W	
Twp. <u>7</u>		North ☒ or South ☐		Rge. <u>1</u>		East ☐ or West ☒	
Sec. <u>31</u>		1/4 <u>NW</u> 1/4 <u>SW</u> 1/4		Gov't Lot _____		County <u>Gem</u> 10 acres 160 acres	
Lat: _____		Long: _____		Address of Well Site <u>2360 U.A. Ave.</u>			
				City <u>Emmett</u>			

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

Lt. _____ Blk. _____ Sub. Name Stone Creek Estates

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	
<u>Bentonite</u>	<u>0</u>	<u>20'</u>	<u>400</u>	<u>Pour</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 98

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

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8"</u>	<u>+2</u>	<u>98'</u>	<u>250</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
 Screens _____ Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

40 ft. below ground Artesian pressure _____ lb.
 Depth flow encountered 100 ft. Describe access port or control devices: well cap

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>100</u>	<u>90</u>	<u>90</u>	<u>1 hr.</u>

Water Temp. _____ Bottom hole temp. _____
 Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>12"</u>	<u>0</u>	<u>3'</u>	<u>Top Soil</u>		☒
<u>12"</u>	<u>3'</u>	<u>20'</u>	<u>Brown Clay</u>		☒
<u>8"</u>	<u>20'</u>	<u>50'</u>	<u>Gravel</u>		☒
<u>8"</u>	<u>50'</u>	<u>58'</u>	<u>Gravel</u>	☒	☒
<u>8"</u>	<u>58'</u>	<u>95'</u>	<u>Sand + Clay Strips</u>	☒	
<u>8"</u>	<u>95'</u>	<u>100'</u>	<u>Brown Clay</u>		☒
<u>8"</u>	<u>100'</u>	<u>105'</u>	<u>Sand & Clay Strips</u>	☒	

Completed _____ Depth 100 ft. (Measurable)
 Date: Started 3-26-02 Completed 3-27-02

13. DRILLER'S CERTIFICATION

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

Company Name George Post Well Drilling Firm No. 563

Firm Official [Signature] Date 3-29-02

and Driller or Operator _____ Date _____

FIELD EXAM PHOTOS

Water Right Permit: 65-22712

Field Exam Date: 5-28-13

PLS: NW1/4, SW1/4 Section 31, T.7N, R.01W.

Field Examiner: RC



View northeasterly of the ground water well pump house located on Lot 4, Stone Creek Estates Subdivision. A backup propane generator is shown behind the pump house to provide backup power during power outages.



Point of Diversion: View westerly of the ground water well located behind the pump house. The backup propane generator is shown near the northwest corner of the pump house.



Place of Use: View northwesterly of homes being served by the ground water well for internal domestic use.



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

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

May 17, 2013

Stone Creek Estates Homeowner's Association
c/o Thomas and Colleen Martin
2360 UA Avenue
Emmett, ID 83617-9811

RE: Scheduling Field Exam for Water Right Permit No. 65-22712

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of May 27, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.11 cfs of ground water for domestic use for five (5) homes.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by May 24, 2013, to conduct the exam during the week of May 27, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Rick Collingwood". The signature is written in a cursive, flowing style.

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



State of Idaho

DEPARTMENT OF WATER RESOURCES

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C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

May 3, 2013

Stone Creek Estates Homeowner's Association
4997 S. 4th Avenue
New Plymouth, ID 83655

RE: Scheduling Field Exam for Water Right Permit No. 65-22712

We are planning to **conduct water right field examinations** in the vicinity of the above-referenced permit **during the week of May 13, 2013**. An examination is needed to verify your water use in order to issue a water right license.

Please be advised that you will need to operate your system under normal operating conditions during the examination. The permit authorizes the diversion of 0.11 cfs of ground water for domestic use for five (5) homes.

In order to conduct your exam as efficiently as possible, we ask that you call this office to schedule a day and time convenient for you. **Please call me at 208-334-2190 by May 10, 2013, to conduct the exam during the week of May 13, 2013.** If there is a problem with scheduling or conducting the examination at this time, please let me know so we can reschedule or make other arrangements.

I appreciate your attention to this matter and I look forward to hearing from you.

Sincerely,

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Rick Collingwood, P.E.
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