CLAIM OF BENEFICIAL USE for Transfer with Multiple Changes - Groundwater



Oregon Water Resources Department

725 Summer Street NE, Suite A Salem, Oregon 97301-1266 (503) 986-0900

www.oregon.gov/OWRD

A fee of \$230 must accompany this form for any <u>Transfer final orders</u> including a water right with a priority date of July 9, 1987, or later.

Example – A transfer involves 5 rights and one of the rights has a priority date of July 9, 1987, or later, the fee is required.

A separate form shall be completed for each transfer.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at: https://www.oregon.gov/OWRD/Forms/Pages/default.aspx

The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

"Section 7" of this form is intended to aid in the completion of this form and should not be submitted.\

A claim of beneficial use includes both this report and a map. If the map is being mailed separately from this form, please include a note with this form indicating such.

If you have questions regarding the completion of this form, please call 503-979-9103.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see:

https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx

GENERAL INFORMATION Type of Authorized Change This Claim is being submitted for a transfer involving multiple changes. Mark all that apply: 1. Change in POA(s) or Additional POA(s) 3. Change in Character of Use A separate section will be completed for each type of change authorized in the transfer final order. 1. File Information APPLICATION # T- 11760 JUL 0 3 2024

2.	Property	Owner	(current	owner	information	1)
----	----------	-------	----------	-------	-------------	----

APPLICANT/BUSINESS NAME City of Island City		PHONE NO 541-963-	ADDITIONAL CONTACT No. 1-963-5017	
ADDRESS 10605 Island Avenue				
CITY Island City	STATE OR	ZIP 97850	E-MAIL karen@islandcityhall.com	

If the current property owner is not the transfer holder of record, it is recommended that an assignment be filed with the Department. <u>Each</u> transfer holder of record must sign this form.

3. Transfer holder of record (this may, or may not, be the current property owner)

TRANSFER HOLDER OF RECORD City of Island City			
Address 10605 Island Avenue			
Сіту Island City	STATE OR	ZIP 97850	

4. Date of Site Inspection:

April 11, 2024

5. Person(s) interviewed and description of their association with the project:

Water System Operator

•	C	
D	LOU	ntv:

Union		

7. If any property described in the place of use of the transfer final order is excluded from this report, identify the owner of record for that property (ORS 537.230(5)):

OWNER OF RECORD N/A			
ADDRESS			
Сіту	STATE	ZIP	

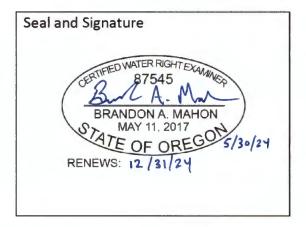
Add additional tables for owners of record as needed

JUL 0 3 2024

SIGNATURES

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.



CWRE NAME Brandon A. Mahon		PHONE No. 541-963-83	809	Additional Contact No.
ADDRESS 1901 N. Fir Street				
CITY La Grande	STATE OR	ZIP 97850	E-MAIL bmahon@a	ndersonperry.com

Transfer Holder of Record Signature or Acknowledgement

Each transfer holder of record must sign this form in the space provided below.

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	TITLE	DATE
Mariel Compas	/ Dave Comfort	Mayor	6-27.24

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Changes Made

Note: The Claim only needs to describe the changes that were authorized in the transfer final order.

Change #1

Change in POA(s) or Additional POA(s)

Did the transfer order authorize a change in the points of appropriation or additional points of appropriation?

If "NO", this Section can be deleted.

1. New or additional point of appropriation name or number:

POINT OF APPROPRIATION (POA) NAME OR NUMBER (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)	Source (If Listed In Transfer Final Order)
Well No. 4 (APOA 3)	UNIO 2496	N/A	N/A
Well No. 5	UNIO 52551	L-1/5856	N/A

(APOA 4 under Cert. 62005 APOA 2 under Cert. 89288)

Attach each well log available for the well (include the log for the original well and any subsequent alterations, reconstructions, or deepenings) See Attachment A.

If well logs are available, items A and B below can be deleted

-									
2.	W	a	rı	2	Ť١	n	n	C	۰

Was the use developed differently from what was authorized by the transfer final order, or extension final?

YES NO IN IT YES, describe below.

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3. Claim Summary:

POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED
Well No. 4 (APOA 3)	1 CFS	2.31	2.32
Well No. 5	1 CFS - Cert. 62005	2.44	2.43

(APOA 4 under Cert. 62005 APOA 2 under Cert. 89288) 2.67 CFS - Cert. 89288

System Description

Are there multiple new or additional Points of Appropriation (POA)?

YES NO

If "YES" you will need to copy and complete either Section A or B in this Section for each POA.

POA Name or Number this section describes (only needed if there is more than one):

Well No. 4 (APOA 3) - Cert. 62005

A. POA System Information

Provide the following information concerning the point of appropriation. Information provided must describe the equipment used to appropriate water from the point of appropriation.

1. Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	Type (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Goulds	10RJMC	Unknown	Submersible	8 inches	8 inches

2. Motor Information

MANUFACTURER	HORSEPOWER	
Unknown	60	

3. Theoretical Pump Capacity

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
60	26	79.3	26.3	2.31

4. Provide pump calculations:

See Attachment B for Well No. 4 calculations. Operating PSI not measured between well and reservoir. Value varies until output nearly matches observed flow.

5. Measured Pump Capacity (using meter if meter was present and system was operating)

INITIAL METER READING	ENDING METER READING	DURATION OF TIME OBSERVED	TOTAL PUMP OUTPUT (IN CFS)
255,038,000	255,088,000	48 min.	2.32

Reminder: For pump calculations use the reference information at the end of this document.

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System Description

Are there n	nultiple new or	additional	Points of	Appropriation	(POA))?
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VEC		NO	
ILS	ш	INO	

If "YES" you will need to copy and complete either Section A or B in this Section for each POA.

POA Name or Number this section describes (only needed if there is more than one):

A. POA System Information

Provide the following information concerning the point of appropriation. Information provided must describe the equipment used to appropriate water from the point of appropriation.

1. Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Goulds	12CHC	Unknown	Submersible	8 inches	8 inches

2. Motor Information

MANUFACTURER	HORSEPOWER	
Hitachi	75	

3. Theoretical Pump Capacity

HORSEPOWER	OPERATING PSI	*IF A WELL, THE WATER LEVEL DURING PUMPING	PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
75	33	89.4	30	2.44

4. Provide pump calculations:

See Attachment C for calculations for Well No. 5. Operating PSI not measured between well and restroom. Value varies until output nearly matches observed flow.

5. Measured Pump Capacity (using meter if meter was present and system was operating)

INITIAL METER READING	ENDING METER READING	DURATION OF TIME OBSERVED	TOTAL PUMP OUTPUT (IN CFS)
369,833,536	369,899,072	60 min.	2.43

Reminder: For pump calculations use the reference information at the end of this document.

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6. Additional notes or comments related to the system:

The average flow over the one-hour pump test was approximately 1,100 gpm or 2.4 CFS. However, the well is capable of flows greater than 1,200 gpm, as shown in the meter readout picture attached in Attachment D. Due to system operations, the well typically runs for shorter durations at this higher flow rate.

B. Groundwater Source Information (Well and Sump)

1. Is the appropriation from a dug well (sump)?

YES	NO	

If "NO", items 2 through 4 relating to this section may be deleted.

Reminder: Construction standards for sumps can be found in OAR 690-210-0400.

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Change #2

Change in Place of Use

Did the transfer ord	er authorize a	change in	the place	of use?
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YES		NO	
-----	--	----	--

If "NO", this Section can be deleted.

 Claim Summary – Authorized I 	Use:
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If Irrigation or Nursery Use:

THE # OF ACRES ALLOWED	THE # OF ACRES DEVELOPED	
N/A	N/A	

If the new use(s) was not irrigation or nursery:

New Use(s)		WAS THE NEW PLACE OF USE DEVELOPED TO THE FULL EXTENT AUTHORIZED UNDER THE ORDER? (INCLUDE THE LOCATION OF THE DEVELOPED PLACE USE ON THE CLAIM MAP)			
Municipal	YES	■ NO	NA		
	YES	NO	NA		

-							
2.	V:	arı	at	IO	n	5	٠

Z. variations:	
Was the use developed differently from what was authorized by the transfer	final order? YES NO 🔳
If yes, describe below.	
(e.g. "The order authorized a change in place of use for 40 acres. The water user only devel	oped 38 acres.")

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Change #3

Change in Character of Use

Did the transfer order authorize a change in character of use?

YES NO

If "NO", this Section can be deleted.

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CONDITIONS

All conditions contained in the transfer final order, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Describe how the water user has complied with each of the development timelines established in the transfer final order and any extensions of time issued for the transfer:

	DATE FROM TRANSFER	*THIS DATE MUST FALL BETWEEN THE "ISSUANCE DATE" AND THE "COMPLETENESS DATE"		
ISSUANCE DATE	October 27, 2014	(AAAA) (AAAAAA)		
COMPLETENESS DATE FROM ORDER (C)	October 1, 2024	June 2016		

^{*} MUST BE WITHIN PERIOD BETWEEN TRANSFER FINAL ORDER, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETE THE CHANGE

		*
2	Is there an extension final order(s)?	
Z.	is there an extension final order(s)?	
If	"NO", you may delete the following table.	

-					C .	Atan.
3.	RЛ	A D C I	Iran	1ant	(on	TITIONC
	IVI	C 031	JI C	ICIL	COIL	ditions

a.	Does the transfer final order, or any extension final order require the installation	YES NO
of	a meter or other approved measuring device?	

If "NO", items b through f relating to this section may be deleted.

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of appropriation.

b. Has a meter been installed?

YES NO

YES NO

c. Meter Information

POA NAME OR#	MANUFACTURER	SERIAL#	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Well No. 4	Water Specialties	20171138-08	Working	255,088,000	1994
Well No. 5	Endress-Hauser	M8009916000	Working	369,899,072	2015
(APOA 4-Cert. 62005 APOA 2-Cert. 89288)					

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4. Record	ding and reporting conditions	
a. Is the v	water user required to report the water use to the Department?	YES NO
If "NO", it	em b relating to this section may be deleted.	
5. Other	conditions required by the transfer final order or extension final order:	
a. W	ere there special well construction standards?	YES NO
b. W	as submittal of a ground water monitoring plan required?	YES NO
c. Ot	her conditions?	YES NO
	o any of the above, identify the condition and describe the water user's actions ith the condition(s):	to
	hall be acquired from the same aquifer (water source) as the original poi ation. All wells draw from the same aquifer.	nt of

ATTACHMENTS

Provide a list of any additional documents you are attaching to this report:

ATTACHMENT NAME	DESCRIPTION		
Attachment A	Well No. 4 (UNIO 2496), Well No. 5 (UNIO 52551)		
Attachment B	Well No. 4 Pump Calculations		
Attachment C	Well No. 5 Pump Calculations		
Attachment D	Well No. 5 Flowmeter Readout		

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CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1'' = 1320 feet, 1'' = 400 feet, or the original full-size scale of the county assessor map for the location.

The changes that were authorized under the transfer final order must be mapped based on the developed locations; new or additional points of appropriation and place of use.

In cases where the order involved additional points of appropriation, the additional points should be mapped based on their developed locations. The original points of appropriation should be mapped based on the original right of record at the time the transfer final order was issued.

In cases where the order involved changing the place of use for a portion of a water right, the portion of the place of use being changed should be mapped based on the developed location. If the transfer also included portions of the place of use that were not being modified, but were receiving a new or additional point of appropriation, the place of use for those lands should be mapped based on the original right of record at the time the transfer final order was issued.

Provide a general description of the survey method used to prepare the map. Examples of possible

methods include, but are obasis of the survey is an acidentification number.	•	**	· ·	

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Map Checklist

Please be sure that the map you submit includes ALL the items listed below. (Reminder: Incomplete maps and/or claims may be returned.)

Map on polyester film Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map) Township, Range, Section, Donation Land Claims, and Government Lots If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters Locations of fish screens and/or fish by-pass devices in relationship to point of diversion Locations of meters and/or measuring devices in relationship to point of diversion or appropriation Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.) Point(s) of diversion or appropriation (illustrated and coordinates) Tax lot boundaries and numbers Source illustrated if surface water Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines") Application and permit number or transfer number North arrow

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Legend

CWRE stamp and signature

Common Calculations

The Department typically uses the following calculations to determine system capacities; many of which are available to download from the Department's Web Site.

Pumps:

Efficiency factors:

NOTE: Pump efficiency factor for centrifugal pump (75%) = 6.61

Pump efficiency factor for turbine pump (80%) = 7.04

Centrifugal Pump, 75% eff. $(550 \text{ ft lb/sec/Hp})(.75) = 6.61 \text{ ft}^4/\text{sec/Hp}$ (62.4 lb/cu ft)

Turbine & Submersible Pumps, 80% eff. $(550 \text{ ft lb/sec/Hp})(.80) = 7.04 \text{ ft}^4/\text{sec/Hp}$ (62.4 lb/cu ft)

Total head is the sum of suction lift, pressure head, and discharge lift.

If the operating pressure is not measured, varying the assumed operational pressure in the above formulas until the calculated outputs are equal, or nearly so, will generally give the most correct theoretical capacity of the system.

Efficiencies have been assumed to be 75% for centrifugal pump installations and 80% for turbine or submersible pumps. See the list below of converted psi's to feet of head. These figures account for minor friction losses. If the system involves unusually long pipelines friction losses should be accounted for by using standard charts and formulas.

Refer to the conversion table below to compute PSI to head for pump pressure in feet.

[(psi/.433)(1.1) = head (in feet/psi) = 2.54 feet head/psi]

PSI	HEAD	PSI	HEAD
25	63.5	55	139.7
30	76.2	60	152.4
35	88.9	65	165.1
40	101.6	70	177.8
45	114.3	75	190.5
50	127.0	80	203.2

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ATTACHMENT A Well No. 4 (UNIO 2496) and Well No. 5 (UNIO 52551) Well Logs

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STATE OF OREGON ATER WELL REPORT

Unio 2496

UNIO 2496 SEP 1 2 1994 JN/38E/301

WATER WELL REPORT WATER RESOURCES L(START CARD) # 65113 (as required by ORS 537.765) SALEM, OREGON the last page of this form. Instructions for completing this report are (9) LOCATION OF WELL by legal description: (1) OWNER: ell Number City of Island City County Union Latitude Longitude 38 10202 S. McAlister Road E or WXWM. N orXXXRange Township Island City 97850 NW SW 1/4 State OR Zip 1/4 (2) TYPE OF WORK Lot Block Subdivision XXNew Well Deepening Alteration (repair/recondition) Abandonment Street Address of Well (or nearest address) Walton Road (3) DRILL METHOD: (10) STATIC WATER LEVEL: Rotary Mud Cable XXRotary Air Date 7/29/94 50' Other ft. below land surface. (4) PROPOSED USE: Date Artesian pressure lb. per square inch. (11) WATER BEARING ZONES: Irrigation Domestic **XX**Community Industrial Thermal Injection Livestock (5) BORE HOLE CONSTRUCTION: Depth at which water was first found Special Construction approval Yes No Depth of Completed Well 490 ft. Estimated Flow Rate SWL Explosives used Yes XXNo Type From Diameter Sacks or pounds 28" 8 SEE ATTACHED Granular 2400# Bentonite 28" 8 230Concrete 230 30 yards 8 19" 230 490 (12) WELL LOG: How was seal placed: Method Ground Elevation Colorado Other Material Silica sand Backfill placed from Material From To SWL ft. to 200 ft. to 460 ft. 6-9 Gravel placed from Size of gravel 5/16 gravel from 460-490 (6) CASING/LINER: Gauge Steel Welded 230.375XX SEE ATTACHED 20" Casing 205 460.365XX Liner: Final location of shoe(s) (7) PERFORATIONS/SCREENS: Heceived Method Perforations Type Houston X Screens Material S.S. Liner From Diameter OWRD SEE ATTACHED BACK PAGE 7-29-94 (8) WELL TESTS: Minimum testing time is 1 hour 6-13-94 Date started Completed (unbonded) Water Well Constructor Certification: Flowing I certify that the work I performed on the construction, alteration, or abandonment X Pump Bailer Air Artesian of this well is in compliance with Oregon water supply well construction standards. Drill stem at Time Yield gal/min Materials used and information reported above are true to the best of my knowledge 1000 108' 36hr+hand belief. 1500 120 5 hr. WWC Number 2000 1921 4 hr. Temperature of water Depth Artesian Flow Found (bonded) Water Well Constructor Certification: Was a water analysis done? X Yes By whom Coffey Labs, I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This people is true to the best of my knowledge and belief. Did any strata contain water not suitable for intended Rend I eto hitle OR Salty Muddy Odor Colored Other WWC Number 1500 Depth of strata:

UNIO 2496

BELEIN-J

SEP 1 2 1994

WATER RESUURCE -ECT. SALEM, OREGON

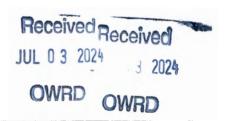
FINAL DESIGN

ISLAND CITY WELL NO. 4 July 12, 1994

Upper 20-inch Casing	<u>Length</u>
+ 2 ft. to 230 ft. Casing	232 ft.
Grout Seat	
8 ft. to 230 ft.	222 ft.
Upper 16-inch Casing (final position)	
+ 2 ft. to 220 ft. Casing	222 ft.
Lower 10-inch Casing and Screen	
205 ft. to 210 ft. Casing 210 ft. to 213 ft. Screen 213 ft. to 235 ft. Casing 235 ft. to 258 ft. Screen 258 ft. to 268 ft. Casing 268 ft. to 274 ft. Screen 274 ft. to 292 ft. Casing 292 ft. to 296 ft. Screen 296 ft. to 302 ft. Casing 302 ft. to 310 ft. Screen 310 ft. to 319 ft. Casing 319 ft. to 329 ft. Screen 329 ft. to 344 ft. Screen 344 ft. to 360 ft. Casing 360 ft. to 370 ft. Screen 370 ft. to 416 ft. Casing 416 ft. to 422 ft. Screen 422 ft. to 430 ft. Casing 430 ft. to 450 ft. Screen 450 ft. to 460 ft. Casing 460 ft. Bail Bottom	5 ft. 3 ft. 22 ft. 23 ft. 10 ft. 6 ft. 18 ft. 9 ft. 10 ft. 10 ft. 16 ft. 10 ft. 20 ft. 10 ft.
Summary 10-inch 50 Slot Screen 10-inch Casing	100 ft. 155 ft.

Filter Pack

200 ft. to 460 ft. 6-9 Colorado Silica Sand



RiverSide, Inc.

UNIO 2490

WATER SUPPLY IMPROVEMENTS - WELL NO. 4

DRILLER: TERRY DAUGHERTY

REVERSE ROTARY

WELL DRILLER'S REPORT

ISLAND CITY, OREGON

REPORTED BY:

DATE: 17, 94

TIME	DEPTH		FORMATION DESCRIPTION	DRILL STEEL	DRILLING	COMMENTS	
	FROM	то		FOOTAGE	CHARACTERISTICS (hard, soft, broken, caving, etc.)	(mud loss, sample locations, static water level, mud added, etc.)	
-17-94	0	10	3 soil				
1-	10	11	Top Soil				
	11	12	Brown Clay		soft		
	12	14	RIVER ROCK + SAUD		Rock 6"- 10"		
7	14	19	RIVER ROCK + SAUD		Rock L"- 10"		
	19	24	RIVER ROCK + SAND		Rock 6"-10"		
	24	30	RIVER ROCK + SAND		Rock 6" - 10"		
-18-9	30	34	RIVER ROCK + SAND		Rock 6" - 10"	Received	
-73	34	40	RIVER ROCK + SAND		Rock 6"- 10"	JUL 0 3 2024	
- B-14	40	44	River Rock + SAND		ROCK 6"- 8"		
330	44	50	RIVER BOK + SAND		1006 6"-8"	OWRD	
-20-94	50	54	RIVER ROCK + SAND FOR	face / Kak	Rock 6'-		
	54	95	11 1 Frantiered Ro	1.	11		
F (= 1)	55	60	Ring Rock or Strang. O	Genel,	1)		
	60	64	1) The	Alex or Rock			
1	64	45	RIVER ROCK + SAND	Braval	Broken Rock Swi	tcl to gear bit	
	69	68	smeller Rock or Soul				
	62	70	land.	F Comment			
	70	75	Brack Rock SAND				

River Side, Inc.

UNIO 2496

WATER SUPPLY IMPROVEMENTS - WELL NO. 4

DBILLER: TERRY DAUGHERTY

REVERSE ROTARY

WELL DRILLER'S REPORT
ISLAND CITY, OREGON

REPORTED BY:	1		_
DATE.			

TIME	DEPT	н	FORMATION DESCRIPTION	DRILL STEEL	DRILLING	COMMENTS
1	FROM	то		FOOTAGE	CHARACTERISTICS (hard, soft, broken, caving, etc.)	(mud loss, sample locations, static water level, mud added, etc.)
Pta	75	80	Broken Rock + SAND		Some 3" Rock	
	80	85	" " A		1	
en	85	90	" " "	Las for 600.		
6/21/94		94.	Broken ROCK SANC			
	94	96	Brown clay w fock		sost	
	96	100	Broker Rock sand		3" bet	0
	100	105	Broken Rock SAND		(
	105	107	Brown Clay + Rock		soft	
28/214	107	110	Brown Clay		80 54	artina.
	110	115	Brown clay		5-5+	(60.00)
	115	120	Broken Rock sand	100	3" Roas	
Thorn	126	125	to to the			
1 1369:31	125	130	u u i	375.		
(<u>1</u> ,264.26	150	132	Brow 0/44	So	3094	
	132	135	Broker Lock SARY	L. CRES	3º Rock	
34.	135	140	" 1 "	1 1 1 1 1 1 1 1 1	ger &	
	140	149	River Roll T SANd	5 Te in whi	ATHING AXET CAY	chang sit Drag
6-22-7	149	150	River Rock + SAUD	A Page Sale	3º Rock	change BACK (LOCK Bit)
	150	155	RIJER ROCK + 94~d		3"(THE RESERVE OF THE PARTY OF THE

Rive. Side, Inc.

WATER SUPPLY IMPROVEMENTS - WELL NO. 4

DRILLER: TERRY DAUGHERTY

REVERSE ROTARY

WELL DRILLER'S REPORT
ISLAND CITY, OREGON

REPORTED BY:		
DATE:		

TIME	DEPT	Н	FORMATION DESCRIPTION	RILL STEEL	DRILLING	COMMENTS
	FROM	то		FOOTAGE	CHARACTERISTICS (hard, soft, broken, caving, etc.)	(mud loss, sample locations, static water level, mud added, etc.)
MAN.	455	160	RIVER ROCK . SAND	Lange Contraction	Your	
100	THE RESERVE OF THE PARTY OF THE	163	RIVER ROCK CLAY		VALUE SHOW	
	163	165	River Rock SAND - CO	Mented)	3 Rock	
3.5	165	116	River Rock cemented SAN	d on Rock	(
	166	170	RIVER POCK CEMENTED SAUD	on Ack)	
V	170	172	River Rock w layer of	CIAN		
4511	172	176	River hock w committed some	of on book	(Received
7	176	178	liver have comented	4-01-65	HARES	22/14/03/25/25/25/25/25/25/25/25/25/25/25/25/25/
	178	180	RED LOCK (BrOWN SANG L	AYER		JUL 0 3 2024
41	150	185	Row lock we some can't	in lack		OWRD
1	185	189	Liver het w cementered	layer	(Brown color)	th calculationers of a fill-section in the
	199	190	River Rock "		To grafueday.	
	190	198	River look we stand Greek of	44	(copyrighted layer)	
MI.	198	200	Piver lock to compared lake	STATE OF THE PERSON NAMED IN	SFAY Clay	
- 11	200	205	River Rock waster &		(Emented Usen)	
	205	38	River Rock w wind solver Edward	AND DESCRIPTION OF THE PERSON NAMED IN		
712	210	215	RIVER ROCK LAYER of HATE			
	215	220	River lock Layer GIDY LO	yer call	LAMPIBER SAUD	
	120	225	RIVER ROCK Lyar sand clay	CEMOUT A	K SPEEN CLAY	TAKE MORE WATER

RiverSide, Inc.

UNÍO 2496

WATER SUPPLY IMPROVEMENTS - WELL NO. 4

DRILLER: TERRY DAUGHERTY

REVERSE ROTARY

WELL DRILLER'S REPORT
ISLAND CITY, OREGON
REPORTED BY:
DATE:

TIME	DEPTH		FORMATION DESCRIPTION	DRILL STEEL DRILLING FOOTAGE CHARACTERISTICS (hard, soft, broken, caving, etc.)		COMMENTS
	FROM	ТО	(mud loss, sample locations, static water level, mud added, etc.)			
	225	Die	Rock w sand elay			
CS W	226	230	ROCK W layer cements	d	A SAME TO	
	230	235	lock w sand alay			() () () () () ()
2	235	240	River lock + sand			
	241	243	River Rock + SAND	Survey of the survey of		
	243	256	LIVER LOCK + 3 NO	loged for	quis (70	71 N L (17 N 18 N
,-23-94	250	255	11 of 11			Received
3	255	260	RIVERIROCK W SAND			JUL 0 3 2024
W.	260	261	SAUD			OWRD
	261	265	RIVER ROCK W SAUD W	LAYER GRAY	CAY	200115
Pi-ni	265	270	The state of the s	The second secon	Gray clay ou Rock	On the second second
	270	275	RIVER ROCK W 114-500			
18.	275	250	a a sa		10 4 60	۷
11-5	280	282	v ₁ 14 1	vt	10 10,	
18		283	River Rock W STAY CI	soft		
	283	289	River ROCK W" SAND LAY	er cemental	lock waren clay	+ Gray day
-01	289	290	Gray Clay w Rock	soft		
100-4	290	THE RESERVE	11 " w lock			
1724		293	ROCK + SAND		321	

Rive Side, Inc.

UNIO 2496

WATER SUPPLY IMPROVEMENTS - WELL NO. 4

DRILLER: TERRY DAUGHERTY

REVERSE ROTARY

WELL DRILLER'S REPORT
ISLAND CITY, OREGON
REPORTED BY:

DATE:

TIME	DEPT	'H	FORMATION DESCRIPTION	DRILL STEEL	DRILLING	COMMENTS
	FROM	то		FOOTAGE	CHARACTERISTICS (hard, soft, broken, caving, etc.)	(mud loss, sample locations, static water level, mud added, etc.)
	293	296	RIVER ROCK W SAND		33	
400	296	300	GRAY CLAY	soft	, 7	
	300	305	River Rock W HITE BIT	4.0	511'	11111111
	505	310	River Rock w 54ND) "	
3 1	310	311	h it il 1			
3	311	315	SAND CLAY W SAUD	Gray layer or	mq 31/	
0	315	320	River ROOK U SAND	-1	(151	
	320	325	u u u u	100	511	
W. S.	325	330	CORSE SAND			
	330	333	gray clay	soft		
	333	338	Rock w SAND		} 5'	
	338	340	ROCK W CEMENTED .	green day	+ SAND HARD	(in promotive of
- 13	340	344	11 1 1	1 1 10	1' HARD 344	Received
200	344	346	u 1 4 u	is it h	n	JUL 0 3 2024
1	346	347	corse sand	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		OWRD
	347	349	ROCK W CEMENTED W	5 gard	1444	
	349	350	Rock w sava 14		44	
	350	355	fact w cross com	euted itams		
3 540	833	355	lock comented Gr	een	MARA	

Rive Side, Inc.

UNIO 2496

WATER SUPPLY IMPROVEMENTS - WELL NO. 4

DRILLER: TERRY DAUGHERTY

REVERSE ROTARY

WELL DRILLER'S REPORT

ISLAND CITY, OREGON

REPORTED BY:____

DATE:

TIME	DEPT	ТН	FORMATION DESCRIPTION	DRILL STEEL	DRILLING	COMMENTS
	FROM	то		FOOTAGE	CHARACTERISTICS - (hard, soft, broken, caving, etc.)	(mud loss, sample locations, static water level, mud added, etc.)
	355	360	Rive Rock W green Harr	Clay SOME	Consulad	
2	360	365	Pivélock w SAND	, ,		
	365	366		\	>10'	
12/5	366	368	corse sava	.6		
	367	370	ROCK W SAUD.	ļ		
	370	376	ROCK & SAND 1 Ayer 3	15 CEMented Ro	xx green Lossal	for EUB-
	375	378	1(
y	378	390	ROCK W Clay + W SAND A	FEND		
5-24-9	381	383	Medin Sand.			4'
	383	385	Sand & Shapl	art I		•
	385	387		whenh of	Show Shale	>
	387	388	Commenter Saf & Shard.	1		9
	388	390	Share & Sail with &	den elel	La',	Ross
	390	395	RIVE ROCK W SAND		106	Received
	395	396	n n			JUL 0 3 2024
11-	396	397	GRAY CLAY			OWRD
	397	399	RIVER ROOK W SAND		3 2'	
	399	400	River Rock W CEMPUTE	d SAND		
-	400	400	River Rock GAND		5/1	

River Side, Inc.

UNIO 2496

WATER SUPPLY IMPROVEMENTS - WELL NO. 4

DRILLER: TERRY DAUGHERTY

REVERSE ROTARY

WELL DRILLER'S REPORT

ISLAND CITY, OREGON

REPORTED BY:	12325
DATE.	

TIME	DEPT	Н	FORMATION DESCRIPTION	DRILL STEEL	DRILLING	COMMENTS
	FROM	то		FOOTAGE	CHARACTERISTICS (hard, soft, broken, caving, etc.)	(mud loss, sample locations, static water level, mud added, etc.)
C-3/8	401	402	Gray clay	1		
0.3	402	406	River ROOK W SAHD	>4'	Marie Carlo	
- 10	406	407	Richer ROCK & Gray	lav		
	407	410	GRAY CLAY	1		
1		415	Gray clay w sand			
1.53/	415	409	CORSÉ SAND			
	THE RESERVE OF THE PARTY OF THE	420	RIVER ROCK SAND	71	UPAR SIL	
	420	421	14 13 11			
	421	422	cores sand			
	422	423	Bray Clay w little	Lock		V. E. S.
111	423	427	STAY CLAY			
	427	130	layer clay + sand			
0	430	435	ROCK + SAND			La Charles Carlotte
	435		n n		2	Received
		445	ti ic	- 10	1-0-1-1-1	
1	100000000000000000000000000000000000000	450	4			JUL 0 3 2024
3 14			River Lock w Green C	VAN OFMENT	d HArd	OWRD
1		457	fe 11 31 30	10		CATTORN OF THE STATE OF THE STA
	-	458	River ROOK W CLAY		MODERN IN	

RiverSide, Inc.

UNIO 2496

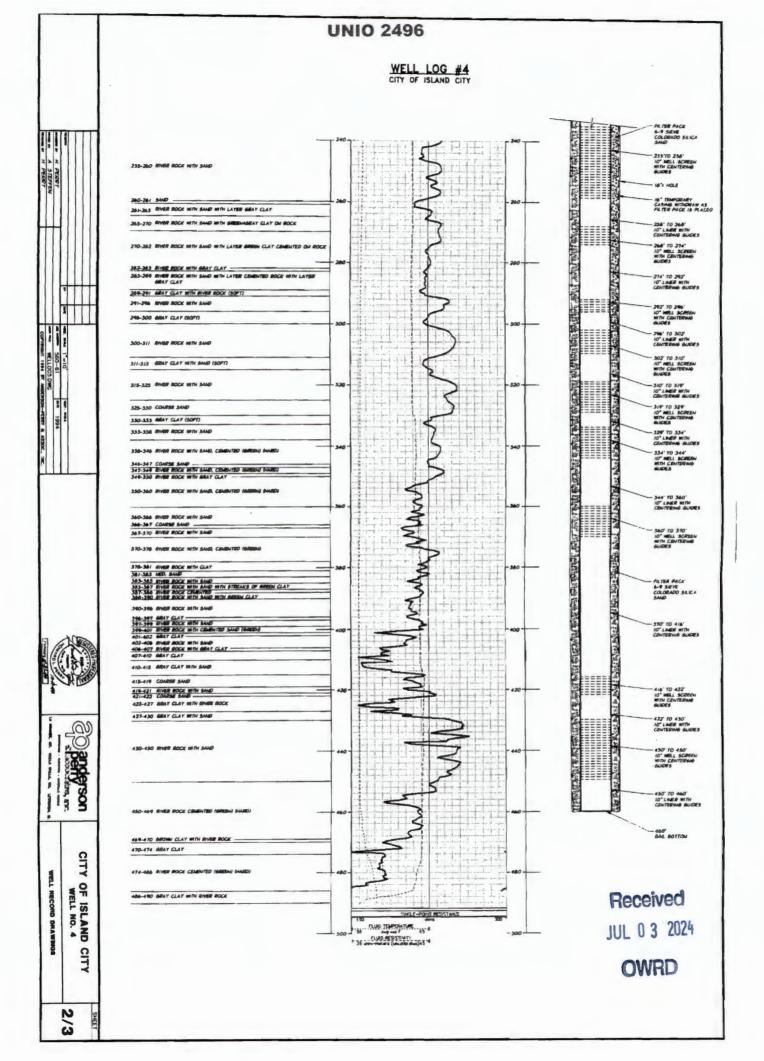
WATER SUPPLY IMPROVEMENTS - WELL NO. 4

DRILLER: TERRY DAUGHERTY

REVERSE ROTARY

WELL DRILLER'S REPORT
ISLAND CITY, OREGON
REPORTED BY:
DATE:

TIME	DEPT	Н	FOR	MATION DE	SCRIPTION	DRILL ST	EEL	DRILLING	COMMENTS
	FROM	то		V		FOOTA	GE	CHARACTERISTICS (hard, soft, broken, caving, etc.)	(mud loss, sample locations, static water level, mud added, etc.)
11.1	458	460	RIVER	Rock 4	s comented	green	chy	HARO	
	460	465	W	11	- U	11	- (1	` ?'	
	465	469	11	11:	K	f.	u	1	
234	469	470	Brown	UN CI	Ay we	ok_			
1	470	474	GrA	CAY	100	100	-		
PH	474	480	River	Rock "	1 CEMENTA	green	CAY	Hall	
	480	485	14	u	Ti.	1-	1.	C)	
	485	486	11	11	K	4	11	1)	
	486	190	Gray	clay u	Rock			0	
			1	(•		
Bos		J. C.							
200							ST		
	1717	- (1)			Laufe (STA)				Do
	1				13.00				Received
16.50	33-	261.19	LALIE CO.			100			JUL 0 3 2024
1	West	6-1					tol.		OWRD
100				17321	No. of Contract	W 10 10			4
	90		Sales :						
Take 1	2		100				77,17	U.S. S. L.	



OWRD



Unio 52551

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210)

				OCI	110		-
ALC: N	т	B	A EDECK	41 B	112026		

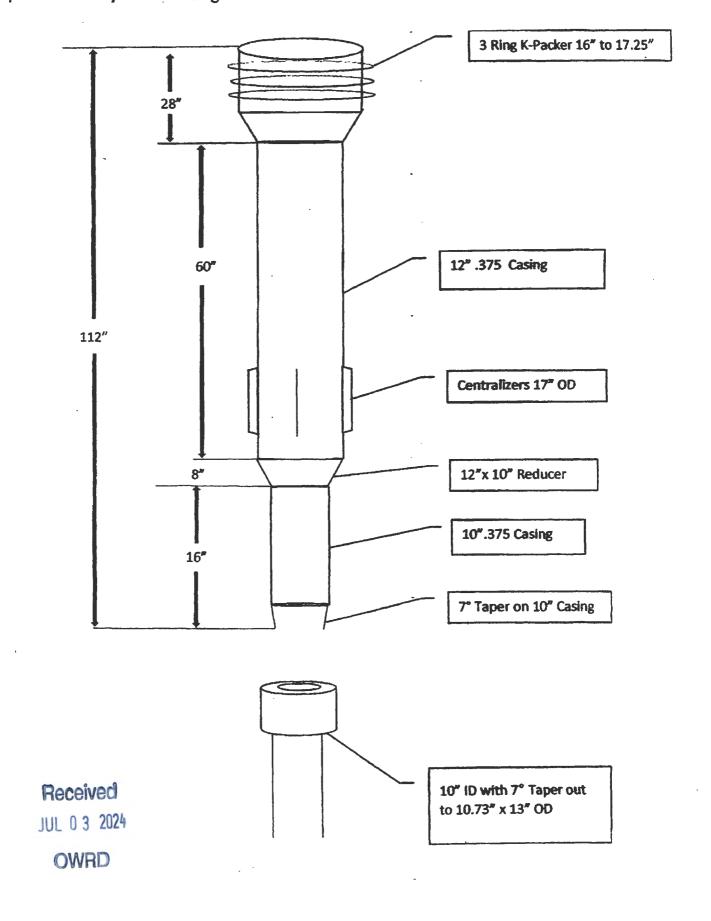
	START CARD # 1027054	
(1) LAND OWNER Owner Well I.D. 5	(9) LOCATION OF WELL (legal descript	rion)
First Name Last Name		ige38 E E/W Wh
Company City of Island City		ax Lot 1501
Address 10605 Island Avenue	Tax Map Number	
City Island City State OR Zip 97850	Lat " or 45.32832487	DMS or DD
	Long ° " or -118.044758	DMS or DD
(2) TYPE OF WORK New Well Deepening Conversion	Street address of well • Nearest addr	
Alteration (repair/recondition) Abandonment		
(3) DRILL METHOD Rotary Air Rotary Mud Cable Auger Cable Mud	(10) STATIC WATER LEVEL Date SWL	
Reverse Rotary Other		(psi) + SWL(ft)
(4) PROPOSED USE Domestic Irrigation Community	Existing Well / Predeepening Completed Well 03-16-2016	40
Industrial/Commericial Livestock Dewatering		Hole?
Therma! Injection Other		
(5) BORE HOLE CONSTRUCTION Special Standard Attach copy)		
Depth of Completed Well 515 ft.	SWL Date From To Est Flow S 07-24-2015 40 292 1.500	WL(DSI) SWL(III)
BORE HOLE SEAL sacks/	07-24-2015 297 320 1,500	40
Dia From To Material From To Amt lbs	07-28-2015 329 387 1,500	40
24 0 245 Bentonite Chips 0 7 2,500 P	07-29-2015 402 420 1,500	40
16 245 520 Cement 7 245 250,86 P	07-29-2015 422 439 1,500	40
Calculated 7 245 48450	(11) WELL LOG Ground Elevation	
How was seal placed Method A B C D E		From To
Other Trimie pipe/cement	Top soil	0 7
Backfill placed from ft to ft. Material	Brown sand, cobbles	7 40
Filter pack from 235 fr. to 520 ft. Material Sand Size 6/9	Brown sand, cobbles brown clay mix	40 45 45 65
Explosives used: Yes Type Amount	Medium to large cobbles Brown sand, cobbles	65 105
	Large cobbles	105 162
(6) CASING/LINER Casing Liner Dia + From To Gauge Stl Plstc Wid Thrd	Large cobbles, brown clay mix	162 165
(•) (18 × 2 245 .375 (•) (×)	Large cobbles	received 210
○ 10 225 230 .365 ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		
0 10 233 250 .365	Cobbles, brown clay mix	1 220 3 2024 ²⁴⁵ 2024 ²⁷³
● 10 260 265 .365 ● □	Large cobbles Large cobbles with smaller gravel	273 292
● 10 <u>275</u> 282 .365 ● X	Tan clay	OWRD 297
Shoe Inside Outside Other Location of shoe(s)	Fine to coarse sand	
Temp casing Yes Dia From To	Tan clay some gravel	300 308
(7) PERFORATIONS/SCREENS	Cobbles Brown clay	308 320 320 323
l'erforations Method	Brown clay some gravel	323 329
Screens Type Wire Wrap Material Stainless	Gravel, cobbles	329 331
Perfi Casing/Screen Scrn/slot Slot # of Tele/	Date Started 07-09-2015 Completed	12-16-2016
Screen Liner Dia From To width length slots inpe size)3-10-2010
Screen Casing 10 230 233 08	(unbonded) water vell constructor Certification	CED DV OWDD
Screen Casing 10 250 260 .08 Screen Casing 10 265 275 .08	I certify that the work I performed on the	independent (
Screen Casing 10 265 275 .08 \\ Screen Casing 10 282 287 .08	abandonment of this well is in compliance with construction standard Macritus used and informatio	on reported above are true t
Screen Casing 10 308 318 .08		R 2 1 2016
(8) WELL TESTS: Minimum testing time is 1 hour	License Number Date	11 2 2 2 2 3
Pump Bailer Air Flowing Artesian	Password : (if filing electronically)	
Yield gal min Drawdown Drill stem/Pump depth Duration (hr)	Signed S	ALEM, OR
1,500 123 220 24	(bunded) Water Well Constructor Certification	
	l accept responsibility for the construction, deepening	alteration or abandoning
	work performed on this well during the construction dat	
Temperature 55 °F Lab analysis Yes By	performed during this time is in compliance with	Oregon water supply w
Water quality concerns? Yes (describe below)	construction standards. This report is true to the best of	
From To Description Amount Units	License Number 1505 Date 04-15	-2016
	Password : (if tiling electronically)	
	Signed Contact (MacAntional)	
	Contact Info (optional)	

START CARD # 1027054

(5) BOR	Е НО	LE CO	NSTI	RUCTIO	N				(10) STATIC WATER LEVEL	
	E HOL					AL		sacks/	Water Bearing Zones	
Dia F	rom	То	1	Material	Fro	m T	o Am	t lbs		
							-			+ SWL(ft)
					_		-	-	07-31-2015 443 520 1,500	40
						-				-
										+
										+
FI	LTER	PACK								
Fron			1aterial	Sia	ze					
(C) C) C	NO.	INVEN							(11) WELL LOG	
(6) CASi	ING/L	INEK							Material From	То
Casing 1	Liner	Dia	+	From T	o Gauge	Stl P	Iste Wie	Thrd	Coarse sand, brown clay 331	335
		10		287 30	08 .365	-			Fine sand 335	338
	$\forall \vdash$	10			41 .365	Ö	\forall		Brown clay, gravel 338	340
<u> </u>	$\forall \vdash$	10			60 .365	18	\bowtie		Cobbles, sand 340	343
	$\forall \vdash$	10			05 .365	0	\forall		Large cobbles, with gravel 343	363
	MI	10			31 .365		$\forall \ \Diamond$		Large cobbles 363 Brown clay 387	387 395
<u> </u>	AL	10			58 .365				Blue clay 395	402
		10		160 4	87 .365		H K		Coarse sand, small gravel 402	403
()		10		192 4	98 .365	0			Small to medium gravel 403	413
()		10		503 5	15 .365	0			Small to medium gravel, cobbles 413	420
	- Desire							-	Brown clay 420	422
									Blue clay, some gravel 422	431
									Sand, gravel with some blue clay 431	433
									Medium gravel, some cobbles 433	439
(7) PER	FORA	TION	S/SCI	REENS					Brown clay, blue clay 439 Blue clay with some gravel 443	443
	ing/ Scr	een			Sern/slot	Slot	# of	Tele/	Blue clay with some gravel 443 Small gravel 451	453
Screen Line			From	То	width	length	slots	pipe size	Fine to coarse sand, small gravel 453	463
Screen Casi		10	341	346	.08		-	-	Small to medium gravel 463	467
Screen Casi	-	10	360 405	415	.08		-	-	Blue clay with gravel 467	483
Screen Casi	-	10	431	436	.08		+		Small to medium gravel 483	505
Screen Casi	-	10	458	460	.08				Blue clay, gravel mix 505	520
Screen Casi	0	10	487	492	.08		1			
Screen Casi	ng	10	498	503	.08					
										-
										
(8) WEL	L TE	STS: N	Ainim	um testi	ing time	is I hon	r			
					_					
Yield gal	min	Drawe	iown	Drill st	em/Pump d	epth	Duration	(hr)	Comments/Remarks	
		-								
		-								
		+				-		-		
				_						
									Received	
	Quali	ty Cond	erns						. ICCEIVEO	
From	T	0		Descrip	tion	Am	ount U	nits	NOTE K-Packer at 225' see attachment JUL 0 3 2024	
									552 0 3 2024	
									010-	
									OWRD	
		-								

UNIO 52551

City Of Island City Packer Design



ATTACHMENT B Well No. 4 Pump Calculations

JUL 0 3 2024 OWRD

Pump Capacity Calculation Sheet - Well No. 4

using Department designed formula:

(hp)(efficiency) / (lift + psi head) = capacity in cfs

Efficiency:

Centrifugal = 6.61 Turbine = 7.04

Data Entry (fill in underlined blanks)

Results Calculated

(hp)(efficiency) = 396.6 Head based on psi = 66.1 Head based on psi = 66.1 Total dynamic head = 171.7 (head + lift)

Pump Capacity = 2.31 feet per second

ATTACHMENT C Well No. 5 Pump Calculations

Received
JUL 0 3 2024
OWRD

Pump Capacity Calculation Sheet - Well No. 5

using Department designed formula:

(hp)(efficiency) / (lift + psi head) = capacity in cfs

Efficiency:

Centrifugal = 6.61 Turbine = 7.04

Data Entry (fill in underlined blanks)

$$\begin{array}{ccc} \text{HP} = & 75 \\ \text{Efficiency} = & 6.61 \\ \text{Lift} = & 119.4 \\ \text{PSI} = & 33 \end{array}$$

Results Calculated

(hp)(efficiency) = 495.75 Head based on psi = 83.8 Total dynamic head = 203.2 (head + lift)

Pump Capacity = 2.44 feet per second

ATTACHMENT D Well No. 5 Flowmeter Readout

Received
JUL 0 3 2024
OWRD

JUL 0 3 2024
OWRD





1901 N. Fir Street, P.O. Box 1107 La Grande, OR 97850 (541) 963-8309 www.andersonperry.com

Engineering

Surveying

Matural Resources

Cultural Resources

GIS

LETTER OF TRANSMITTAL

TO: Oregon Water Resources Department

nt DATE:

July 1, 2024

ATTN:

Certificate Section

JOB NO.: 562-10

725 Summer Street N.E., Suite A

RE:

City of Island City, Oregon

Salem, Oregon 97301

Transfer T-11760 Claim of Beneficial Use

WE ARE SENDING YOU:

COPIES	D	ESCRIPTION				
1	C	ompleted Claim of B	eneficial	Use (COBU) Report and Map for T	ransfer T-11760	
1	A	ttachments A through	gh D			
1	C	neck No. 34014 for \$	230 - App	plication Fee		
THESE A	RE	TRANSMITTED AS CI	HECKED:	For review and comment		
THESE A	RE T	and the second s	HECKED:	For review and comment For your files		
THESE A		As requested	HECKED:			

To Whom it May Concern:

Enclosed is the original signed COBU Report and Map for Transfer T-11760. We have also enclosed payment for the application fee as well as the supporting documentation detailed above.

Thank you for your time. Please call me if there are any questions.

Received

JUL 0 3 2024

OWRD

BAM/jg

cc: Karen Howton, City of Island City (w/o encl.)

File No. 562-10-02 (w/encl.)

Signed

Brandon A. Mahon, P.E.,

C.W.R.E

G-\Clients\island City\General Consultation\S62-10 Consultation\Correspondence\OWRD COBU LOT 070124.docx

La Grande, OR Walla Walla, WA Redmond, OR Hermiston, OR Enterprise, OR