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Irrigation system:  
Please see attached photos.

I installed a 6" intake check valve attached to a fish screen.

My pump is compact and is buried in the ground with cement floor and walls.

The river water is filtered and then pumped through 3" pvc line to each of the 14 valves installed in various locations on the farm. The water use is measured with a water meter.

I use drip line and 2 gallon per hour drip emitters for the hazelnut orchard.

I use 1 1/2" layflat tubing and t-tape under plastic film covered raised beds for row crops and garlic. This conserves water and prevents some weeds.

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Irrigation  
design from  
page 7 of the  
application

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Intake and  
fish screen

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Pump

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ARKAL  
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Filter

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water  
meter

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REMOVE  
PRESSURE

Valves.

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gallons per minute  
Pressure regulator

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Orchard

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Drip line  
2 gal per  
~~hour~~ hour  
emitters





T-tape  
under plastic  
film

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Garlic

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TRANSFER TO: NE 1/4 of the NE 1/4 of SECTION 14  
 TRANSFER FROM: NW 1/4 of SE 1/4; NE 1/4 of SW 1/4  
 and the SE 1/4 of SW 1/4 of SECTION 12  
 T2S, R2E of the WILLAMETTE MERIDIAN, CLACKAMAS CO., OR

CORPORATE BOUNDARY LINE -----  
 DONATION LAND CLAIM (DLC #) -----

HEIDI'S HOUSE ADDRESS:  
 16971 S. CLACKAMAS RIVER DRIVE  
 OREGON CITY, OR 97045

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 MAY 12 2011  
 WATER RESOURCES DEPT  
 SALEM, OREGON

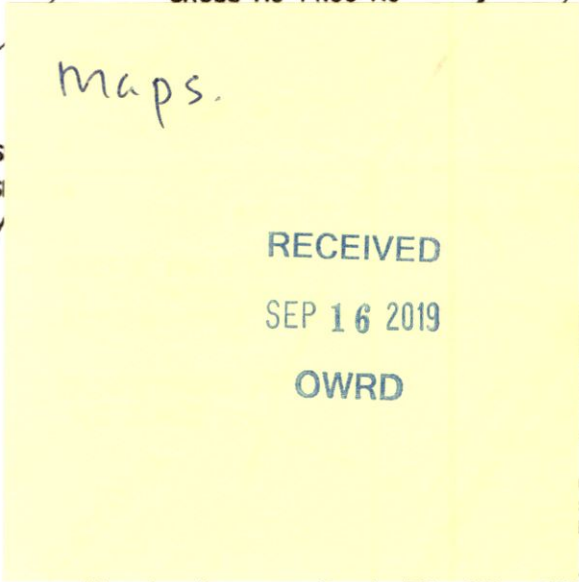
TOPOGRAPHIC SURVEY DATA  
 BY LOVE LAND SURVEYING  
 WATER LINE ON 9/1998  
 LEVEE TOE ONLY SHOWN

HOUSE ADDRESS:  
 16963 S. CLACKAMAS RIVER DRIVE  
 OREGON CITY, OR 97045  
 IS PRESENTLY OCCUPIED

EDGE OF WATER  
 TAX LOT 100  
 14.90 AC GROSS

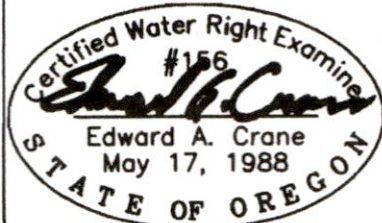
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 STONE WITH "X"

OWRD  
 ASSESSOR MAP 9.92+/- AC  
 TO EXISTING WATERLINE PER  
 PS 28146  
 GROSS AC 14.90 AC

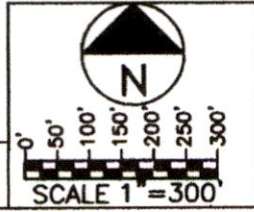


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SEC.	1/4 1/4	IRRIG. ACRES	CFS (APPROX. GPM)
14	NE NE	11.6 ACRES GEN. NURSERY	0.145 CFS (65 GPM) 1/80 CFS/AC DAY



PREPARATION OF THIS MAP  
 WAS FOR THE PURPOSE OF  
 IDENTIFYING THE LOCATION  
 OF WATER RIGHTS ONLY &  
 HAS NO INTENT TO PROVIDE  
 DIMENSIONS OR LOCATION  
 OF PROPERTY OWNERSHIP  
 LINES.



PROPOSED INTAKE #2: Is located 250 FEET SOUTH and 500 FEET WEST of the NORTHEAST CORNER of SECTION 14, TOWNSHIP 2 SOUTH, RANGE 2 EAST of the WM, CLACKAMAS COUNTY, OREGON (Will be located in the NORTHEAST QUARTER of the NORTHEAST QUARTER of said SECTION 14).

SURFACE WATER TRANSFER APPL.  
 TRANSFER PERMIT NO. T-

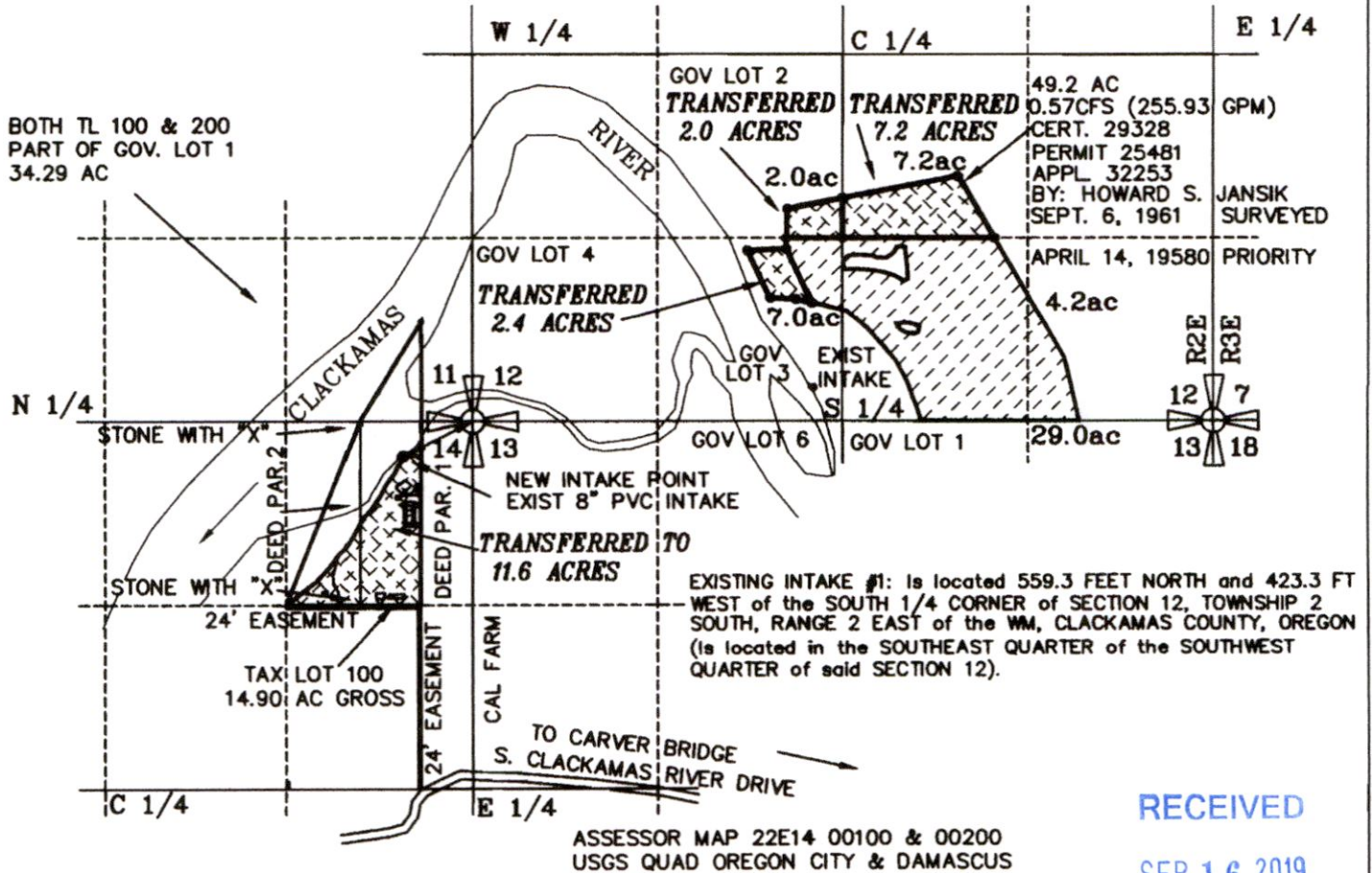
DATE APRIL 2011		<b>EDWARD A. CRANE</b> CWRE	APPL. FOR TRANSFER PERMIT NO. T-	SHEET 2/2
PROJECT NO. 559-001		13755 SE 119TH DRIVE CLACKAMAS, OREGON 97015 OFFICE: 503-698-3890 FAX NO: 503-698-3890 E-MAIL: eces1@frontier.com	PERMIT NUMBER T- IN THE NAME OF: HEIDI AFFENTRANGER dba RIVERSIDE FARM 16941 SOUTH CLACKAMAS RIVER DRIVE OREGON CITY, ORE 97045 (TEL: 503-961-5087)	

T 11240

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CORPORATE  
BOUNDARY LINE  
DONATION LAND  
CLAIM (DLC #)

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TRANSFER FROM: NW 1/4 of SE 1/4; NE 1/4 of SW 1/4  
and the SE 1/4 of SW 1/4 of SECTION 12  
T2S, R2E of the WILLAMETTE MERIDIAN, CLACKAMAS CO., OR



ASSESSOR MAP 22E14 00100 & 00200  
USGS QUAD OREGON CITY & DAMASCUS

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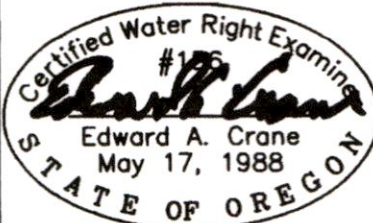
See Sheet 2/2 for larger view of "TRANSFERRED TO".

SEC.	1/4 1/4	IRRIG. ACRES	CFS (APPROX. GPM)
14	NE NE	11.6 ACRES GEN. NURSERY	0.145 CFS (65 GPM) ● 1/80 CFS/AC DAY

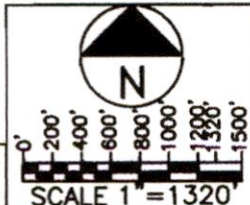
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MAY 02 2011

WATER RESOURCES DEPT  
SALEM, OREGON



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SURVEYED MARCH 7, 2011  
BY EDWARD A. CRANE, CWRE

SURFACE WATER TRANSFER APPL.  
TRANSFER PERMIT NO. T-

DATE APRIL 2011		<b>EDWARD A. CRANE</b> CWRE	APPL. FOR TRANSFER PERMIT NO. T-	SHEET 1/2
PROJECT NO. 559-001		13755 SE 119TH DRIVE CLACKAMAS, OREGON 97015 OFFICE: 503-698-3890 FAX NO: 503-698-3890 E-MAIL: eces1@frontier.com	PERMIT NUMBER T- IN THE NAME OF: HEIDI AFFENTRANGER dba RIVERSIDE FARM 16941 SOUTH CLACKAMAS RIVER DRIVE OREGON CITY, ORE 97045 (TEL: 503-961-5087)	

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Google earth

feet 4000  
km 1



EXHIBIT 1

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