

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 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 Size</u>
D0054625	Cummins	252	46885574	Randolph	R0808064

*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>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

2. Measurements:

PUMP EQUATIONS WATER RIGHT No. 95-9391						
		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	HP*8.8*Eff/H	200	265.0816327	0.7	161	45
Q =	4.655 cfs 2089.3 gpm					

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: None

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

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

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

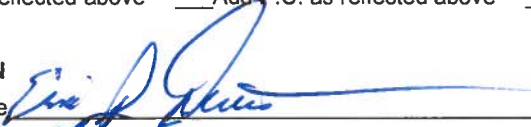
2. Volume Calculations for Other Uses:
- No volume for the use of fire Protection.**

G. NARRATIVE/REMARKS/COMMENTS: This system was tested to provide 3.90cfs for Fire.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>
FIRE PROTECTION	01/01 to 12/31	3.900 CFS
<u>Totals:</u>		3.900 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

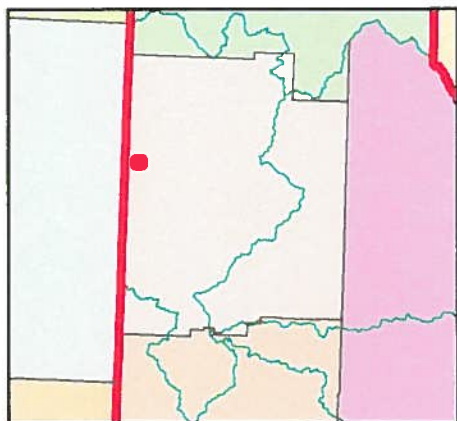
I. AUTHENTICATIONField Examiner's Name  Date 1-23-2012Reviewer  Date 1-27-2012



Idaho Department of Water Resources

Application
95-9391
(FIRE PROTECTION)

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

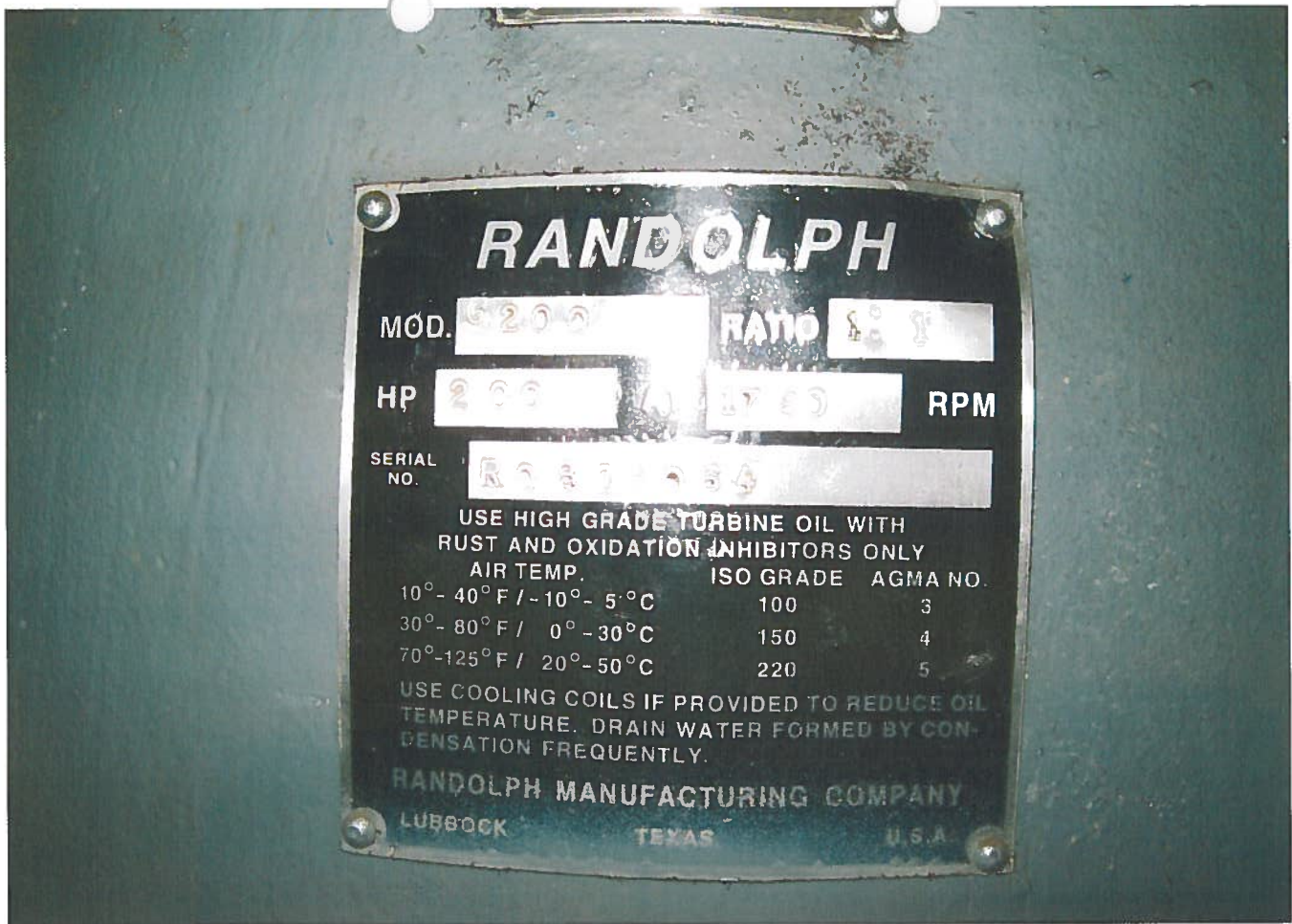


Kootenai County
IDWR Basin 95

Prepared by Davis, Eric

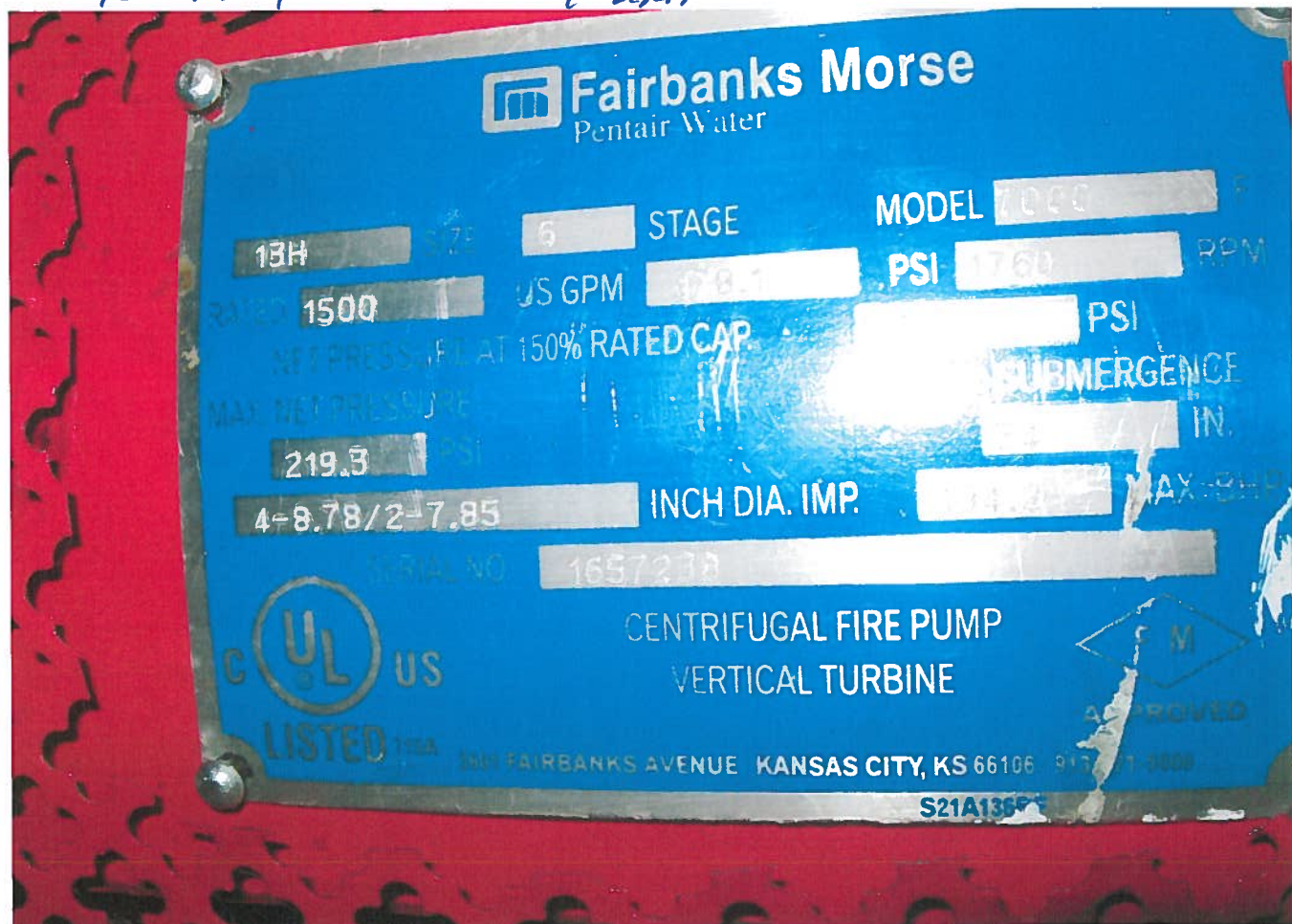
2009 Aerial Photography

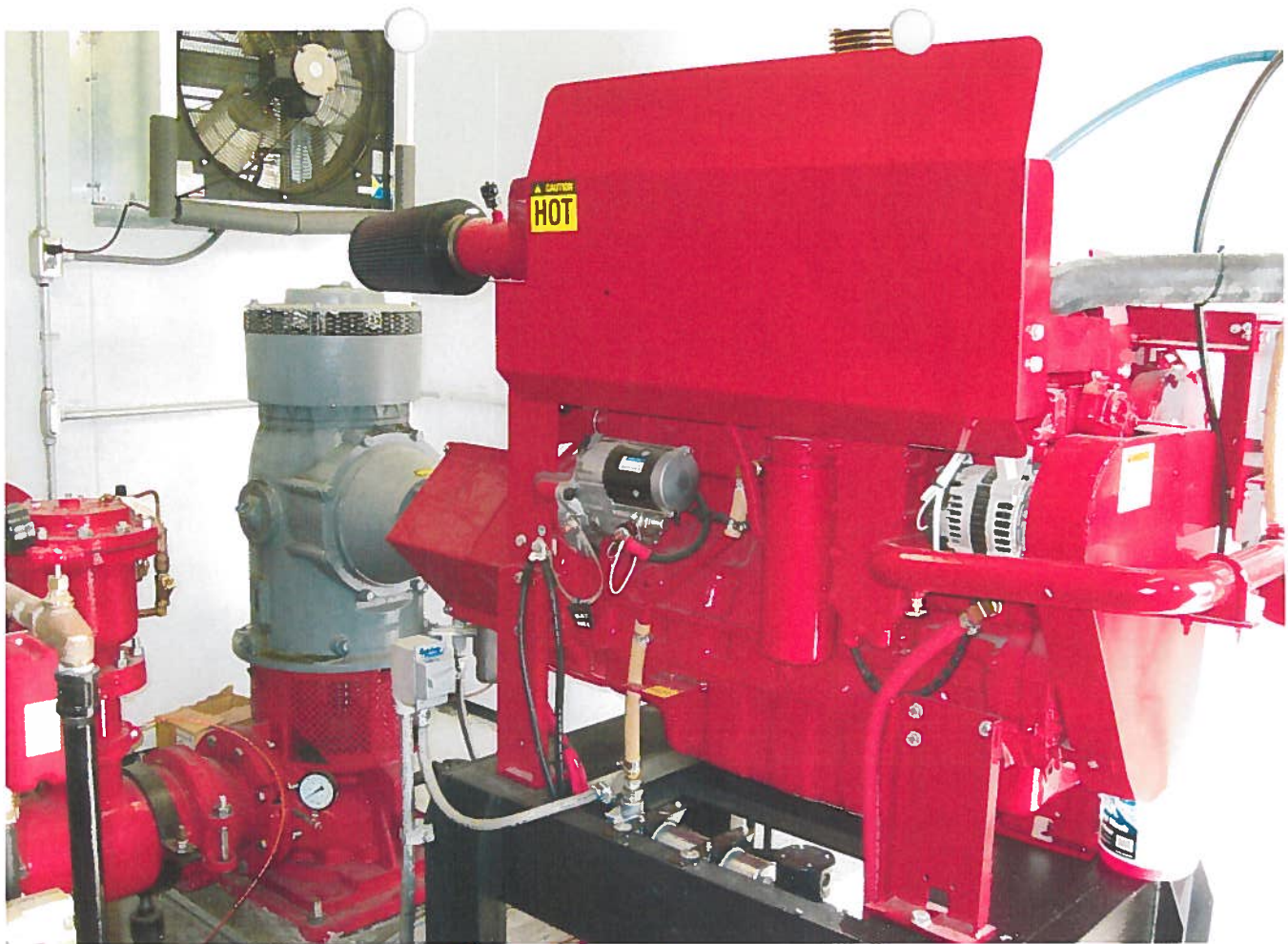




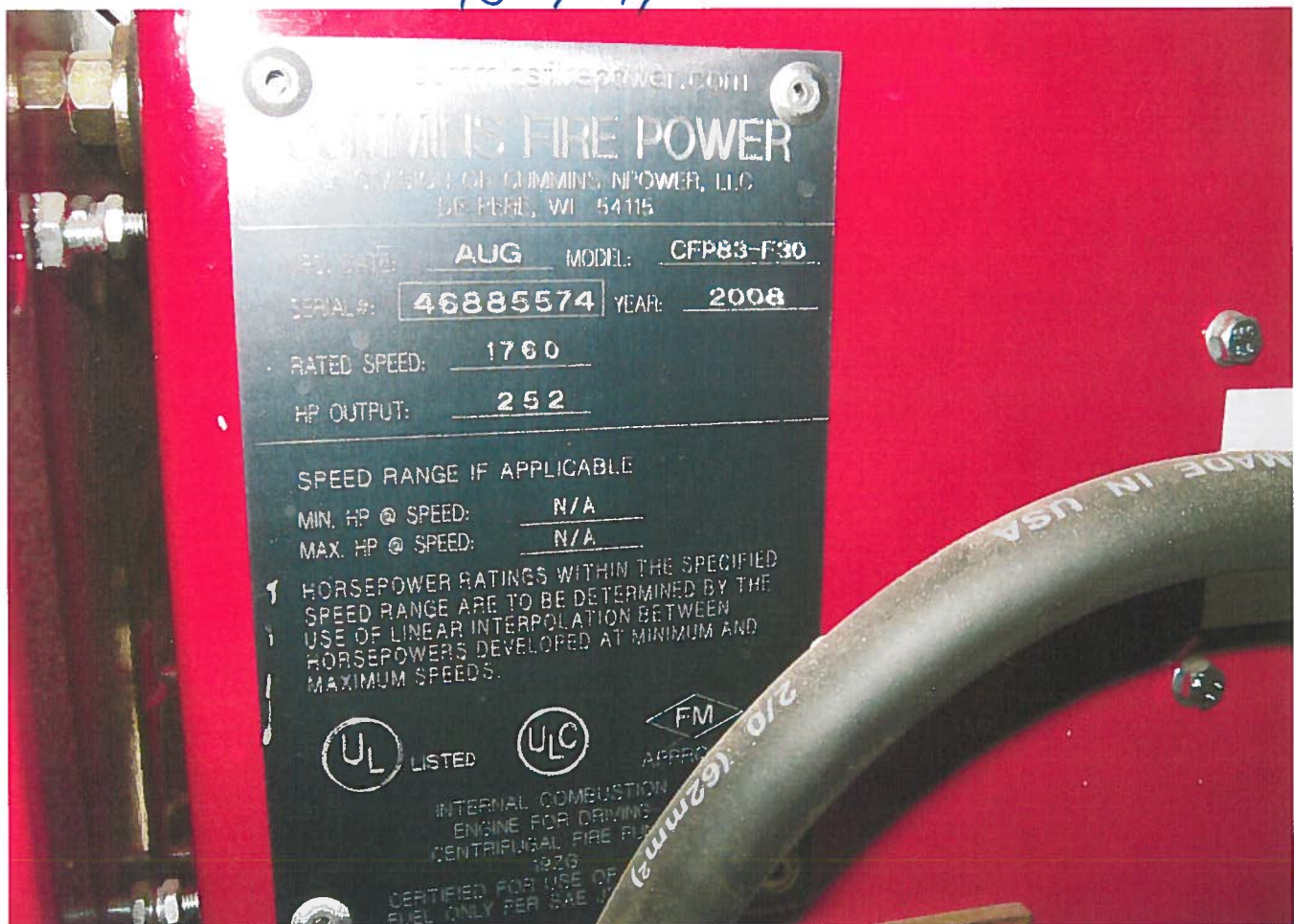
95-9391

Pump





95-9391



JUAL STOP



JTO/MANUAL
- RE-SELECT MANUAL - SWITCH
- INSTRUMENT PANEL FROM
MANUAL TO AUTO

YPASS VALVE
RETURN BY-PASS TO
AUTO CONFIGURATION

.NUAL STOP



FACTORY SETTING

POINT SPEED SETTING	1760
AUTOMATED SWITCH SETTING	2024

FIELD SETTING

FIELD SPEED SETTING	
FIELD SWITCH SETTING	
FIELD AUTOMATED SWITCH SETTING	

JOHN DEERE POWER

MODEL	4445	4445	4445
HP	4445	4445	4445
RATED RPM	1760		
AT 1500	252		

SPEED RANGE IF APPLICABLE

MIN. HP & SPEED	N/A
MAX. HP & SPEED	N/A

POWER RATING: WITHIN THE SPECIFIED SPEED RANGE ARE TO BE DETERMINED BY THE USER. LINEAR INTERPOLATION BETWEEN POWER RATING DEVELOPED AT MAXIMUM SPEED.

UL LISTED UL

INTERNAL COMPONENTS FOR CONTINUOUS OPERATION

DESIGNED FOR FIELD ONLY USE

WARNING

CURRENT - 50/60 AMPERES
PRESSURE CONTROLLER IS PROPER

System Data 95-9391



Kootenai County Solid Waste WR# 95-9391

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. D0054625

Drilling Permit No: 95-9391 851903

Other IDWR No.

2. OWNER

Well Number:

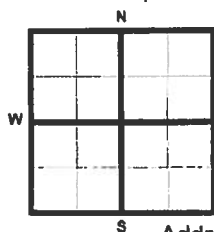
Name KOOTENAI COUNTY SOLID WASTE 1453

Address P.O. BOX 6300

City COEUR D'ALENE State ID Zip 83816

3. LOCATION OF WELL by legal description

sketch map location must agree with written location

Twp. 51N ☒ North or ☐ SouthRge. 05W ☐ East or ☒ West

Sec. 29 1/4 NW 1/4 NE 1/4

Gov't Lot County KOOTENAI

Latitude: Longitude:

Address of Well Site Prairie Ave.
City POST FALLS

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

Lt. Blk. Sub. Name

4. USE:

Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐
 Thermal ☐ Injection ☐ Other ☒ Fire Protection

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	
CEMENT	0	20	2,700 lbs	PUMPED

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 165Was drive shoe seal tested? ☐ Y ☒ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
20	0	175	.375	STEEL	☒	☐	☒	☐

Length of Headpipe 10' Length of Tailpipe 10'

9. PERFORATIONS/SCREENS

☐ Perforations Method
☒ Screens Screen Type Stainless

From	Slot Size	Number	Diameter	Material	Casing	Liner
175	235	70	3	19	SS	

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

115 ft. below ground Artesian pressure lb.

Depth flow encountere 230 ft. Describe access port or control devices:

11. WELL TESTS:

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
2500	3.7	161	2HRS

Water Temp. COLD Bottom Hole Temp COLD

Water Quality test or comments: GOOD

Depth first Water encountered 135

12. LITHOLOGIC LOG:(Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality, Temperature	Water	
				Y	N
24	0	2	Top Soil	☐	☒
24	2	14	Tan Clay, Cobble & Gravel	☐	☒
24	14	20	Sand & Gravel	☐	☒
20	20	97	Sand, Gravel & Large Rocks	☐	☒
20	97	99	Boulders	☐	☒
20	99	140	Sand & Large Cobble	☒	☐
20	140	161	Large Gravels	☒	☐
20	161	196	Coarse Sand & Gravel	☒	☐
20	196	235	Coarse Sand & Lg Gravel	☒	☐

RECEIVED
 NOV 05 2008
 IDWR/North

Completed Depth 235 (Measurable)
 Date: Started 6/16/2008 Completed 8/27/2008

13. DRILLER'S CERTIFICATION

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

Firm Name H2O Well Service, Inc. Firm No. 448

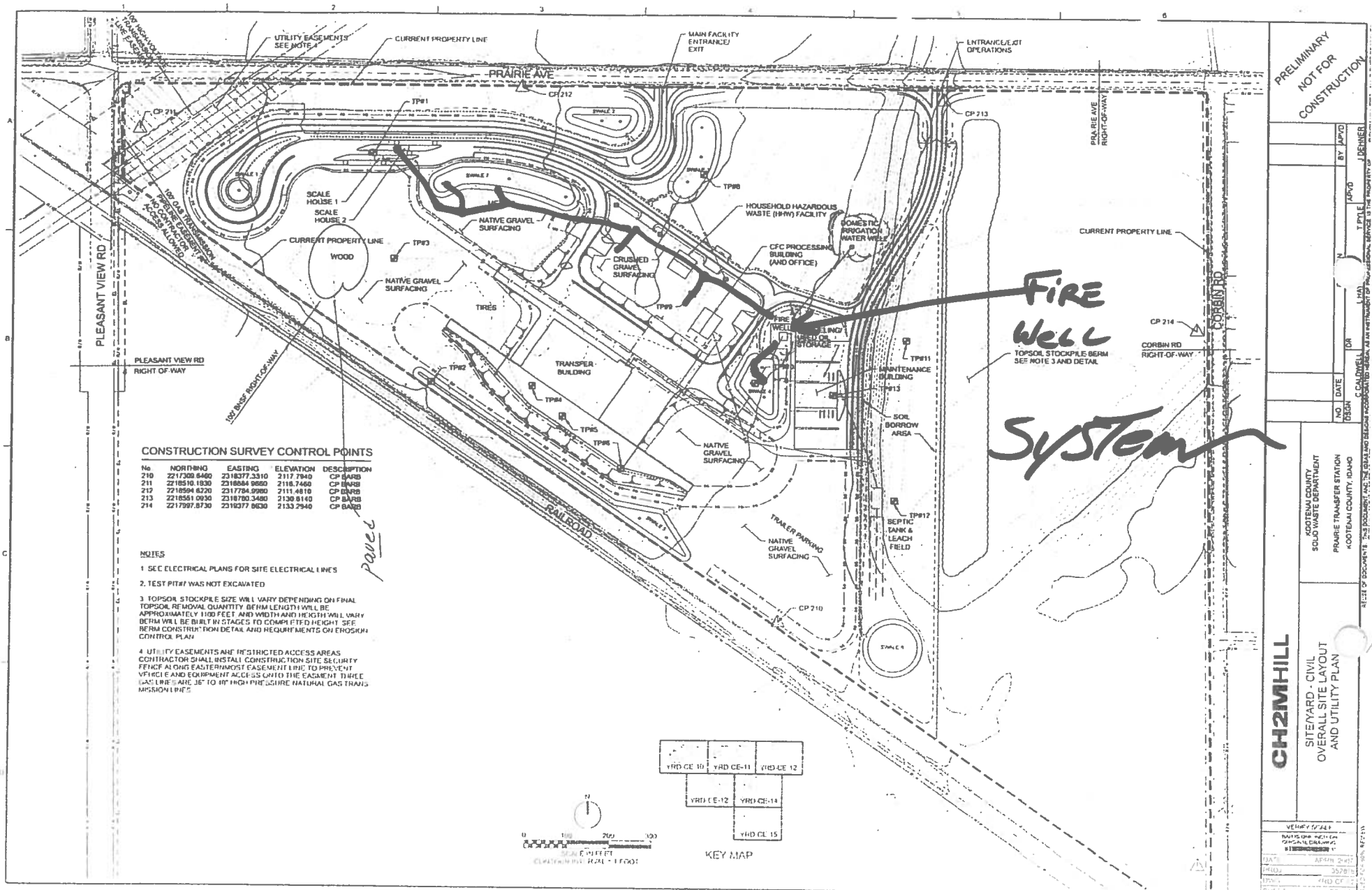
Firm Official Date

and

Supervisor or Operator Date 08/27/2008

LOUIE HANNER (Sign Only if Firm Official and Operator)

51N 05W 29



CONSTRUCTION SURVEY CONTROL POINTS

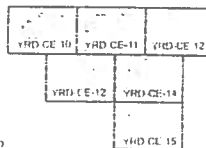
No	NORTHING	EASTING	ELEVATION	DESCRIPTION
210	2217309.8460	2318377.3310	2117.7940	CP 210
211	2218510.1930	2318884.9080	2118.7460	CP 211
212	2218594.6220	2317794.3980	2111.4810	CP 212
213	2218551.0930	2318790.3480	2130.8160	CP 213
214	2217997.8730	2318377.8630	2133.2940	CP 214

NOTES

1. SEE ELECTRICAL PLANS FOR SITE ELECTRICAL LINES
2. TEST PIT#1 WAS NOT EXCAVATED
3. TOPSOIL STOCKPILE SIZE WILL VARY DEPENDING ON FINAL TOPSOIL REMOVAL QUANTITY. BERM LENGTH WILL BE APPROXIMATELY 100 FEET AND WIDTH AND HEIGHT WILL VARY. BERM WILL BE BUILT IN STAGES TO COMPLY TO HEIGHT. SEE BERM CONSTRUCTION DETAIL AND REQUIREMENTS ON EROSION CONTROL PLAN.
4. UTILITY EASEMENTS AND RESTRICTED ACCESS AREAS. CONTRACTOR SHALL INSTALL CONSTRUCTION SITE SECURITY FENCE ALONG EASTERNMOST EASEMENT LINE TO PREVENT VEHICLE AND EQUIPMENT ACCESS ONTO THE EASEMENT. THREE (3) LINE'S ARE 36" TO 48" HIGH PRESSURE NATURAL GAS TRANSMISSION LINES.

paved

Fire Well System



PRELIMINARY
NOT FOR
CONSTRUCTION

NO. DATE
BY JAPD
TPOLE J DENNER

KOOTENAI COUNTY
SOLID WASTE DEPARTMENT
PRABH TRANSFER STATION
KOOTENAI COUNTY, IDAHO

CH2MHILL
SITE YARD - CIVIL
OVERALL SITE LAYOUT
AND UTILITY PLAN

DATE: 12/24/13
PROJECT: PRABH TRANSFER STATION
SHEET: 1 OF 1