

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

NOV 30 2012

WATER RESOURCES
WESTERN REGION**A. GENERAL INFORMATION**Permit No. 63-33681

Corporation of the Presiding Bishop

1. Owner of the Church of Jesus Christ of Latter Day SaintsPhone No. 801-240-4074Current address 50 East North Temple Street, Salt Lake City, UT 841502. Examiner's name Scott King (Examiner No. 133) and Lori Graves EXAM DATE 11/6/20123. Accompanied by in-office exam - see license 63-12442

Email _____

Address _____

Relationship to permit holder _____

Phone No. _____

4. Source Gound Water

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use Boise-Kuna Irrig. Dist. surface water & 63-124422. Other water rights with the same point of diversion 63-12442**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
D0001550			NE	NE	28	2N	1W	Ada	Exam, 2011 Photo

2. Place(s) of Use:

Method of determination Exam, 2011 Photo

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
2N	1W	28	7																7

3 acres irrigation within a 7-acre ppu

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" = _____

- ☒ 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

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0001550	unknown	3		StaRite	30 Series
D0001550	unknown	5		Flint & Walling	55 Series

*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
Pump Curves						

2. Measurements:

None. Capacity estimated from pump curves

E. NARRATIVE/REMARKS/COMMENTS

Ground water diverted from a 6-inch diameter well is used for supplemental irrigation of three acres at the Kuna Stake Center #60. The ground water supplements surface water delivered by Boise Kuna Irrigation District. The same well system also provides ground water for the church facility's domestic and fire protection uses under water right 63-12442 that was recently licensed. A copy of the licensing exam for water right 63-12442 is attached for reference.

The 63-12442 licensing exam indicates the well is equipped with two submersible pumps; a 3-hp pump set at 167 feet and a 5-hp set at 157 feet that can produce up to 0.21 cfs at 60 psi. This is sufficient capacity to license the 0.18 cfs diversion rate (0.06 cfs/acre) under this permit, which will allow irrigation within an eight-hour window in an effort to avoid watering during church activities.

Note: the pumps can produce up to 0.25 cfs at 20 psi when pumping to the fire storage tank. This is the amount licensed to water right 63-12442.

This right, when combined with water right 63-12442, will not exceed three acres irrigation, 0.06 cfs/acre or a combined total diversion rate of 0.25 cfs.

Attachment A: copy of the permit and proof of beneficial use

Attachment B: licensing exam for water right 63-12442

Attachment C: 2011 aerial photo and topo map

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS

Additional computation sheets attached

Measured Method: Calculation

See Attachment B

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 3 \times 4.5 = 13.5$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.18 \times 260 \times 1.9835 = 92.8$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 13.5$$

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use From To		Rate of Diversion Q (cfs)	Annual Volume V (afa)
Irrigation	3/1	11/15	0.18	13.5
Totals:			0.18 cfs	13.5 afa

2. Recommended Amendments

- ☐ Change P.D. as reflected on page 1
 ☐ Add P.D. as reflected on page 1
 ☒ None
☐ Change P.U. as reflected on page 1
 ☐ Add P.U. as reflected on page 1
 ☐ Other

I. AUTHENTICATION

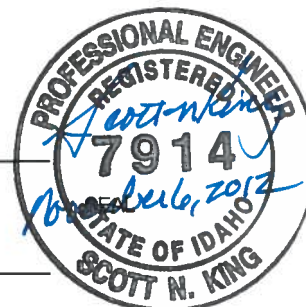
Field Examiner's Signature

Scott N. King

Date Nov 6, 2012

Reviewer

Date



ATTACHMENT A

PERMIT RECORD AND PROOF OF BENEFICIAL USE

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-33681

Priority: August 13, 2012

Maximum Diversion Rate: 0.18 CFS

This is to certify, that CORP OF THE PRESIDING BISHOP CHURCH OF JESUS CHRIST OF
LATTER DAY SAINTS REAL ESTATE SERVICES DIV
50 E NORTH TEMPLE ST
SALT LAKE CITY UT 84150-6320

has applied for a permit to appropriate water from:

Source: GROUND WATER

and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>
IRRIGATION	03/01 to 11/15	0.18 CFS

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NE1/4NE1/4 Sec. 28, Twp 02N, Rge 01W, B.M. ADA County

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	
02N	01W	28	7.0																7.0

Total Acres: 7

CONDITIONS OF APPROVAL

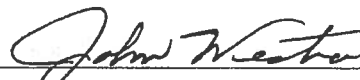
1. Proof of application of water to beneficial use shall be submitted on or before **November 01, 2017**.
2. Subject to all prior water rights.
3. This right is limited to the irrigation of 3 acres within the authorized place of use in a single irrigation season.
4. The right holder shall make full beneficial use of all surface water rights available to the right holder for irrigation of the lands authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right to those times when the surface water supply is not available or the surface water supply is not reasonably sufficient to irrigate the place of use authorized under this right.
5. If the surface water right(s) appurtenant to the place of use is abandoned, forfeited, sold, transferred, leased or used on any other place of use, this right to divert ground water shall not be used without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required.
6. This right when combined with all other rights shall provide no more than 4.5 afa per acre at the field headgate for irrigation of the place of use.

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-33681

7. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.
8. The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.
9. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.
10. This right does not grant any right-of-way or easement across the land of another.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Boise, this 24th day of October, 2012.



JOHN WESTRA, Western Regional Manager

COPY

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE

N/A
FOR OFFICE USE ONLY

Amt. of Fee \$: _____
Receipt No. _____
Receipt By: _____
Date Received: _____

The Idaho Department of Water Resources considers this form a statement by the permit holder(s) that development of a water right has been **completed and** that water has been applied to beneficial use to the extent described below. **This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner.** Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, please contact any Department office or visit the Department's website at: www.idwr.idaho.gov for an *Assignment of Permit* form. If you wish to relinquish your permit because you have not established the authorized use of the water and are not applying for an extension, please notify the Department in writing.

1. Permit No.: 63-33681 Telephone No.: 801-240-4074

2. Name of Permit Holder(s): The Corporation of the Presiding Bishop of the Church of Jesus Christ of Latter Day Saints

3. Mailing Address: 50 E. N. Temple St. City: Salt Lake City

State: UT Zip: 84150 Email: _____

4. Source of Water: Ground Water If **GROUND WATER** (well), Date Drilled: mo. Jan / yr. 1998

Well Driller: Can-Ada Well & Pump Drilling Permit Number: D0001550

5. Extent of use(s) completed (as authorized by the water right permit):

Domestic (No. of households): _____ Stockwater (No. and type of stock): _____

Irrigation (No. of acres): 3 Other: _____

6. Total rate of diversion or storage volume for which proof is submitted: 0.18 cfs OR _____ acre-feet.

7. Compliance with a measuring device requirement, lockable controlling device requirement, and/or other conditions of permit: **Refer to the approval conditions on your permit and respond accordingly. The Department will not issue a license if permit conditions are not met.**

Measuring Device: Is a measuring device required?

Yes ☐ No ☒
If yes, has the measuring device been installed? Yes ☐ No ☐

Lockable Controlling Device: Is a lockable device required to control the diversion?

If yes, has the lockable device been installed?

Yes ☐ No ☒
Yes ☐ No ☐

Other Conditions of Permit: Do the approval conditions on your permit require you to submit additional information in connection with your proof of beneficial use? If yes, list the conditions below and attach documents with the required information.

_____ Completed? Yes ☐ No ☒

8. Fee Enclosed: \$ n/a See fee schedule on back of the instructions for filing proof of beneficial use. Proofs filed without an appropriate fee, will be considered incomplete.

9. Person to contact to accompany the Department representative during field examination of the water system.

Name: _____ Telephone Number: _____

Mailing Address: _____ City: _____

State: _____ Zip: _____ Email: _____

The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of permit holder: _____

(Include your title, if on behalf of company or organization)

Date: 11/27/12

Mail to: Idaho Department of Water Resources, PO Box 83720, Boise, ID 83720-0098

ATTACHMENT B
63-12442 LICENSING EXAM

RECEIVED

JUL 06 2012

RECEIVED

JUL 05 2012

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

WATER RESOURCES
WESTERN REGION

A. GENERAL INFORMATION

Corporation of the Presiding Bishop
1. Owner of the Church of Jesus Christ of Latter Day Saints Permit No. 63-12442
Phone No. 801-240-4074
Current address 50 East North Temple Street, Salt Lake City, UT 84150
2. Examiner's name Terry Scanlan (Examiner No. 129) and Lori Graves EXAM DATE 5/23/2012
3. Accompanied by Mike Floyd Email floyd.michael@yahoo.com
Address _____
Relationship to permit holder Building Manager Phone No. 208-573-0639
4. Source Gound Water tributary to _____

B. OVERLAP REVIEW

1. Other water rights with the same place of use Boise-Kuna Irrig. Dist. surface water for landscape irrigation
2. Other water rights with the same point of diversion None

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident. No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination/Remarks
D0001550			NE	NE	28	2N	1W	Ada	Exam, 2011 Photo

2. Place(s) of Use: Method of determination Exam, 2011 Photo

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
2N	1W	28	D																
			FP																

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" = _____

- ☒ 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

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
		3		StaRite	30 Series
		5		Flint & Walling	55 Series

*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
Pump Curves						

2. **Measurements:**

None. Capacity estimated from pump curves

E. NARRATIVE/REMARKS/COMMENTS

Ground water diverted from a 6-inch diameter well is used for domestic and fire protection at a Church facility, aka the Kuna Stake Center #60. Domestic uses include a kitchen with two sinks, six drinking fountains and several restrooms encompassing a total of 16 toilets and 10 sinks. Ground water from the well also supplements surface water from Boise-Kuna Irrigation District for up to 1/2 acre irrigation of surrounding landscape.

At the time of proof, the well was reportedly equipped with two submersible pumps; a 3-hp pump set at 167 feet and a 5-hp set at 157 feet. The pumps can discharge into (1) the domestic water system serving the church, (2) a 330,000 gallon storage tank for fire protection, or (3) the sprinkler mainline for supplemental landscape irrigation. Surface water from Boise-Kuna Irrigation District serves as the primary irrigation source.

A 125-hp vertical turbine pump and a 5-hp vertical turbine pump are located in the well house. These pumps are used to boost water from the storage tank to three fire hydrants and the fire sprinkler system inside the church.

As indicated on the pump curves included in Attachment C, the two pumps can produce up to 0.21 cfs at 60 psi and up to 0.25 cfs at 20 psi when pumping to the fire storage tank

Attachment A: copy of the permit and proof of beneficial use
Attachment B: Well Driller's Report
Attachment C: pump curves and system capacity/flow calculations
Attachment D: aerial photo and topographical map
Attachment E: photos of the place of use and well

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS

Additional computation sheets attached

Measured Method: Calculation

Static water level is 92 feet (well driller's report). Assume an approximate pumping water level of 120 feet. Pump curves (Attachment C) indicate that the 5-hp pump can produce 53 gpm at 60 psi and 70 gpm at 20 psi, and that the 3-hp pump can produce 34.7 gpm at 60 psi and 39.8 gpm at 20 psi, for a total capacity of 88 gpm (0.20 cfs) at 60 psi and 110 gpm (0.25 cfs)

Theoretical: $\text{gpm} = (\text{hp} \times \text{eff} \times 3960) / \text{TDH} = (8 \text{ hp} \times .63 \text{ eff} \times 3960) / (120' \text{ pwl} + 10' \text{ friction} + 20 \text{ psi}) = 113 \text{ gpm}$
113 gpm = 0.25 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$ _____

2. Volume Calculations for Other Uses:

Potential: $0.04 \times 1.9835 \times 365 = 29 \text{ afa}$

Limited: $2,500 \text{ gpd} \times 365 \text{ dys} / 325850 = 2.8 \text{ afa}$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Domestic	1/1	12/31	0.04	2.8 afa
Fire Protection	1/1	12/31	0.25	n/a
Totals:			0.25	2.8 afa

2. Recommended Amendments

- ☐ Change P.D. as reflected on page 1 ☐ Add P.D. as reflected on page 1 ☒ None
☐ Change P.U. as reflected on page 1 ☐ Add P.U. as reflected on page 1 ☐ Other

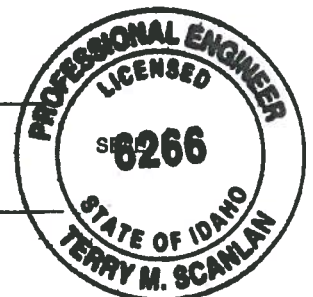
I. AUTHENTICATION

Field Examiner's Signature Terry M. Scanlan

Date 6-2-12

Reviewer _____

Date _____



ATTACHMENT A

PERMIT RECORD AND PROOF OF BENEFICIAL USE

CloseIDAHO DEPARTMENT OF WATER RESOURCES
Water Permit Report

5/11/2012

WATER RIGHT NO. 63-12442

<u>Owner Type</u>	<u>Name and Address</u>
Current Owner	CORP OF THE PRESIDING BISHOP CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS REAL ESTATE SERVICES DIV 50 E NORTH TEMPLE ST SALT LAKE CITY, UT 84150-6320 (801) 240-4657

Priority Date: 03/08/1998
Status: Active

<u>Source</u>	<u>Tributary</u>
GROUND WATER	

<u>Beneficial Use</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
DOMESTIC	1/01	12/31	0.04 CFS	
FIRE PROTECTION	1/01	12/31	0.33 CFS	
Total Diversion			0.33 CFS	

Location of Point(s) of Diversion:

GROUND WATER|NENE|Sec. 28|Township 02N|Range 01W|ADA County

Place(s) of use:

Place of Use Legal Description: DOMESTIC ADA County

<u>Township</u>	<u>Range</u>	<u>Section</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>	<u>Lot</u>	<u>Tract</u>	<u>Acres</u>
02N	01W	28		NENE										

Place of Use Legal Description: FIRE PROTECTION same as DOMESTIC

Conditions of Approval:

1. 046 Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
2. The daily diversion volume for the domestic use authorized under this right shall not exceed 2,500 gallons per day. Domestic use is for a church. Water bearing zone to be appropriated is 270 to 310 feet.

3.077 Water shall not be diverted for fire protection use under this right except to fight or repel an existing fire.

Dates:

Proof Due Date: 07/01/2002

Proof Made Date: 05/29/2002

Approved Date: 06/25/1998

Moratorium Expiration Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Application Received Date: 02/04/1998

Protest Deadline Date:

Number of Protests: 0

Field Exam Date::

Date Sent to State Off:

Date Received at State Off:

Other Information:

State or Federal:

Owner Name Connector:

Water District Number:

Generic Max Rate per Acre:

Generic Max Volume per Acre:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

Mitigation Plan: False

Close

RECEIVED

MAY 29 2002

FOR OFFICE USE ONLY

Amt. of Fee \$: 100.00
Receipt No. 0242330
Receipt By: [Signature]
Date Received: 5-29-02

STATE OF IDAHO
Department of Water Resources
DEPARTMENT OF WATER RESOURCES

PROOF OF BENEFICIAL USE

The Idaho Department of Water Resources considers this form a statement that the permit holder(s) has/have completed all development that will occur under this permit and that water has been applied according to the provisions of the permit for the beneficial use(s) described below. This form must be accompanied by a license examination fee, when necessary, or be accompanied by a completed field examination report prepared by a certified water right examiner.

1. Permit No. 63-12442 Telephone No. 801-240-5721
2. Name of Permit Holder(s): Church of Jesus Christ of Latter Day Saints
3. Mailing Address: Real Estate Division, 12th Floor, 50 E N Temple Street
City Salt Lake City State UT Zip 84150-0012
4. Source of Water: groundwater If GROUNDWATER (well), Date Drilled: mo. 01 / yr. 1998
Well Driller: Can Ada Well & Pump Drilling Permit Number: 731793
5. Use(s) (as authorized by the water right permit):
Domestic (No. of households): Church Stockwater (No. and type of stock): _____
Irrigation (No. of acres): _____ Other: fire protection
6. Total rate of diversion and/or volume for which proof is submitted: 0.25 cfs OR _____ acre-feet
7. Measuring Device Requirement: (refer to the approval conditions on your permit and respond accordingly)
(This question is not optional. Please check either yes or no. Proofs returned not checked accordingly, will be considered incomplete)
Measuring Device: Is a measuring device required? Yes _____ or No X
Has the measuring device been installed? Yes _____ or No X
8. Fee Enclosed: \$ 100.00 (See Fee Schedule on back of the instructions for filing proof of beneficial use)
9. Person to contact to accompany the Department representative during field examination of the water system.
Name: Terry Scanlan Telephone Number: 208-383-4140
Address: 600 E. River Park Lane, Suite 105, Boise, ID 83706
10. The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted. I agree to relinquish any undeveloped portion of the permit to the State of Idaho.

Signature of permit holder: Terry M Scanlan Date: 5/26/02
(Include your title, if on behalf of company or organization)



MICROFILMED

ATTACHMENT B
WELL DRILLERS' REPORT

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

Office Use Only			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
1/4 _____		1/4 _____	
1/4 _____		1/4 _____	
Lat: _____		Long: _____	

1. DRILLING PERMIT NO. **63-97-W-0848-000**
D0001550
Other IDWR No. _____2. OWNER: **LDS Church**
Name _____
Address **2710 Sunrise Rim**
City **Boise** State **Id** Zip **83705**

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. 2		North ☒ or South ☐	
W		Rge. 1		East ☐ or West ☒	
E		Sec. 28		1/4 NE 1/4 NE 1/4	
S		Gov't Lot _____		County Ada 10 acres 40 sec 160 acres	
		Lat: _____		Long: _____	
		Address of Well Site Blackcat at Kuna Rd.		City Kuna	
(Give at least name of road + Distance to Road or Landmark)					
LI. _____		Blk. _____		Sub. Name _____	

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	From To	Sacks or Pounds	
Bentonite	0	126	40	Overbore

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

8. CASING/LINER:

Diameter	From	To	Material	Casing	Liner	Welded	Threaded
8"	1	295	260 Steel	☒	☐	☒	☐
				☐	☐	☐	☐
				☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

- ☐
- Perforations Method _____
-
- ☒
- Screens Screen Type
- Houston**

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
295	305	16/10		5"		☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

92' ft. below ground Artesian pressure _____ lb.Depth flow encountered _____ ft. Describe access port or control devices: **Sanitary Well Cap**

11. WELL TESTS:

- ☐
- Pump
- ☐
- Bailor
- ☒
- Air
- ☐
- Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
150		300	4

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
10"	0	5	Top Soil	No	
10"	5	8	Clay	No	
10"	8	11	Hard Pan	No	
10"	11	38	Lava	No	
10"	38	50	Lava/strips of cinder	No	
10"	50	100	Lava/strips of cinder	No	
10"	100	120	Cracked Lava/little water	Yes	
6"	120	150	Gravel/75 gpm	Yes	
6"	150	190	Sand/tight packed	Yes	
6"	190	193	Clay	No	
6"	193	248	Sand/very dirty 75 gpm	Yes	
6"	248	252	Clay	No	
6"	252	271	Sand/ 50 gpm	Yes	
6"	271	276	Clay	No	
6"	276	284	Sand. 50 gpm	Yes	
6"	284	295	Clay	No	
6"	295	305	Sand	Yes	
6"	305		Clay	No	

RECEIVED

RECEIVED JAN 23 1998

JAN 24 1998 FILMED WATER RESOURCES WESTERN REGION

Department of Water Resources
Completed Depth **305'** (Measurable)
Date: Started **12/22/97** Completed **1/9/98**

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 **Can-Ada Well & Pump** Firm No **304**Firm Official **Earl Skinner** Date **1/14/98**

and _____

Supervisor or Operator _____ Date **1/14/98**

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES



ATTACHMENT C

PUMP CURVES & SYSTEM CAPACITY CALCS

Sta-Rite
10, 15, 20, and 30 GPM
4" Submersible Pumps
30 GPM

Signature
2000
Design Series

Pump Performance
 30 GPM

30 GPM set at 187 ft. 10 ft. below 5 H.P.

Series	PSI	Running Depth in Feet															
		20'	40'	60'	80'	100'	125'	150'	175'	200'	250'	300'	350'	450'	550'	650'	750'
1	30	44.0	42.5	40.9	39.1	36.8	32.5	26.0	8.0								
	20	40.4	38.8	36.0	32.4	27.7	13.3										
	30	38.0	35.3	31.7	26.3	14.3											
	40	35.0	31.4	25.9	12.1												
	50	30.2	24.0	3.0													
	60	21.9															
1-1/2	30	44.2	43.1	41.9	39.9	37.5	34.1	30.9	28.9	17.0							
	20	41.2	39.1	36.5	34.0	31.5	27.8	21.5									
	30	38.9	36.1	33.8	31.0	27.9	21.8										
	40	36.0	33.5	30.8	27.7	20.2											
	50	32.9	30.1	28.3	21.5												
	60	29.5	25.9	18.1													
2	30	44.9	43.9	43.0	41.8	40.5	38.8	38.8	34.7	31.6	23.7						
	20	42.7	41.3	40.1	38.7	37.1	34.9	32.1	29.0	24.8							
	30	41.2	40.0	38.5	37.0	35.0	32.2	29.1	24.9	15.2							
	40	39.9	38.3	36.8	34.8	32.7	29.8	25.1	16.1								
	50	38.0	36.8	34.5	32.1	30.0	26.3	17.5									
	60	36.0	34.0	31.9	29.1	26.0	18.0										
3	30	45.0	44.5	44.0	42.7	41.6	40.1	39.6	36.2	35.5	32.0	27.3					
	20	43.8	43.0	42.4	41.5	41.0	39.8	38.5	37.1	35.7	32.1	28.0	18.5				
	30	42.9	42.2	41.3	40.6	39.9	38.7	37.2	35.8	34.2	30.3	24.9	6.0				
	40	42.1	41.2	40.4	39.7	38.8	37.3	35.9	34.5	32.6	28.3	19.9					
	50	41.1	40.3	39.5	38.5	37.4	36.0	34.6	32.8	31.0	25.2	9.5					
	60	40.2	39.3	38.3	37.2	36.1	34.7	32.8	31.0	29.5	20.5						
5	30	44.9	44.8	44.8	44.0	43.1	42.0	41.3	40.8	39.3	37.8	36.0	32.0	28.1	20.3	6.0	
	20	44.5	44.2	44.0	43.4	42.1	42.7	42.0	41.3	40.8	39.3	37.8	36.0	32.0	28.1	9.5	
	30	44.1	43.9	43.4	43.0	42.8	42.1	41.4	40.8	40.1	38.7	37.0	35.1	30.8	24.0		
	40	43.8	43.4	43.0	42.7	42.1	41.5	40.9	40.2	39.4	37.9	36.1	34.1	29.4	21.3		
	50	43.3	43.0	42.6	42.0	41.5	41.0	40.2	39.5	38.8	37.1	35.2	33.2	28.1	17.7		
	60	42.9	42.5	42.0	41.4	41.1	40.3	39.7	38.9	38.0	36.2	34.2	32.1	26.5	11.0		

CAUTION: DO NOT use pump at flow rates indicated by the symbol —.
 To do so can cause premature failure of unit. Pump warranty void when failure occurs under these conditions.

Tested and rated in accordance with Water Systems Council standards.

NOTE: Pumps installed with a CON-AIRE® tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

MICRON-LINE

STA-RITE / a WICOR company

Printed in U.S.A.
 © 1992, Sta-Rite Industries, Inc., Delavan, WI

84594WG (Rev. 7/92)

K&W 4" 55 GPM • 1 1/2 thru 7 1/2 HP • 3450 RPM • 60

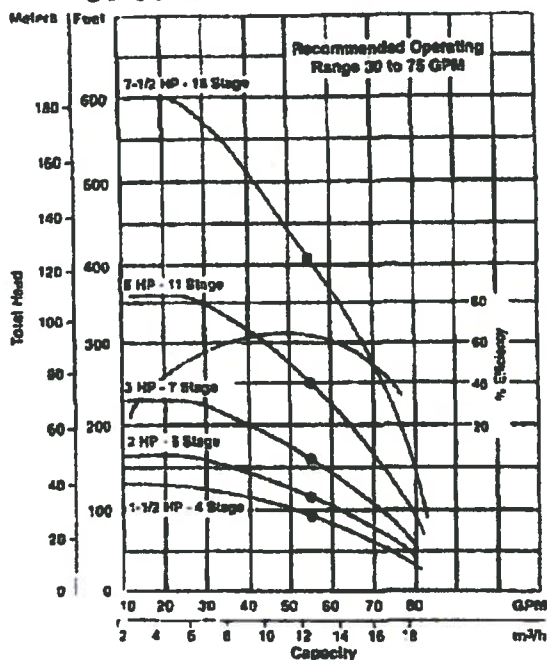
Plot + Kuno rd. Stake Center

*SWL 94 ft
57 ft. 2
HP 55*

Stages	Phase	Pump End	Motor End	Discharge Pressure PSI	DEPTH TO WATER LEVEL IN FEET-CAPACITIES IN GALLONS PER MINUTE																Minimum Pressure	
					30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	P1	P2
1 1/2 HP 4P55A18 4P55B15	1	12	20	0	70	78	71	62	50	38											135	58
2 HP 4P55A20 4P55B20	5	14	26	0	74	80	71	60	48	35											155	71
3 HP 4P55A30 4P55B30	7	16	32	0	75	79	70	58	45	32											238	101
4 HP 4P55A40 4P55B40	11	19	40	0	78	78	70	56	42	28											365	150
5 HP 4P55A50 4P55B50	15	22	49	0	77	76	71	55	40	25											605	259

NOTE: Pipe friction loss in drop pipe is not included in chart above

55 GPM • 1 1/2-7 1/2 HP



Stainless Steel
2" NPT

Cast Iron
2" NPT



MICROFILMED

JUN 11 2002

W. J. Kuno

SCANLAN ENGINEERING

Groundwater and Environmental Engineering

May 26, 2002

Deborah J. Gibson, Administrative Assistant
Water Allocation
Idaho Department of Water Resources
1301 North Orchard Street
Boise, ID 83706

Subject: Proof of Beneficial Use 63-12442

Dear Ms. Gibson:

On behalf of the Church of Jesus Christ of Latter Day Saints Real Estate Division, Scanlan Engineering is please to provide the enclosed proof of beneficial use for water right permit 63-12442.

The permit authorizes diversion of groundwater for domestic (0.04 cfs) and fire protection (0.33 cfs) uses. The diversion works (well and pumps) have been completed and are operating. The well was completed on January 9, 1998 by Can Ada Well Drilling. According to information in the Department's well log database, the well is 305 feet deep and completed with 6-inch casing to 295 feet. Static water level is 92 feet. The permit number listed in the database is 731793.

The well is currently equipped with two pumps. The pumps discharge into the domestic water system serving the Church. The pumps can also discharge water into a tank for fire protection. The fire protection storage tank is equipped with a float valve to automatically fill if the tank water level drops. The pumps are described below. Pump curves are attached.

- One of the pumps is a 3-hp submersible (StaRite 30 Series) set at 167 feet. This pump can produce approximately 35 gpm (0.08 cfs) at 60 psi for domestic use. The pump can also produce 40 gpm (0.0891 cfs) at 0 psi when pumping to the fire protection storage tank.
- The other pump is a 5-hp submersible (Flint and Walling 55 Series) set at 157 feet. This pump is rated to produce approximately 74 gpm (0.165 cfs) at 0 psi when pumping to the fire storage tank.

In combination, the two pumps appear to be capable of producing 0.25 cfs for fire protection and more than 0.04 cfs for domestic use.

A \$100 check for the examination fee is enclosed.

MICROFILMED

JUN 11 2002

600 East River Park Lane, Suite 105
Boise, Idaho 83706

Telephone (208) 383-4140
Facsimile (208) 383-4156

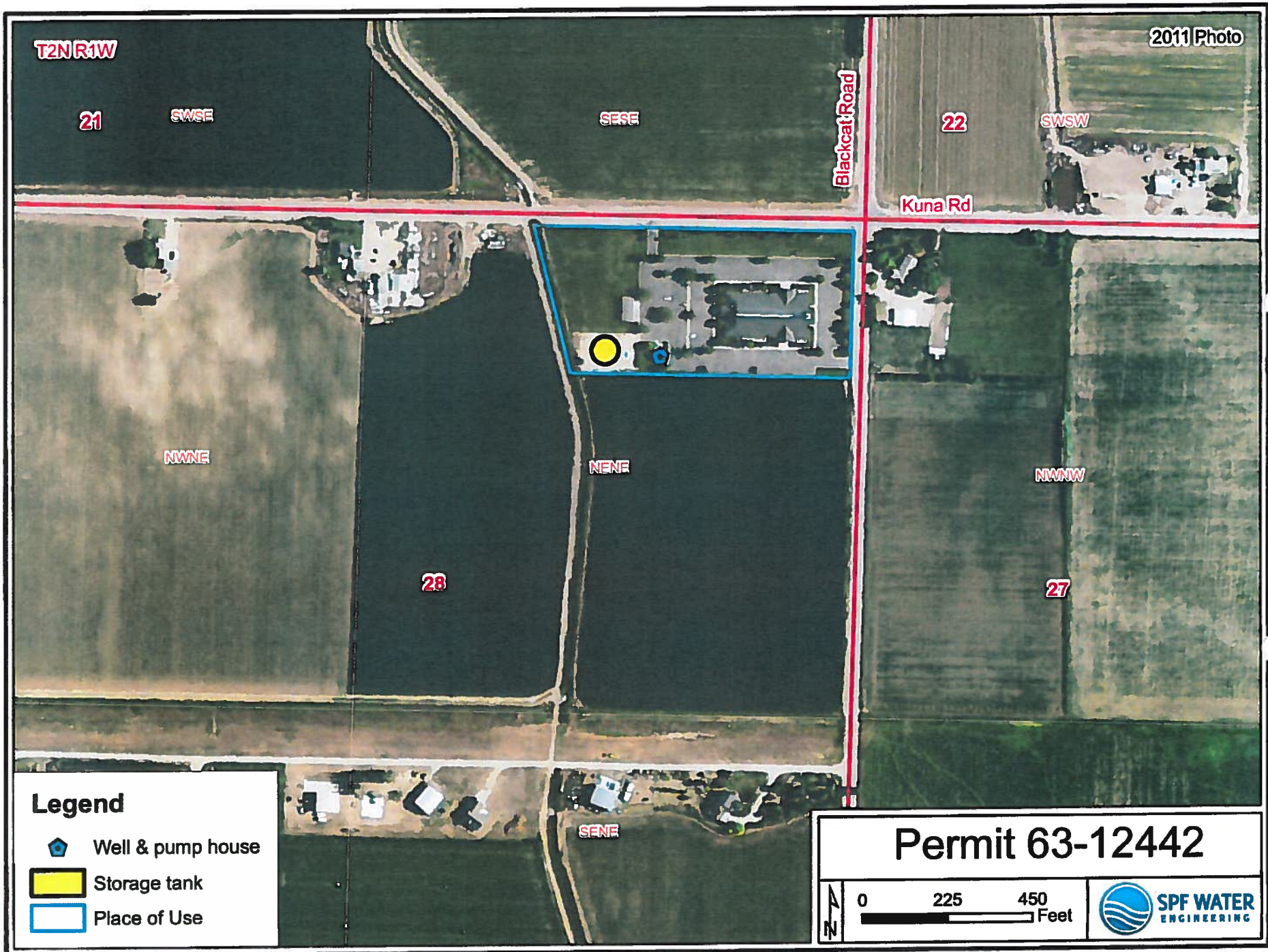
RECEIVED

MAY 29 2002

Idaho Department of Water Resources

ATTACHMENT D

AERIAL PHOTO, TOPO MAP & SYSTEM DIAGRAM



Legend

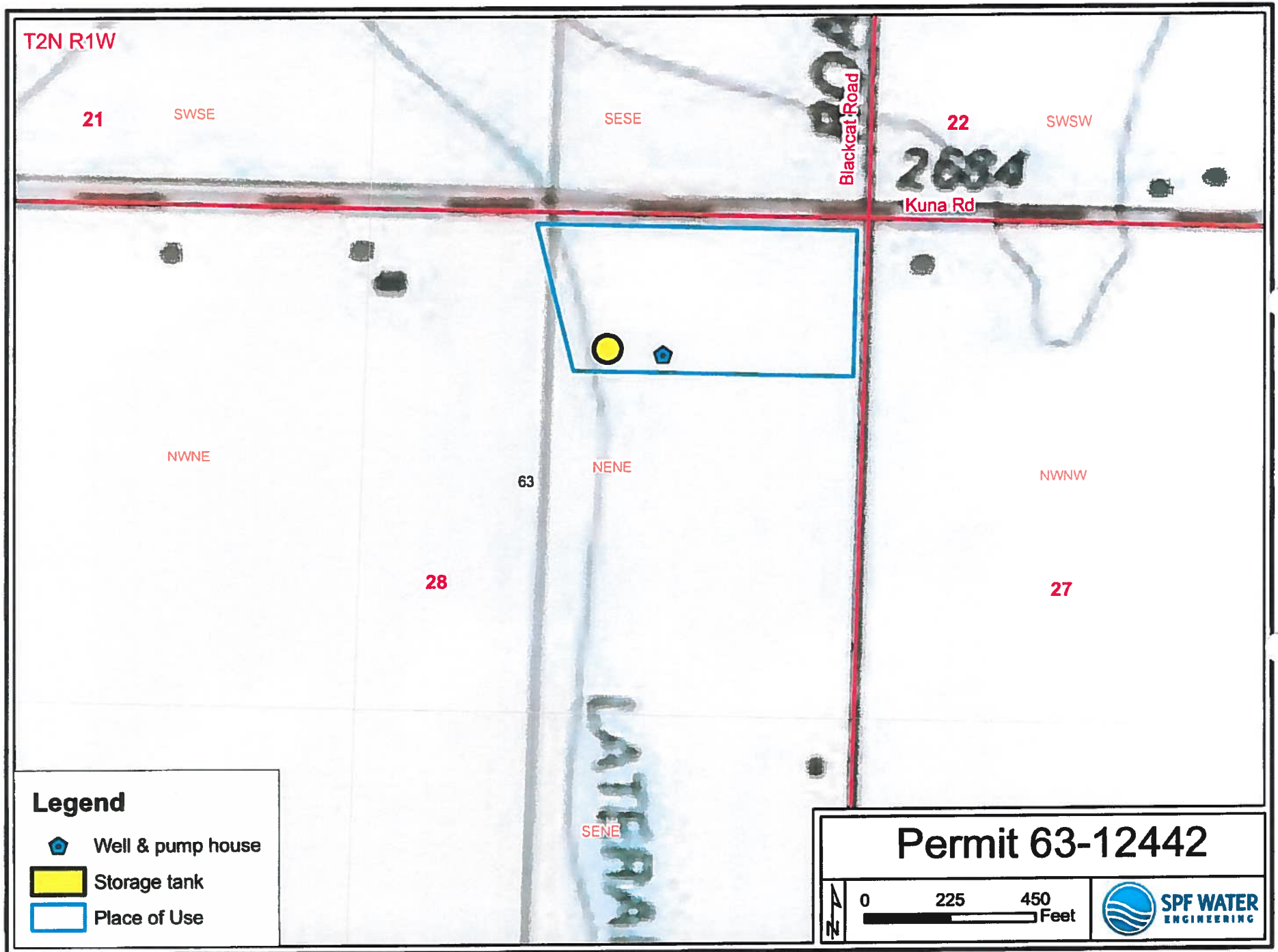
-  Well & pump house
-  Storage tank
-  Place of Use

Permit 63-12442



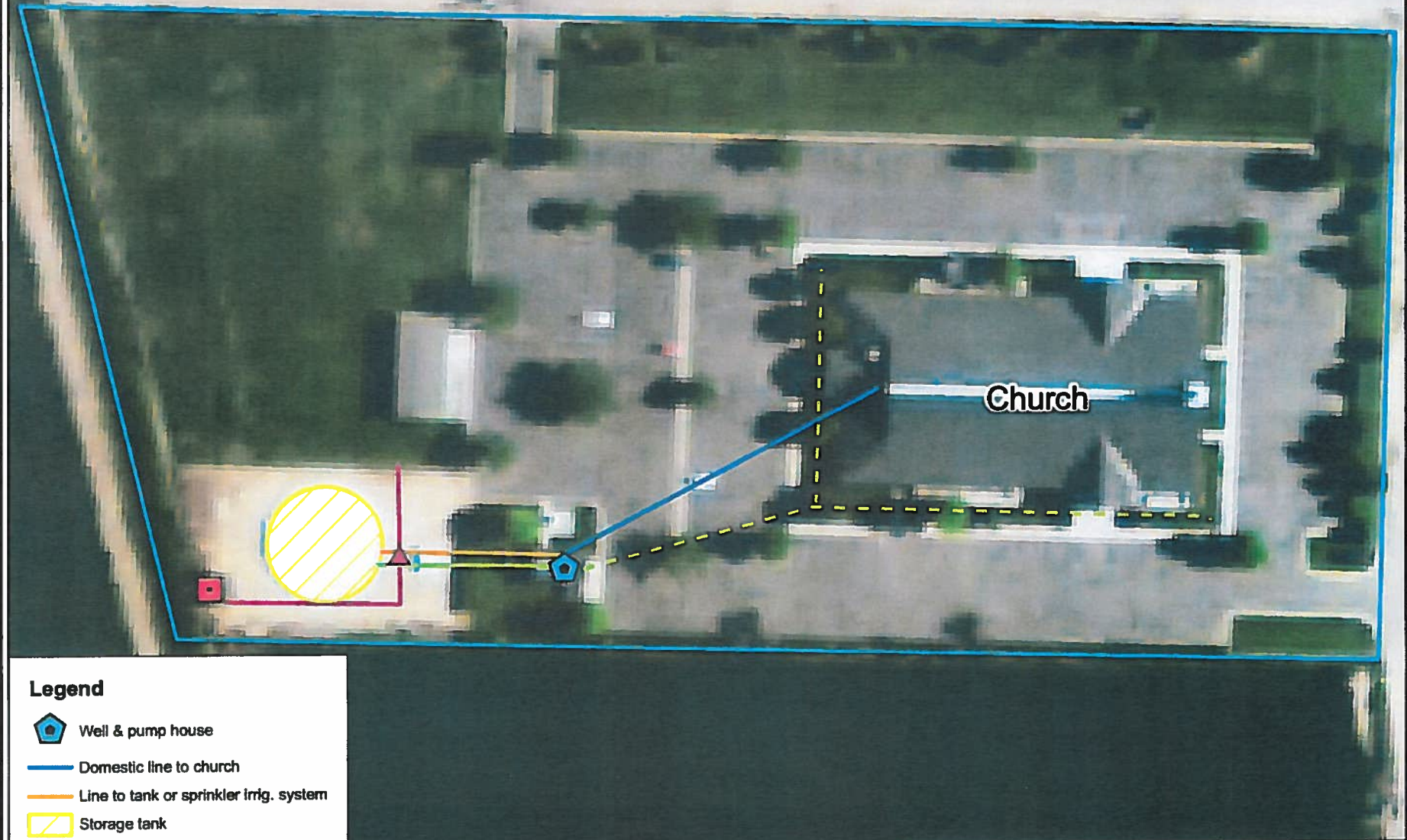
0 225 450 Feet





T2N R1W

2011 Photo



Legend

-  Well & pump house
-  Domestic line to church
-  Line to tank or sprinkler irrig. system
-  Storage tank
-  Surface water pump house
-  Sprinkler line
-  Back-flow prevention valve
-  Fire line from tank to boosters
-  Fire line to hydrants and church

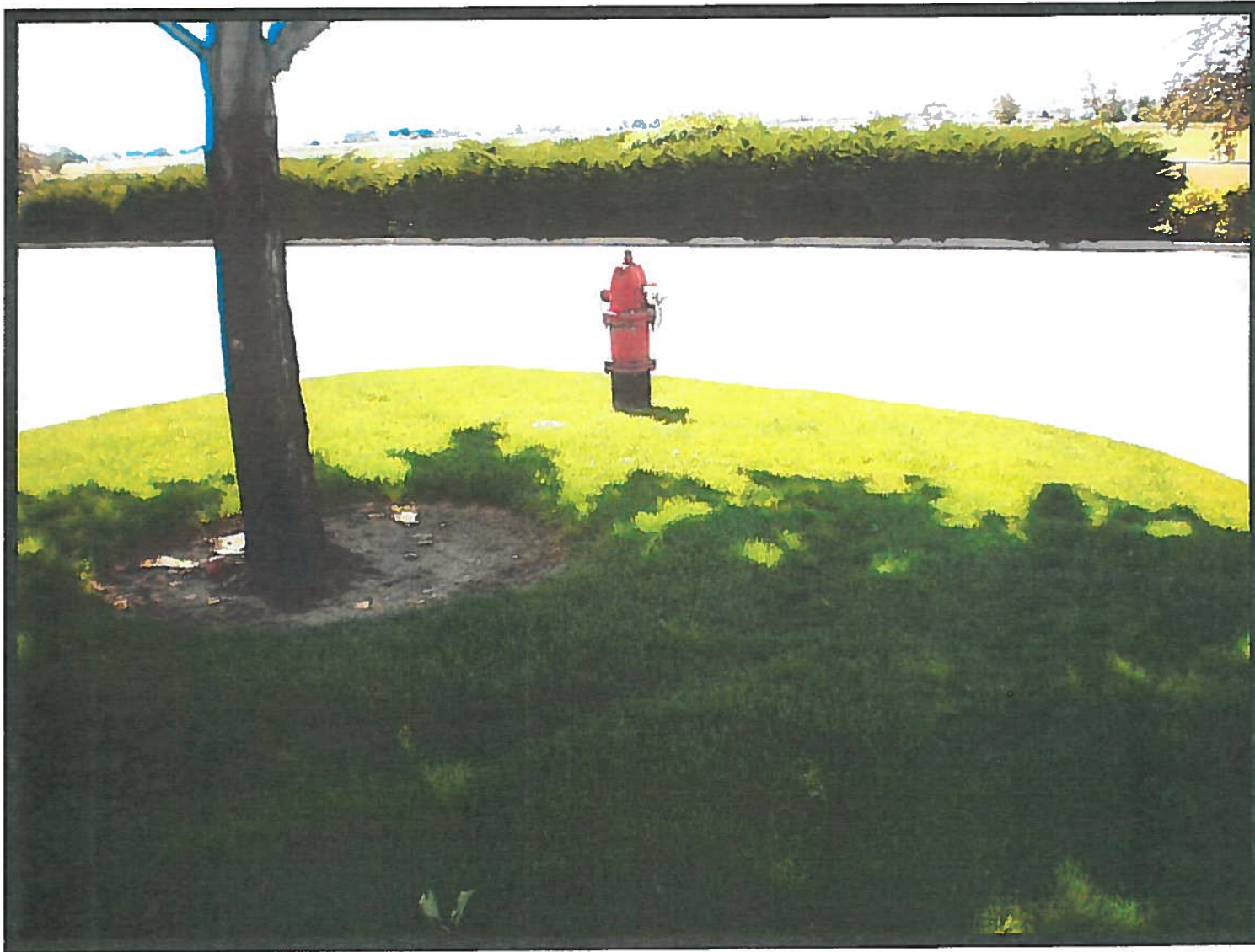
Permit 63-12442
System Diagram

22

0 50 100
Feet



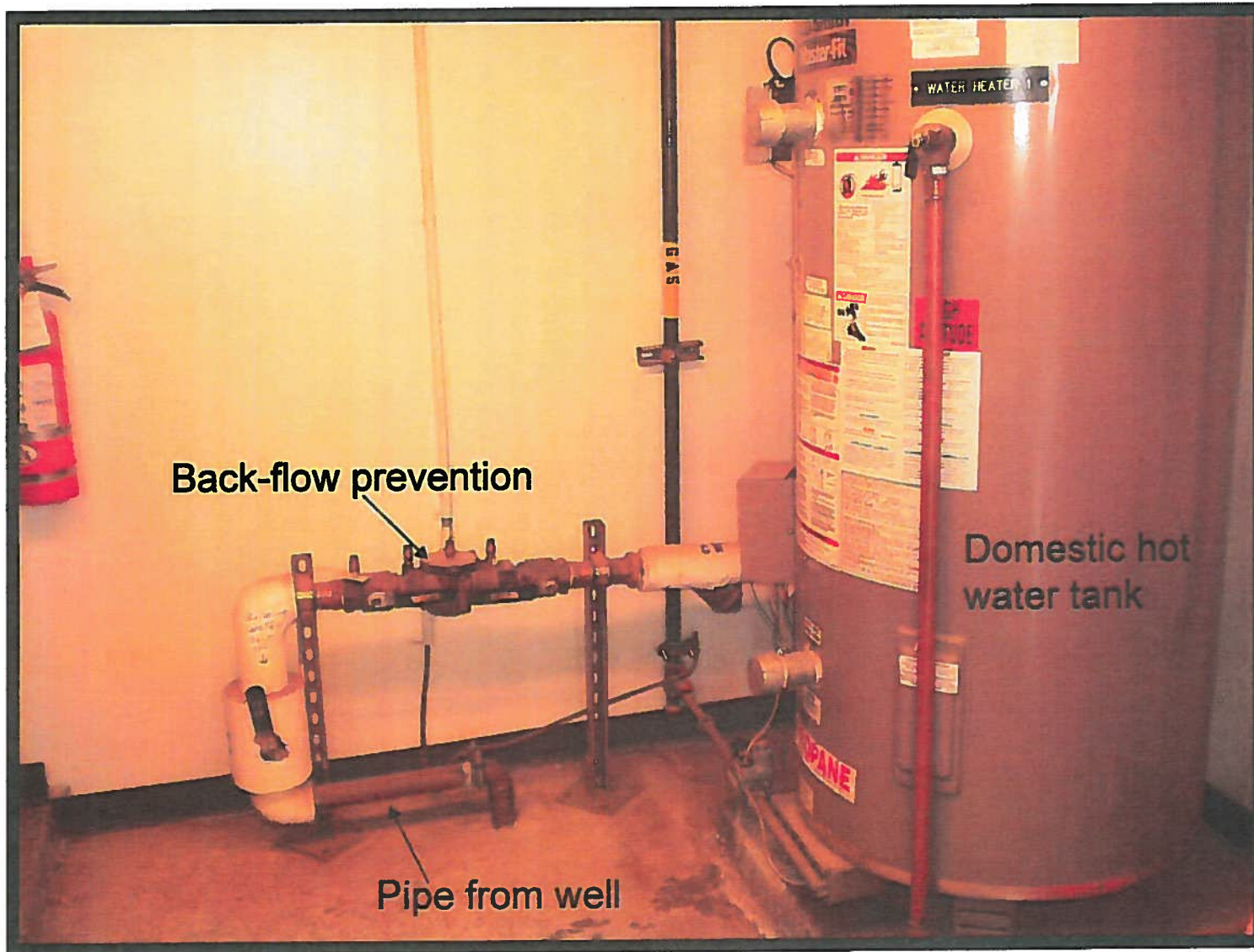
ATTACHMENT E
PHOTOS



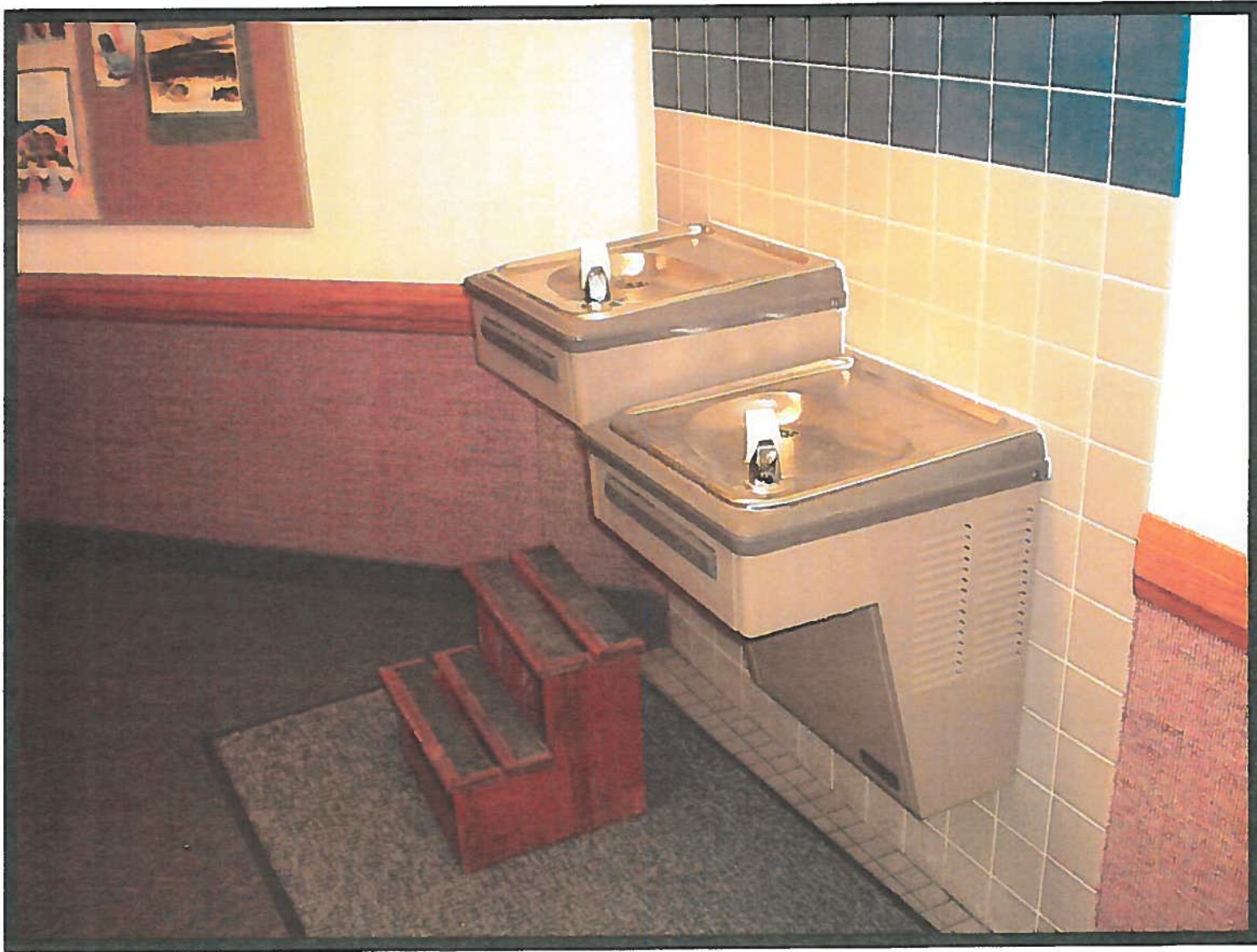
One of three fire hydrants



Place of use



Domestic works inside church building



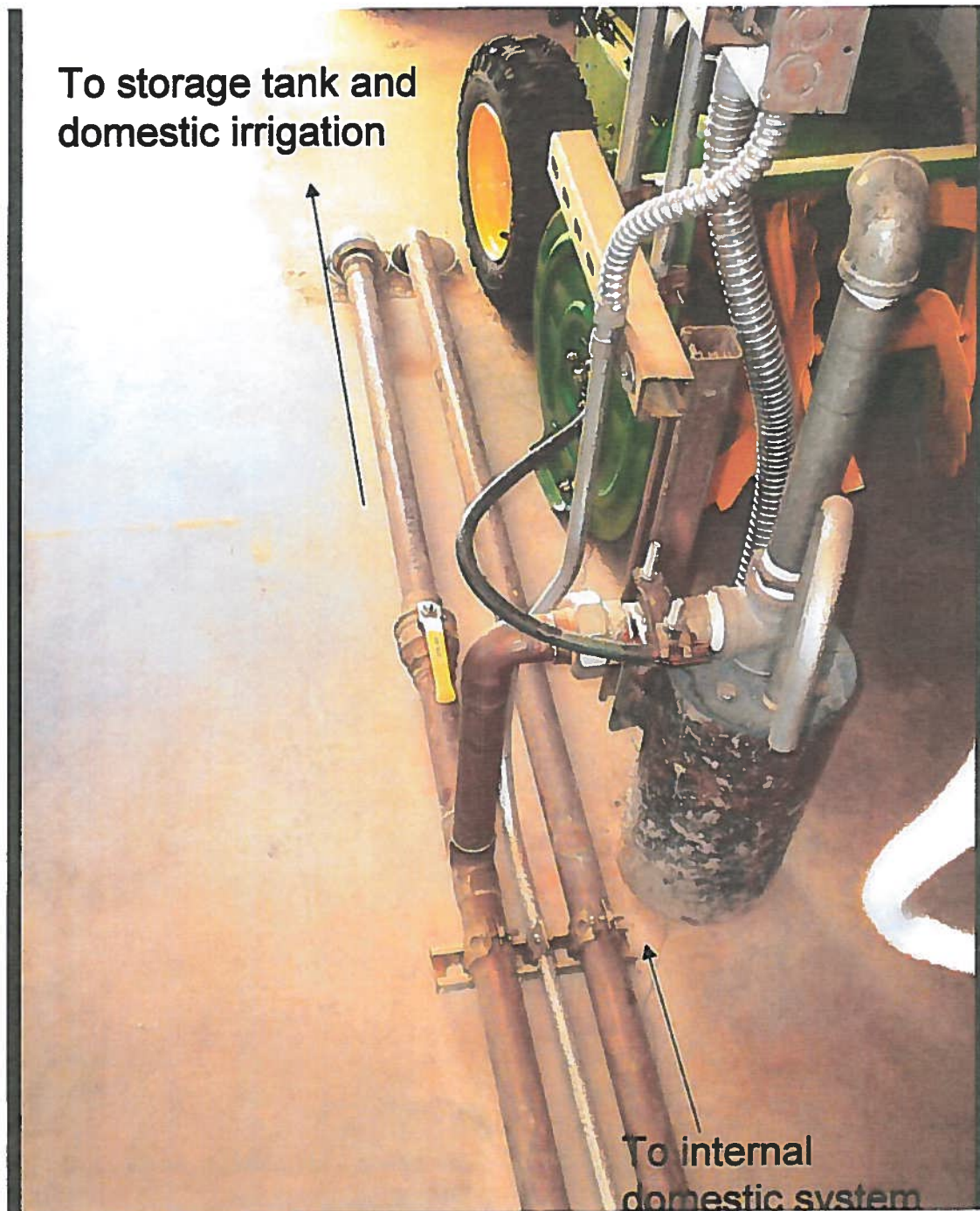
Two of six fountains



Church kitchen



Well and pump house



To storage tank and
domestic irrigation

Point of diversion

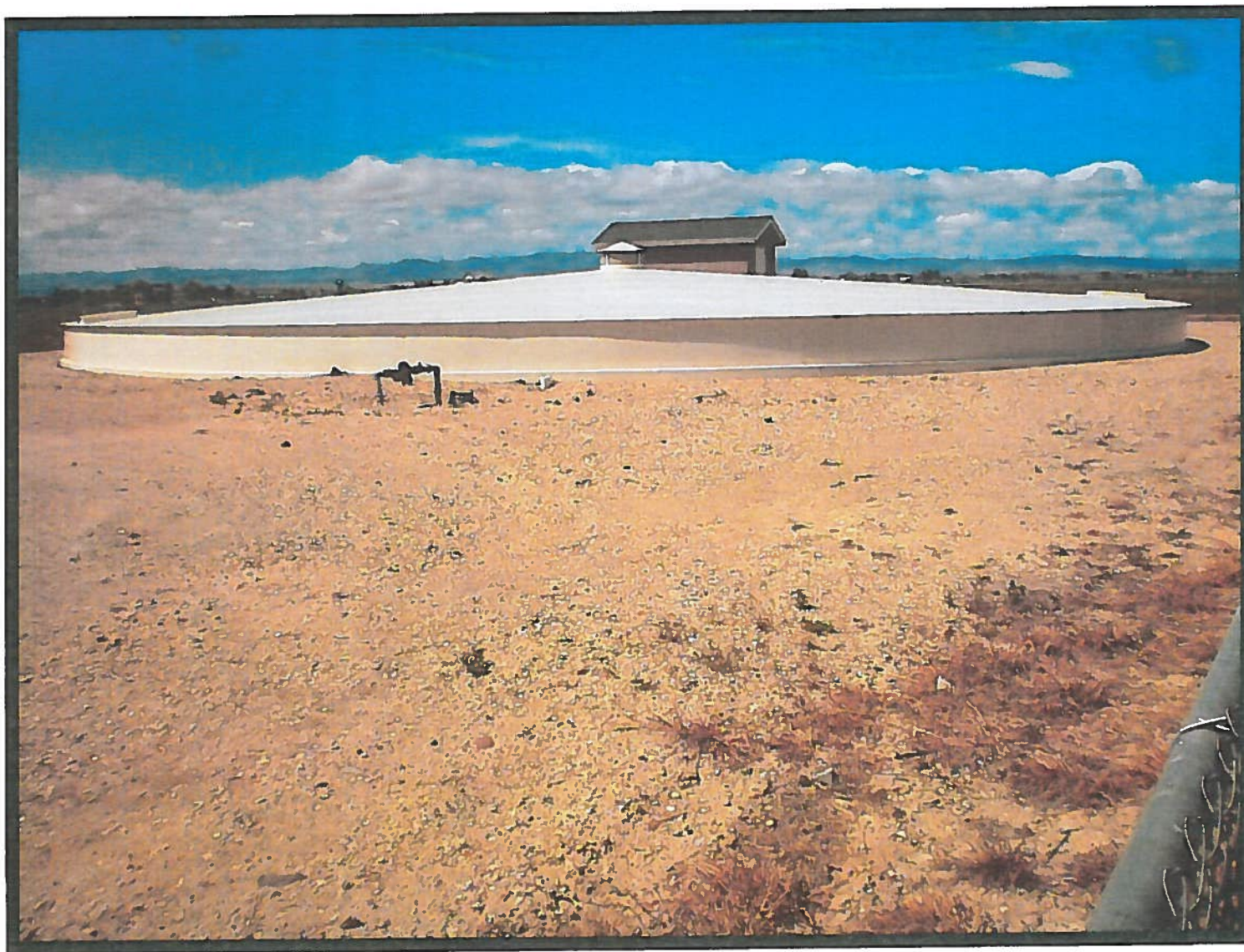
To internal
domestic system



Domestic
system
controls



Domestic system pressure tanks



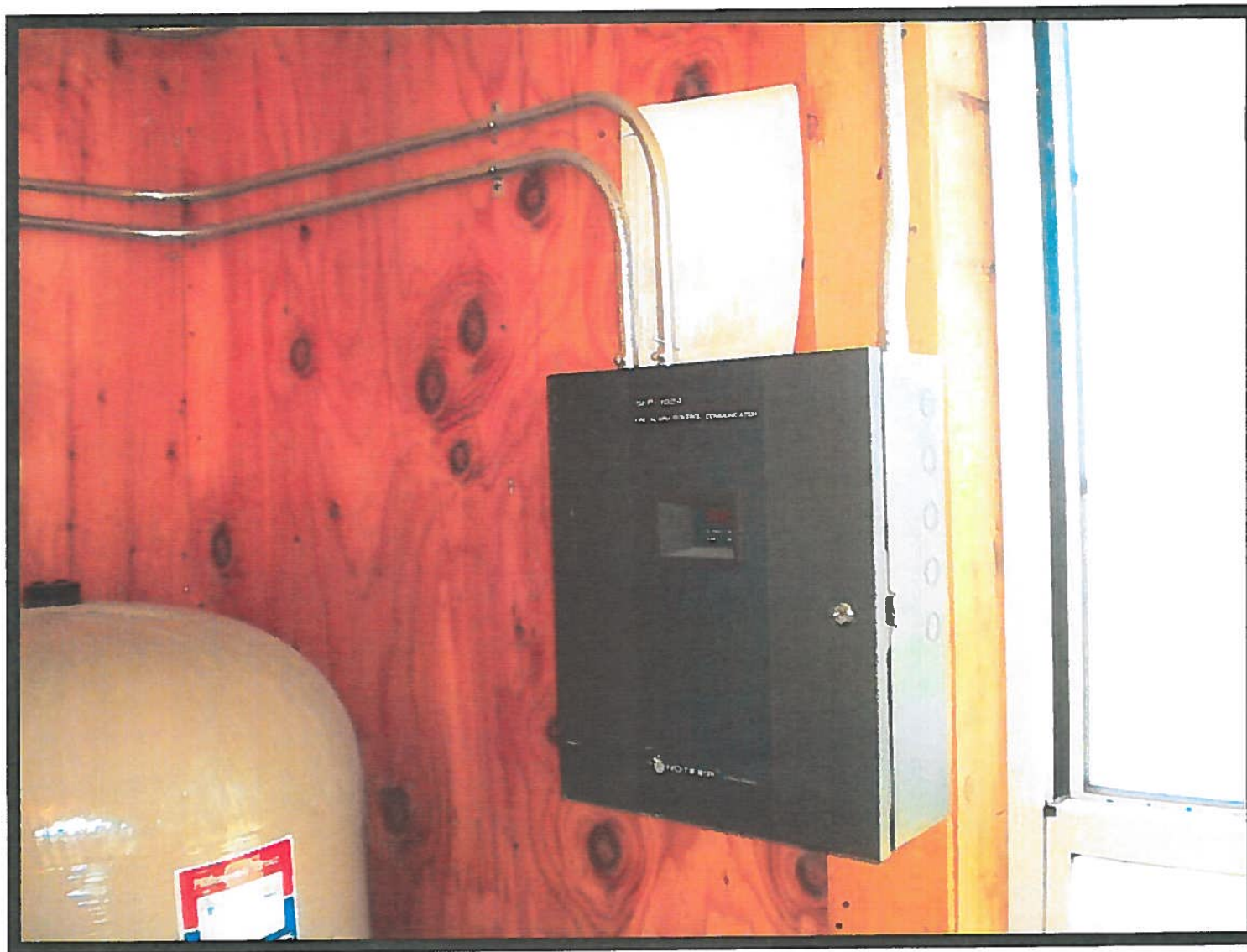
Fire protection storage tank



Fire system booster pumps

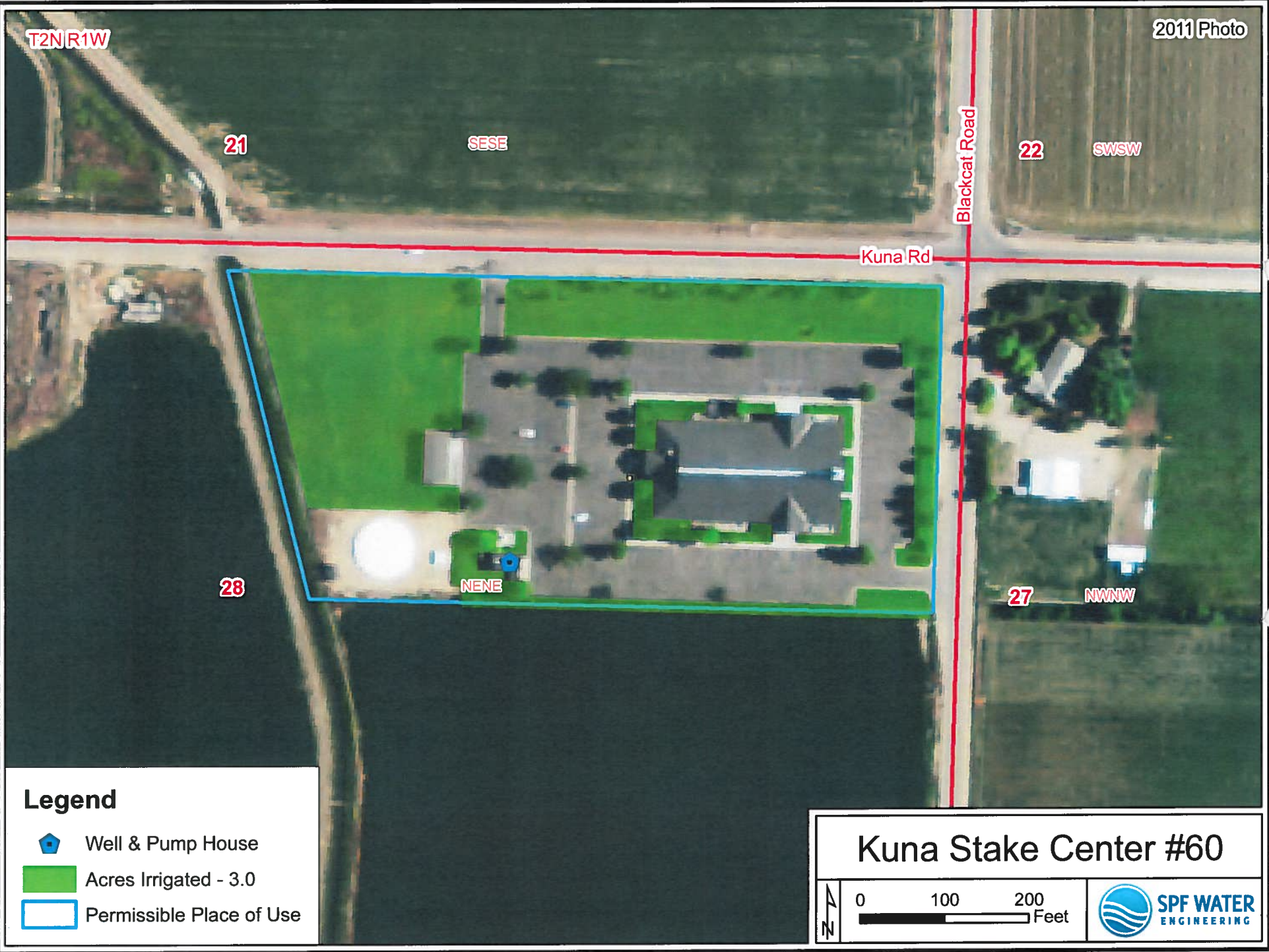


Fire
system
controls



Fire alarm control monitor

ATTACHMENT C
AERIAL PHOTO & TOPO MAP



T2N R1W

21

SESE

22

SWSW

Blackcat Road

Kuna Rd

28

NENE

27

NWNW

Legend



Well & Pump House



Acres Irrigated - 3.0



Permissible Place of Use

Kuna Stake Center #60



0 100 200 Feet



SPF WATER
ENGINEERING

