

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant Information

NAME PORT OF MORROW		PHONE (HM)	
PHONE (WK) 541-481-7678	CELL 541-571-1672	FAX 541-481-2679	
ADDRESS P.O. BOX 200, #2 MARINE DRIVE			
CITY BOARDMAN	STATE OR	ZIP 97818	E-MAIL* RONM@PORTOFMORROW.COM

Organization Information

NAME SAME AS ABOVE		PHONE	FAX
ADDRESS			CELL
CITY	STATE	ZIP	E-MAIL*

Agent Information – The agent is authorized to represent the applicant in all matters relating to this application.

AGENT / BUSINESS NAME RONALD V. MCKINNIS, PORT OF MORROW ENGINEER		PHONE	FAX
ADDRESS ALL SAME AS ABOVE			CELL
CITY	STATE	ZIP	E-MAIL*

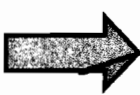
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Note: Attach multiple copies as needed

* By providing an e-mail address, consent is given to receive all correspondence from the department electronically. (paper copies of the final order documents will also be mailed.) SALEM, OR

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application.
- I cannot use water legally until the Water Resources Department issues a permit.
- Oregon law requires that a permit be issued before beginning construction of any proposed well, unless the use is exempt. Acceptance of this application does not guarantee a permit will be issued.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be cancelled.
- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.



I (we) affirm that the information contained in this application is true and accurate.

[Handwritten Signature]
Applicant Signature

Ronald V. McKinnis
Print Name and title if applicable
PORT ENGINEER
Print Name and title if applicable

05/23/13
Date

For Department Use		
App. No. <u>G-17670</u>	Permit No. _____	Date _____

SECTION 2: PROPERTY OWNERSHIP

Yes

- There are no encumbrances.
- This land is encumbered by easements, rights of way, roads or other encumbrances.

No

- I have a recorded easement or written authorization permitting access.
- I do not currently have written authorization or easement permitting access.
- Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).
- Water is to be diverted, conveyed, and/or used only on federal lands.

List the names and mailing addresses of all affected landowners (*attach additional sheets if necessary*).

SECTION 3: WELL DEVELOPMENT

WELL NO.	NAME OF NEAREST SURFACE WATER	IF LESS THAN 1 MILE:	
		DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
PORT WELL #5A	COLUMBIA RIVER	100 FT.	15.0 Ft
PORT WELL #5B	COLUMBIA RIVER	1600 Ft.	15.0 Ft

Please provide any information for your existing or proposed well(s) that you believe may be helpful in evaluating your application. For existing wells, describe any previous alteration(s) or repair(s) not documented in the attached well log or other materials (*attach additional sheets if necessary*).

Proposed Wells #5A & #5B (Wells #5) would look like the Construction as described below Table of Section 3

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SECTION 3: WELL DEVELOPMENT, CONTINUED

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Source (aquifer), if known: Basalt

Total maximum rate requested: 4.95 CFS (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

Complete the table below. If this is an existing well, the following information may be found on the applicable well log. (If a well log is available, please submit it *in addition to completing the table.*) If this is a proposed well, or well-modification, consider consulting with a licensed well driller, geologist, or certified water right examiner.

OWNER'S WELL NAME OR NO.	PROPOSED	EXISTING	WELL ID (WELL TAG) NO.* OR WELL LOG ID**	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN FEET)	PERFORATED OR SCREENED INTERVALS (IN FEET)	SEAL INTERVALS (IN FEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	PROPOSED USE			
										SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL-SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE-FEET)
Port Well 5A	X	<input type="checkbox"/>	N/A	<input type="checkbox"/>	24"-12"	0-900	N/A	0-900	N/A	BASALT	TBD	Up to 4.95 CFS	Up to 3584
Port Well 5B	X	<input type="checkbox"/>	N/A	<input type="checkbox"/>	24"-12"	0-900	N/A	0-900	N/A	BASALT	TBD	Up to 4.95 CFS	Up to 3584
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									

TBD - To Be Determined - through Drilling
 * Licensed drillers are required to attach a Department-supplied Well Tag, with a unique Well ID or Well Tag Number to all new or newly altered wells. Landowners can request a Well ID for existing wells that do not have one. The Well ID is intended to serve as a unique identification number for each well.
 ** A well log ID (e.g. MARI 1234) is assigned by the Department to each log in the agency's well log database. A separate well log is required for each subsequent alteration of the well.
 *** Source aquifer examples: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

Proposed Wells No. 5 will be open only to the Frenchman Springs Member of the Wanapum Basalt, Columbia River Basalt Group.

Wells No. 5 shall be cased and continuously sealed with cement grout from the ground surface to approximately 900 feet below ground surface to isolate Well No. 5 from the Basalt of Sentinel Gap (Frenchman Springs Member, Wanapum Basalt) water-bearing zones that are open within MORR 1526 (POM Well No. 4).

During the construction of the proposed Wells No. 5 drill-cuttings shall be collected every 10 feet, or significant change in lithology. A reference set of cleaned drill-cuttings for Well No. 5 (in plastic trays) will be submitted to OWRD. Selected basalt drill-cuttings from Well No. 5 be geochemically analyzed and the well's CRBG stratigraphy will be interpreted and documented by an Oregon RG.

A copy of all hydrogeologic, geochemical, down-video logs, and aquifer testing data collected from Wells No. 5 will be provided to OWRD.

SECTION 4: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
MUNICIPAL	YEAR ROUND	Total of Wells 5A & 5B -3584

Exempt Uses: Please note that 15,000 gallons per day for single or group **domestic** purposes and 5,000 gallons per day for a single **industrial or commercial** purpose are exempt from permitting requirements.

For irrigation use only:

Please indicate the number of primary and supplemental acres to be irrigated (*must match map*).

Primary: N/A Acres Supplemental: N/A Acres

List the Permit or Certificate number of the underlying primary water right(s): _____

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: _____

- If the use is **municipal or quasi-municipal**, attach **Form M**
 - If the use is **domestic**, indicate the number of households: _____
- If the use is **mining**, describe what is being mined and the method(s) of extraction: _____

SECTION 5: WATER MANAGEMENT

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A. Diversion and Conveyance

What equipment will you use to pump water from your well(s)?

Pump (give horsepower and type): 250-300 HP - Turbine Pump

Other means (describe): _____

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water. Deep Well pumping to an adjacent existing pumping station

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler)
Existing Municipal distribution System - 30" to 12" pipeline system

C. Conservation

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent damage to aquatic life and riparian habitat; prevent

the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters.

Existing Submitted and Dept. Approved Water Management & Conservation Plan

SECTION 6: STORAGE OF GROUND WATER IN A RESERVOIR

If you would like to store ground water in a reservoir, complete this section (*if more than one reservoir, reproduce this section for each reservoir*).

Reservoir name: N/A Acreage inundated by reservoir: N/A

Use(s): _____

Volume of Reservoir (acre-feet): _____ Dam height (feet, if excavated, write "zero"): _____

Note: If the dam height is greater than or equal to 10.0' above land surface AND the reservoir will store 9.2 acre feet or more, engineered plans and specifications must be approved prior to storage of water.

SECTION 7: USE OF STORED GROUND WATER FROM THE RESERVOIR

If you would like to use stored ground water from the reservoir, complete this section (*if more than one reservoir, reproduce this section for each reservoir*).

Annual volume (acre-feet): _____

USE OF STORED GROUND WATER	PERIOD OF USE
N/A	

SECTION 8: PROJECT SCHEDULE

Date construction will begin: 12-01-2015

Date construction will be completed: 06-01-2016

Date beneficial water use will begin: 10-01-2016

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SECTION 9: WITHIN A DISTRICT

Check here if the point of diversion or place of use are located within or served by an irrigation or other water district.

Irrigation District Name West Extension Irrigation District	Address 840 East Hwy #730	
City Irrigon	State Oregon	Zip 97844

SECTION 10: REMARKS

Use this space to clarify any information you have provided in the application (*attach additional sheets if necessary*).

Only Part of the Port's Service area is within the Irrigation District Boundaries

Land Use

Information Form



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form must be completed by a local government planning official in the jurisdiction(s) where your water right will be used and developed. The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you. Please be aware that your application will not be approved without land use approval.

This form is NOT required if:

- 1) Water is to be diverted, conveyed, and/or used only on federal lands; **OR**
- 2) The application is for a water right transfer, allocation of conserved water, exchange, permit amendment, or ground water registration modification, and **all** of the following apply:
 - a) The existing and proposed water use is located entirely within lands zoned for exclusive farm-use or within an irrigation district;
 - b) The application involves a change in place of use only;
 - c) The change does not involve the placement or modification of structures, including but not limited to water diversion, impoundment, distribution facilities, water wells and well houses; and
 - d) The application involves irrigation water uses only.

NOTE TO LOCAL GOVERNMENTS

The person presenting the attached Land Use Information Form is applying for or modifying a water right. The Water Resources Department (WRD) requires its applicants to obtain land-use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan. Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land-use form and return it to the WRD. If no land-use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan. Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0801.

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Oregon Water Resources Department

FORM M

FOR MUNICIPAL AND QUASI MUNICIPAL WATER SUPPLIES

Unless otherwise noted, water use information should be in acre-feet per year (AFY).

1 acre-foot is equal to 325,851 gallons.

Background Information

Name of water supplier: PORT OF MORROW

Name and size of area to be served: PORT OF MORROW SERVICE AREA - (Map Attached)
(in square miles)

Present population of service area: MUNICIPAL/INDUSTRIAL SERVICE AREA - Population N/A
(Contact county planning staff, if needed.)

Projected population in 20 years: Based on Water Use Records Last 5 Years

(Cite source and year. For example: "20,595 Based upon 1995 Portland State University projections.")

List present water rights and permits held:

Date of Issuance:	Natural Source of Water:	Amount Permitted:	Utilization:
<u>SEE ATTACHED</u>	<u>FROM PORT WATER</u>	<u>MANAGEMENT &</u>	<u>CONS. PLAN</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Water Use

Average **yearly** demand: 8311 AFY Year: 2012

Per-capita daily consumption (in gallons): Supply is to Industrial customers - Per Capita does not apply
(Divide average annual water sales by population to arrive at consumption, then divide by 365 to get daily values.)

Peak season (by month/day): 07-15 to 10-15 **Total peak season** demand: 2210 Acre-feet

Peak season per-capita daily consumption: N/A **Peak Based on 2012 Water Use**
(Divide total peak season demand by population and the number of days during the peak.)

Annual amount of water:

Produced: 8311 AFY + *
(diverted or pumped)

Delivered: 8311 AFY *Some minor Irrigation uses are not metered

Is your system fully metered? Yes No

Describe your rate structure: Fixed Rate/1000 gallons delivered (metered)

(e.g. flat rate, increasing or decreasing block rate or combination of different systems)

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Request for Water

A. Discuss the reason(s) for your request for additional water

(e.g. loss of current supply, peak demand, growth, or other):

Growth, Diversity, & ability to meet DOD Standards from alluvial sources. Our Billed/Metered water use within the Port's service area have increased 38% over the last 6 years (2006-2012). Based on an average growth of about 5%/yr - our use would double from today's delivery volumes over the next 20 years.

B. How long is the amount of water requested in this application expected to meet future needs?

(e.g. until the year 2040) 2035

C. Briefly discuss operation of water system and the most constraining component of the system:

A greater share of our water use is occurring in our East Beach Industrial Park. We have been trying to develop a potable water source in that area but have had lots of challenges with high nitrate water from an alluvial source. Having one more basalt aquifer source in that area will make both sources more usable.

D. Percentage of water use by type:

Residential: 0%

Commercial: 5%

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Public Authority: _____

Agricultural: 5%

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Unaccounted for use: 2% - Minor Irrigation

Industrial: 88%

Other (specify use): _____

SALEM, OR

E. List cost to implement proposed request.

Compare cost and benefits with other water supply, or combination of supply options. This should include water efficiency measures such as replacing current showerheads with low-flow types. (Attach documentation, as available.)

Additional Basalt well with Pumping System to deliver to our existing contact storage and distribution pump station.
Estimated Capital Costs - \$500,000 +/-

F. How and by how much will your proposed water use efficiency programs increase efficiency?

(Express as a percentage of per-capita consumption.)

Efficiency will be increased by utilization of an existing Pumping Station and a water source that is much closer to the new users. Blending of water sources will allow more water use that meets ODH potable standards from our alluvial sources under transfer at this time.

Table 9a: Projected Water Supply Requirements for Three Industrial Parks (Revised 08/10/09)

BOARDMAN INDUSTRIAL PARK

Use*	Permit (Application)	Certificate/ (Transfers)	Priority date	Source	Well Name	Well Location	Permitted Rate (cfs)	Max Rate Used (cfs)	Rate Unused (cfs)	Greenlight Water Requested (cfs)	Remarks
MU	G-5332 (G6549)	(47191-CN) (T-6965 (CF))	5/31/74	Col. R. Basin	Port 3	NENW, 10/4N/25E; N 87 DEG 23 MIN 5 SEC W 339.47 FT FROM SE COR LOT 3, BLOCK 1	2	2	0		IM>MU with transfer
IM	G-7158 (G7698)	68545	2/4/77	Col. R. Basin	Port 1	(Well 1): SWNE, 10/4N/25E; 130°N & 2650'E FROM W 1/4, SEC 10	3	3	0		
MU	G-8263 (G-6327)	(58866-CN) (T-6976 (CF))	6/19/78	Col. R. Basin	Port 2	NWNW, 10/4N/25E; 110°S & 1270'E FROM NW 1/4, SEC 10	1.11	1.11	0		IM>MU with transfer
IM	G-10975 (G-11992)		12/4/89	Col. R. Basin	Port 4	(Well 4): NENE, 10/4N/25E; 122°S & 1200'W FROM NE 1/4, SEC 10	4.46	4.46	0		CBU rec'd 1995
IM + IR/IS	G-12729 (G-13264)	(T-9601(PA))	1/22/93	Col. R. Basin	Port 5 Port 6 Port 7	Well 4A: NENW, 1/4N/25E; 150°S & 2550'E FROM NW 1/4, SEC 1 Well 5A: NENW, 1/4N/25E; 60°S & 1380'E FROM NW 1/4, SEC 1 Port Well 6: SWNE, 10/4N/25E; 120°N & 2400'W FROM E 1/4, SEC 10 Port Well 7: SWNE, 10/4N/25E; 50°N & 2060'W FROM E 1/4, SEC 10	5.57	0	5.57		C-date 2008 Oct 1 to April 15 (all 4 wells) This seasonal right can be paired with the 1.79 cfs below to provide a continuous 1.79 cfs
MU + IR	S-35694 (S-48821)	(76360 RR-CN) (T-9601(CF))	11/5/71	Col. R. Basin	Mining Pond Toadvin Pond	Mining Pond Well: SESE, 35/5N/25E; 110°N & 180'W FROM SE 1/4, SEC 35 Toadvin Pond Well: NWNW, 10/4N/25E; 119°S & 1340'W FROM NE 1/4, SEC 10	1.79	1.79	0		SW>GW with transfer; Mar 1 to Oct 31; C-date 2010 for T-9601 SW>GW with transfer; *up to 51.74 cfs for IR of 2586.2 acres
MU	G-8619 (G-9263)	(51782-CN) (T-6966(CF))	6/4/79	Col. R. Basin	Sump #1 Sump #2	SENE, 10/4N/25E; 130°N & 440'W FROM E 1/4, SEC 10 SENE, 10/4N/25E; 125°N & 100'W FROM E 1/4, SEC 10	2.26	2.26	0		IR>IM with transfer; Sumps #1 and #2 also used under T-9599 for irrigation //pending X-fer T-8717 to add POA Port Sump Well #4 @ NENE, 10/4N/25E; 122°S & 1200'W FROM NE 1/4, SEC 10
Boardman Industrial Park New Supply (based on Table 9 flow projections):										17.2	

AIRPORT INDUSTRIAL PARK

MU + IR	G-13765 (G-14397)		10/23/96	Col. R. Basin	Airport 1 Airport 2	Well 1 :NWSW, 22/4N/24E; 2580°N & 60°E FROM SW 1/4, SEC 22 Well 2 :NESW, 21/4N/24E; 2085°N & 2650°W FROM SE 1/4, SEC 21	1.2 (MU) (USE UP TO 3.76 cfs FOR IR)	0.74	0.46		Pending Extension
Airport Industrial Park New Supply (based on Table 9 flow projections):										3.3	

SOUTH MORROW INDUSTRIAL PARK

IM	G-4626 (G-4909)	38590	6/18/69	Willow Ck Basin	Heppner 1 Heppner 2	Well 1 :SESE, 21/2S/26E; 380°N & 1300'W FROM SE 1/4, SEC 21 Well 2 :SWSE, 21/2S/26E; 840°N & 1760'W FROM SE 1/4, SEC 21	0.09	0.09	0		Certificate issued to Heppner Lumber Co.	
IM	G-10312 (G-11233)	83182	2/8/84, 2/17/84, 2/8/84	Willow Ck Basin	Kinzua 1 Kinzua 4	Well 1 :NESW, 21/2S/26E; 1460°N & 3600'W FROM SE 1/4, SEC 21 Well 4 :SESW, 21/2S/26E; 970°N & 2840'W FROM SE 1/4, SEC 21	0.51	0.51	0			Certificate issued to Kinzua Corp.
MU	G-12370 (G-13249)		1/14/93	Willow Ck Basin	Kinzua 6 Kinzua 7	Well 6 :NWSE, 21/2N/26E; 2430°N & 2590'W FROM SE 1/4, SEC 21 Well 7 :SWSE, 21/2N/26E; 220°N & 1980'W FROM SE 1/4, SEC 21	1.448	1.337	0.111		Pending extension	
South Morrow Industrial Park New Supply (based on Table 9 flow projections):												

ADDITIONAL RIGHTS

IM	G-4918 (G-5096)	(T-7262(CF))	2/3/70	Col. R. Basin	Bombing Range Road	NENW, 6/2N/26E; 20°S & 317'W FROM N 1/4, SEC 6	0.67	0.67	0		IR>IM with transfer-Cascade Spec. Ind. Park
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* MU = Municipal Use
 IM = Manufacturing and Industrial Use
 IR = Primary Irrigation
 IS = Supplemental Irrigation

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#5

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FEB - 6 1991 *Port Well #4 4N/25E/10Aa*

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

*MORROW
15216*

WATER RESOURCES DEPT. (START CARD) # 19829

(1) OWNER:
Name Port of Morrow
Address PO Box 200
City Boardman State OR Zip 97818

Well Number: 4 SALEM, OREGON LOCATION OF WELL by legal description:

County Morrow Latitude _____ Longitude _____
Township 4N Nor S, Range 25E E or W, WM.
Section 10 NE $\frac{1}{4}$ NE $\frac{1}{4}$
Tax Lot _____ Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) _____

(2) TYPE OF WORK:
 New Well Deepen Recondition Abandon

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable
 Other Reverse Circulation Air Rotary

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Other _____

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 900 ft.
Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Amount sacks or pounds
Diameter	From	To	Material	From	To	
24	0	57	cement	0	650	270 sacks
20+	57	650				
16	650	682				
15	682	900				

How was seal placed: Method A B C D E
 Other _____
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 18	+4.5	650	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	638	682	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
24	37	57	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 12*	627	900	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

*except at screens and top 5' bells out to 16"
Final location of shoe(s) 24" @ 57; 18" @ 650

(7) PERFORATIONS/SCREENS:
 Perforations Method factory mill cut
 Screens * Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
677	692	.2x3	360	12	PS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
*692	717	.150	cont	12	PS	<input type="checkbox"/>	<input type="checkbox"/>
717	774	.2x3	1368			<input type="checkbox"/>	<input checked="" type="checkbox"/>
*774	784	.150	cont	12	PS	<input type="checkbox"/>	<input type="checkbox"/>
784	818	.2x3	816			<input type="checkbox"/>	<input checked="" type="checkbox"/>
*818	843	.150	cont	12	PS	<input type="checkbox"/>	<input type="checkbox"/>
843	900	.2x3	1368			<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian

Yield gal/min _____ Drawdown _____ Drill stem at _____ Time _____
-step test reported in (12) _____ 1 hr.
-24 hour constant rate test on attached graph _____
-well flows 1500 gpm with approx 2 psi back pressure

Temperature of water 75° Depth Artesian Flow Found below 650
Was a water analysis done? Yes By whom owner
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(10) STATIC WATER LEVEL:
_____ ft. below land surface. Date _____
Artesian pressure 18 lb. per square inch. Date 2/1/91

(11) WATER BEARING ZONES:

Depth at which water was first found 7

From	To	Estimated Flow Rate	SWL
677	900	see (8)	see (10)
7	33	unknown	7
May be others between above zones			

(12) WELL LOG: Ground elevation approx 272

Material	From	To	SWL
See attached sheet			
Step Test:			
1675 gpm	60' DD	after 2.3 hrs	
1970 gpm	76' DD	after 5.0 hrs (incl. above)	
2360 gpm	102' DD	after 7.5 hrs (incl. above)	
2930 gpm	149' DD	after 9.5 hrs (incl. above)	
3490 gpm	197' DD	after 11.5 hrs (incl. above)	
DD includes 18 psi shut in plus pumping level.			

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Date started 7/23/90 Completed 2/1/91

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.
Signed David Donnelly WWC Number 806 Date 2/1/91

(bonded) Water Well Constructor Certification:
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 well construction standards. This report is true to the best of my knowledge and belief.
Signed Stephen Schneider WWC Number 649 Date 2/1/91

G-17670

Port of Morrow
Well #4

Start Card No. 19829
by Schneider Drilling Co.

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WATER RESOURCES DEPT.
SALEM, OREGON

<u>From</u>	<u>To</u>	<u>Description</u>
0	3	Sand, brown, med w/some gravel
3	8	Gravel 4" minus & sand, med-coarse
8	18	Gravel 10" minus & sand, coarse, some cemented
18	33	Gravel 10" minus & sand, med-coarse, tan
33	39	Gravel 8" minus w/clay, brown
39	56	Gravel 3" minus w/clay, binder, brown
56	57	Basalt, brown, fractured
57	62	Basalt, black, hard
62	80	Basalt, black & grey, hard
80	83	Basalt, black & grey, hard, some fractures
83	88	Basalt, brown, med
88	91	Basalt, brown, soft
91	101	Clay, brown, soft
101	111	Clay, grey-blue, soft
111	128	Clay, greenish blue w/brown rock & claystone
128	133	Basalt, black & grey, vesicular
133	136	Basalt, red & brown, vesicular
136	139	Basalt, grey & brown, med
139	150	Basalt, grey, hard
150	153	Basalt, multi-color: brown, black, grey, hard
153	182	Basalt, grey, hard
182	188	Basalt, mostly grey, some brown & red, hard
188	278	Basalt, grey, hard
278	283	Basalt, grey & black, med
283	290	Basalt, green & purple, soft
290	339	Clay, green w/black rock
339	345	Claystone, blueish green
345	371	Basalt, black w/blue clay & claystone
371	381	Basalt, black
381	499	Basalt, grey, hard
499	514	Clay, green w/some rock, black
514	521	Clay, greyish brown
521	552	Clay, blueish green w/claystone, blueish green
552	569	Basalt, grey, med
569	571	Basalt, grey, med to hard
571	622	Basalt, grey, hard
622	652	Basalt, grey, hard, fractured
652	677	Clay, multi-color, green, brown w/some basalt, black
677	696	Basalt, black, vesicular w/green clay
696	706	Basalt, black, vesicular w/quartz
706	712	Basalt, multi-color, broken, vesicular
712	716	Basalt, black fractures w/vesicular basalt
716	724	Basalt, grey & black, fractures
724	766	Basalt, grey, very fractured, hard
766	775	Basalt, black, med, fractured
775	782	Basalt, black & red, vesicular, soft
782	785	Basalt, black, fractured
785	807	Basalt, red, fractured, stained & black basalt
807	822	Basalt, black, fractured
822	835	Basalt, red & black vesicular, very, very soft
835	845	Basalt, black & red, much harder, fractured
845	867	Basalt, black, some fractures, med
867	885	Basalt, black, fractured
885	900	Basalt, gray, some fractures

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SALEM, OR

Land Use

Information Form



Oregon Water Resources Department
 725 Summer Street NE, Suite A
 Salem, Oregon 97301-1266
 (503) 986-0900
 www.wrd.state.or.us

Applicant: PORT OF MORROW
First Last

Mailing Address: P.O. BOX 200, #2 MARINE DRIVE

BOARDMAN OR 97188 Daytime Phone: 541-481-7678
City State Zip

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:	Proposed Land Use:
4N	25E	1,2,3,4,9,10,11,12,13,14,15,22,23,24				X <input type="checkbox"/> Diverted X <input type="checkbox"/> Conveyed X <input type="checkbox"/> Used	
4N	26E	3,4,5,7,8,9,18				<input type="checkbox"/> Diverted X <input type="checkbox"/> Conveyed X <input type="checkbox"/> Used	
						ALL OF PORT OF MORROW SERVICE BOUNDARY	

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

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CITY OF BOARDMAN, OREGON
 MORROW COUNTY, OREGON

MAY 28 2013

B. Description of Proposed Use

SALEM, OR

Type of application to be filed with the Water Resources Department:

- X Permit to Use or Store Water Water Right Transfer Permit Amendment or Ground Water Registration Modification
 Limited Water Use License Allocation of Conserved Water Exchange of Water

Source of water: Reservoir/Pond X Ground Water Surface Water (name) _____

Estimated quantity of water needed: _____ cubic feet per second gallons per minute acre-feet

Intended use of water: Irrigation Commercial Industrial Domestic for _____ household(s)
 X Municipal Quasi-Municipal Instream Other _____

Briefly describe:

PORT OF MORROW MUNICIPAL WATER SYSTEM



Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department.

See bottom of Page 3. →

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SALEM, OR
WR

For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box below and provide the requested information

- Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): MCZO Article 3 Section 3.073 PF
- Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

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SALEM, OR

Name: _____ Title: Carla McLane PLANNING DIRECTOR
 Signature: [Signature] Phone: 541 922 4624 Date: 5/23/2013
 Government Entity: MORROW COUNTY

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____
 City or County: _____ Staff contact: _____
 Signature: _____ Phone: _____ Date: _____

For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box below and provide the requested information

- Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): _____.
- Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
<i>OUTRIGHT USE IN INDUSTRIAL ZONE</i>	<i>BOARDMAN COMPREHENSIVE PLAN CHAPTER IX</i>	<input checked="" type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

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SALEM, OR

Name: _____ Title: *BARRY C. BEYELER COMMUNITY DEVELOPMENT DIRECTOR*

Signature: *[Handwritten Signature]* Phone: _____ Date: *MAY 23, 2013*

Government Entity: *CITY OF BOARDMAN* *541-481-9252*

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____

City or County: _____ Staff contact: _____

Signature: _____ Phone: _____ Date: _____

Application for a Permit to Use Ground Water



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

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MAY 28 2013

SALEM, OR

WR

Date _____

(For staff use only)



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

WE ARE RETURNING YOUR APPLICATION FOR THE FOLLOWING REASON(S):

- SECTION 1: _____
- SECTION 2: _____
- SECTION 3: _____
- SECTION 4: _____
- SECTION 5: _____
- SECTION 6: _____
- SECTION 7: _____
- SECTION 8: _____
- SECTION 9: _____

Land Use Information Form _____

Provide the legal description of: (1) the property from which the water is to be diverted, (2) any property crossed by the proposed ditch, canal or other work, and (3) any property on which the water is to be used as depicted on the map.

Fees _____

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MAP

- Permanent quality and drawn in ink
- Even map scale not less than 4" = 1 mile (example: 1" = 400 ft, 1" = 1320 ft, etc.)
- North Directional Symbol
- Township, Range, Section, Quarter/Quarter, Tax Lots
- Reference corner on map
- Location of each well, and/or dam if applicable, by reference to a recognized public land survey corner (distances north/south and east/west). Each well must be identified by a unique name and/or number.
- Indicate the area of use by Quarter/Quarter and tax lot clearly identified
- Number of acres per Quarter/Quarter and hatching to indicate area of use if for primary irrigation, supplemental irrigation, or nursery
- Location of main canals, ditches, pipelines or flumes (if well is outside of the area of use)
- Other _____