

TO: Water Rights Section

FROM: Groundwater/Hydrology Section

Reviewer's Name

SUBJECT: Application G-14390

Nov. 8 1996

Michael Zwart

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE _____ Basin rules, one or more of the proposed POA's is/is not within _____ feet/mile of a surface water source (_____) and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use:
 - a. ___ will, or have the potential for substantial interference with the nearest
 - b. ___ will not surface water source, namely _____; or
 - c. ☒ will if properly conditioned, adequately protect the surface water from interference:
 - i. ☒ The permit should contain condition #(s) 7J;
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. ___ The permit should be conditioned as indicated in item 4 below; or
 - d. ___ will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

3. BASED UPON available data, I have determined that groundwater for the proposed use:
 - a. ___ will, or likely be available in the amounts requested without injury to prior rights
 - b. ___ will not and/or within the capacity of the resource; or
 - c. ☒ will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. ☒ The permit should contain condition #(s) 7B;
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. ___ The permit should be conditioned as indicated in item 4 below; or
4.
 - a. ___ THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
 - b. ___ The permit should allow groundwater production from no shallower than _____ ft. below land surface;
 - c. ___ The permit should allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft. and _____ ft. below land surface;
 - d. ___ Well reconstruction is necessary to accomplish one or more of the above conditions.
 - e. ___ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: _____

(Well Construction Considerations on Reverse Side)

G-14390

MEMO

November 8, 1996

FROM GW: Michael Zwart
(Reviewer's Name)

SUBJECT Scenic Waterway Interference Evaluation

☐ No

The source of appropriation is within or above a Scenic Waterway.

☐ No

Use the Scenic Waterway condition (Condition 7J).

PREPONDERANCE OF EVIDENCE FINDING: (Check box only if statement is true)



At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.

FLOW REDUCTION: (To be filled out only if Preponderance of Evidence box is not checked)

Exercise of this permit is calculated to reduce monthly flows in _____ Scenic Waterway by the following amounts (expressed) as a proportion of the consumptive use by which surface water flow is reduced.

[illegible]

STATE OF OREGON
WATER RESOURCES DEPARTMENT

INTEROFFICE MEMO

To: FILE

Date: November 8, 1996

From: MICHAEL ZWART

Subject: APPLICATION G-14390, L. S. RANCH

This application proposes to use 600 gpm of groundwater from one well for supplemental irrigation of 111.5 acres. The well is reportedly 330 feet deep. No logs in the files exactly match the reported construction, but another well owned by the applicant in the same section penetrates a semiconfined aquifer developed in welded tuff below 65 feet in depth.

The well is located about 400 feet from Camp Creek. The aquifer penetrated is not likely in hydraulic connection with the nearest reach of the creek, but probably is at some greater distance down stream, possibly between 1500 and 2500 feet. There is no potential for substantial interference with the creek based on the aquifer penetrated and the distance.

Permit conditions 7B and 7J are recommended.

WATER WELL REPORT
STATE OF OREGON

CROOK
2015

PLEASE TYPE OR PRINT

RECEIVED

JUN 15 1984

State Well No. 175/22E-

State Permit No. 190

WATER RESOURCES DEPT
SALEM, OREGON

(1) OWNER:

Name Les Schwab Ranch
Address Star Rt.
City Paulina State Ore

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air ☒ Driven ☐ Domestic ☐ Industrial ☐ Municipal ☐
Rotary Mud ☐ Dug ☐ Irrigation ☒ Test Well ☐ Other ☐
C ☐ Bored ☐ Thermal: Withdrawal ☐ Reinjection ☐

(4) PROPOSED USE (check):

(5) CASING INSTALLED:

Steel ☒ Plastic ☐
Threaded ☐ Welded ☒

10" Diam. from + 1 ft. to 30 ft. Gauge .250
" Diam. from ft. to ft. Gauge

LINER INSTALLED:

" Diam. from ft. to ft. Gauge

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used

Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name
Type Model No.
Diam. Slot Size Set from ft. to ft.
Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? A & H Pump
fld: 600 gal./min. with 230 ft. drawdown after 4 hrs.
" " " " " "
Air test 500 gal./min. with drill stem at 300 ft. 1 hrs.
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water 54 Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes ☐ No ☒

Well seal—Material used cement
Well sealed from land surface to 30 ft.
Diameter of well bore to bottom of seal 14 in.
Diameter of well bore below seal 10" to 34 1/2 8" 34 1/2 to 403
Number of sacks of cement used in well seal 15 sacks
How was cement grout placed? pumped from 301 to 0
Was pump installed? NO Type HP Depth ft.
Was a drive shoe used? ☐ Yes ☒ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of Water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel: ft.
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Crook Driller's well number
SE 1/4 NE 1/4 Section 12 T. 17S R. 22E
Tax Lot # Lot Blk Subdivision
Address at well location:

(11) WATER LEVEL: Completed well.

Depth at which water was first found 20
Static level 33 ft. below land surface. Date 5/19/84
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 10 & 8

Depth drilled 403 ft. Depth of completed well 403
Formation: Describe color, texture, grain size and structure of materials; and thickness and nature of each stratum and aquifer penetrated, with at least one e for each change of formation. Report each change in position of Static Water L and indicate principal water-bearing strata.

MATERIAL	From	To	SWI
heavy brn soil	0	3	
brn congl med	3	9	
tan congl fine	9	20	
multi color congl (WB)	20	26	
blue clay	26	56	33
welded tuft blue (WB @ .65)	56	79	
green tuft	79	85	
gray basalt ?	85	106	
green tuft	106	128	
blueish gray tuft (WB @ 165)	128	170	
green clay w/brn sand inter beds)	170	181	
gray welded tuft (WB @ 270)	181	343	
lt green clay	343	358	
gray welded tuft	358	391	
green clay	391	403	

Work started 5/9 19 84 Completed 5/15 19
Date well drilling machine moved off of well 5/15 19

(unbonded) Water Well Constructor Certification (if applicable)

This well was constructed under my direct supervision. Materials and information reported above are true to my best knowledge and belief
[Signed] Date, 19..

Bonded Water Well Constructor Certification:

Bond 468400 Issued by: U.S.F.G.
(number) Surety Company Name

This well was drilled under my jurisdiction and this report is true the best of my knowledge and belief.

Name Johnson Well Drilling
(Person, firm or corporation) (Type or print)

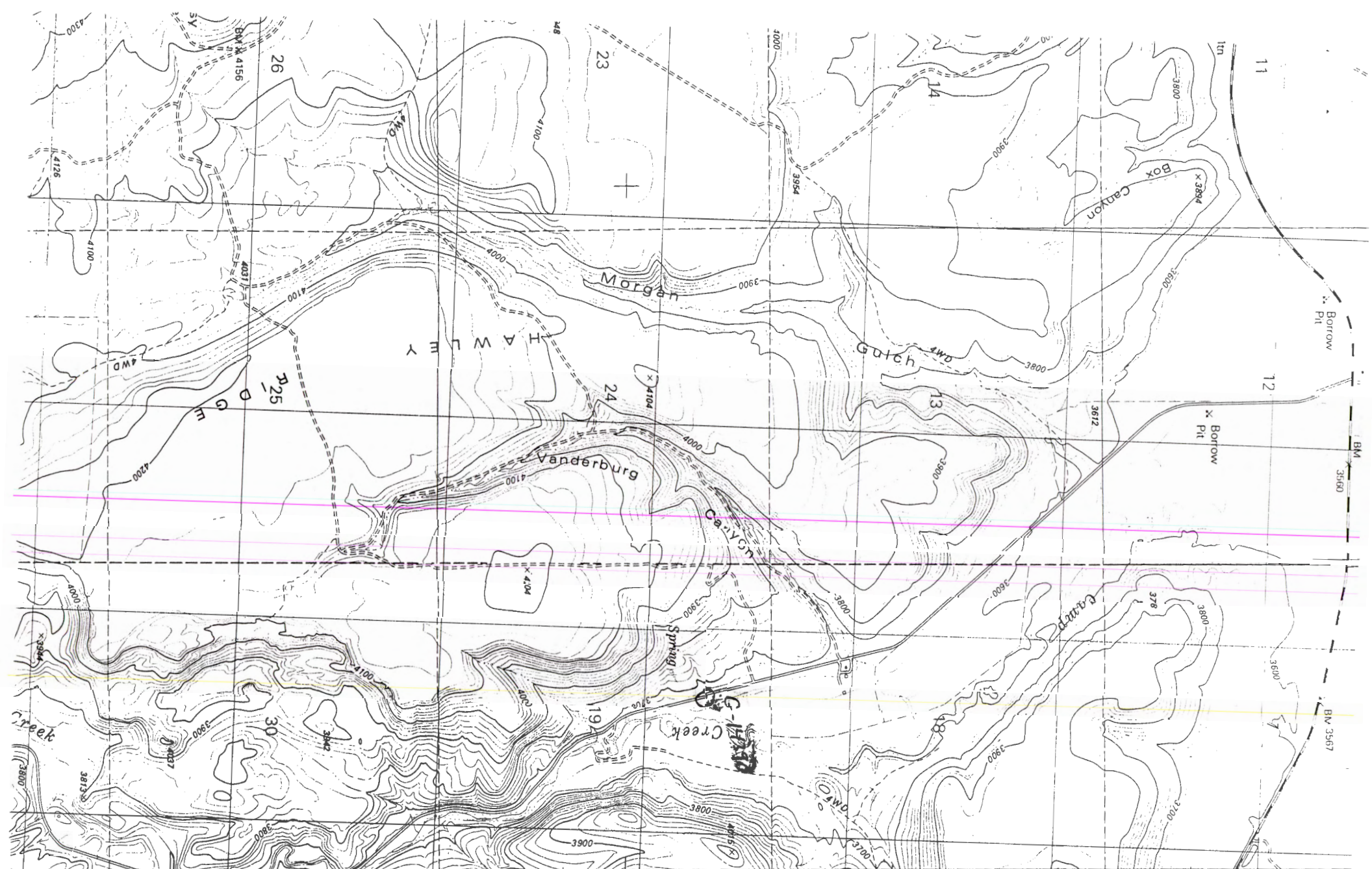
Address 3626 NW Coyner Redmond, Ore 97756

[Signed] John Johnson Water Well Constructor
Date 5/30, 19..

NOTICE TO WATER WELL CONSTRUCTOR
The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 97310
within 30 days from the date of well completion.

SP#45292



890 000
FEET

PAULINA 10 MI.

(LIGGETT TABLE)
1972 II SE

A new road
pt

County: Crook

Quad name & #: Liggett Table
Rabbit Valley 139
mine 195

REVIEW CHECKLIST

FOR G- 14390

- ☒ Appropriate parts of the stream index
- ☒ Estimated number of wells within a one-mile radius & identified types.
- ☒ State Observation wells within a five-mile radius.
- ☐ Verify that well log is in file. If not provide one. ✓
- ☒ List groundwater permits within a five-mile radius with extraordinary conditions.

Number of wells: 1

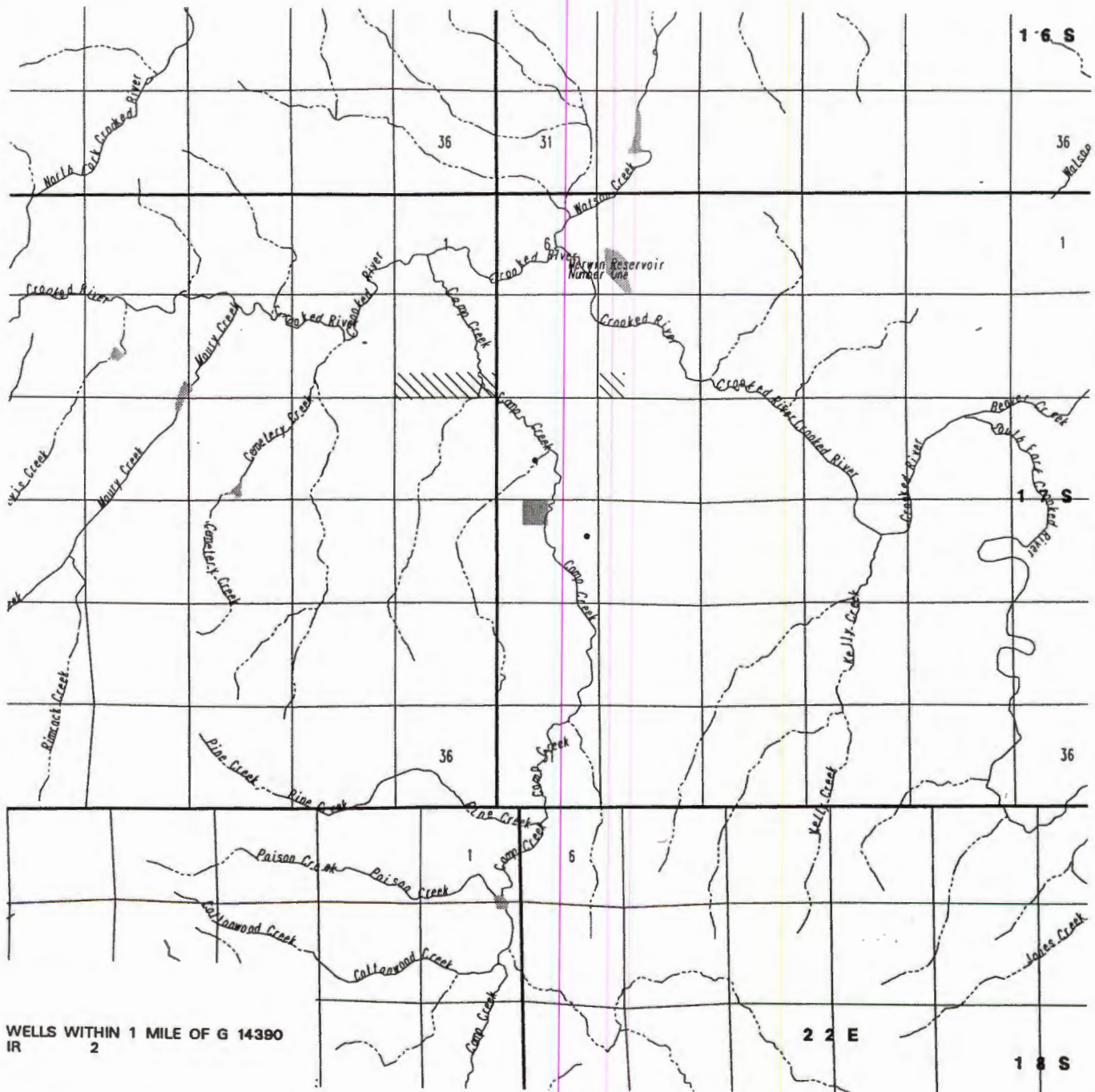
Well location: 17S/22E/19 BA

APPLICATIONS WITH PERMIT CONDITIONS:

none found

Wells in the vicinity of application G 14390

- Application well(s) in this 1/4-1/4 section
- ◻ Well(s) identified in this section from OWRD's well log database within 1 mi. radius of application well(s)
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s)
- ✕ Permitted well(s) in this 1/4-1/4 section within 1 mi. radius of application well(s)
- ▲ OWRD Observation well and well-id within 5 mi. radius of application well(s)
- Critical GW Area
- - - Regulated GW Area



WELLS WITHIN 1 MILE OF G 14390
IR 2

2 2 E

1 8 S

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 14390

PERMIT	T/R/S/QQ	USE	RATE	UNITS
--------	----------	-----	------	-------

**Water Right Conditions
Tracking Slip**

Groundwater/Hydrology Section

FILE ## G-14390

ROUTED TO: Water Rights

TOWNSHIP/

RANGE-SECTION: T17S/R22E-196a

CONDITIONS ATTACHED? [☒]yes [☐]no

REMARKS OR FURTHER INSTRUCTIONS:

Reviewer: Michael Zwart