State of Idaho
Department of Water Resources

Water Right License

Water Right No. 96-9583

Priority: July 21, 2015 **Maximum Diversion Rate:** 1.42 CFS

It is hereby certified that:

KARL BERKENKAMP 773 WHITTUM RD PRIEST RIVER ID 83856-7772

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated July 21, 2015, and has submitted Proof of Beneficial Use on October 27, 2015. An examination confirms water is diverted from:

Source : SPRING **Tributary:** HOODO CREEK

Beneficial Use	Period of Use	Rate of Diversion
IRRIGATION	04/01 to 10/31	1.42 CFS

Location of Point(s) of Diversion
SPRING L1 (SE¼ SE¼ NE¼), Sec. 33, Twp 55N, Rge 04W, B.M. BONNER County

Place of Use: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
55N	04W	28	34.0			37.1													71.1

Total Acres: 71.1

Conditions of Approval

1. The following rights are diverted through point of diversion described above: 96-9600 & 96-9583.
2. This right when combined with all other rights shall provide no more than 0.02 cfs per acre nor more than 3.0 afa per acre at the field headgate for irrigation of the place of use.
3. Rights 96-9600 & 96-9583 when combined shall not exceed a total diversion rate of 1.69 cfs.
4. This right does not grant any right-of-way or easement across the land of another.

This license is issued pursuant to the provisions of Idaho Code § 42-219. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 25th day of October, 2022

ADAM FREDERICK
Water Rights Supervisor

SCANNED
NOV 07 2022

State of Idaho
Department of Water Resources

Attachment to Water Right License

96-9583

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



Place Of Use Boundary
Townships
PLS Sections
Quarter Quarters
Point of Diversion

0 0.275 0.55 1.1 Miles

N

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NOV 07 2022

IDAHO DEPARTMENT OF
WATER RESOURCES

Northern Region • 7600 N Mineral Drive, Suite 100 • Coeur D'Alene, ID 83815-7763
Phone: 208-762-2800 • Fax: 208-762-2819 • Email: northerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little

Director Gary Spackman

November 07, 2022

KARL BERKENKAMP
773 WHITTUM RD
PRIEST RIVER ID 83856-7772

RE: License No. 96-9583

ISSUANCE OF LICENSE

Dear Water Right Holder(s):

The Department of Water Resources ("Department") has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review all the conditions of approval listed on your license. The conditions may include ongoing requirements, such as maintenance of a measuring device or implementation of mitigation, as well as information about how your water use may be administered, such as regulation by a watermaster in a water district.

The license is a PRELIMINARY ORDER issued by the Department pursuant to Rule 730 of the Department's Rules of Procedure (IDAPA 37.01.01.730). It can and will become a final order without further action by the Department unless a party petitions for reconsideration, files exceptions, or requests a hearing as described in the enclosed information sheet.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Water right forms are available from any office of the Department or on the Department's website at idwr.idaho.gov

If you have any questions concerning the enclosed information, please contact the Northern Region Office at (208) 762-2800.

Sincerely,

Adam Frederick

Adam Frederick
Water Right Supervisor

Enclosure(s)

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CERTIFICATE OF SERVICE

I hereby certify that on November 07, 2022, I served a true and correct copy of Water Right License No. 96-9583 by U.S. Mail, postage prepaid, to the following:

KARL BERKENKAMP (Current Owner)
773 WHITTUM RD
PRIEST RIVER ID 83856-7772

Tammy Alleman
Administrative Assistant 1

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EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was **not** held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "**Preliminary Order**" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

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CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

> Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:
>
> (a) The petition for reconsideration is disposed of; or
> (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

i. A hearing was held,
ii. The final agency action was taken,
iii. The party seeking review of the order resides, or
iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-9583
Exam Date: 09/08/2022

1. Current Owner:
KARL BERKENKAMP 773 WHITTUM RD PRIEST RIVER ID 83856-7772

2. Accompanied by: Karl Berkenkamp
Phone No: 208-255-6040
Address: Same as above
Relationship to permit Holder: Permit holder

3. **SOURCE:** SPRING

Tributary HOODO CREEK

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
96-9600	SPRING	IRRIGATION	LICENSE

Comments: Licensed WR 96-9600 uses the same spring water source for irrigation & uses common diverting works and water system infrastructure but does not overlap this right's POU. Condition X35 was included in the licensing recommendation due to the pump performance enabling applicant to irrigate both right's POU(s) simultaneously and describes combined use diversion rate between 96-9600 & 96-9583.

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
96-9600	SPRING	IRRIGATION	LICENSE

Comments: Licensed WR 96-9600 shares the same POD & diverting works water system infrastructure. Condition F06 was included during review toward licensing 96-9583.

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
SPRING L1 (SE¼ SE¼ NE¼), Sec. 33, Twp 55N, Rge 04W, B.M. BONNER County

Method of Determination: GPS; POD located at -116°49.7525, 48°4.3175 (+/- 13 ft)

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
55N	04W	28	34.0			37.1													71.1

Total Acres: 71.1

Method of Determination: Beneficial use field examination, Arcmap aerial imagery, and NASA/USGS Landsat YR 2015 imagery.

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3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
X 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
X 1:24,000 or greater.

X Aerial Photo Attached (required for irrigation of 10+ acres).

X Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
SPRING – PUMP		100	5YB100-2	CORNELL	

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: Unable to perform flow measurements, as applicant's system had been winterized at time of examination. I worked with the pump motor manufacturer to obtain pump performance curve data and determine the total head (347 ft) associated with the applicant's system. Pump curve data and historical # of sprinkler heads operating by applicant used to recommend the diversion rate for licensing purposes.

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method: Pump performance curve data establishes the 100 HP pump with 347 ft of head theoretically can achieve 950 GPM or 2.10 CFS considering department rounding standards.

The applicant operates 5 lateral hand lines at one time between 96-9600 & 96-9583, with 23 sprinklers – 11/64" nozzles per line. The applicant's diverting system incorporates a regulator valve set to 60 PSI operating pressure to achieve a good consistent curtain of water as distributed per sprinkler's 40-50 ft radius. Based on this information and attached Rain Bird ¾ inch full circle brass impact sprinkler data the following computation was used to validate the manufacturers pump curve value of 950 GPM:

- 5 lateral lines x 23 sprinklers per line = 115 Sprinklers
- 115ea 11/64" nozzles x 6.6 gpm = 759 gpm / 448.83 per cfs = 1.69 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

V_{IR} = (Acres Irrigated) x (Irrigation Requirement) = 71.1 ac x 3.0 afa = 213.3 af

V_{DR} = [Diversion Rate (cfs)] x (Days in Irrigation season) x 1.9835 = 1.42 cfs x 214 days x 1.9835 = 509.36

V = Smaller of V_{IR} and V_{DR} = 213.3 af

2. Volume Calculations for Other Uses:

- This right uses a spring source for irrigation purposes resulting in no volumetric values being applied to the face of the license IAW IDAPA 37.03.02, Section 035. Volume metrics are described by approval conditions to 3.0 afa per acre.

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G. NARRATIVE/REMARKS/COMMENTS

Field exam conducted on 9/8/2022 with the applicant, Karl Berkenkamp, showed a spring water source being used for irrigation uses. At the POD, the applicant drafts from a small 24-hour impoundment pool with a three phase 100 HP pump with Cornell pump motor model No. 5YB100-2. I was Unable to perform flow measurements, as applicant's system had been winterized at time of examination. I worked with the pump motor manufacturer to obtain pump performance curve data and determine the total head (347 ft) associated with the applicant's system. Pump curve data and historical use # of sprinkler heads operating by applicant used to recommend the diversion rate for licensing purposes.

The applicant operates 5 lateral hand lines at one time between 96-9600 & 96-9583, with 23 sprinklers – 11/64" nozzles per line. The applicant's diverting system incorporates a regulator valve set to 60 PSI operating pressure to achieve a good consistent curtain of water as distributed per sprinkler's 40-50 ft radius. Based on this information and attached Rain Bird ¾ inch full circle brass impact sprinkler data the following computation was used to validate the manufacturers pump curve value of 950 GPM:

- 5 lateral lines x 23 sprinklers per line = 115 Sprinklers
- 115ea 11/64" nozzles x 6.6 gpm = 759 gpm / 448.83 per cfs = 1.69 cfs

Department standard diversion rate authorizes 0.02 cfs per acre; applicant irrigates 71.1 acres in POU; 71.1 ac x 0.02 cfs = 1.42 cfs considering department rounding standards.

Applicant is limited by department standards to irrigate using up to 4ea lateral lines in the POU while still operating 1ea lateral line at the POU associated another of his WR's POU (96-9600). 4ea laterals x 23 sprinklers = 92 sprinklers x 6.6 gpm = 607.2 gpm / 448.83 gal per cfs = 1.35 cfs which is relatively close to the 1.42 cfs department standard for irrigation of 71.1 acres. I am recommending the department standard of **1.42 cfs** as the diversion rate for licensing purposes as the applicant's 100 hp pump can achieve this diversion rate in conjunction with some irrigation occurring under separate WR 96-9600.

The irrigation POU was walked with Mr. Berkenkamp and sketched out on field maps during the exam. The applicant had applied for 75 acres, but due to lower wetland areas in the NW corner of the POU the actively irrigated acreage has been reduced to 71.1 acres using Arcmap aerial imagery YR 2015. The applicant's irrigation system includes a buried 10-inch main line which follows a jeep trail uphill from the POD & crossing the road at the start of the POU for WR 96-9600. From there the 10 inch runs north parallel to the roadway with irrigation risers at approximately 100 ft interval. At the start of the irrigation POU for this water right, the 10-inch main reduces to an 8-inch main line & maintains the 100 ft interval to a plugged endpoint in the NE corner of the POU.

The applicant leases the property to local farmers for hay crops and the irrigation system is used to achieve a 2nd and at times 3rd cutting seasonally. The applicant's development period for the permit is very short due to the permit approval date 9/29/2015 and statement of completion date 10/27/2015 indicating the applicant had the system in operation prior to applying for the water right. Due to the applicant's system being winterized at time of field exam, I have used Arcmap year 2015 imagery and Landsat 2015 imagery to validate active irrigation at the POU which associates directly with the development period for the permit.

Active irrigation can be seen using Arcmap imagery with multiple irrigation lateral lines observed in both the NENE & SENE QQs as the applicant marched his lateral lines south in the POU. Referencing Landsat 2015 imagery dated 20150922 active irrigation is clearly illustrated by intensive red pixelation of the POU comparative to surrounding dry land. In addition to aerial imagery, the applicant supplied utility power records showing the six months prior to both November 2016 & November 2015 the dedicated service connection to the pump (only used for this pump) was active and operated by the applicant.

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The annual volume for irrigation of 71.1 acres equals 71.1 ac x 3.0 afa = 213.3 af, but as this water right uses a spring source for irrigation there is no volumetric value being applied to the face of the license IAW IDAPA 37.03.02, Section 035. Volume metrics are described by conditions of approval to 0.02 cfs per acre & 3.0 afa per acre.

All conditions on the permit shall be carried to licensing in addition to the following: F06 was added due to rights 96-9600 & 96-9583 sharing the same POD; X35 was added to describe the combined use diversion rate between 96-9600 & 96-9583 which uses common diversion work infrastructure and water delivery system for irrigation of separate POUs. There are no additional concerns for overlap for this water right.

Have conditions of permit approval been met? X Yes ____ No

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion
IRRIGATION	04/01 to 10/31	1.42 CFS

Totals: 1.42 CFS

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 X None

I. AUTHENTICATION

Luke Bates -

Field Examiner's Name _____ Date 10/3/2022

Reviewer _____ Date 10/25/2022

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NOV 07 2022

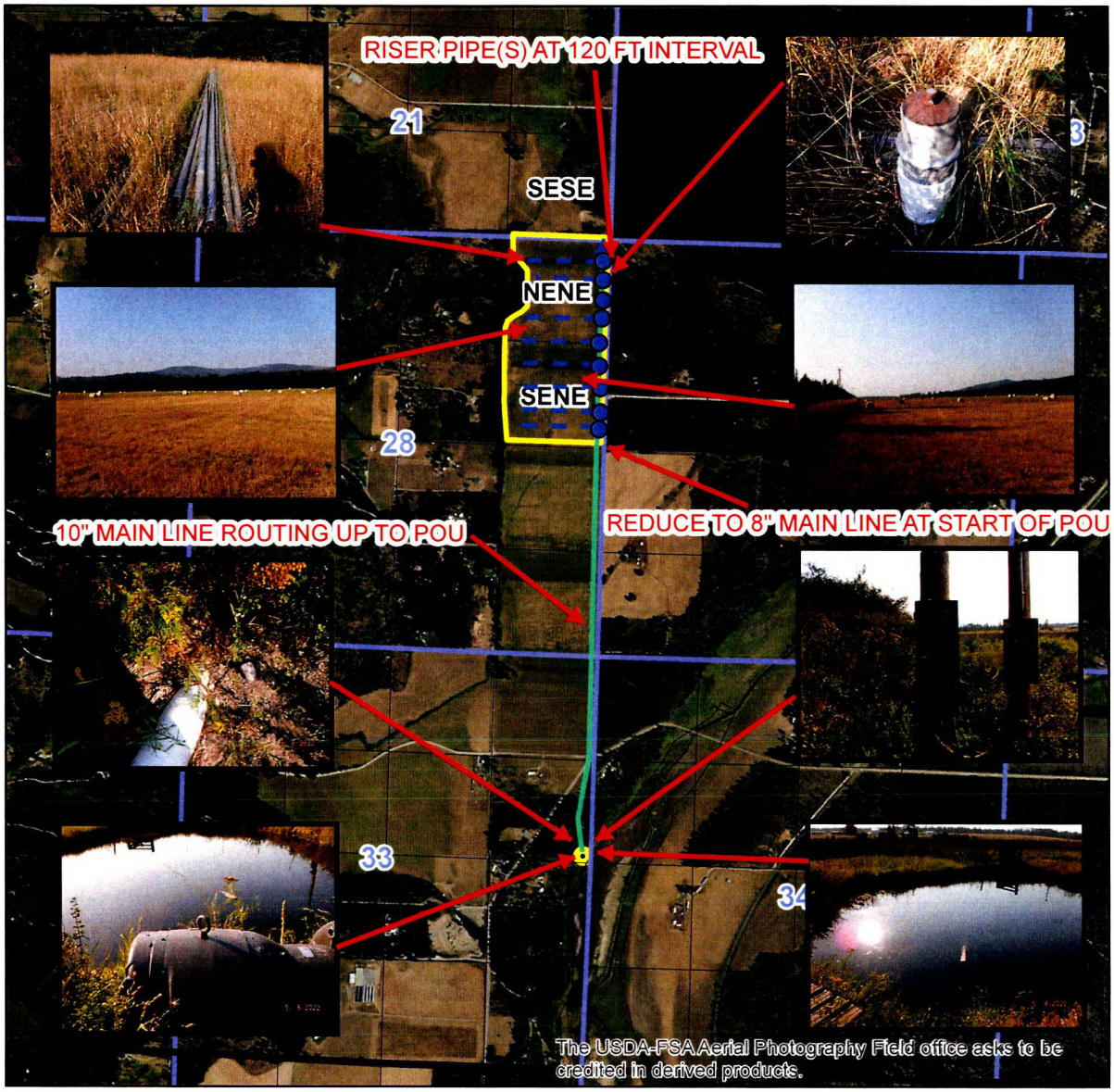
State of Idaho
Department of Water Resources

Attachment to Field Exam

96-9583

IRRIGATION system diagram.

04W



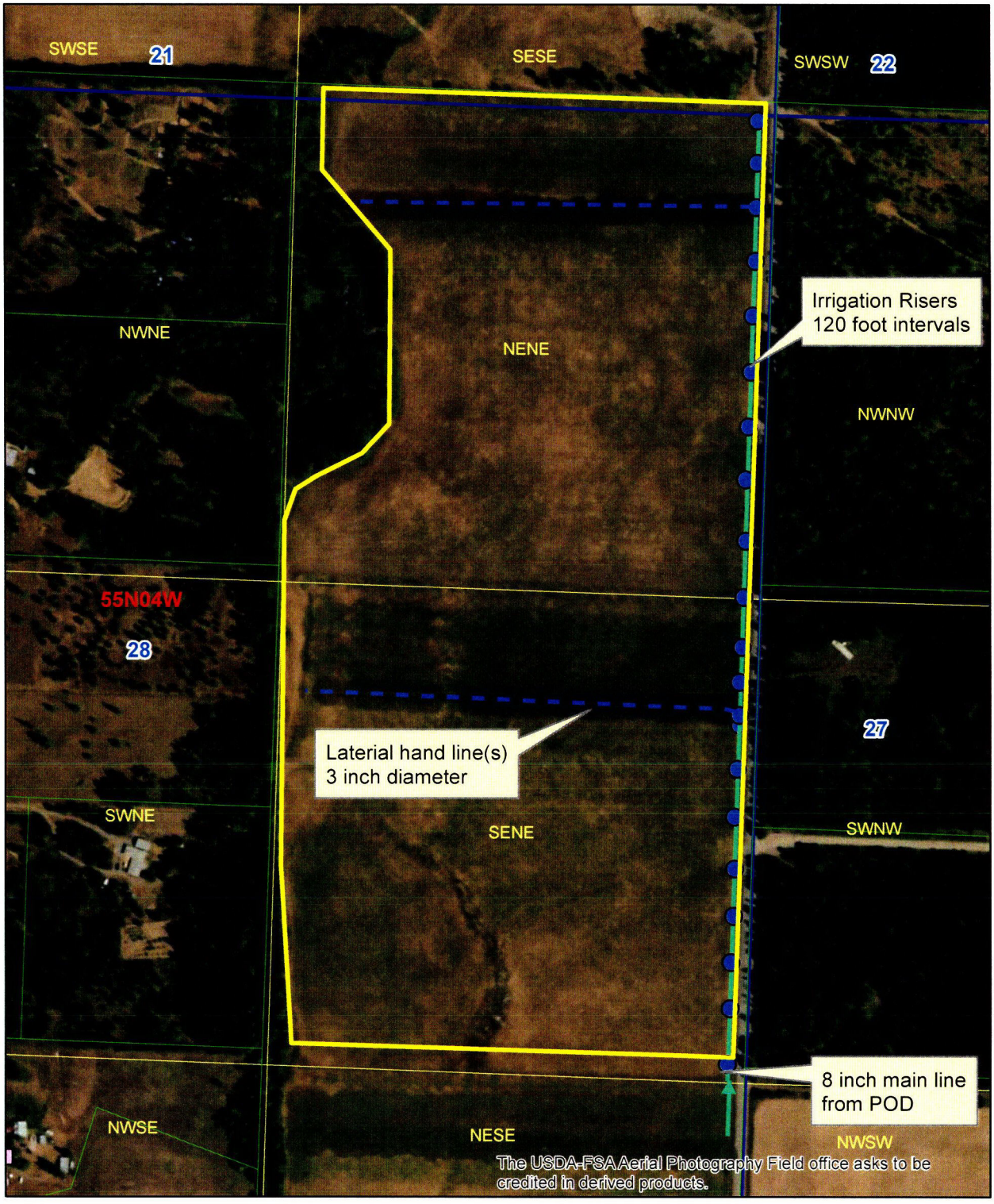
55N

Place Of Use Boundary
Townships
PLS Sections
Quarter Quarters
Point of Diversion

0 0.275 0.55 1.1 Miles

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Attachment to Field Exam - 96-9583
Irrigation POU System Diagram



Legend

- Township/Range
- Sections
- QQ

0 0.04 0.08 0.16 Miles

N

NOTE: There is a shift in aerial imagery versus DRG Layer resulting in appearance of irrigaiton in the SE1/4SE1/4, but this is not the case. All irrigation in POU occurs in the NE1/4NE1/4 & SE1/4NE14 of Section 28, Twp 55N, Rge 04W

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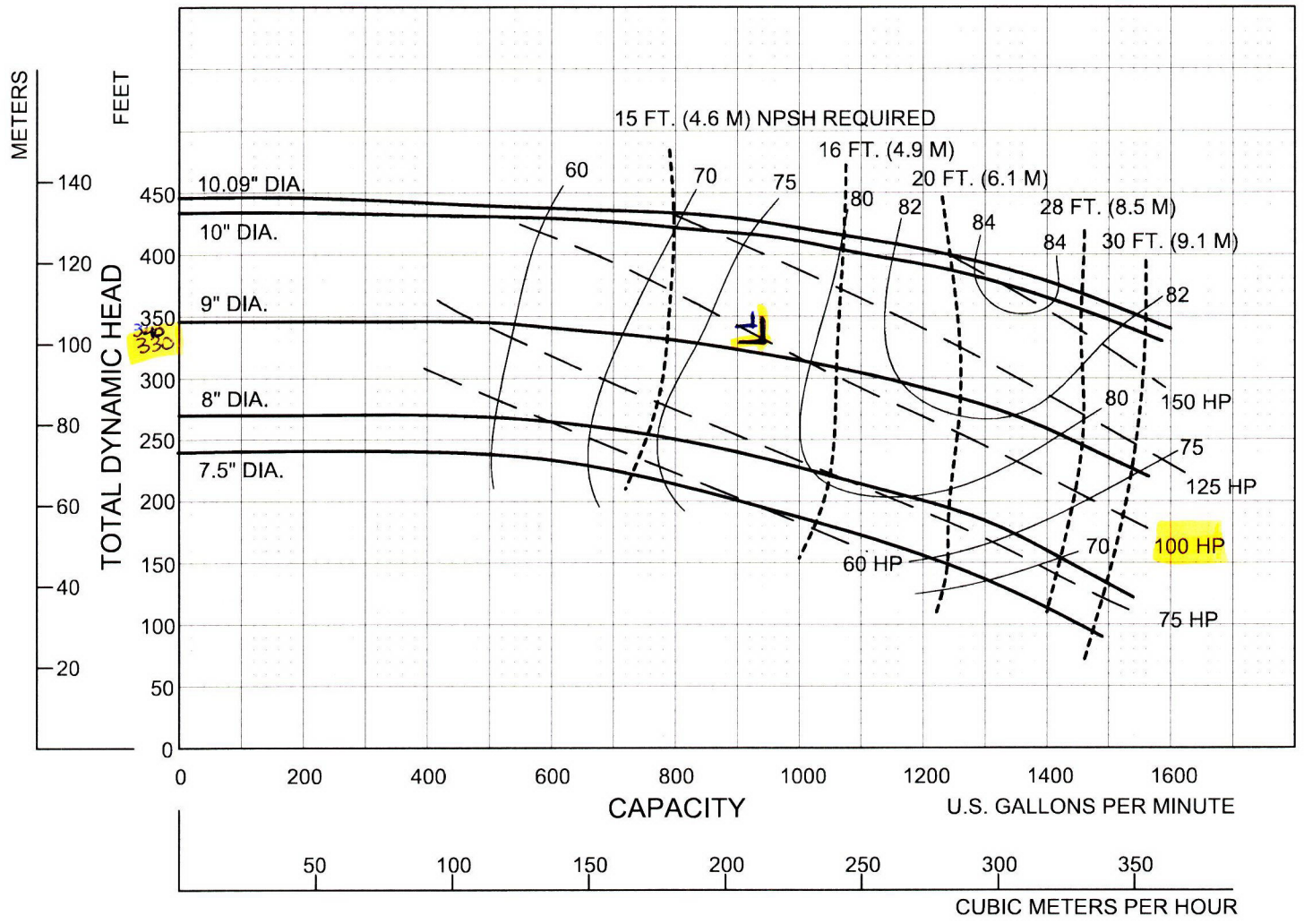
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Feet x .305 = Meters
Inches x 25.4 = Millimeters
GPM x .227 = Cubic Meters/Hour
GPM x 3.785 = Liters/Minute
HP x .746 = KW

Speed	Impeller Dia.	Style	Solids Dia.	N_S	Suction	Discharge	No. vanes
3560	VARIOUS	ENCLOSED	.62"	1505	8"	5"	6

DOUBLE VOLUTE

MOUNTING CONFIG.: CC, VM, F, VF, EM, VC



Performances shown are for cool water, close-coupled electric configuration with packing. Other mounting styles or liquids may require horsepower and/or performance adjustments.

7/25/00

CORNELL
Efficient by Design

Cornell Pump Company • Portland, Oregon

MODEL # 5YB - 3600 RPM

5YB36



30H

3/4" Full Circle, Brass Impact Sprinkler

Bearing: 3/4" Male NPT, Brass
Trajectory Angle: 27°
Operating Range: 25-80 psi
Flow Rate: 2.9-13.1 GPM
Radius: 40-56 ft.

FEATURES

- Heavy duty brass construction
- Stainless steel springs and fulcrum pin
- Chemically resistant washers
- Dual nozzle ports
- Two-year warranty

BENEFITS

- Wide range of flow rates
- Corrosion and grit resistant
- Built to last

PERFORMANCE DATA

Brass Straight Bore Nozzle (SBN-3) with Plug (Stream Height: 9 ft.)

PSI @ Nozzle	NOZZLE SIZE 9/64" Rad.	9/64" GPM	5/32" Rad.	5/32" GPM	11/64" Rad.	11/64" GPM	3/16" Rad.	3/16" GPM
25	40	2.90	41	3.50	41	4.30	42	5.10
30	40	3.10	42	3.90	44	4.70	45	5.60
35	41	3.40	43	4.20	45	5.10	47	6.00
40	41	3.60	44	4.50	46	5.40	48	6.40
45	42	3.80	44	4.70	46	5.70	49	6.80
50	42	4.10	45	5.00	47	6.10	50	7.20
55	43	4.20	45	5.20	48	6.30	50	7.60
60	43	4.40	46	5.50	48	6.60	51	7.90
65	44	4.60	46	5.80	49	6.90	51	8.20
70	44	4.80	47	5.90	49	7.20	52	8.50
75	45	5.00	47	6.10	50	7.40	52	8.80
80	45	5.10	48	6.30	50	7.70	53	9.10

Brass Straight Bore Nozzle (SBN-3) with Spreader (LAN-1) (Stream Height: 9 ft.)

PSI @ Nozzle	NOZZLE SIZE 9/64" x 3/32-7° Rad.	9/64" x 3/32-7° GPM	5/32" x 3/32-7° Rad.	5/32" x 3/32-7° GPM	11/64" x 3/32-7° Rad.	11/64" x 3/32-7° GPM	3/16" x 3/32-7° Rad.	3/16" x 3/32-7° GPM	3/16" x 1/8-20° Rad.	3/16" x 1/8-20° GPM
25	40	4.20	41	4.80	41	5.60	42	6.40	42	7.40
30	40	4.60	42	5.30	44	6.10	45	7.00	45	8.10
35	41	4.90	43	5.70	45	6.60	47	7.50	47	8.70
40	41	5.20	44	6.10	46	7.00	48	8.10	48	9.30
45	42	5.60	44	6.50	46	7.40	49	8.50	49	9.90
50	42	5.90	45	6.80	47	7.90	50	9.00	50	10.40
55	43	6.10	45	7.10	48	8.20	50	9.40	50	10.90
60	43	6.40	46	7.40	48	8.60	51	9.90	51	11.40
65	44	6.70	46	7.80	49	8.90	51	10.20	51	11.80
70	44	6.90	47	8.10	49	9.30	52	10.70	52	12.30
75	45	7.20	47	8.30	50	9.60	52	11.00	52	12.70
80	45	7.50	48	8.70	50	10.00	53	11.50	53	13.10

Brass Straight Bore Nozzle with Vane (SBN-3V) with Plug (Stream Height: 10 ft.)

PSI @ Nozzle	NOZZLE SIZE 9/64" Rad.	9/64" GPM	5/32" Rad.	5/32" GPM	11/64" Rad.	11/64" GPM	3/16" Rad.	3/16" GPM
25	42	2.90	44	3.50	45	4.30	46	5.10
30	43	3.10	45	3.90	46	4.70	47	5.60
35	44	3.40	46	4.20	47	5.10	49	6.00
40	45	3.60	47	4.50	48	5.40	50	6.40
45	46	3.80	48	4.70	49	5.70	52	6.80
50	46	4.10	49	5.00	50	6.10	53	7.20
55	47	4.20	50	5.20	51	6.30	54	7.60
60	47	4.40	50	5.50	51	6.60	54	7.90
65	48	4.60	51	5.80	52	6.90	55	8.20
70	48	4.80	51	5.90	53	7.20	55	8.50
75	49	5.00	52	6.10	54	7.40	56	8.80
80	50	5.10	52	6.30	55	7.70	56	9.10

Brass Straight Bore Nozzle with Vane (SBN-3V) with Spreader (LAN-1) (Stream Height: 10 ft.)

PSI @ Nozzle	NOZZLE SIZE 9/64" x 3/32-7° Rad.	9/64" x 3/32-7° GPM	5/32" x 3/32-7° Rad.	5/32" x 3/32-7° GPM	11/64" x 3/32-7° Rad.	11/64" x 3/32-7° GPM	3/16" x 3/32-7° Rad.	3/16" x 3/32-7° GPM	3/16" x 1/8-20° Rad.	3/16" x 1/8-20° GPM
25	42	4.20	44	4.80	45	5.60	45	6.40	46	7.40
30	43	4.60	45	5.30	46	6.10	47	7.00	47	8.10
35	44	4.90	46	5.70	47	6.60	49	7.50	49	8.70
40	45	5.20	47	6.10	48	7.00	50	8.10	50	9.30
45	46	5.60	48	6.50	49	7.40	52	8.50	52	9.90
50	46	5.90	49	6.80	50	7.90	53	9.00	53	10.40
55	47	6.10	50	7.10	51	8.20	54	9.40	54	10.90
60	47	6.40	50	7.40	51	8.60	54	9.90	54	11.40
65	48	6.70	51	7.80	52	8.90	55	10.20	55	11.80
70	48	6.90	51	8.10	53	9.30	55	10.70	55	12.30
75	49	7.20	52	8.30	54	9.60	56	11.00	56	12.70
80	50	7.50	52	8.70	55	10.00	56	11.50	56	13.10

PART NUMBERS AND ORDERING INFORMATION

Ordering Example	MAKE YOUR SPRINKLER CHOICE FROM CHART 1	CHOOSE NOZZLE SIZE (S) FROM CHART 2	ADD THEM TOGETHER TO CREATE THE PART NUMBER
To order a 30H sprinkler with an 11/64" Brass Straight Bore Nozzle and a 1/8" 20° Brass Low Angle Spreader Nozzle the part number would be:	A08402-	+ 11-08	= A08402-11-08

Chart 1	PART NUMBER: FIRST HALF
SPRINKLER ONLY / PLUG	
Sprinkler without Nozzle	A08401
Sprinkler without Nozzle plus Brass Plug	A08411
SPRINKLER WITH SINGLE NOZZLE INSTALLED	
Sprinkler with **SBN-3** and Plug	A08413-
Sprinkler with **SBN-3V** and Plug	A10713-
Sprinkler with **RFN-3** and Plug	A08414-
SPRINKLER WITH COMBINATION NOZZLES INSTALLED	
Sprinkler with **SBN-3** and **LAN-1-7**	A08403-
Sprinkler with **SBN-3** and **LAN-1-20**	A08402-
Sprinkler with **SBN-3V** and **LAN-1-7**	A10703-
Sprinkler with **SBN-3V** and **LAN-1-20**	A10702-
Sprinkler with **LPN-3** and **LAN-1-20**	A08405-

Chart 2		PART NUMBER: SECOND HALF 3/32"	7/64"	1/8"	9/64"	5/32"	11/64"	3/16"
NOZZLE								
Brass Straight Bore Nozzle (105842-)	SBN-3	–	–	–	09	10	**11**	12
Brass Straight Bore with Vane (106131-)	SBN-3V	–	–	–	09	10	**11**	12
Brass 7° Low Angle Spreader (100225-)	LAN-1-7	**06**	07	08	09	10	11	–
Brass 20° Low Angle Spreader (100226-)	LAN-1-20	06	07	**08**	09	10	11	–
Brass Low Pressure Nozzle (104538-)	LPN-3	–	–	–	09	10	**11**	12

RAIN FLOW NOZZLE	GPM:	3.5	4	4.5	5	5.5	6	6.5	7.5	8	9	10	11
Brass Rain Flow (111089-)	RFN-3	03-50	04-00	04-50	05-00	05-50	06-00	06-50	07-50	08-00	09-00	10-50	11-00
Brass Plug (100225)		Bold nozzle size numbers denote the most common nozzle choices.											

For flow rate information on RFN-3 see page 40.

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Rain Bird Agri-Products Co. / 633 W. Foothill Blvd. / Glendora, CA 91741-2469 / Phone: (800) 435-5624 / Fax: (626) 852-7310

Gmail

Rick Bowers <rick.bdiamondranch@gmail.com>

IRR USAGE 50608194.pdf

1 message

Charity Gilmore <charity.gilmore@nli.coop> Mon, Nov 29, 2021 at 9:05 AM
To: "rick.bdiamondranch@gmail.com" <rick.bdiamondranch@gmail.com>

Good Morning Rick,

Attached is the Consumption history for your account. This was the only report I could come up with to show usage.

Charity Gilmore,

Member Services Specialist

P.O. BOX 269

421 Chevy St

Sagle, Id 83860

NLI
NORTHERN LIGHTS, INC.

Phone: 208-263-5141

Charity.gilmore@nli.coop

IRR USAGE 50608194.pdf
71K

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Billing Period	Account	Meter #	Usage	Days Use	Use Reveni	Reporting
Mar-18	50608194	60867	0	115	1,038.00	1,038.00
Nov-17	50608194	60867	0	250	0	0
Mar-17	50608194	60867	0	116	1,008.00	1,008.00
★ Nov-16	50608194	60867	23,981	153	3,320.57	3,320.57
Nov-16	50608194	60867	0	31	0	0
Nov-16	50608194	60867	0	30	0	0
Nov-16	50608194	60867	0	31	0	0
Mar-16	50608194	60867	0	104	1,008.00	1,008.00
Mar-16	50608194	60867	0	0	0	0
Mar-16	50608194	60851	0	17	0	0
★ Nov-15	50608194	60851	76,050	0	5,649.12	5,649.12

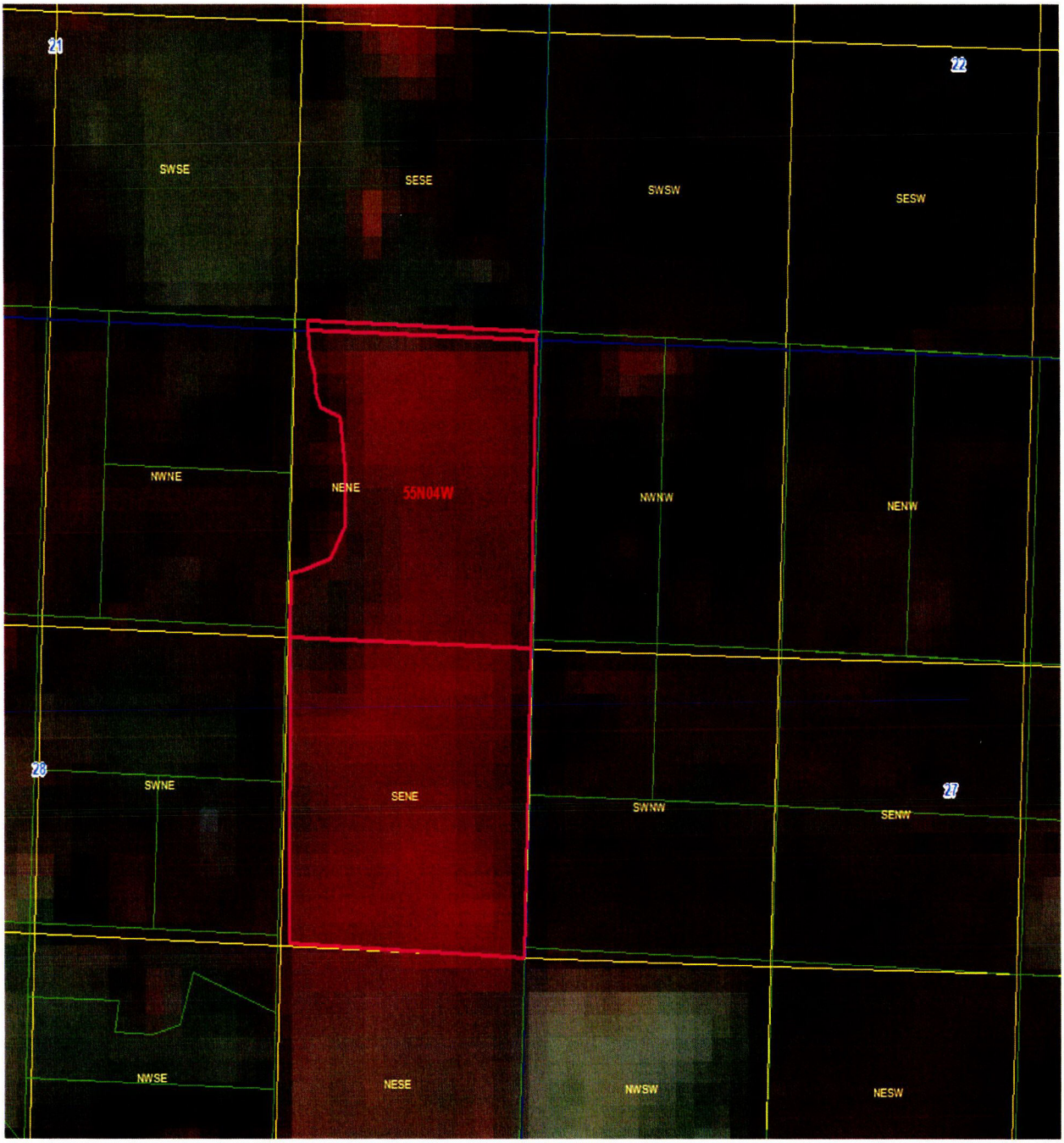
Billing Cycle April 1st – October 31st → Billed on following November month

November 1st – March 31st

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PERMIT 96-9583 IRRIGATION ACREAGE IMAGERY

Twp 55N, Rge 04W, Sec 28, NE¼NE¼ & SE¼NE¼

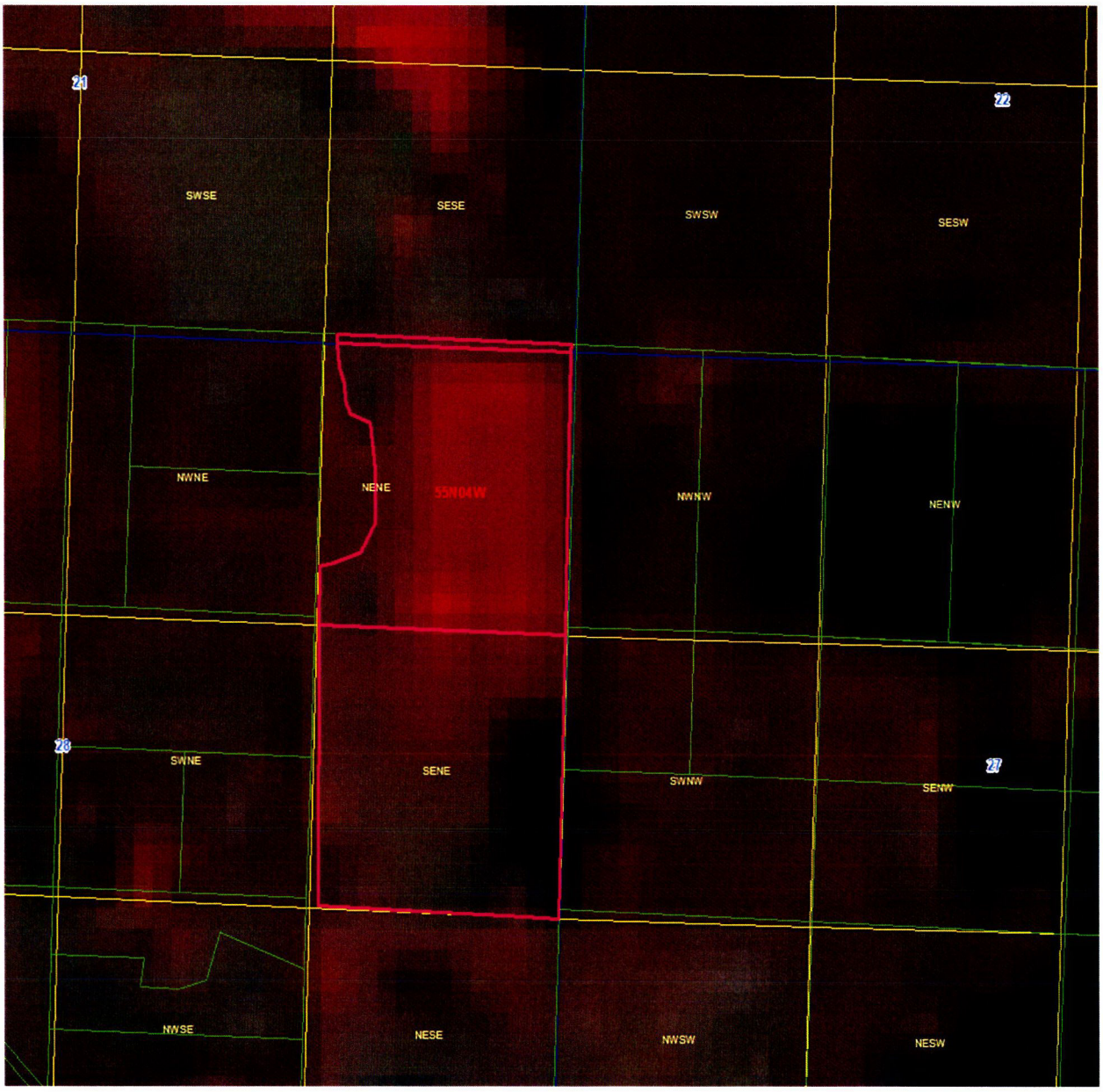


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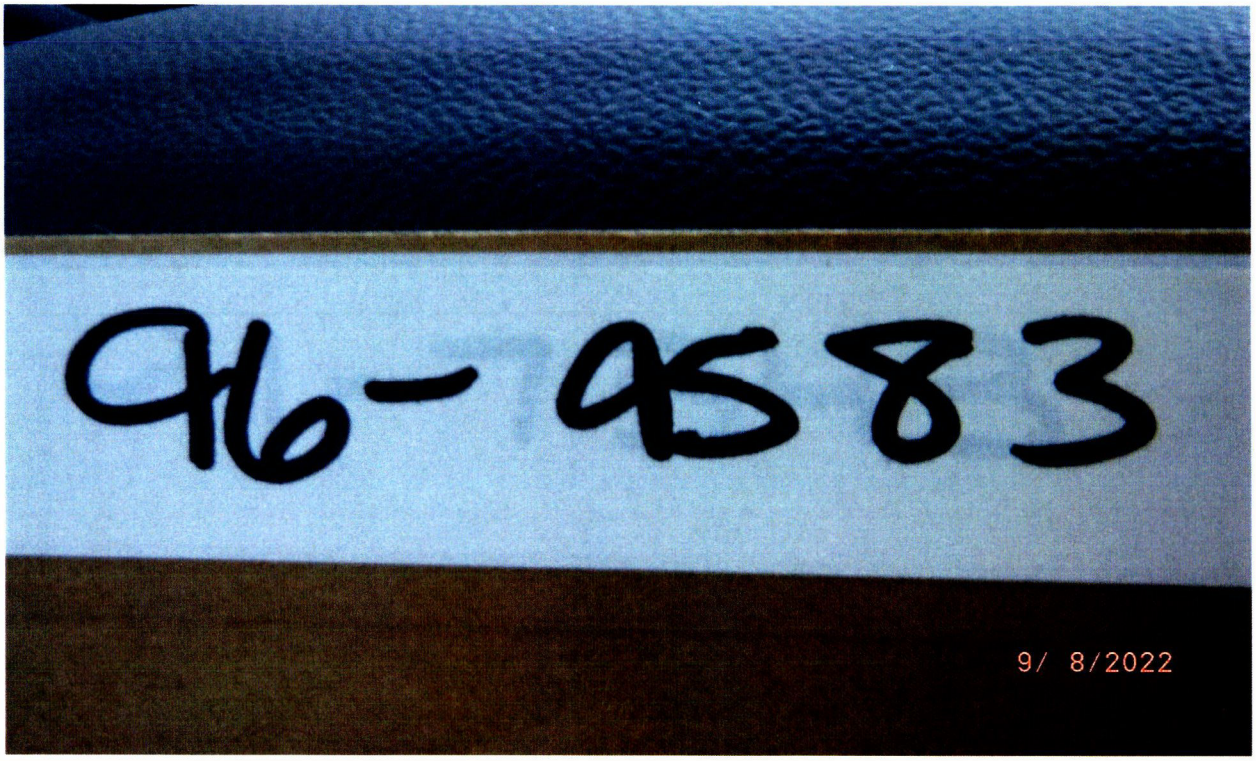
PERMIT 96-9583 IRRIGATION ACREAGE IMAGERY

Twp 55N, Rge 04W, Sec 28, NE¼NE¼ & SE¼NE¼



LANDSAT IMAGERY p43r27_l8_20160908_b543.sid

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BENEFICIAL USE FIELD EXAMINATION DATE 9/8/2022

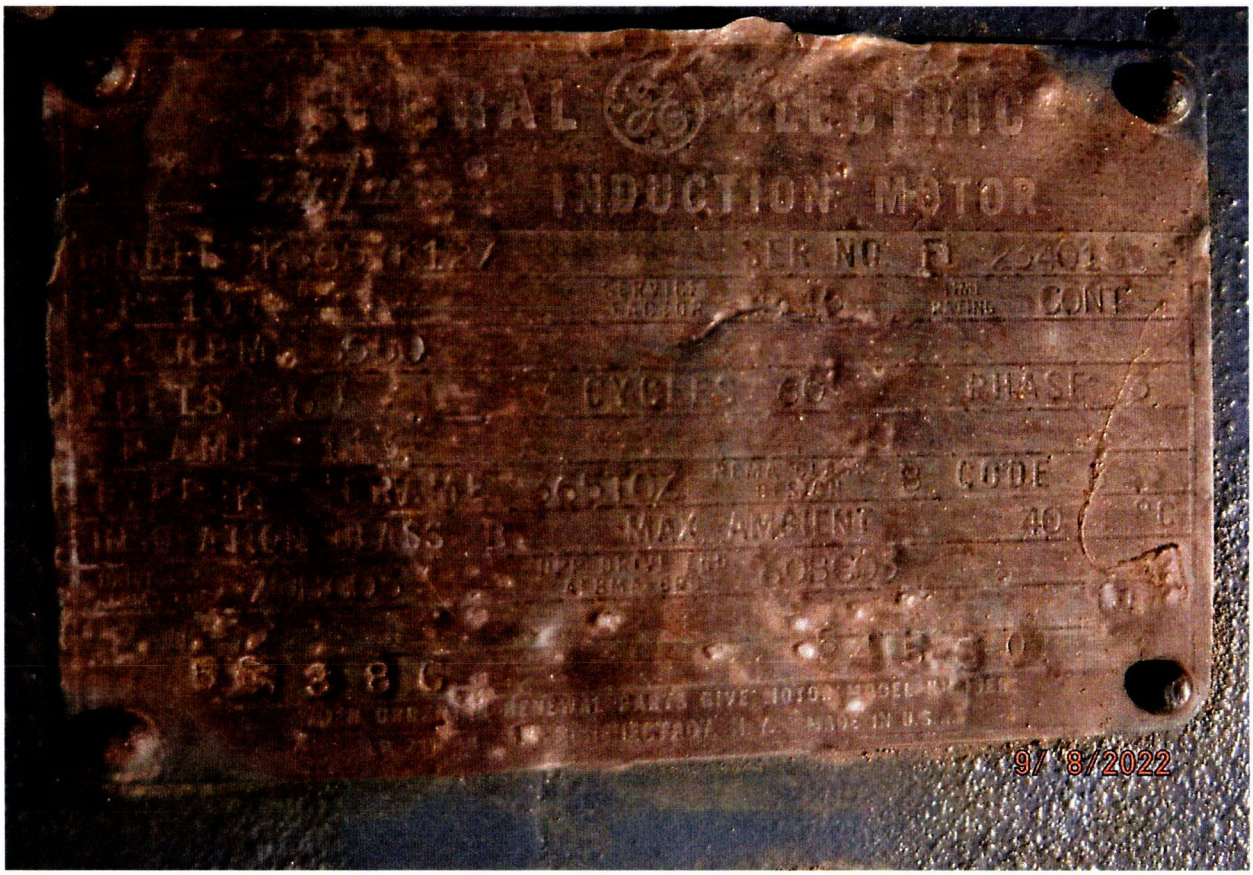


POD – SMALL 24 HR IMPOUNDMENT PONDING BUILT ON EDGE OF SPRING SOURCE

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AT POD – 100 HP GENERAL ELECTRIC INDUCTION PUMP/MOTOR



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3 PHASE PUMP/MOTOR POWER BOX AND DEDICATED METER BOX



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10 INCH MAIN IRRIGATION LINE ROUTES FROM POD UP GRADE TO POU



IRRIGATION POU

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IRRIGATION POU



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10 INCH MAIN LINE REDUCES TO 8 INCH MAIN LINE AT SOUTHERN EXTENT OF POU – IRRIGATION RISER PIPES INSTALLED ON 8 INCH MAIN LINE EVERY 120 FT



3 INCH 40 FT HANDLINE LATERALS CONNECT TO RISER PIPES

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IRRIGATION HAND LINE SET ASIDE WHEN NOT IN ROTATION FOR IRRIGATION



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RAINBIRD & NELSON FULL CIRCLE IMPACT SPRINKLERS INSTALLED WITH 11/64 IN NOZZLES



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