FILE#: G 14397

PORT OF MORROW
PO BOX 200 ONE MARINE DR
BOARDMAN, OR 97818

Application No. G14397 (Airport - Industrial)
Permit No. ~~G13283~~ superceded G-13765
Certificate No. G-18505 Recording

Stream Index, Page No.

FEES PAID

Date	Amount	Receipt No.
10/23/96	$200.00	7840
12-16-97	$983.00	18088
Ext-4/4/03	100.00	59144
2/27/15	575.00	115050
	Cert. Fee	

FEES REFUNDED

Date	Amount	Check No.

Date filed
Priority 10-23-96
Action suspended until C-40

Return to applicant
Date of approval ~~12/29/97~~ 11/16/99

CONSTRUCTION

Date for beginning ~~12/29/98~~ 11/6/00
Date for completion
Extended to

Date for application of water 10/1/02
Extended to 10-1-2012, 10-1-2040

PROSECUTION OF WORK

Form "A" filed
Form "B" filed
Form "C" filed

FINAL PROOF

Blank mailed
Proof received
Date certificate issued

ASSIGNMENTS

Date	To Whom	Address	Volume	Page

REMARKS

Two Wells - Not to exceed Max Cumulative total of 4.96 cfs
(being: 4.96 cfs for Municipal & 3.76 cfs for Irrigation of 301.0 AC)

PA - T-13504

SUPERSEDES G-13765

SP*70900-119

App G-14397

Oregon
Kate Brown, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone (503) 986-0900
Fax (503) 986-0904
www.wrd.state.or.us

April 3, 2018

Port of Morrow
Attn: Miff Devin
PO Box 200
#2 Marine Drive
Boardman, OR 97818

Subject: Water Management and Conservation Plan

Dear Mr. Devin:

Enclosed, please find the Final Order approving your Water Management and Conservation Plan specifying that the diversion of water under Permits G-13765 and G-12370 remain authorized at more than 0.46 cfs for Permit G-13765 and 0.11 cfs for Permit G-12370.

The attached Final Order specifies that the Port of Morrow's plan shall remain in effect until **April 3, 2028**. Additionally, the Port of Morrow is required to submit a progress report to the Department by **April 3, 2023**, detailing progress made toward the implementation of conservation benchmarks scheduled in the plan. Finally, the Port of Morrow must submit an updated Water Management and Conservation Plan to the Department by **October 3, 2027**.

NOTE: *The deadline established in the attached final order for submittal of an updated water management and conservation plan (consistent with OAR Chapter 690, Division 086) shall not relieve the Port of Morrow from any existing or future requirement(s) for submittal of a water management and conservation plan at an earlier date as established through other final orders of the Department.*

We appreciate your cooperation in this effort. Please do not hesitate to contact me at 503-986-0919 or *Kerri.H.Cope@oregon.gov* if you have any questions.

Sincerely,

Kerri H. Cope

Kerri Cope
Water Management and Conservation Analyst
Water Right Services Division

Enclosure

cc: WMCP File
Application #G-14397 (Permit #G-13765)
Application #G-13249 (Permit #G-12370)
District 5 Watermaster, Greg Silbernagel
Mike Ladd, NC Regional Manager
GSI Water Solutions, Inc. Attn: Suzanne Szoeke, 1600 Western Blvd. Ste 240, Corvallis, OR 97333

BEFORE THE WATER RESOURCES DEPARTMENT
OF THE
STATE OF OREGON

In the Matter of the Proposed Water Management and Conservation Plan for the Port of Morrow, Morrow County	)))	FINAL ORDER APPROVING A WATER MANAGEMENT AND CONSERVATION PLAN

Authority

OAR Chapter 690, Division 086, establishes the process and criteria for approving water management and conservation plans required under the conditions of permits, permit extensions and other orders of the Department.

Findings of Fact

1. The Port of Morrow (Port) submitted a Water Management and Conservation Plan (plan) to the Water Resources Department (Department) on September 26, 2017. The plan was required by a condition set forth under the Port's previously approved plan (Sp. Or. Vol. 74, Pgs. 69-71) issued on January 18, 2008 and conditions set forth in Final Orders issued on July 31, 2015 and November 4, 2016 approving Extensions of Time for Permits G-12370 and G-13765, respectively.

2. The Department published notice of receipt of the plan on October 17, 2017, as required under OAR Chapter 690, Division 086. No comments were received.

3. The Department provided written comments on the plan to the Port on December 14, 2017 and February 16, 2018. In response, the Port submitted revised plans on January 29, 2018 and February 23, 2018.

4. The Department reviewed the final revised plan and finds that the revised plan is consistent with the relevant requirements under OAR Chapter 690, Division 086.

Conclusion of Law

The Water Management and Conservation Plan submitted by the Port of Morrow is consistent with the criteria in OAR Chapter 690, Division 086.

Now, therefore, it is ORDERED:

Duration of Plan Approval:

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080, you may petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

1. The Port of Morrow's Water Management and Conservation Plan is approved and shall remain in effect until **April 3, 2028**, unless this approval is rescinded pursuant to OAR 690-086-0920.

Development Limitation(s):

2. The limitation of the diversion of water under Permit G-12370 established in the Final Order approving an Extension of Time for Permit G-12370 *(issued on July 31, 2015)* and the limitation of the diversion of water under Permit G-13765 established in the Final Order approving an Extension of Time for Permit G-13765 *(issued on November 4, 2016)* remains unchanged. Subject to other limitations or conditions of the permit, therefore, the Port of Morrow remains authorized to divert up to 0.11 cfs *(out of the total permitted 1.448 cfs)* of water under Permit G-12370 and 0.46 cfs *(out of the total permitted 4.96 cfs)* of water under Permit G-13765.

Plan Update Schedule:

3. The Port of Morrow shall submit an updated plan meeting the requirements of OAR Chapter 690, Division 086 within 10 years and no later than **October 3, 2027**.

Progress Report Schedule:

4. The Port of Morrow shall submit a progress report containing the information required under OAR 690-086-0120(4) by **April 3, 2023**.

Other Requirements for Plan Submittal:

5. The deadline established herein for the submittal of an updated Water Management and Conservation Plan (consistent with OAR Chapter 690, Division 086) shall not relieve the Port of Morrow from any existing or future requirement(s) for submittal of a Water Management and Conservation Plan at an earlier date as established through other final orders of the Department.

Dated at Salem, Oregon this 5th day of April, 2018.

Dwight French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

Mailing date: APR 09 2018

Notice Regarding Service Members: Active duty service members have a right to stay proceedings under the federal Service Members Civil Relief Act. 50 U.S.C. App. §§501-597b. You may contact the Oregon State Bar or the Oregon Military Department for more information. The toll-free telephone number for the Oregon State Bar is: 1 (800) 452-8260. The toll-free telephone number of the Oregon Military Department is: 1 (800) 452-7500. The Internet address for the United States Armed Forces Legal Assistance Legal Services Locator website is: http://legalassistance.law.af.mil

App. G-14397

Municipal Water Supply Survey – Return by September 8, 2016

Please answer the questions below to the extent possible and return this survey to the Oregon Water Resources Department as specified below ***no later than September 8, 2016***. If you cannot determine the answer to a question, please check "not sure."

This information will help us better understand how the Court's decision in the *Cottage Grove case* may affect your operations. It will be utilized by a workgroup to discuss potential options, which may include legislation.

If you have questions or need assistance, please do not hesitate to contact Corey Courchane at 503-986-0825 (email: Corey.A.Courchane@wrd.state.or.us).

Municipal Water Provider Name: PORT OF MORROW

Permit G-13765 Permit Completion Date (c-date): October 1, 2012

The court's decision does not have any impact on water that you can demonstrate was put to use, or developed under this permit, prior to your completion date of (***October 1, 2012***). However, pursuant to the Court's decision, any water developed after (***October 1, 2012***) will need to be reviewed for potential effects on persistence of fish listed as sensitive, threatened or endangered under state or federal law and may be conditioned to require curtailment to maintain the persistence of fish.

Please provide the contact person's name and phone number, in case there are questions regarding the information supplied:

Contact Name: Ronald V. McKinnis Phone Number: 541-481-7678

Today's Date: _____

1. What was the maximum rate of water diverted (developed or put to use) under Permit G-13765 prior to today?

   Quantity 3.76 *Circle one:* (CFS) or MGD *Not sure*_____

2. What was the maximum rate of water diverted prior to (October 1, 2012) under (G-13765)?

   Quantity 3.76 *Circle one:* (CFS) or MGD *Not sure*_____

3. 3.76 (answer in #2) minus 3.76 (answer in #3) = 0 (#4).
   The amount in #4 is the amount of new water developed between (October 1, 2012) and today, referred to herein as "developed water subject to conditioning" according to the Cottage Grove decision.

4. What was the maximum rate of water diverted (developed or put to use) under Permit G-13765 prior to January 1, 2014?

   Quantity 3.76 *Circle one:* (CFS) or MGD *Not sure*_____

5. What was the maximum rate of water diverted (developed or put to use) under Permit G-13765, prior to July 1, 2005?

   Quantity 3.76 *Circle one:* (CFS) or MGD *Not sure*_____

➢ ***If you answered zero (0) to question #4, you do not need to answer questions 7 through 10. Please submit your answers to #1-5 to the Department. Thank you for your participation.***

6. Hypothetically, if you were not allowed to use the portion of the "developed water subject to conditioning" (#4 above) during the summer, or low flow parts of the year would this have an impact on your ability to:

   a. Meet current water supply needs for your community?

      Yes X No_____ Not sure_____

   b. Meet future water supply needs for your community?

      Yes_____ No X Not sure_____

➢ ***If you answered no to both a and b of question #6, you do not need to answer questions 7 through 10. Please submit your answers to #1-6 to the Department. Thank you for your participation.***

7. If known, what actions would you need to take if a portion of the "water subject to conditioning" could not be used during the summer or low-flow parts of the year? (examples: nothing - no action needed, curtail non-essential water use, invest in conservation practices, repair leaky pipes, seek another source, etc.)

   Not sure X

8. Do you have other sources of supply that you can rely on instead of (water under Permit G-13765), or is (water under Permit G-13765) your sole source of supply?

   NONE. Not sure_____

9. If your community made investments to develop water between (October 1, 2012) and today, can you describe those investments and, if possible, estimate the costs incurred (e.g. upgrades to treatment plant capacity, expansion of distribution system capacity, new transmission pipes/water pumps/meters/etc.)?

   NONE
   NOTE: this is a GROUNDWATER PERMIT Not sure_____
   SURFACE WATER IS NO LONGER AVAILABLE FROM THE COLUMBIA RIVER.

10. *Optional:* Do you have adequate water supply to meet your community's current water supply needs? Do you have adequate water supply to meet your community's water supply needs over the next 50 years? If not, please describe existing water supply challenges.

    EXISTING WATER NEEDS CAN BE MET.
    FUTURE WATER NEEDS ARE DIFFICULT TO PROJECT FOR THIS INDUSTRIAL PARK.

By September 8, 2016, please complete this form for the permit listed below and return it to:

Mail:
OWRD/Municipal Extensions
725 Summer ST NE, Suite A
Salem, OR 97301

Email: corey.a.courchane@wrd.state.or.us
Fax: Attn. Corey Courchane, 503-986-0901
Phone: 503-986-0825

Oregon Water Resources Department
Water Right Services Division

Water Rights Application
Number G-14397

Final Order
Extension of Time for Permit Number G-13765
Permit Holder: Port of Morrow

Permit Information
Application File G-14397/ Permit G-13765
Basin 7 – Umatilla Basin / Watermaster District 5
Date of Priority: October 23, 1996

Authorized Use of Water

Source of Water:	Two Wells in the Columbia River Basin
Purpose or Use:	Municipal use and Irrigation of 301.0 Acres
Maximum Rate:	Not to exceed a maximum cumulative total of 4.96 cubic feet per second (cfs), being 4.96 cfs for municipal use, and 3.76 cfs for irrigation

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This Extension of Time request is being processed in accordance with Oregon Revised Statute 537.630 and 539.010(5), and Oregon Administrative Rule Chapter 690, Division 315

Appeal Rights
This final order is subject to judicial review by the Court of Appeals under ORS 183.482. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.482(1). Pursuant to ORS 536.075 and OAR 137-003-0675, you may petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

Application History
Permit G- 13283 was issued on December 29, 1997 and superseded by Permit G-13765 by the Department on Novemeber 16, 1999. The permit called for complete application of water to

beneficial use by October 1, 2002. The most recent extension authorized complete application of water to beneficial use by October 1, 2012. On February 27, 2015, the Port of Morrow submitted an application to the Department for an extension of time for Permit G-13765. In accordance with OAR 690-315-0050(2), on May 26, 2015, the Department issued a Proposed Final Order proposing to extend the time to fully apply water to beneficial use to October 1, 2040. The protest period closed July 10, 2015, in accordance with OAR 690-315-0060(1). No protest was filed.

FINDINGS OF FACT

The Department adopts and incorporates by reference the findings of fact in the Proposed Final Order dated May 26, 2015.

At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to the following conditions:

CONDITIONS

1. **Well Condition**

   The use of any water under Permit G-13765 is subject to this Groundwater Condition.

   The permit holder shall provide written documentation that Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) is not producing water from the basalt source which is common to the Port of Morrow Wells #1 and 2 on or before October 1, 2021. If the Department does not receive written documentation on or before October 1, 2021, the Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) will be excluded on the final certificate.

2. **Development Limitations**

   Appropriation of any water beyond 0.46 cfs up to 4.96 cfs under Permit G-13765 for municipal use shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86 that authorizes access to a greater rate of appropriation of water under the permit consistent with OAR 690-086-0130(7). The required WMCP shall be submitted to the Department within 3 years of this Final Order. The amount of water used under Permit G-13765 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, Division 86 on file with the Department.

   The Development Limitation established in the above paragraph supersedes any prior limitation of the appropriation of water under Permit G-13765 that has been

established under a prior WMCP or Extension final order issued by the Department.

The deadline established in the Extension Final Order for submittal of a WMCP shall not relieve a permit holder of any existing or future requirement for submittal of a WMCP at an earlier date as established through other orders of the Department. A WMCP submitted to meet the requirements of the final order may also meet the WMCP submittal requirements of other Department orders.

CONCLUSION OF LAW

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0080(3).

ORDER

The extension of time for Application G-14397, Permit G-13765, therefore, is approved subject to conditions contained herein. The deadline for applying water to full beneficial use within the terms and conditions of the permit is extended from October 1, 2012 to October 1, 2040.

DATED: November 4, 2016

Dwight French
Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

If you have any questions about statements contained in this document, please contact Machelle A Bamberger at (503) 986-0802.

If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900.

Mailing List for Extension FO Copies

Copies Mailed
By: SP
(SUPPORT STAFF)
on: 11-4-16
(DATE)

FO Date: November 4, 2015

Application G-14397
Permit G-13765

Original mailed to permit holder:

Port of Morrow
Attn: Ron McKinnis
PO Box 200
Boardman, OR 97818

Copies sent to:

1. WRD - App. File G-14397/ Permit G-13765

Fee paid as specified under ORS 536.050 to receive copy:

2. None

Receiving electronic copy via e-mail (10 AM day of signature date)
(DONE BY EXTENSION SPECIALIST)

3. WRD - Watermaster District 5, Greg Silbernagel

4. WRD – Well Construction, Kris Byrd
   Done by CC *Date* 11/3/16

5. WRD- Kerri Cope, Water Supply and Conservation Services
   Done by CC *Date* 11/3/16

CASEWORKER: MAB

Application # G14397 **Permit #** G-13765

Public Notice Route Slip ... New Application Extension of Time
per Division 315 Rules... (Extensions received on July 1, 2001 or after)

- **WRIG...**
  Money Receipted on: 2-27-15
- **Extension Specialist...**
  - [x] Added to tracking spreadsheet

After fee is receipted and app is added to spreadsheet, route to...

- **Codi Holmes...**
  - [x] Publish on Public Notice (initial 30-day comment): Date of notice 3-17-2015
  - [x] Update WRIS Database
  - [x] In the "PNotice Date" field... Enter the date the Extension Application was published on the Public Notice.
  - [ ] In the "Ext Filed" field... Enter the date the Extension Application was received.

☐ Yes or ☐ No: **Return file to Extension Specialist after PN** _____

Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Suite A
Salem, OR 97301
(503) 986-0900
Fax (503) 986-0904

March 10, 2015

REFERENCE: Application for Extension of Time

Dear Extension of Time Applicant:

The Water Right Services Division has received your application for an extension of time for **APPLICATION FILE #: G-14397 (Permit G-13765).** Your application will be reviewed in the future. Following the review, you will receive a Proposed Final Order either approving or rejecting the extension of time request. A 45-day protest period begins upon issuance of the Proposed Final Order. After the protest period closes, a Final Order is issued.

You may continue the use of water under your water right until the Water Resources Department formally takes action on your extension application. If your permit includes conditions, water use reporting, water level measurement reporting, etc., you are required to comply with the conditions.

Any additional development that occurs after the expired completion date, identified on the permit or an extension order, can only be claimed upon an approved extension application.

If you have questions concerning your extension of time application, please contact Anne Reece at (503) 986-0834. For general information about the Water Resources Department, you may contact the Water Resources' Customer Service Group at (503) 986-0801 or you may access the Department's website at: **www.wrd.state.or.us.**

Municipal or Quasi-Municipal

Extension PFO Checklist for Water Use Permits

issued after November 2, 1998

(OAR 690-315-0010 through OAR 690-315-0060)

Application: G- 14397 Permit: G- 13765 Permit Amendment? No ☒ Yes ☐ T- _____ ☐ pending ☐ approved

Permit Holder's Name: Port of Morrow Attn: Ron McKinnis

Permit Holder's Mailing Address: PO Box 2000, #2 Marine Dr, Boardman, OR 97818 e-mail ron@portofmorrow.com

Phone Number: 541-481-7678

POD Location: Township 4N Range 24E Section NESW, SEC 21; NWSW SEC 22 ¼¼

Drainage Basin: 7 County: Morrow Watermaster District: 5 Watermaster: Greg Silbernagel

Date Permit was issued: 11/16/1999 **Priority Date:** 10/23/1996 **Date of PN:** 3/~~18~~17/2015

Source: Two wells within the Columbia River Basin

Use: ☒ Municipal ☐ Quasi Municipal and Irrigation

"Q": 4.96 cfs being 4.96 for municipal use and 3.76 cfs for irrigation

Orig "A" Date: NOV 16,1999 **Orig "B" Date:** 10/1/ None **Orig "C" Date:** 10/1/2002

Extension request rec'd: 2/27/2015 **Last Authorized "B" Date:** 10/1/ None **Last Authorized "C" Date:** 10/1/2012

Request Number (1, 2, 3…): 2nd **Proposed "B" Date:** 10/1/ None **Proposed C Date:** 10/1/2040

Conditions of Permit:

Condition Met?	Condition Not Met?	Permit Condition
☒	☐	install meters
☒	☐	develop a plan to monitor and report water levels
☒	☐	WMCP - permit; WMCP prior extension
☐	☐	retrofit Airport Well #1 - not from Basalt Source
☐	☐	

Factors to consider in determining "Reasonable Diligence" [OAR 690-315-0040(3)]:

Yes No

☒ ☐ Work was accomplished within the time allowed in the permit or previous extension

☒ ☐ Water right permit holder conformed with the permit or previous extension conditions

☒ ☐ Beneficial use made of the water during the permit or previous extension time limits

- Permit holder has beneficially used **0.46 muni and 3.76 irrigation** ☒cfs☐gpm☐af Undeveloped portion **4.5 cfs mini; 0 cfs irrigation** ☐cfs☐gpm☐af 4.22

☒ ☐ Financial investments were made toward developing the beneficial water use.

- Amount Invested to date: $**620,000** Estimated Remaining Cost: $**0**

GW REVIEW: Y N _____

MITIGATION REVIEW: Y N

Has the applicant pursued perfection of the right in good faith and with reasonable diligence? Yes ☒ No ☐

As of Population Projected

municipal – 2.9 mgd = 4.49 ≠ 0.46 used as 4/C-date

Population ____ (Year) ____ ☐**Growth**____% ☐**Population** ____ **by (Year)** ____ **Calculated? Yes** ☐
2.9 mgd ok — As of — Projected
Peak Demand4.43 **cfs/gpm (Year)** 2015 ☐**Peak Demand**4.96 **cfs/gpm by (Year)**2040 **Calculated? Yes** ☐
Determination of the market and the present demand for water or power to be supplied:

Identify the closest surface water or localized water basin. Columbia River
Ground Water Permits: Is the POA located…
Surface Water Permits: Is the POD located…

Yes No
☐ ☒ above a state scenic waterway? Name Source: OWRD "Areas Above State Scenic Waterways" Map
☐ ☒ within a stream segment designated as a federal wild and scenic river? Source: www.rivers.gov/wildriverslist.html
☒ ☐ within a sensitive, threatened or endangered species area Source: "/gisdata/dev/projects/salmon/div33map.aml"
☐ ☒ within a critical or limited Ground Water Area? Name of area
☐ ☒ within a Withdrawn Area? Name of area
☐ ☒ in a waterbody listed on the DEQ Section 303(d) List of Water Quality Limited Areas? Date added to list
☐ ☐ within an area ranking ☐low / ☐moderate / ☐high / ☐highest for stream flow restoration needs Source: OWRD "Streamflow Restoration Needs" Maps (by region)
not ranked

Based on the written record, can the Department make a finding of "Good Cause" to approve the extension request?

Yes... "Good Cause" can be found. ☒ Approval of Extension Request

No ... "Good Cause" *cannot* be found. ☐ Denial of Extension Request

Conditions to be included in Extension PFO (if applicable)? Yes ☐ **No** ☐
*(**NOTE:** Check the file record for documentation to add a condition(s) at the extension stage.)*

☒ Max "Q" Development Limitations and Div. 86 Water Management and Conservation Plan

☐ Other: ____

Footnote regarding Claim of Beneficial Use. Choose the appropriate language below and insert as a footnote in the PFO:

☐ **COBU Requirement - Surface/Ground Water - on or prior to July 9, 1987**
"For permits applied for or received on or before July 9, 1987, upon complete development of the permit, you must notify the Department that the work has been completed and either: (1) Hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Water Resources Department, for issuance of a water right certificate; or (2) Continue to appropriate water under the water right permit until the Water Resources Department conducts a survey and issues a water right certificate under ORS 537.250 or 537.625."

☐ **COBU Requirement - Surface Water - post July 9, 1987**
"Pursuant to ORS 537.230(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."

☒ **COBU Requirement - Ground Water - post July 9, 1987**
"Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use."

NOTES:

Extension "PFO" Dates
Mailing / Issuance Date: _____ **Protest Deadline Date:** _____

Reviewer's Name: _____ **Date:** _____

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

Application for Extension of Time for Municipal and Quasi-Municipal Water Use Permits

Make use of this form, *Application for Extension of Time for Municipal and Quasi-Municipal Water Use Permits*, only if the permit uses the word "Municipal" or "Quasi-municipal" in the description of the purpose or use to which water is to be applied.

TO THE DIRECTOR OF THE OREGON WATER RESOURCES DEPARTMENT

A separate extension application must be submitted for each permit as per OAR 690-315-0070(2). This page, with an original signature by the permit holder of record, must accompany the extension of time application.

This application and a summary of review criteria and procedures that are generally applicable to this application are available at http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml

I, Port of Morrow
NAME OF PERMIT HOLDER *[OAR 690-315-0070(1) and (3)(a)]*

Ronald V. McKinnis
NAME OF CONTACT

P.O. Box 200, #2 Marine Dr.	Boardman	Oregon	97818
ADDRESS	CITY	STATE	ZIP

541-481-7678
PHONE

ronm@portofmorrow.com
E-MAIL ADDRESS

RECEIVED
FEB 27 2015
WATER RESOURCES DEPT
SALEM, OREGON

the permit holder of: Application Number G-14397

Permit Number G-13765
[OAR 690-315-0070(3)(b)]

do hereby request that the time in which to:

☐ complete construction (of diversion/appropriation works and/or purchase and installation of the equipment necessary to the use of water), which time now expires on October 1, ____, be extended to October 1, ____,

and/or the time in which to:

X apply water to full beneficial use under the terms and conditions of the permit, which time now expires on October 1, 2012, be extended to October 1, 2040.

I am the permittee, or have written authorization from the permittee, to apply for an extension of time under this permit. I certify that the information I have provided in this application is true and correct to the best of my knowledge.

Signature

02/27/2015
Date

Airport Ext

CHART-I

INSERT DATES	ALL WORK AND ACTIONS ACCOMPLISHED BEFORE PERMIT WAS ISSUED *List work/actions done before the permitted was issued – e.g. Well drilled.*	COST
10-28-98	Well Drilled	400,000
03-30-99	Well Straightened & modified for use	95,000
INSERT DATES	**ALL WORK AND ACTIONS ACCOMPLISHED DURING PERMITTED TIME PERIOD (after permit was issued and prior to permit "C-date")** *List work/actions done during the permitted time period.*	**COST**
12-29-97	**Date the permit was signed** - G-13283 Superseded by G-13765	
11-16-99	Signed G-13765	
11-16-00	**Date the permit specified "Actual Construction Work" shall begin ("A-Date")** - not all permits contain this date.	
11-16-00	Permit Start of Construction pre-dated this Permit Requirement	
05-04-98	Actual Start of Construction - Well Drilling Started	Above
03-2000	Install Pipeline & Pivot Systems for Irrigation System	125,000
10/1/02	**Date the permit specified complete application of water to the use shall be made ("C-Date")** - all permits contain this date.	
INSERT DATES	**ALL WORK AND ACTIONS ACCOMPLISHED AFTER PERMIT "C-Date" and PRIOR TO THE MOST RECENT EXTENSION OF TIME REQUEST** *For the 1st Application for Extension of Time: List work/actions done after the permit "C-date" up to the date of this extension request.* *For Other than the 1st Application for Extension of Time: List any work/actions done after the permit C-Date but prior to the most recent extension.*	**COST**
10-01-12	None - POA can provide almost all of allowed rate	
01-20-15	None - POA can provide almost all of allowed rate	
	Beneficial Use Cannot be made for Full Rate for a COBU	
INSERT DATES	**ALL WORK AND ACTIONS ACCOMPLISHED DURING THE MOST RECENT EXTENSION OF TIME GRANTED** *For Other than 1st Application for Extension of Time: List any work/actions done during the time period most recent extension.*	**COST**
10/1/12	**Date of the last "Extended From Date" for complete application of water (used on the most recently approved extension of time).**	
01-20-15	None - POA can provide almost all of allowed rate	
	Beneficial Use Cannot be made for Full Rate for a COBU	

	CHART - I (CONTINUED)	
10/1/12	Last "Extended To" date for complete application of water (resulting from the most recently approved extension of time).	
INSERT DATES	**ALL WORK AND ACTIONS ACCOMPLISHED AFTER THE MOST RECENT EXTENSION OF TIME GRANTED** *List work/actions done after the last authorized date for complete application of water has passed.*	
01-07-15	None - POA can provide almost all of allowed rate	**COST**
	Beneficial Use Cannot be made for Full Rate for a COBU	
	Total Cost to Date	**$620,000**

[OAR 690-315-0070(3)(f)]

CHART-II

Condition No.**	Date Satisfied	Describe How Permit Condition Has Been Satisfied
A	3-2000	Install Meter
B	3-2000	Develop Water Monitor Plan - Submitted to the Dept.
C	01-18-08	Approved Water Management & Conservation Plan
D	11-08-05	Well Evaluation by Kennedy Jenks (Lime of Water Sources Developed)
E	12-20-07	Previous Extension of Time to 10-01-2012
F	11-30-17	New Water Management & Conservation Plan Required by Order 74-69

** *Condition No: Attach a copy of the permit and, if applicable, any prior permit extensions or permit amendments with conditions identified and hand-numbered in a continuous number sequence throughout all such documents. Responses to Items 5-A and 5-B should reference each condition by number to correspond with the hand-written number sequence on the attached documents containing permit conditions.*

5-B) If applicable conditions have NOT complied with all, explain the reasons why and indicate with a date certain (in the near future) when compliance will occur.

CHART-III

Condition No.**	Date Will Comply	Explain Why Each Permit Condition Has NOT Been Satisfied
F	11-30-17	Submit New Water Management & Conservation Plan
	01-27-15	Beneficial Use Cannot be made for Full Rate for a COBU
G	10-01-40	Complete Use of Full Water Rate to Beneficial Use (4.96 CFS for MU)
		At this time 0.46 CFS is in use for Industrial as identified by Order 74-69 and 3.97 for Irrigation (Total 4.43 CFS)

CHART-IV

Well # as identified on Permit	Water User's Well #	Has this well been drilled?	IF DRILLED: Well Log Number E.g. MULT 60493	Well Tag Number E.g. # 40151 or N/A	Is the actual drilled location authorized on this permit or on a permit amendment? (See below)	Maximum instantaneous rate used by C-date or prior extension -- from this well -- under this permit only (CFS or GPM)	Is this well authorized or utilized under any OTHER water rights?	If yes, provide the rate used from this well under each water right. (Typically the total of all uses from a single well will not exceed the well's pumping capacity.) Permit, Certificate, or Transfer No.	Rate (CFS or GPM)
Airport #1	1513	Yes X No ☐	50471	L27925	Yes X No ☐	4.43 CFS	Yes ☐ No X	- -	
		Yes ☐ No ☐			Yes ☐ No ☐		Yes ☐ No ☐	- -	
		Yes ☐ No ☐			Yes ☐ No ☐		Yes ☐ No ☐	- -	
		Yes ☐ No ☐			Yes ☐ No ☐		Yes ☐ No ☐	- -	
Total instantaneous rate from all wells utilized under this permit used by C-date or most recent "extended to" date						4.43 CFS	.46 muni → 4.96 3.97 IR (exceeds 3.76)		

.46
3.76
4.22

6-C) If the drilled location of a well is not authorized on this permit, please specify its location below, or provide a map showing its location. Has or will a permit amendment application been/be filed with OWRD? Yes ☐ No X

If a Permit Amendment Application has been filed: Transfer No. T-_____

Well #_____: Actual location: _____

Well #_____: Actual location: _____

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[OAR 690-315-0070(3)(h)]

7. Provide an estimate of the current population served under this permit and a description of the methodology(ies) used to make the estimate.

Estimate the current population that is supplied water by the municipality or quasi-municipality and if applicable, current population served under this permit. Describe how that estimate was derived, or cite the source document from which the data was obtained. Include any calculations, formulas, supporting documentation, including copies of source documents.

Current Population: N/A as of Year: 2015 (Airport Industrial Park)

Methodology used to estimate current population served: N/A

[OAR 690-315-0070(3)(p)]

8. Report the current peak water demand of the current population served, and a description of the methodology(ies) used to make the estimate.

Identify the total rate, or duty if applicable, of water being used to meet the current peak demand for water from all water rights held by the municipal or quasi-municipal entity. This must be reported in

the same units of measurement as specified in the permits, being cfs (cubic feet per second), gpm (gallons per minute), and/or AF (acre-feet – usually only specified on a reservoir right to store water). This total rate should be based on the information provided on "Attachment A" in the column named *"Max Amount of Beneficial Water Used to Date"* [under Item 10-A (a)].

Current Peak Water Demand: 4.43 CFS as of Year: 2015

.46 (MU)

Methodology used to estimate current peak demand: Actual Water Used by Record
Use amounts to 3.76 for Irrigation and 0.46 for Municipal to Date (4.43 Total CFS)

[OAR 690-315-0070(3)(k)]

9. **Provide a summary of any events that delayed completion of the water development or application of water to full beneficial use, including other governmental requirements (if any), relating to the project that have significantly delayed completion of construction or perfection of the right.**

Use is Only Delayed by Industrial Growth at this Airport Industrial Park Location

[OAR 690-315-0070(3)(l)]

10-A. **Provide an estimated demand projection and a description of the methodology(ies) used for the subject water right permit, considering the other water rights held by the municipal or quasi-municipal water use permit holder, and a date by which the water development is anticipated to be completed and water put to full beneficial use.**

NONE AT THIS TIME

b) Water Supply Contracts and/or Agreements
List any water supply contracts or agreements for water that will be supplied by the permit holder to other entities.

NONE

List any water supply contracts or agreements for water that will be supplied from other entities that the permit holder will depend on to meet its own current or anticipated future water needs.

NONE

c) Projected Population
Identify the projected population growth rate. The population projection must be extended out, at a minimum, to the year requested for complete application of water. Describe the methodology used to create the population projections such as historical growth rates or any factors affecting growth trends.

Population Growth Rate: N/A% Use not based on Population Use Growth

Projected Population: N/A as of Year: 2015 (Airport Industrial Park)

Methodology used to estimate projected population and population growth rate: N/A

d) Future Peak Water Demands

Identify the projected peak water. The peak water demand projection must be extended out, at a minimum, to the year requested for complete application of water. Describe the methodology used to create the water demand projection, such as historical growth rates or any factors affecting growth trends. Include a summary of how the subject permit, and other water rights and /or supply contracts held by the permit holder are planned or expected to be used to meet anticipated future water needs

Projected Peak Water Demand: 4.96 CFS (MU) as of Year: 2040

Methodology used to estimate peak water demand: N/A

e) Potential Growth

Describe the potential for growth of the service area (such as the annexation of lands or new industrial and/or commercial ventures locating within the service area) and describe how those projects are expected to affect future water demands.

Potential Exists that the Service Area Could Expand Based on the Local Availability of Industrial Property

f) Completion Date

Provide the date by which the water development is anticipated to be completed and water put to full beneficial use. **October 1, 2040**

[OAR 690-315-0070(3)(l)]

10-B. Application for Extension of Time requests for greater than 50 years must include documentation that the demand projection is consistent with the amount and types of lands and uses proposed to be served by the permit holder.

Show that permit holder's potential for future growth and expansion is feasible and consistent with the amounts and types of lands and uses proposed to be served. Information that may be addressed includes, but is not limited to: land use plan(s); current service area(s) in relation to the urban growth boundary; amounts of lands currently un-served and available for future development; and/or low-density vs. high-density areas.

Large Blocks of Available Industrial Zoned Properties Could Provide for Future Expansion of the Existing Service Boundary

[OAR 690-315-0070(3)(j) and OAR 690-315-0070(3)(m)]

11. Provide an estimate of the costs to complete water development and summary of the future plan and schedule to complete construction and/or perfect the water right.

Considering the demand projections in Item 10-A, describe major future work and actions that must be accomplished in order to fully develop and perfect the subject permit. Provide a list of the major planning, work and/or actions needed, the approximate time frames, and estimated costs anticipated to complete the water development within the parameters of this permit.

The review of a Capital Improvement Plan (CIP) or other system infrastructure improvement

plans may help when formulating a response.
NONE

CHART-V

APPROXIMATE DATE RANGE	WORK AND ACTIONS TO BE ACCOMPLISHED	ESTIMATED COST
	N/A - Municipal Use via Industrial vs. City Population	
Year: 2024	Date intend to apply water to full beneficial use under the terms and conditions of this permit.	
	Estimated Total Cost to Complete Development	**Unknown at this Time**

[OAR 690-315-0070(3)(n)]

12. Justify the time requested to complete the project and/or apply the water to full beneficial use.

A justification should integrate information from Items 5-B, 6-A or 6-B, 9, 10-A, and 11 of this application, and should include any other information or evidence to establish that the requested amount of time is reasonable, and that you will be able to complete the project within the amount of time requested.
Conservative Projections of Expanded Industrial Use

[OAR 690-315-0070(3)(o)]

13. Provide any other information you wish OWRD to consider while evaluating the Application for Extension of Time
3.76 CFS Developed to Irrigation
0.46 CFS Developed to Municipal - Small Industrial Use in Lease Building

[OAR 690-315-0070(3)(q)]

14. For Municipal water use permits issued before November 2, 1998, for the first extension issued after June 29, 2005, provide a copy of any agreements regarding use of the undeveloped portion of the permit between the permit holder and a federal or state agency that include conditions or required actions that maintain the persistence of listed fish species in the portions of the waterways affected by water use under the permit.

Water Rights Inventory for (Name of Entity) Port of Morrow - Airport Industrial Park

(List of All Permits, Permit Amendments, Certificates, Transfers, New Applications)

Ground Water

Application No.	Permit No.	Priority Date	Certificate No.	P.A.[1] or Transfer No.	Source of water identified in water right	Facility Name used by entity	Use	Rate identified in water right (cfs or AF)	Actual Diverson Maximum Instantaneous Rate Diverted to Date (cfs)	Authorized Completion Date[2]	Notes or Limitations to water use[3]
G-14397	G-13765	10-23-96	N./A		Well #1	Airport	Municipal	Up to 4.96	0.46 CFS	10-01-02	
G-14397	G-13765	10-23-96	N/A		Well #1	Airport	Irrigation	Up to 3.76	3.76 CFS	10-01-02	

Surface Water

Application No.	Permit No.	Priority Date	Certificate No.	P.A. or Transfer No.	Source of water identified in water right	Facility Name used by entity	Use	Rate identified in water right (cfs or AF)	Actual Diverson Maximum Instantaneous Rate Diverted to Date (cfs)	Authorized Completion Date	Notes or Limitations to water use

Pending New Water Right Applications

Application No.	Priority Date	Source	Proposed Use	Proposed Rate

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Attachment "A"
For Extension of Time Application

[1] P.A. = Permit Amendment

[2] Date by which full application of water is to be made within the terms and conditions of the permit (date will be specified in the permit or on the last extension Final Order).

[3] If a particular water right certificate, permit, or transfer is not being utilized to meet current demands, or its use is somehow limited due to quality, seasonal, etc. limitations, or if a the actual diversion rate is less than a certificated rate, please explain why.

STATE OF OREGON

COUNTY OF MORROW

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

PORT OF MORROW
PO BOX 200 ONE MARINE DRIVE (541)481-7678
BOARDMAN, OREGON 97818

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-14397

SOURCE OF WATER: TWO WELLS IN COLUMBIA RIVER BASIN

PURPOSE OR USE: MUNICIPAL USE AND IRRIGATION OF 301.0 ACRES

MAXIMUM RATE: NOT TO EXCEED A MAXIMUM CUMULATIVE TOTAL OF 4.96 CUBIC FOOT PER SECOND(CFS), BEING 4.96 CFS FOR MUNICIPAL USE AND 3.76 CFS FOR IRRIGATION

PERIOD OF USE: YEAR ROUND FOR MUNICIPAL USE, AND MARCH 1 THROUGH OCTOBER 31 FOR IRRIGATION

DATE OF PRIORITY: OCTOBER 23, 1996

POINT OF DIVERSION LOCATION: NE 1/4 SW 1/4, SECTION 21, NW 1/4 SW 1/4, SECTION 22, T 4N, R24E, W.M.; WELL 2 - 2085 NORTH AND 2650 WEST FROM THE SE CORNER SECTION 21; WELL 1 - 2580 FEET NORTH & 60 FEET EAST FROM SW CORNER SECTION 22

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

MUNICIPAL
WITHIN THE SERVICE BOUNDARIES

IRRIGATION

NE 1/4	SW 1/4	8.0	ACRES
SE 1/4	SW 1/4	19.0	ACRES
NE 1/4	SE 1/4	37.0	ACRES
NW 1/4	SE 1/4	25.0	ACRES
SW 1/4	SE 1/4	35.0	ACRES
SE 1/4	SE 1/4	37.0	ACRES
	SECTION 21		
NE 1/4	SW 1/4	37.5	ACRES
NW 1/4	SW 1/4	24.0	ACRES
SW 1/4	SW 1/4	24.0	ACRES
SE 1/4	SW 1/4	37.5	ACRES
NW 1/4	SE 1/4	8.5	ACRES
SW 1/4	SE 1/4	8.5	ACRES
	SECTION 22		

TOWNSHIP 4 NORTH, RANGE 24 EAST, W.M.

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

The water user shall develop a plan to monitor and report the impact of water use under this permit on water levels within the aquifer that provides water to the permitted well(s). The plan shall be submitted to the Department within one year of the date the permit is issued and shall be subject to the approval of the Department. At a minimum, the plan shall include a program to periodically measure static water levels within the permitted well(s) or an adequate substitute such as water levels in nearby wells. The plan shall also stipulate a reference water

level against which any water-level declines will be compared. If a well listed on this permit (or replacement well) displays a total static water-level decline of 25 or more feet over any period of years, as compared to the reference level, then the water user shall discontinue use of, or reduce the rate or volume of withdrawal from, the well(s). Such action shall be taken until the water level recovers to above the 25-foot decline level or until the Department determines, based on the water user's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights. The water user shall in no instance allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

Within one year of permit issuance, the appropriator shall prepare a plan for the Water Resources Commission which shall indicate the steps for obtaining an alternate long term water supply.

Within 1 year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

Under this permit, groundwater shall not be produced from the basalt source developed by Port of Morrow wells #1 and #4, identified in Department records as MORR 752 and MORR 1526.

STANDARD CONDITIONS

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Actual construction of the well shall begin within one year from permit issuance. Complete application of water to the use shall be made on or before October 1, 2002.

This permit is issued to correctly describe the maximum rate allowed. Permit G-13283, dated December 29, 1997, is superseded by this instrument and is of no further force or effect.

Issued November 16, 1999

Martha O. Pagel, Director
Water Resources Department

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SALEM, OREGON

BEFORE THE WATER RESOURCES DEPARTMENT
OF THE
STATE OF OREGON

In the Matter of the Proposed Water Management and Conservation Plan for Port of Morrow, Morrow County, Oregon	))))	FINAL ORDER APPROVING WATER MANAGEMENT AND CONSERVATION PLAN

Authority

OAR Chapter 690, Division 086, establishes the process and criteria for approving water management and conservation plans required under the conditions of permits, permit extensions and other orders of the Department. An approved water management plan may authorize the diversion and use of water under a permit extended pursuant to OAR Chapter 690, Division 315.

Background

On September 19, 2005, the Port of Morrow submitted a draft Water Management and Conservation Plan (WMCP) for review under OAR Chapter 690, Division 086 (November 2002). Submittal of the plan was required as an update of a previously approved .WMCP.

The Department published notice of receipt of the plan on September 27, 2005. No public comments were received.

The Department provided comments on the plan to the Port on February 9, 2006 and, in response, the Port submitted a revised plan on November 9, 2007.

Findings of Fact

1. The Port of Morrow Water Management and Conservation Plan contains all of the plan elements required under OAR 690-086-0125.

2. The projections of future water needs in the plan demonstrate a need for over 17.2 cfs of which, 0.57 cfs of water available under permits G 13765 and G-12370 to meet demands for the population anticipated in 20 years. These projections are reasonable and consistent with the Port's land use plan.

3. The plan includes 5-year benchmarks for implementation of metering of Port owned landscape, provide full for future industrial supply metering at all facilities; use portable

This final order is subject to judicial review by the Court of Appeals under ORS 183.482. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.482(1). Pursuant to ORS 536.075 and OAR 137-003-0675, you may petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

meter to spot-check for un-metered water users and water audit of internal Port uses and Port customers. The system is metered for Port customers and the rate structure includes a base rate and volumetric charge. System leakage is estimated at 10 percent.

4. The plan includes 5-year benchmarks for evaluation, development, and implementation of programs to revitalize the Water User's Committee at Boardman and initiate similar groups for the Airport and South Morrow. Establish an annual meeting for Port water users to discuss system issues and provide technical assistance to customers.

5. The plan identifies ground water as the source of the Port's water rights. It also accurately and completely describes the source of water as ground water not involved in endangered species or within critical ground water areas but recognizes the proximity to critical ground areas.

6. The water curtailment element included in the plan satisfactorily promotes water curtailment practices and includes a list of three stages of alert with concurrent curtailment actions.

7. The diversion of 0.46 cfs under permit G 13765 and 0.11 cfs under permit G-12370 will be initiated during the next 20 years and consistent with OAR 690-086-0130(7):

    a. OAR 690-086-0130(7)(a) requires the plan includes a schedule for development of any conservation measures that would provide water at a cost that is equal to or lower than the cost of other identified sources and the supplier has provided sufficient justification for the factors used in selecting other sources for development. The plan meets these requirements through best management practices and water reuse.

    b. OAR 690-086-0130(7)(b) requires increased use from the source is the most feasible and appropriate water supply alternative available to the supplier. The Port is one of the largest users of water reuse and has continued to implement low use irrigation practices. However, the total twenty year additional demand is projected to be a total of 17.2 cfs which would exceed the capacity of conservation and reuse at the current level and other close alternatives would be from the Columbia River which have endangered species issues or other areas within designated critical ground water management areas. The plan is consistent with this requirement by use or conservation methods or pursuit of new ground water permits outside the critical ground water management areas.

    c. OAR 690-086-0130(7) (c) requires that the plan contains documentation that the supplier is complying with the mitigation requirements. The use of this groundwater is not known to have any obligations under the Endangered Species Act.

Conclusion of Law

The water management and conservation plan submitted by the Port of Morrow is consistent with the criteria in OAR Chapter 690, Division 086.

Now, therefore, it is ORDERED:

1. The Port of Morrow Water Management and Conservation Plan is approved and shall remain in effect until November 30, 2017, unless this approval is rescinded pursuant to OAR 690-086-0920.

2. The limitation of the diversion of water under Permit G-12370 established by the extension of time approved on December 20, 2007 is removed and, subject to other limitations or conditions of the permit, the Port of Morrow is authorized to divert up to 0.11 cfs under Permit G-12370.

3. The limitation of the diversion of water under Permit G 13765 established by the extension of time approved on December 20, 2007 is removed and, subject to other limitations or conditions of the permit, the Port of Morrow is authorized to divert up to 0.46 cfs under Permit G 13765.

4. The Port of Morrow shall submit an updated plan within ten years and no later than November 30, 2017.

Dated at Salem, Oregon this 18th day of January, 2008.

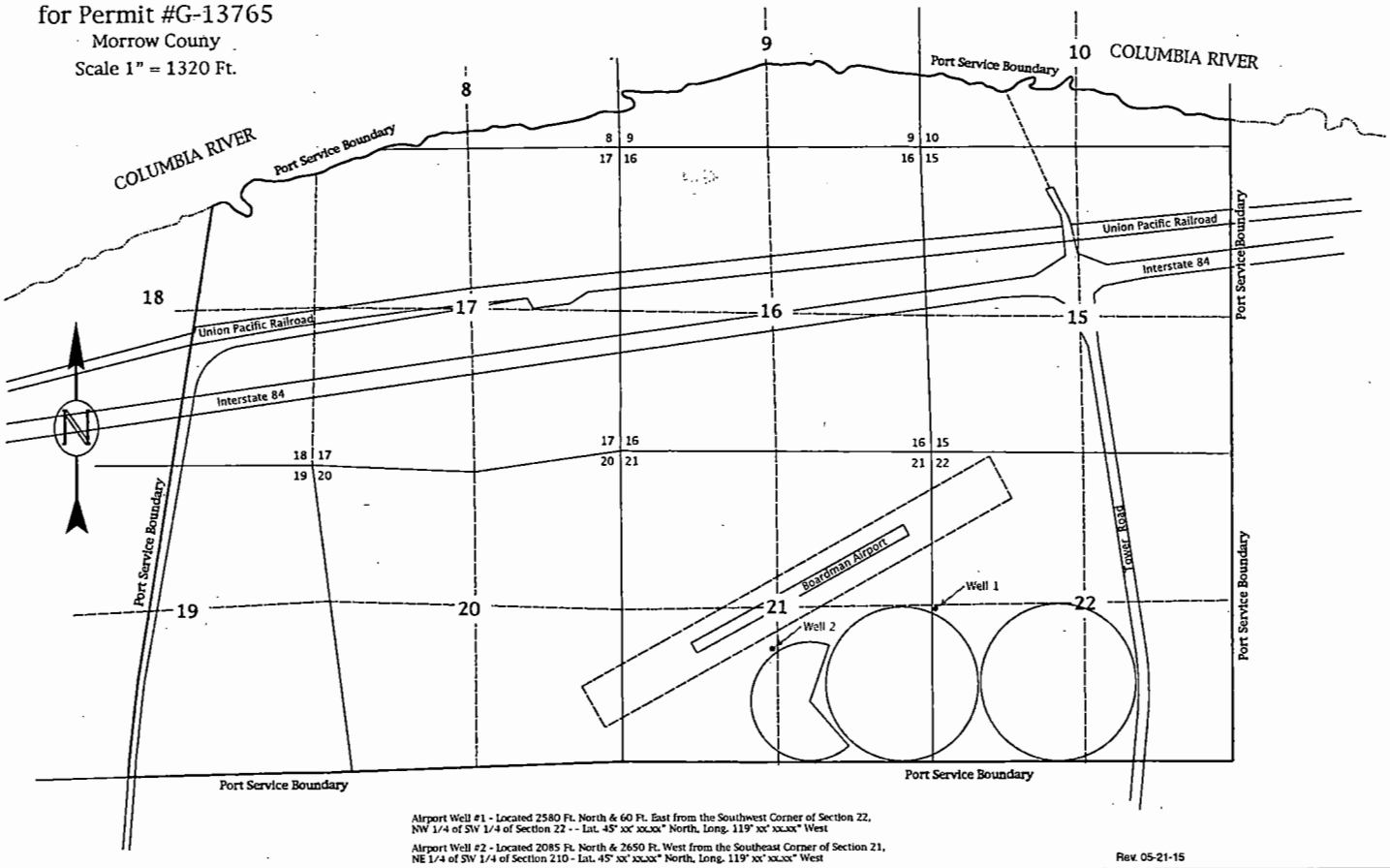
By _____
Phillip C. Ward, Director

Mailing date: FEB 06 2008

Special Order Vol. 74 Page 71

PORT OF MORROW
Water Rights Map for
Airport Municipal Service Area
for Permit #G-13765
Morrow County
Scale 1" = 1320 Ft.

Township 4 North, Range 24 E., W.M.



Airport Well #1 - Located 2580 Ft. North & 60 Ft. East from the Southwest Corner of Section 22, NW 1/4 of SW 1/4 of Section 22 - - Lat. 45° xx' xx.xx" North, Long. 119° xx' xx.xx" West

Airport Well #2 - Located 2085 Ft. North & 2650 Ft. West from the Southeast Corner of Section 21, NE 1/4 of SW 1/4 of Section 210 - Lat. 45° xx' xx.xx" North, Long. 119° xx' xx.xx" West

Rev. 05-21-15

ENGINEERING - LAND SURVEYING - WATER RIGHTS
R. V. McKINNIS ENGINEERING
79980 Prindle Loop Road
Hermiston, Oregon 97838
(541) -567-2017

Oregon Water Resources Department
Water Right Services Division

Application for Extension of Time

In the Matter of the Application for an Extension of Time for Permit G-13765, Water Right Application G-14397, in the name of the Port of Morrow	)))	PROPOSED FINAL ORDER

Permit Information

Application File G-14397/ Permit G-13765

Basin 7 – Umatilla Basin / Watermaster District 5

Date of Priority: October 23, 1996

Authorized Use of Water

Source of Water:	Two Wells in the Columbia River Basin
Purpose or Use:	Municipal use and Irrigation of 301.0 Acres
Maximum Rate:	Not to exceed a maximum cumulative total of 4.96 cubic feet per second (cfs), being 4.96 cfs for municipal use, and 3.76 cfs for irrigation

This Extension of Time request is being processed in accordance with Oregon Administrative Rule Chapter 690, Division 315.

Please read this Proposed Final Order in its entirety as it contains additional conditions not included in the original permit.

This Proposed Final Order applies only to Permit G-13765, water right Application G-14397.

Summary of Proposed Final Order for Extension of Time

The Department proposes to:

- Grant an extension of time to apply water to full beneficial use from October 1, 2012 to October 1, 2040.
- Make the extension of time subject to certain conditions as set forth below.

ACRONYM QUICK REFERENCE

Department – Oregon Department of Water Resources
Port – Port of Morrow
ODFW – Oregon Department of Fish and Wildlife
PFO – Proposed Final Order
WMCP – Water Management and Conservation Plan

Units of Measure
cfs – cubic feet per second

AUTHORITY

Generally, see ORS 537.630 and OAR Chapter 690 Division 315.

ORS 537.630(2) provides in pertinent part that the Oregon Water Resources Department (Department) may, for good cause shown, order and allow an extension of time, for the completion of the well or other means of developing and securing the ground water or for complete application of water to beneficial use. In determining the extension, the department shall give due weight to the considerations described under ORS 539.010 (5) and to whether other governmental requirements relating to the project have significantly delayed completion of construction or perfection of the right.

ORS 539.010(5) provides in pertinent part that the Water Resources Director, for good cause shown, may extend the time within which the full amount of the water appropriated shall be applied to a beneficial use. This statute instructs the Director to consider: the cost of the appropriation and application of the water to a beneficial purpose; the good faith of the appropriator; the market for water or power to be supplied; the present demands therefore; and the income or use that may be required to provide fair and reasonable returns upon the investment.

OAR 690-315-0080 provides in pertinent part that the Department shall make findings to determine if an extension of time for municipal and/or quasi-municipal water use permit holders may be approved to complete construction and/or apply water to full beneficial use. Under specific circumstances, the Department may condition extensions of time for municipal water use permit holders to provide that use of the undeveloped portion of the permit maintains the persistence of listed fish species in the portions of the waterways affected by water use under the permit.

OAR 690-315-0090(3) authorizes the Department, under specific circumstances, to condition an extension of time for municipal and/or quasi-municipal water use permit holders to provide that diversion of water beyond the maximum rate diverted under the permit or previous extension(s) shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan under OAR Chapter 690, Division 86.

FINDINGS OF FACT

Background

1. On December 29, 1997, Permit G-13283 was issued by the Department. This permit was superseded by Permit G-13765 on Novemeber 16, 1999 to correctly describe the maximum rate allowed. Permit G-13765 authorizes the use of up to, but not to exceed a cumulative total of 4.96 cfs of water, being 4.96 cfs for municipal use and 3.76 cfs for irrigation of 301.0 acres from two wells (Airport Wells #1 and #2) within the Columbia River Basin. It specified that complete application of water was to be made on or before October 1, 2002.

2. On April 16, 2004, the Department approved the Port of Morrow's (Port) plan to monitor and report the impact of water use under Permit G-13765.

3. One December 20, 2007, an extension of time was granted for Permit G-13765. The extension request resulted in the completion date for full application of water being extended to October 1, 2012.

4. On January 18, 2008, the Department approved a Water Management and Conservation Plan (Special Order Volume 74, Page 69) authorizing up to 0.46 cfs for municipal use under Permit G-13765.

5. On February 27, 2015, the permit holder, the Port of Morrow (Port), submitted an "Application for Extension of Time", requesting the time to apply water to full beneficial use under the terms and conditions of Permit G-13765 be extended from October 1, 2012 to October 1, 2040.

6. Notification of the Port's Application for Extension of Time for Permit G-13765 was published in the Department's Public Notice dated March 17, 2015. No public comments were received regarding the extension application.

Review Criteria for Municipal Quasi-Municipal Water Use Permits *[OAR 690-315-0080(1)]*

The time limits to complete construction and/or apply water to full beneficial use may be extended if the Department finds that the permit holder has met the requirements set forth under OAR 690-315-0080. This determination shall consider the applicable requirements of ORS 537.230[1], 537.630[2] and/or 539.010(5)[3]

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[1] ORS 537.230 applies to surface water permits only.

[2] ORS 537.630 applies to ground water permits only.

[3] ORS 537.010(5) applies to surface water and ground water permits.

Complete Extension of Time Application *[OAR 690-315-0080(1)(a)]*

7. On February 27, 2015, the Department received a completed Application for Extension of Time and the fee specified in ORS 536.050 from the permit holder.

Start of Construction *[OAR 690-315-0080(1)(b)]*

8. Permit G-13765 was issued prior to June 29, 2005; therefore, the applicant is not required to provide evidence of actions taken to begin actual construction of the project.[4]

Duration of Extension *[OAR 690-315-0080(1)(c) and (1)(d)]*
Under OAR 690-315-0080(1)(c),(d), in order to approve an extension of time for municipal and quasi-municipal water use permits the Department must find that the time requested is reasonable and the applicant can complete the project within the time requested.

9. The remaining work to be accomplished under Permit G-13765 consists of applying water to full beneficial use.

10. As of October 1, 2012, of the 4.96 cfs of water authorized under Permit G-13765, the Port has appropriated 0.46 cfs for municipal use and 3.76 cfs for irrigation. There is an undeveloped portion of 4.5 cfs of water for municipal use, and no undeveloped portion for irrigation use under Permit G-13765 as per OAR 690-315-0010(6)(g).

11. According to the Port's 2007 Water Management and Conservation Plan (WMCP) the only water supply authorized for the Airport Industrial Park (1-1) is under Permit G-13765.

12. According to the Port, their peak water demand for the Airport Industrial Park for municipal use was 0.46 cfs and 3.76 for agricultural use.

13. According to the Port's 2007 WMCP (2-3), The Airport Industrial Park water supply is currently adequate, although an additional groundwater well may be needed to make efficient use of the current water right. Industry could expand especially seasonal business. The site includes 2,700 acres and a 3,070 acre site proposed for expansion is estimated to require an additional 4.96 cfs of water. In addition, the Port of Morrow has the only permitted major northwest motor speedway site, and requires 1.78 cfs.

14. Full development of Permit G-13765 is needed to address the present and future water demand at the Airport Industrial Park.

15. The Port's request for an extension of time until October 1, 2040, to apply water to full

[4] Section 5, Chapter 410, Oregon Laws 2005 and OAR 690-315-0070(3)(d).

beneficial use under the terms and conditions of Permit G-13765 is both reasonable and necessary.

Good Cause *[OAR 690-315-0080(1)(e) and (3)(a-g)and (4)]*
The Department's determination of good cause shall consider the requirements set forth under OAR 690-315-0080(3) and OAR 690-315-0080(4).

Reasonable Diligence and Good Faith of the Appropriator *[OAR 690-315-0080(3)(a),(3)(c) and (4)]*
Reasonable diligence and good faith of the appropriator must be demonstrated during the permit period or prior extension period as a part of evaluating good cause in determining whether or not to grant an extension. In determining the reasonable diligence and good faith of a municipal or quasi-municipal water use permit holder, the Department shall consider activities associated with the development of the right including, but not limited to, the items set forth under OAR 690-315-0080(4) and shall evaluate how well the applicant met the conditions of the permit or conditions of a prior extension period.

16. Between the issuance of Permit G-13283 on December 29, 1997 and the issuance of superseding Permit G-13765 on November 16, 1999, the Port constructed Airport Well #1 (MORR 50471).

17. Work was accomplished (specified in the Application for Extension of Time) during the original development time frame under Permit G-13765. Airport Well #1 (MORR 50471/ alteration log MORR 50531) was retrofitted March, 1999. The Port also installed a meter, pipelines and a pivot system.

18. During the last extension period, being October1, 2002 to October 1, 2012, the Port received approval of the Port's plan to monitor and report the impact of water use under this permit on April 16, 2004. On January 18, 2008, the Department approved the Port's 2007 WMCP (Special Order Volume 74, page 69). Airport Well #1 (MORR 50471/ MORR 50531/MORR 51712) was repaired February 2009.

19. According to the Port, as of February 27, 2015, they have invested approximately $620,000, which is the total cost for complete development of this project.

20. As of October 1, 2012, 4.22 cfs of the 4.96 cfs allowed, being 0.46 cfs for municipal use and 3.76 cfs for irrigation has been appropriated from Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) for beneficial use under the terms of this permit.

21. The Department has considered the Port's compliance with conditions and has identified the following concern: (1) Permit G-13765 includes the condition of "groundwater shall not be produced from the basalt source".

22. A review of the records indicate that Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) is producing water from the basalt source which is an unauthorized source. Neither of the alterations had any effect on the source aquifer for the Well. As, a

result, MORR 50471/MORR 50531/ MORR 51712 still produces from the same source devolved by the Port's Well #1 (MORR 752) and #4 (MORR 1526), which is from the basalt source. Therefore, Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) does not meet the basalt source condition as set forth on Page 3 of Permit G-13765.

Failure to comply with permit conditions constitutes illegal use of water. Beneficial use of water under this permit, therefore, has not yet been demonstrated. In order to legally perfect the use of water under this permit, the permit holder must demonstrate that all conditions of the permit have been satisfied.

The Department has determined that this extension will allow the permit holder to retrofit or abandon and replace Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) , so that production of groundwater is from the authorized source; and obtain the full rate of water allowed under the permit and to apply the water to full beneficial use.

Cost to Appropriate and Apply Water to a Beneficial Purpose *[OAR 690-315-0080(3)(b)]*

23. According to the Port, as of February 27, 2015, they have invested $620,000, which is the total cost for complete development of this project.

Fair Return Upon Investment *[OAR 690-315-0080(3)(e)]*

24. The Port expects to obtain a fair and reasonable return on investment by continuing development of Permit G-13765.

Other Governmental Requirements *[OAR 690-315-0080(3)(f)]*

25. Delays caused by any other governmental requirements in the development of this project have not been identified.

Events which Delayed Development under the Permit *[OAR 690-315-0080(3)(g)]*

26. Delay of development under Permit G-13765 was due, in part, to the size and scope of the municipal water system, which was designed to be phased in over a period of years.

The Market and Present Demands for Water *[OAR 690-315-0080(3)(d)]*

27. As described in Findings 10 through 14 above, the Port has indicated, and the Department finds that the Port must rely exclusively on full development of their Permit G-13765 for the Airport Industrial Park.

28. Given the current water supply situation of the Port, including current and expected demands, there is a market and present demand for the water to be supplied under

G-13765.

29. OAR 690-315-0050(5) provides for extension orders to include, but are not limited to, any condition or provision needed to ensure future diligence, and/or mitigate the effects of subsequent development on competing demands on the resource. The Department determined on July 18, 2016 a need to condition any use of water from Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) authorized under Permit G-13765 with a "Well Condition." This condition, specified under Item 1 of the "Conditions" section of this PFO, was determined to be necessary due to non-compliance with the permit condition that groundwater under Permit G-13765 shall not be produced from the basalt source developed by Port of Morrow wells #1 and # 4. This condition requires the permit holder to provide written documentation that the Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) is not producing water from the basalt source on or before October 1, 2021. If the Department does not receive written documentation on or before October 1, 2021, the Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) will be excluded on the final certificate.

30. OAR 690-315-0090(3) requires the Department to place a condition on this extension of time to provide that appropriation of water beyond 0.46 cfs up to 4.96 cfs under Permit G-13765 for municipal use shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan(s) (WMCP) under OAR Chapter 690, Division 86 which grants access to a greater appropriation of water under the permit consistent with OAR 690-086-0130(7). A "Development Limitation" condition" is specified under Item 2 of the "Conditions" section of this PFO to meet this requirement.

Maintaining the Persistence of Listed Fish Species *[OAR 690-315-0080(1)(f) and (2)]*

The Department's determination regarding maintaining the persistence of listed fish species shall be based on existing data and advice of the Oregon Department of Fish and Wildlife (ODFW). The determination shall be limited to impacts related to stream flow as a result of use of the undeveloped portion of the permit and further limited to where, as a result of use of the undeveloped portion of the permit, ODFW indicates that stream flow would be a limiting factor for the subject listed fish species.

31. On July 18, 2016 the Water Resources Department determined under OAR Chapter 690 Division 9, that use of water under this ground water Permit G-13765 does not have the potential for substantial interference with surface water.

32. Based upon the Department's determination described in Finding 31, the use of the undeveloped portion of Permit G-13765 does not have the potential for substantial interference with surface water, and therefore the persistence of listed fish species will be maintained.

33. This will be the second extension of time issued after June 29, 2005 for this permit, which is a municipal use permit issued before November 2, 1998. A Final Order on the first extension of time after June 29, 2005, was issued on December 20, 2007, thus, this

extension of time request is not subject to fish persistence criteria under 690-315-0080(1)(f) and (2).

CONCLUSIONS OF LAW

1. The Port is entitled to apply for an extension of time to completely apply water to the full beneficial use pursuant to ORS 537.630(2).

2. The Port has submitted a complete extension application form and the fee specified under ORS 536.050(1)(k), as required by OAR 690-315-0080(1)(a).

3. Pursuant to Section 5, Chapter 410, Oregon Laws 2005, the permit holder is not required to demonstrate that actual construction of the project began within one year of the date of issuance of the permit, as otherwise required by OAR 690-315-0080(1)(b).

4. The time requested to apply water to full beneficial use is reasonable, as required by OAR 690-315-0080(1)(c).

5. Full application of water to beneficial use can be completed by October 1, 2040[5] pursuant to OAR 690-315-0080(1)(d).

6. The Department has considered the reasonable diligence and good faith of the appropriator, the cost to appropriate and apply water to a beneficial purpose, the market and present demands for water to be supplied, the financial investment made and the fair return upon the investment, the requirements of other governmental agencies, and unforeseen events over which the water right permit holder had no control, and the Department has determined that the Port has shown good cause for an extension of time to apply the water to full beneficial use pursuant to OAR 690-315-0080(1)(e).

7. As authorized in OAR 690-315-0050(5) and as described in Finding 29 above, the Department has established, as specified in the "Conditions" section of this PFO (Item 1), a groundwater condition that applies under Permit G-13765, The permit holder shall provide written documentation that Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) is not producing water from the basalt source on or before October 1, 2021. If the Department does not receive written documentation on or before October 1, 2021, the Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) will be excluded on the final certificate.

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5 For permits applied for or received on or before July 9, 1987, upon complete development of the permit, you must notify the Department that the work has been completed and either: (1) hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Department, for issuance of a water right certificate; or (2) continue to appropriate water under the water right permit until the Department conducts a survey and issues a water right certificate under ORS 537.625.

8. As required by OAR 690-315-0090(3) and as described in Finding 30, above, and specified under Item 2 of the "Conditions" section of this PFO, the appropriation of water beyond 0.46 cfs up to 4.96 cfs under Permit G-13765 for municipal shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan(s) under OAR Chapter 690, Division 86 that authorizes access to a greater rate of appropriation of water under the permit consistent with OAR 690-086-0130(7).

9. Use of water under this ground water Permit G-13765 does not have the potential for substantial interference with surface water.

10. As described in Finding 33, above, this will be the 2nd extension issued after June 29, 2005 for this permit, which is a municipal use permit issued before November 2, 1998; therefore this extension of time request is not subject to fish persistence criteria under 690-315-0080(1)(f) and (2).

Proposed Order

Based upon the foregoing Findings of Fact and Conclusions of Law, the Department proposes to issue an order to:

Extend the time to apply the water to beneficial use under Permit G-13765 from October 1, 2012 to October 1, 2040.

Subject to the following conditions:

CONDITIONS

1. **Well Condition**

The use of any water under Permit G-13765 is subject to this Groundwater Condition.

The permit holder shall provide written documentation that Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) is not producing water from the basalt source which is common to the Port of Morrow Wells #1 and 2 on or before October 1, 2021. If the Department does not receive written documentation on or before October 1, 2021, the Airport Well #1 (MORR 50471/MORR 50531/ MORR 51712) will be excluded on the final certificate.

2. **Development Limitations**

Appropriation of any water beyond 0.46 cfs up to 4.96 cfs under Permit G-13765 for municipal use shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86 that authorizes access to a greater rate of appropriation of water under the permit

consistent with OAR 690-086-0130(7). The required WMCP shall be submitted to the Department within 3 years of this Final Order. The amount of water used under Permit G-13765 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, Division 86 on file with the Department.

The Development Limitation established in the above paragraph supersedes any prior limitation of the appropriation of water under Permit G-13765 that has been established under a prior WMCP or Extension final order issued by the Department.

The deadline established in the Extension Final Order for submittal of a WMCP shall not relieve a permit holder of any existing or future requirement for submittal of a WMCP at an earlier date as established through other orders of the Department. A WMCP submitted to meet the requirements of the final order may also meet the WMCP submittal requirements of other Department orders.

DATED: September 13, 2016

Dwight French
Water Right Services Division Administrator

If you have any questions, please check the information box on the last page for the appropriate names and phone numbers.

Proposed Final Order Hearing Rights

1. Under the provisions of OAR 690-315-0100(1) and 690-315-0060, the applicant or any other person adversely affected or aggrieved by the proposed final order may submit a written protest to the proposed final order. The written protest must be received by the Water Resources Department no later than **October 28, 2016,** being 45 days from the date of publication of the proposed final order in the Department's weekly notice.

2. A written protest shall include:
   a. The name, address and telephone number of the petitioner;
   b. A description of the petitioner's interest in the proposed final order and if the protestant claims to represent the public interest, a precise statement of the public interest represented;
   c. A detailed description of how the action proposed in the proposed final order would adversely affect or aggrieve the petitioner's interest;
   d. A detailed description of how the proposed final order is in error or deficient and

how to correct the alleged error or deficiency;

e. Any citation of legal authority supporting the petitioner, if known;

f. Proof of service of the protest upon the water right permit holder, if petitioner is other than the water right permit holder; and

g. The applicant or non-applicant protest fee required under ORS 536.050.

3. Within 60 days after the close of the period for requesting a contested case hearing, the Director shall:

   a. Issue a final order on the extension request; or

   b. Schedule a contested case hearing if a protest has been submitted, and:

      1) Upon review of the issues, the Director finds there are significant disputes related to the proposed agency action; or

      2) The applicant submits a written request for a contested case hearing within 30 days after the close of the period for submitting protests.

NOTICE TO ACTIVE DUTY SERVICEMEMBERS: Active Duty Service members have a right to stay these proceedings under federal Service members Civil Relief Act. For more information contact the Oregon State Bar at 800-452-8260, the Oregon Military Department at 800-452-7500 or the nearest United States Armed Forces Legal Assistance Office through http://legalassistance.law.of.mil

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- If you have any questions about statements contained in this document, please contact Machelle A Bamberger at 503-986-0802.
- If you have questions about how to file a protest or if you have previously filed a protest and you want to know the status, please contact Patricia McCarty at 503-986-0820.
- If you have any questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at 503-986-0801.
- Address any correspondence to: Water Right Services Division
  725 Summer St NE, Suite A
- Fax: 503-986-0901 Salem, OR 97301-1266

Mailing List for Extension PFO Copies

Copies Mailed
By: SP (SUPPORT STAFF)
on: 9-13-16 (DATE)

PFO Date: September 13, 2016

Application G-14397
Permit G-13765

Original mailed to Applicant:

Port of Morrow
Attn: Ron McKinnis
PO Box 200
Boardman, OR 97818

Copies sent to:

1. WRD - App. File G- 14397/ Permit G-13765

Fee paid as specified under ORS 536.050 to receive copy:

2. None

Receiving electronic copy via e-mail (10 AM Tuesday of signature date)

3. WRD - Watermaster District 5 – Greg Silbernagel

4. WRD- Kerri Cope, Water Supply and Conservation Services
   Done by CC *Date* 9/12/16

CASEWORKER: MAB

Permit Extension Ground Water Review

Date: MAY 27, 2015

To: Ivan Gall, Ground Water Section Manager

From: Machelle Bamberger, Permit Extension Review

Subject: Ground Water Review for File G- 14397 / Permit G- 13765

(Date permit issued: 1997 *)*

The above referenced permit is currently being reviewed for an extension of time. Before I can determine whether or not an extension of time should be granted, a Ground Water review for this file is necessary. Special designations affecting this permit are as follows:

NOTE: *Original Division 9 review completed by:* _____

☐ Located within a Ground Water Administrative Area (Critical, Limited, etc.) _____

☐ 5-Year Limited Permit

☒ Other: Permit condition for well (Airport well 1) (MORR 50471) Later Retrofited (MORR 50531) does the retrofit meet →

For Ground Water / Hydrology Staff Use:

Please review as per checked boxes:

☐ Does the ground water source under this permit have the potential for substantial interference with surface water? Yes or No (please circle one)
*[**NOTE:** Applies **ONLY** to **Municipal permits issued before November 2, 1998** - see OAR 690-315-0080(1) & (2)]*

- If the ground water source is determined to have potential for substantial, please estimate the impacts that would result from use of the undeveloped portion of the ground water permit.
- The undeveloped portion of this permit = _____ cfs

☐ Are there any ground water special use designations established since permit issuance relevant to this extension of time that the Department should consider? *[see OAR 690-315-0040(4)(b) or (OAR 690-315-0080(5)(b)]* _____

_____

_____

*[**NOTE:** Does **NOT** apply to **Quasi- Municipal** or **Municipal permits issued before November 2, 1998** - see OAR 690-315-0080(5)]*

☒ Should any additional conditions be added to this permit to mitigate the effects of the subsequent development on competing demands on the resource? For example: Should the Department establish a reference level for water level declines? *[see OAR 690-315-0050(5)(b)]*

_____

verify retro fit meets or doesn't meet permit conditions.

permit condition " ground water shall not be produced from the basalt source developed by Port of Morrow wells ~~#1~~ & #4 (MORR 752 and MORR 1526. ?

OREGON WATER RESOURCES DEPARTMENT
GROUND WATER REVIEW: MUNICIPAL PERMIT EXTENSION OF TIME

Date: July 18, 2016

To: Water Rights Section

From: J. Hackett, Staff Hydrogeologist

Extension Review for File # G- 14397 **/ Permit # G-** 13765

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The undeveloped portion of this permit has been evaluated under the Department's 690-09 rules and **Was** ☐ / **was not** ☒ found to have the Potential for Substantial Interference with surface water. The evaluation was conducted pursuant to OAR 690-315. Forward files found to have the potential for substantial interference to Oregon Department of Fish and Wildlife.

Undeveloped Portion of Permit in CFS: 4.5

Estimate of impact and location of evaluation (River mile or PLS)

Stream depletion occurs over a stream reach. Depletion can be variable due to the presence or absence of confining layers within the aquifer. The majority of the impact will extend over a reach twice the distance between the well and the stream.

Stream: _____ **Location** _____

Days of Pumping

30	60	90	120	150	180	210	240	270	300	330	360

Interference in CFS

Stream: _____ **Location** _____

Days of Pumping

30	60	90	120	150	180	210	240	270	300	330	360

Interference in CFS

Stream: _____ **Location** _____

Days of Pumping

30	60	90	120	150	180	210	240	270	300	330	360

Interference in CFS

File G-14397 continued Date July 18, 2016

Municipal/Quasi-Municipal Extension of Time Review

TO: Water Rights Section Date **July 18, 2016**

FROM: Ground Water/Hydrology Section **J. Hackett**
Reviewer's Name

SUBJECT: File G-**14397, (Permit G-13765)** Supersedes review of
Date of Review(s)

Criteria for Department Review of Extension Applications for Municipal and Quasi-Municipal Water Use Permits (Ground Water)

OAR 690-315-0080 (2)(c): *For ground water permits submitted to ODFW under this rule* (permits determined to have the potential for substantial interference), *the Department shall provide to ODFW and the applicant the Department's estimate of surface water impacts that would result from the use of the undeveloped portion of the ground water permit.* **This review is based upon available information and agency policies in place at the time of evaluation.**

A. GENERAL INFORMATION: Applicant's Name: **Port of Morrow** County: **Morrow**

Applicant(s) seek(s) **4.5** cfs from **1** well(s) in the **Umatilla** Basin,

subbasin Quad Map: **Crow Butte**

Proposed use: **Municipal and Irrigation** Seasonality: **Year-Round and March 1 – October 31**

Well and aquifer data (**attach and number logs for existing wells; mark proposed wells as such under logid**):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	**MORR 50471**	**1**	**CRB**	**4.5**	**4N/24E-22 SW-NW**	**2580' N, 60' E fr SW cor S 22**
2						
3						
4						
5						

* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	**378**	**85**	**63.34**	**3/4/2011**	**948**	**0-445**	**+2-435**	**600-942**	**420-440, 660-680**	**2000**		**A**

Use data from application for proposed wells.

Comments: **See discussion regarding existing Permit Conditions in Extension Review Remarks section on page 4.**

☐ **Well(s) #** _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction.
Name of administrative area: _____
Comments: _____

File G-14397 continued Date July 18, 2016

GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

690-09-040 (1): Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	**CRB**	☒	☐
		☐	☐
		☐	☐
		☐	☐
		☐	☐

Basis for aquifer confinement evaluation: The Columbia River basalt aquifers are confined by the dense flow interiors that restrict vertical movement of groundwater. Nearby CRBG well logs report static water levels above the water-bearing zone, indicating a confined aquifer or series of aquifers.

690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected? YES	NO	ASSUMED	Potential for Subst. Interfer. Assumed? YES	NO
		n/a				☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐

Basis for aquifer hydraulic connection evaluation: The proposed well is not located within 1 mile of any perennial streams. Additionally, the well produces from water-bearing zones that are several hundred feet below the elevation of nearby streams greater than 1 mile away.

Water Availability Basin the well(s) are located within:

690-09-040 (4): Evaluation of stream impacts for each well that has been determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% *natural* flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked ☒ box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐

File G-14397 continued Date July 18, 2016

690-09-040 (4): Evaluation of stream impacts by total appropriation for all wells determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. **Complete only if Q is distributed among wells.** Otherwise same evaluation and limitations apply as in C3a above.

	SW #		Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐

Comments:

690-09-040 (5): Estimated impacts on **hydraulically connected surface water sources greater than one mile** as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells

Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													

Distributed Wells

Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Total Interf. CFS													

Comments:

Extension Review Remarks / Conditions: Permit G-13765 (application G-14397) contains a condition that states:
"Under this permit, groundwater shall not be produced from the basalt source developed by Port of Morrow wells #1 and #4, identified in Department records as MORR 752 and MORR 1526."
Kennedy/Jenks Consultants addressed this condition in a 2005 hydrogeologic report for the Port of Morrow entitled "Hydrogeologic Evaluation of the Port of Morrow Well MORR 50471 (Airport Well)". The report concluded that MORR 50471 produces from the same source as Port of Morrow wells #1 (MORR 752) and #4 (MORR 1526). Water-bearing zones in MORR 50471 were identified in 1) the base of Umatilla flow / top of Priest Rapids flow and 2) within interflow zones in the Frenchman Springs Member. Water-bearing zones occur in MORR 752 at the base of Priest Rapids flow / top of Frenchman Springs Member, and occur in MORR 1526 within interflow zones of the Frenchman Springs Member.

MORR 50471was altered first in 1999 (alteration log MORR 50531) and again in 2009 (MORR 51712). Neither of these alterations had any effect on the source aquifer for the well. **As a result, MORR 50471 still produces from the same source developed by Port of Morrow wells #1 (MORR 752) and #4 (MORR 1526).**

Attach estimates of surface water impacts to this review

References Used:

Kennedy/Jenks Consultants, 2005, Hydrogeologic Evaluation of the Port of Morrow Well MORR 50471 (Airport Well)", 20 p.

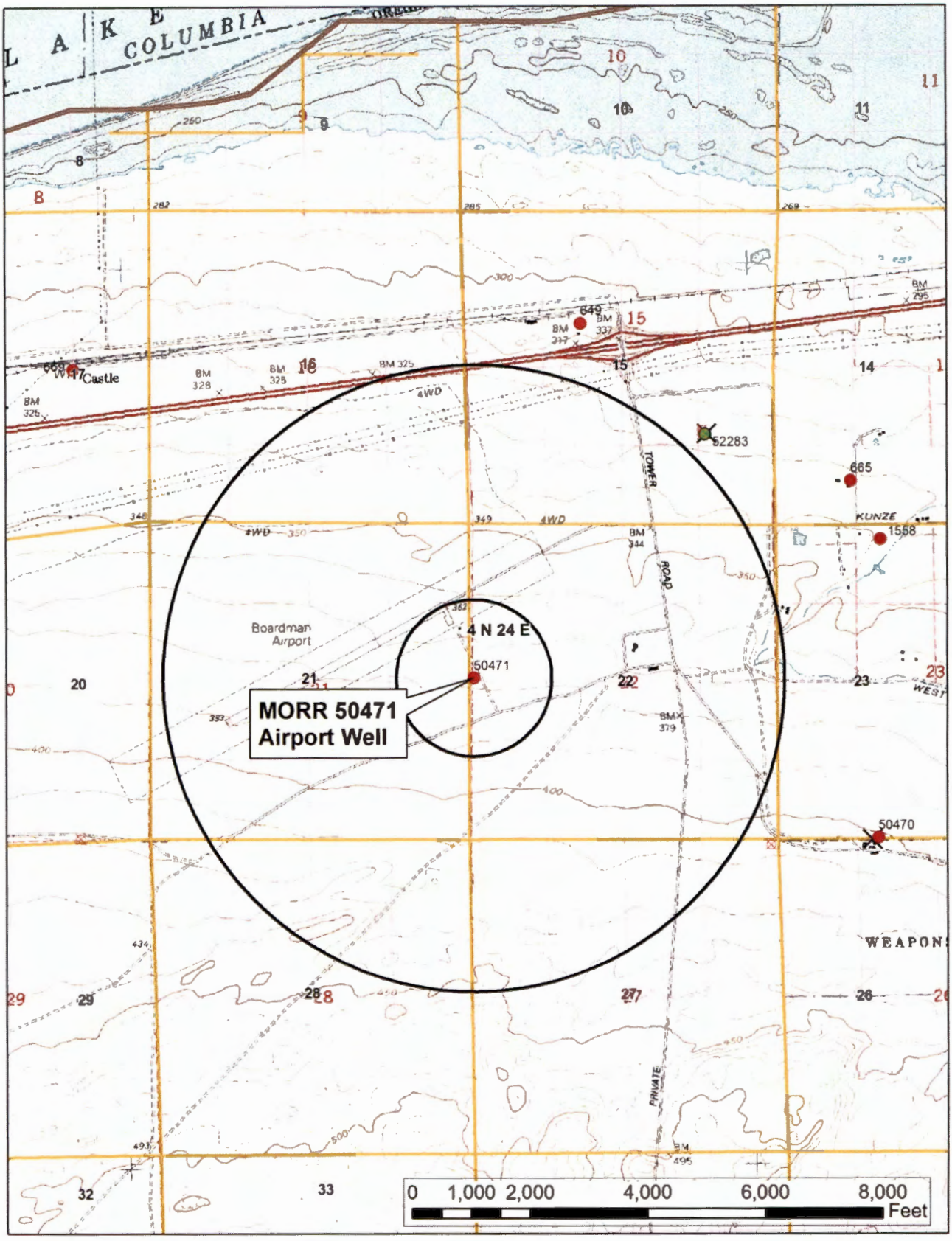
Madin, I. P. and R. P. Geitgey, 2007. Preliminary Geologic Map of the Umatilla Basin, Morrow and Umatilla Counties, Oregon. Open-File Report O-07-17. State of Oregon – Dept. of Geology And Mineral Industries.

File G-14397 continued Date July 18, 2016

Well Location Map

G-14397, Port of Morrow

1:24,000 scale



REECE Ann L

From: Ron McKinnis <RonM@portofmorrow.com>
Sent: Tuesday, May 26, 2015 4:35 PM
To: REECE Ann L
Subject: RE: Permit G-13765

Ann,
Thanks for the feedback! If the PFO includes the ability to retrofit the existing well to meet the permit conditions, I think that the 5 year would work.
You'll be one of the first to know if I find anything that demonstrates we're already there.
Ron

From: REECE Ann L [mailto:ann.l.reece@state.or.us]
Sent: Tuesday, May 26, 2015 4:18 PM
To: REECE Ann L; Ron McKinnis
Cc: BAMBERGER Machelle A
Subject: RE: Permit G-13765

Ron,

It is good to know that is what would work for the Port. My only thought is that because the Port may have been using the well from an unauthorized aquifer for more than 10 years, a five year period might be considered maximum. The file is being routed to our groundwater section for review of the issue. In any event we are a ways out from bringing the question before management, and my plan is not to have any surprises for the Port when the PFO goes out.

And of course any information you might be able to find demonstrating that the permit condition has been met would be even better!

Best Regards,

Ann Reece
- -
Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

From: Ron McKinnis [mailto:RonM@portofmorrow.com]
Sent: Tuesday, May 26, 2015 2:40 PM
To: REECE Ann L
Cc: BAMBERGER Machelle A
Subject: RE: Permit G-13765

Ann,
On the time line for needing to retrofit or replace the existing well - - - is 5 to 10 years seem reasonable to the dept.?
I have no idea what kind of time frame you and Machelle were contemplating - so let me know your thoughts.
I'm still trying to get more feedback from Terry Tolan on the issue of the existing well also. Should have that done in the next few weeks too.

Thanks!
Ron

From: REECE Ann L [mailto:ann.l.reece@state.or.us]
Sent: Tuesday, May 26, 2015 1:14 PM
To: Ron McKinnis
Cc: BAMBERGER Machelle A
Subject: RE: Permit G-13765

Ron,
Our current information is that the Airport Industrial Park includes 2,700 acres, and a 1000 acre site proposed for expansion. Does this new map boundary include 3,700 acres?

Best Regards,

Ann Reece

Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

From: Ron McKinnis [mailto:RonM@portofmorrow.com]
Sent: Tuesday, May 26, 2015 9:21 AM
To: REECE Ann L
Subject: RE: Permit G-13765

Ann,
It did not go out last Friday, it's set to leave today but I have included the electronic copy.
Thanks!
Ron

From: REECE Ann L [mailto:ann.l.reece@state.or.us]
Sent: Tuesday, May 26, 2015 9:04 AM
To: Ron McKinnis
Subject: RE: Permit G-13765

Ron,

Did this map get sent in? I haven't seen it yet.

Best Regards,

Ann Reece

Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

From: Ron McKinnis [mailto:RonM@portofmorrow.com]
Sent: Tuesday, May 19, 2015 4:20 PM
To: REECE Ann L
Subject: Permit G-13765

Ann,
I know that this permit is going through an extension process at this time, can we (Port) modify our Port Municipal Service Boundary during this process?
Do I merely need to submit a new Map of the Proposed Service Boundary to satisfy the change?
If you can't help me, can you direct me to the right person?
Thanks for your help!
Ron

Ronald V. McKinnis PE, PLUS, WRE
Port of Morrow Engineer,
PH. 541-481-7678
Fax 541-481-2679
ronm@portofmorrow.com

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-14397

Final Order
Extension of Time for Permit Number G-13765

Appeal Rights

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

Application History

Permit G-13283 was granted by the Department on December 29, 1997. This permit was superseded by Permit G-13765 on November 16, 1999 to correctly describe the maximum rate allowed. The permit called for complete application of water to beneficial use by October 1, 2002. On April 4, 2003, Port of Morrow submitted an application to the Department for an extension of time for Permit G-13765. In accordance with OAR 690-315-0050(2), on October 30, 2007, the Department issued a Proposed Final Order proposing to extend the time to fully apply water to beneficial use to October 1, 2012. The protest period closed December 14, 2007, in accordance with OAR 690-315-0060(1). No protest was filed.

At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to the following conditions:

CONDITIONS

1. **Development Limitations**

   Diversion of any water beyond 0.74 cfs for municipal use under Permit G-13765 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86. The required WMCP shall be submitted to the Department within 3 years of an approved extension application. Use of water under Permit G-13765 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, Division 86 on file with the Department.

The deadline established in this PFO for submittal of a WMCP shall not relieve a permit holder of any existing or future requirement for submittal of a WMCP at an earlier date as established through other orders of the Department. A WMCP submitted to meet the requirements of this order may also meet the WMCP submittal requirements of other Department orders

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0080(3).

Order

The extension of time for Application G-14397, Permit G-13765, therefore, is approved subject to conditions contained herein. The deadline for applying water to full beneficial use is extended to October 1, 2012.

DATED: December 20, 2007

Dwight French, Administrator of
Water Rights and Adjudications
for
Phillip C. Ward, Director

If you have any questions about statements contained in this document, please contact Ann L. Reece at (503) 986-0827.

If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900.

Oregon Water Resources Department
Water Rights Division

Application for Extension of Time

In the Matter of the Application for an Extension of Time for Permit G-13765, Water Right Application G-14397, in the name of Port of Morrow	)))	PROPOSED FINAL ORDER

Permit Information

Application File G-14397/ Permit G-13765
Basin 7 – Umatilla Basin / Watermaster District 7
Date of Priority: October 23, 1996

Authorized Use of Water

Source of Water:	Two Wells in the Columbia River Basin
Purpose or Use:	Municipal Use and Irrigation of 301.0 Acres
Maximum Rate:	Not to Exceed a Maximum Cumulative Total of 4.96 Cubic Feet per Second (cfs), Being 4.96 cfs for Municipal Use and 3.76 cfs for Irrigation

This Extension of Time request is being processed in accordance with Oregon Administrative Rule Chapter 690, Division 315.

Please read this Proposed Final Order in its entirety as it contains additional conditions not included in the original permit.

This Proposed Final Order applies only to Permit G-13765, water right Application G-14397. A copy of Permit G-13765 is enclosed as Attachment 1.

Summary of Proposed Final Order for Extension of Time

The Department proposes to:

- grant an extension of time to apply water to full beneficial use from October 1, 2002 to October 1, 2012; and
- make the extension of time subject to certain conditions as set forth below.

ACRONYM QUICK REFERENCE

Department – Oregon Department of Water Resources
ODFW – Oregon Department of Fish and Wildlife
Port – Port of Morrow
PFO – Proposed Final Order
WMCP – Water Management and Conservation Plan

Units of Measure
cfs – cubic feet per second

AUTHORITY

Generally, see ORS 537.630 and OAR Chapter 690 Division 315.

ORS 537.630(2) provides in pertinent part that the Oregon Water Resources Department (Department) may, for good cause shown, shall order and allow an extension of time, for the completion of the well or other means of developing and securing the ground water or for complete application of water to beneficial use. In determining the extension, the department shall give due weight to the considerations described under ORS 539.010 (5) and to whether other governmental requirements relating to the project have significantly delayed completion of construction or perfection of the right.

ORS 539.010(5) provides in pertinent part that the Water Resources Director, for good cause shown, may extend the time within which the full amount of the water appropriated shall be applied to a beneficial use. This statute instructs the Director to consider: the cost of the appropriation and application of the water to a beneficial purpose; the good faith of the appropriator; the market for water or power to be supplied; the present demands therefore; and the income or use that may be required to provide fair and reasonable returns upon the investment.

OAR 690-315-0080 provides in pertinent part that the Department shall make findings to determine if an extension of time for municipal and/or quasi-municipal water use permit holders may be approved to complete construction and/or apply water to full beneficial use. Under specific circumstances, the Department may condition extensions of time for municipal water use permit holders to provide that use of the undeveloped portion of the permit maintains the persistence of listed fish species in the portions of the waterways affected by water use under the permit.

OAR 690-315-0090(3) authorizes the Department, under specific circumstances, to condition an extension of time for municipal and/or quasi-municipal water use permit holders to provide that diversion of water beyond the maximum rate diverted under the permit or previous extension(s) shall

only be authorized upon issuance of a final order approving a Water Management and Conservation Plan under OAR Chapter 690, Division 86.

FINDINGS OF FACT

Background

1. Permit G-13283 was granted by the Department on December 29, 1997. This permit was superceeded by Permit G-13765 on November 16, 1999 to correctly describe the maximum rate allowed. Permit G-13765 authorizes the use of up to, but not to exceed a cumulative total of 4.96 cfs of water, being 4.96 cfs for municipal use and 3.76 cfs for irrigation of 301.0 acres from two wells (Airport Wells 1 and 2) within the Columbia River Basin. It specified that complete application of water was to be made on or before October 1, 2002.

2. Due to an ongoing permit extension rulemaking, the Department placed all pending Applications for Extension of Time for municipal and quasi-municipal permits on hold and did not require municipal and quasi-municipal water use permit holders to submit Applications for Extension of Time until the new rules were adopted.

3. Municipal and quasi-municipal water use permit extension rules OAR 690-315-0070 through 690-315-0100 became effective on November 1, 2002, were amended, filed with the Secretary of State, and became effective on November 22, 2005.

4. The permit holder, the Port of Morrow (Port), submitted an "Application for Extension of Time" to the Department on April 4, 2003, requesting the time to apply water to full beneficial use under the terms of Permit G-13765 be extended from October 1, 2002 to October 1, 2012. This is the first extension of time request for Permit G-13765.

5. Notification of the Port's Application for Extension of Time for Permit G-13765 was published in the Department's Public Notice dated April 8, 2003. No public comments were received regarding the extension application.

6. On April 15, 2004, January 26, 2007, and February 7, 2007, the Port submitted additional information to supplement their Application for Extension of Time.

Review Criteria for Municipal Quasi-Municipal Water Use Permits *[OAR 690-315-0080(1)]*
The time limits to complete construction and/or apply water to full beneficial use may be extended if the Department finds that the permit holder has met the requirements set forth under OAR 690-315-0080. This determination shall consider the applicable requirements of ORS 537.230[1], 537.248[2], 537.630[3] and/or 539.010(5)[4]

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[1] ORS 537.230 applies to surface water permits only.

[2] ORS 537.248 applies to reservoir permits only.

[3] ORS 537.630 applies to ground water permits only.

[4] ORS 537.010(5) applies to surface water and ground water permits.

Complete Extension of Time Application *[OAR 690-315-0080(1)(a)]*

7. On April 4, 2003, the Department received a completed Application for Extension of Time and the fee required by ORS 536.050 from the permit holder.

Start of Construction *[OAR 690-315-0080(1)(b)]*

8. Ground water permits held by municipal corporations for municipal purposes are not subject to the requirement to begin actual construction work within one year from the date of approval of the application.[5]

Duration of Extension *[OAR 690-315-0080(1)(c) and (1)(d)]*

Under OAR 690-315-0080(1)(c),(d), in order to approve an extension of time for municipal and quasi-municipal water use permits the Department must find that the time requested is reasonable and the applicant can complete the project within the time requested.

9. The remaining work to be accomplished under Permit G-13765 consists of completing construction of the water system including completing the retrofit of Airport Well 1 to comply with a permit condition requiring that the aquifer developed by the Airport Well 1 may not be the same as that of the Port of Morrow's Well 1 or 4, drilling Airport Well 2, and applying water to full beneficial use. 2 well logs on Brown u

10. As of April 4, 2003, of the 4.96 cfs of water authorized under Permit G-13765, the permit holder has appropriated 0.74 cfs for municipal use and 3.76 cfs for irrigation. Under Permit G-13765, there is an undeveloped portion of 4.22 cfs of water for municipal use, and no undeveloped portion for irrigation use.

11. According to the Port's 2007 Draft Water Management and Conservation Plan (WMCP) the Port's water supply system services both industrial and commercial users and a small domestic population (Page 1-3). The service areas for the Port consist of Boardman Industrial Park, Airport Industrial Park and South Morrow Industrial Park (near Heppner). According to the Port, due to the remoteness of the Airport Industrial Park compared to the other two industrial parks, only water authorized under Permit G-13765 is available to supply water within the Airport Industrial Park.

12. According to the Port, their current peak water demands at the Airport Industrial Park are 3.76 cfs of water for agricultural needs, and 0.44 cfs for industrial needs.

13. The Port projects, based on the growth rate at the Boardman Industrial Park, the peak day

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[5] Section 5, chapter 410, Oregon Laws 2005, provides:

Sec. 5. (2) The amendments to ORS 537.230 and 537.630 by sections 1 and 2 of this 2005 Act apply to requests for extensions of time to complete construction or to perfect a water right made before, on or after the effective date of this 2005 Act, whether or not construction has commenced under a permit prior to the request.

(3) All final orders by the department that resulted in the issuance of a water right permit, the issuance of a water right certificate or the approval of an extension of time to complete construction or to perfect a water right for a municipal use that were issued before the effective date of this 2005 Act are not subject to challenge in an administrative or judicial proceeding with respect to the requirement to commence and complete construction within a specified period of time. [2005 c.410 §5]

demand at the Airport Industrial Park will reach 4.49 cfs of water by the year 2015. However, based on potential growth specific to the Airport Industrial Park, the Port anticipates that the peak demand could exceed the available water supply at Airport Industrial Park by the year 2012.

14. Potential growth at the Airport Industrial Park includes the development of a "Speedway Project" which has the potential for full development of Permit G-13765. In addition, there are approximately 2700 acres available for development, of which 850 acres are designated for the immediate needs of the airport and airport related activities which have been identified in the Port's 25 year Airport Master Plan (2002). Furthermore, a new 1,500 acre site proposed for the Airport Industrial Park is estimated to require 4.96 cfs of water.

15. Full development of Permit G-13765 is needed to address the present and future water demand of the Port.

16. The Port's request for an extension of time until October 1, 2012 to apply water to full beneficial use under the terms of Permit G-13765 is both reasonable and necessary.

Good Cause *[OAR 690-315-0080(1)(e) and (3)(a-g)and (4)]*
The Department's determination of good cause shall consider the requirements set forth under OAR 690-315-0080(3).

Reasonable Diligence and Good Faith of the Appropriator *[OAR 690-315-0080(3)(a),(3)(c) and (4)]*
Reasonable diligence and good faith of the appropriator must be demonstrated during the permit period or prior extension period as a part of evaluating good cause in determining whether or not to grant an extension. In determining the reasonable diligence and good faith of a municipal or quasi-municipal water use permit holder, the Department shall consider activities associated with the development of the right including, but not limited to, the items set forth under OAR 690-315-0080(4) and shall evaluate how well the applicant met the conditions of the permit or conditions of a prior extension period.

17. Work was accomplished (specified in the Application for Extension of Time) during the original development time frame under Permit G-13765.

18. As of April 4, 2003, the permit holder has invested $500,000, which is 33 percent of the total projected cost for complete development of this project. The Port anticipates an additional $1,000,000 investment is needed for the completion of this project.

19. Since the issuance of Permit G-13283 on December 29, 1997 and the issuance of superceeing Permit G-13765 on November 16, 1999, of the 4.96 cfs of water allowed 0.74 cfs for municipal use and 3.76 cfs for irrigation has been appropriated for beneficial use under the terms of this permit.

20. The Department has considered the Port's compliance with conditions, and did not identify any concerns.

Financial Investment and Cost to Appropriate and Apply Water to a Beneficial Purpose *[OAR 690-315-0080(3)(b)]*

21. As of April 4, 2003, the permit holder has invested $500,000, which is 33 percent of the total projected cost for complete development of this project. The Port anticipates an additional $1,000,000 investment is needed for the completion of this project:

The Market and Present Demands for Water *[OAR 690-315-0080(3)(d)]*

22. As described in Findings 10 through 15 above, the Port has indicated, and the Department finds that the Port must rely exclusively on its water right Permit G-13765 to meet current and expected demands at the Airport Industrial Park.

23. Given the current water supply situation of the Port at the Airport Industrial Park, as well as current and expected demands, there is a market and present demand for the water to be supplied under Permit G-12370.

24. OAR 690-315-0090(3) requires the Department to place a condition on this extension of time to provide the diversion of water beyond 0.74 cfs for municipal use under Permit G-13765 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86. A "Development Limitation" condition" is specified under Item 1 of the "Conditions" section of this PFO to meet this requirement.

Fair Return Upon Investment *[OAR 690-315-0080(3)(e)]*

25. Use and income from the permitted water development project would result in reasonable returns upon the investment made in the project to date.

Other Governmental Requirements *[OAR 690-315-0080(3)(f)]*

26. Delay caused by other governmental requirements in the development of this project include federal, state and county agencies involved in pursuing a zoning amendment to the land use allowed in the Airport Industrial Park for the permitting of a major motor speedway facility.

Events which Delayed Development under the Permit *[OAR 690-315-0080(3)(g)]*

27. Delay of development under Permit G-13765 was due, in part, to the size and scope of the municipal water system, which was designed to be phased in over a period of years, financial constraints, and the need to retrofit Airport Well 1 to be able to comply with a permit condition.

Maintaining the Persistence of Listed Fish Species *[OAR 690-315-0080(1)(f) and (2)]*
The Department's determination regarding maintaining the persistence of listed fish species shall be based on existing data and advice of the Oregon Department of Fish and Wildlife (ODFW). The determination shall be limited to impacts related to stream flow as a result of use of the undeveloped portion of the permit and further limited to where, as a result of use of the undeveloped portion of the permit, ODFW indicates that stream flow would be a limiting factor for the subject listed fish species.

28. On January 24, 1997, the Water Resources Department determined under OAR Chapter 690 Division 9, that use of water under this ground water Permit G-13765 does not have the potential for substantial interference with surface water.

29. Based upon the Department's determination described in Finding 28, the use of the undeveloped portion of Permit G-13765 does not have the potential for substantial interference with surface water, and therefore the persistence of listed fish species will be maintained.

CONCLUSIONS OF LAW

1. The Port is entitled to apply for an extension of time to complete construction and/or completely apply water to the full beneficial use pursuant to ORS 537.630(2).

2. The Port has submitted a complete extension application form and the fee specified under ORS 536.050(1)(k), as required by OAR 690-315-0080(1)(a).

3. Pursuant to Section 5, Chapter 410, Oregon Laws 2005, the permit holder is not required to demonstrate that actual construction of the project began within one year of the date of issuance of the permit, as otherwise required by OAR 690-315-0080(1)(b).

4. The time requested to apply water to full beneficial use is reasonable, as required by OAR 690-315-0080(1)(c).

5. Full application of water to beneficial use can be completed by October 1, 2012[6] pursuant to OAR 690-315-0080(1)(d).

6. The Department has considered the reasonable diligence and good faith of the appropriator, the cost to appropriate and apply water to a beneficial purpose, the market and present demands for water to be supplied, the financial investment made and the fair return upon the investment, the requirements of other governmental agencies, and unforeseen events over which the water right permit holder had no control, and the Department has determined that the Port has shown good cause for an extension of time to apply the water to full beneficial use pursuant to OAR 690-315-0080(1)(e).

8. As required by OAR 690-315-0090(3) and as described in Finding 24 above and specified under Item 1 of the "Conditions" section of this PFO, the diversion of water beyond 0.74 cfs for municipal use under Permit G-13765 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan under OAR Chapter 690, Division 86.

9. In accordance with OAR 690-315-0080(1)(f), and as described in Findings 28 and 29 above, the persistence of listed fish species will be maintained in the portions of the waterways affected by water use under this municipal use permit.

Proposed Order

Based upon the foregoing Findings of Fact and Conclusions of Law, the Department proposes to issue an order to:

> extend the time to apply the water to beneficial use under Permit G-13765 from October 1, 2002 to October 1, 2012.

Subject to the following conditions:

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[6]Pursuant to ORS 537.630(4), upon the completion of beneficial use of water allowed under the permit, the permit holder shall hire a certified water rights examiner to survey the appropriation. Within one year after the complete application of water to a beneficial use (or by the date allowed for the complete application of water to a beneficial use), the permit holder shall submit a map of the survey and the claim of beneficial use.

CONDITIONS

1. **Development Limitations**

Diversion of any water beyond 0.74 cfs for municipal use under Permit G-13765 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86. The required WMCP shall be submitted to the Department within 3 years of an approved extension of time application. Use of water under Permit G-13765 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, Division 86 that is on file with the Department.

The deadline established in this PFO for submittal of a WMCP shall not relieve a permit holder of any existing or future requirement for submittal of a WMCP at an earlier date as established through other orders of the Department. A WMCP submitted to meet the requirements of this order may also meet the WMCP submittal requirements of other Department orders.

DATED: October 30, 2007

If you have any questions, please check the information box on the last page for the appropriate names and phone numbers.

Dwight French
Administrator
Water Rights and Adjudications Division

Proposed Final Order Hearing Rights

1. Under the provisions of OAR 690-315-0100(1) and 690-315-0060, the applicant or any other person adversely affected or aggrieved by the proposed final order may protest and request a contested case hearing on the proposed final order. Your request for contested case hearing must be in writing and must be received by the Water Resources Department no later than **December 14, 2007** being 45 days from the date of publication of the proposed final order in the Department's weekly public notice.

2. A written request for contested case hearing shall include:
   a. The name, address and telephone number of the petitioner;
   b. A description of the petitioner's interest in the proposed final order and if the protestant claims to represent the public interest, a precise statement of the public interest represented;
   c. A detailed description of how the action proposed in the proposed final order would adversely affect or aggrieve the petitioner's interest;
   d. A detailed description of how the final order is in error or deficient and how to correct the alleged error or deficiency;
   e. Any citation of legal authority supporting the petitioner, if known;
   f. Proof of service of the protest upon the water right permit holder, if petitioner is other than the water right permit holder; and
   g. The protest fee required under ORS 536.050, if petitioner is other than the water right permit holder.

3. Within 60 days after the close of the period for requesting a contested case hearing, the Director shall:
   a. Issue a final order on the extension request; or
   b. Schedule a contested case hearing if a request for contested case hearing has been submitted, and:
      1) Upon review of the issues, the Director finds there are significant disputes related to the proposed agency action; or
      2) The applicant submits a written request for a contested case hearing within 30 days after the close of the period for submitting protests.

- If you have any questions about statements contained in this document, please contact Ann L. Reece at 503-986-0827.
- If you have questions about how to file a protest or if you have previously filed a protest and you want to know the status, please contact Dwight French at 503-986-0819.
- If you have any questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at 503-986-0801.
- Address any correspondence to: Water Rights and Adjudications Division
  725 Summer St NE, Suite A
- Fax: 503-986-0901 Salem, OR 97301-1266

Mailing List for Extension PFO Copies

PFO Date: October 30, 2007

Application G-14397
Permit G-13765

Original mailed to Applicant:

Port of Morrow
Attn: Ron McKinnis
PO Box 200
Boardman, OR 97818

Copies Mailed

By: _____
(SUPPORT STAFF)

on: _____
(DATE)

Copies sent to:

1. WRD - App. File G- 14397/ Permit G-13765

2. WRD - Watermaster District 5 – Tony Justus

Fee paid as specified under ORS 536.050 to receive copy:

3. None

Receiving via e-mail (10 AM Tuesday of signature date)

4. None

CASEWORKER: ALR

Water Rights Inventory for (Name of Entity) Port of Morrow - Airport Industrial Park

(List of All Permits, Permit Amendments, Certificates, Transfers, New Applications)

Ground Water

Application No.	Permit No.	Priority Date	Certificate No.	P.A.[1] or Transfer No.	Source of water identified in water right	Facility Name used by entity	Use	Rate identified in water right (cfs or AF)	Actual Diverson Maximum Instantaneous Rate Diverted to Date (cfs)	Authorized Completion Date[2]	Notes or Limitations to water use[3]
G-14397	G-13765	10-23-96	N./A		Well #1	Airport	Municipal	Up to 4.96	0.46 CFS	10-01-02	
G-14397	G-13765	10-23-96	N/A		Well #1	Airport	Irrigation	Up to 3.76	3.76 CFS	10-01-02	

Surface Water

Application No.	Permit No.	Priority Date	Certificate No.	P.A. or Transfer No.	Source of water identified in water right	Facility Name used by entity	Use	Rate identified in water right (cfs or AF)	Actual Diverson Maximum Instantaneous Rate Diverted to Date (cfs)	Authorized Completion Date	Notes or Limitations to water use

Pending New Water Right Applications

Application No.	Priority Date	Source	Proposed Use	Proposed Rate

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FEB 27 2015
WATER RESOURCES DEPT
SALEM, OREGON

Attachment "A"
For Extension of Time Application

[1] P.A. = Permit Amendment
[2] Date by which full application of water is to be made within the terms and conditions of the permit (date will be specified in the permit or on the last extension Final Order).
[3] If a particular water right certificate, permit, or transfer is not being utilized to meet current demands, or its use is somehow limited due to quality, seasonal, etc. limitations, or if a the actual diversion rate is less than a certificated rate, please explain why.

Mike Zwart

From: "Mike Zwart" <Mike.j.zwart@wrd.state.or.us>
To: <ronm@portofmorrow.com>
Sent: Thursday, May 06, 2004 10:52 AM
Subject: Water Level Monitoring Plan

Ron:

I have reviewed and can approve your measurement plan for Permit G-13765 (application G-14397) for the Boardman Airport Industrial Property. The second page of the draft plan includes what appears to be a template for reporting the annual measurements. In addition to the well ID number, please add to this form the permit number and sufficient space for calculation of the water level, whether using an electric tape or air line. I will place a copy of the draft plan and this e-mail in the water rights application file.

Thanks, Ron.

Mike Zwart
==========
Michael J. Zwart
Hydrogeologist
Oregon Water Resources Department
725 NE Summer Street, Suite A
Salem, OR 97301-1271

Tel: 503-986-0844
E-mail: Mike.J.Zwart@wrd.state.or.us
==========

Michael J. Zwartz, Hydrogeologist
Water Rights and Adjudication Division
Oregon Water Resources Department
158 12th Street NE
Salem, Oregon 97310-0210

April 23, 2002

Ref. Application G-14397, Permit G-13765

Dear Mr. Zwart;

DRAFT

PLAN TO MONITROR AND REPORT THE IMPACT OF WATER USE
BOARDMAN AIRPORT INDUSTRIAL PROPERTY

The Port of Morrow was granted a permit for Municipal & Irrigation use at our Boardman Airport property near Boardman, Oregon. A condition of this permit was to develop a plan for the monitoring of the Static water levels associated with the use of the well(s) with respect to this permit. The Port submits this plan in regard to the conditions as a part of this permit.

1.) The water levels in and around the Port of Morrow Industrial Parks are monitored annually during the month of February. This well(s) would be monitored at least annually during this same time frame as other wells in the area.
2.) The well(s) will be assigned a reference level based on the first acquired water level prior to the well being used under the Permit.
3.) The well(s) will be reported according to their well log ID number or the Water Masters Well ID number.
4.) During Installation of the Pumping system for each well, an air line will be installed to be used to establish the static water level for the well(s). An access port will be available on each well should it become necessary to monitor the water level of the well(s) with an electric or steel tape.
5.) The gage installed for the airline will be capable of readings to the nearest 0.5 LBS of air pressure thus the reading will be accurate to the nearest 1.0 feet of water level.
6.) The well(s) monitoring will only be conducted with the well(s) being idle for at least the prior 24 hours.
7.) The Port of Morrow staff that will make these observations are the same staff that have qualified to perform all functions of collecting of data for other water permitted wells in the Port's system. These same personnel collect data for the total water use from each permitted source in addition to the reporting of all levels of waste water management under our Permits for waste water disposal form the Oregon Dept, of Environmental Quality.
8.) All monitoring reports for Port wells will be submitted to the Oregon Water Resources Dept. by April 15th of each year. The well monitoring reports may include other monitoring information collected at various times of the year for the same well(s). These reports will be routed to the Ground Water and Hydrology Section of the Department consistent with the conditions of water use as a part of the water use permit.

Should you need to comment or require further information as a part of this Monitoring Plan, please contact me at 541-481-7678 or you may use my e-mail address at mckinnis@centurytel.net

Sincerely,
Ronald V. McKinnis PE, PLS, WRE
Port of Morrow Engineer

PLAN TO MONITROR AND REPORT THE IMPACT OF WATER USE
BOARDMAN AIRPORT INDUSTRIAL PROPERTY

REPORT for WELL ID #50531
February , 2001 through February, 2002

Reference Static Water Level - February, 2001
(Static level obtained by Electric Tape, Air Line in need of repair)

Water Level Measurement on , 2002
(Static level obtained by Electric Tape, Air Line in need of repair)

Collected by , Port of Morrow Maint. Division

Submitted by Ronald V. McKinnis PE, PLS, WRE, Port of Morrow Engineer

Ref. Permit # for this plan Details calculations

NOV 14 2005

Client Review Draft – NOT FOR RELEASE

Ron –
Please review & edit and return comments to me. If you have any questions, please contact me.
Terry Tolan

8 November 2005

Mr. Ron McKinnis, P.E.
Port of Morrow
P.O. Box 200
Boardman, Oregon 97818

Subject: Hydrogeologic Evaluation of the Port of Morrow Well MORR 50471(Airport Well)
K/J 006096*50

Dear Mr. McKinnis:

Kennedy/Jenks Consultants is pleased to provide the Port of Morrow (POM) with this letter report describing our hydrogeologic evaluation of the POM Well MORR 50471 (the "Airport Well"). The objectives of this hydrogeologic evaluation were to:

1. Determine which Columbia River Basalt Group (CRBG) and Ellensburg Formation sedimentary interbeds are penetrated by the Airport Well.
2. Determine which geologic units the Airport Well may be drawing groundwater from.
3. Determine if the Airport Well, as built, meets hydrogeologic conditions set forth in the State of Oregon Water Resources Department (OWRD) Groundwater Permit G-13765.

Our hydrogeologic evaluation of the Airport Well was based on available data and information derived from the following sources:

- State of Oregon Water Supply Well Reports ("well logs") for the Airport Well, and adjacent wells, available from OWRD.
- Previous hydrogeologic evaluation of the POM number 4 well which was reported in - Tolan, T.L., and Lindsey, K.A., 2000, Hydrogeologic evaluation of the Port of Morrow well number 4, Umatilla Basin, Oregon: Daniel B. Stephens & Associates, Inc., Richland,

Washington, consultant report prepared for the Port of Morrow, Boardman, Oregon, v. 1 & 2, 98 p., 2 plates.

- Unpublished geologic data and geologic well logs for water supply wells in this portion of the Umatilla Basin.

No invasive investigation (e.g., downhole video logging) of the Airport Well was performed for this evaluation. Three (3) attachments are appended to this letter and contain the following:

- Attachment 1 – Airport Well geologic log and copies of OWRD Water Supply Well Reports MORR 50471 and MORR 50531.
- Attachment 2 – Port of Morrow # 4 well geologic log and copy of OWRD Water Supply Well Report MORR 1526.
- Attachment 3 - Port of Morrow # 1 well geologic log and copy of OWRD Water Supply Well Report MORR 752.

Construction of the Airport Well

The Airport Well (MORR 50471, Attachment 1) was drilled from May to October 1998 and reached a total depth of 948 feet below ground surface (feet bgs). Based on the Water Supply Well Report form filed with OWRD, the Airport Well has a 16 inch-diameter steel casing string that was installed and sealed with cement grout from approximately the ground surface to 435 feet bgs. Below the bottom of the 16 inch-diameter casing, the Airport Well was originally an "open hole", with a 12 inch-diameter from 435 to 535 feet bgs and 10 inch-diameter from 535 to 948 feet bgs.

In March 1999 additional work was done on the Airport Well (MORR 50531, Attachment 1). The work consisted of pressure grouting (cement) the bottom of the 16 inch-diameter casing and reaming the borehole below the casing (435 to 942 feet bgs) to a 15 inch-diameter hole. A 12 inch-diameter perforated steel liner was installed from approximately 600 to 942 feet bgs. A schematic diagram of the current construction of the Airport Well is included on the geologic log (Attachment 1).

Based on our discussions with you it appears that the cased interval in the Airport Well has a significant alignment/straightness problem (i.e., significant deviation from vertical) that makes it difficult to install or remove a pump column and bowl assembly. The additional work performed in March 1999 did not attempt to correct the casing alignment problem.

Hydrogeology of the Airport Well

all four water-bearing zones was the same, approximately 58 feet bgs (see MORR 50471, Attachment 1).

Special Condition With Regards to the Basalt Aquifer In Groundwater Permit G-13765

On page 3 of Permit G-13765, it is stated that:

"Under this permit, groundwater shall not be produced from the basalt source developed by Port of Morrow Wells #1 (POM #1 well) and #4 (POM #4 well), identified in Department records as MORR 752 and MORR 1526."

For a well constructed under Permit G-13765 to meet this condition, it must cased and sealed off from the basalt water-bearing zones that are open in the POM #1 and #4 wells. A previous investigation has defined and established the hydrogeology of the basalt "source" zones in both the POM #1 and #4 wells (Tolan and Lindsey, 2000). Drill-cuttings that had been systematically sampled and bagged from the POM #4 well were geologically logged and analyzed to identify which Columbia River basalt units were penetrated by this well and to determine which of these units are present in the open-interval in the well. Attachment 2 contains a reproduction of the geologic log for the POM #4 well (Tolan and Lindsey, 2000). No drill-cuttings were available from the POM #1 well. However a geologic log of this well, and a determination of which basalt units are present in the open-interval in the well, was developed based on the Driller's descriptions and log (Tolan and Lindsey, 2000). The geologic log for the POM #1 well is reproduced in Attachment 3. Table 2 presents a summary of pertinent construction and hydrogeology information for the POM #1 well, POM #4 well, and the Airport Well.

Table 2. Summary of construction and open-interval water-bearing zones in the POM #1 well, POM #4 well, and Airport well.

Well Name	OWRD Well ID Number	Total Depth (Feet bgs)	Depth of Casing and Seal (Feet bgs)	Open Interval (Feet bgs)	Stratigraphic Identification of Water-Bearing Zones Within the Open Interval
POM #1	MORR 752	685	0 to 535	535 to 685	Priest Rapids flow bottom/top of the Frenchman Springs Member
POM #4	MORR 1526	900	0 to 650	650 to 900	Frenchman Springs Member interflow zones
Airport	MORR 50471	948	0 to 435	435 to 948	Umatilla flow bottom/Priest Rapids flow, Frenchman Springs Member interflow zones

Attachment 1 contains a geologic log that presents our interpretation of the stratigraphic units penetrated by the Airport Well. Unit identification and contact depths were based on the descriptions of materials penetrated and reported on the Driller's log (see MORR 50471, Attachment 1) and our knowledge of CRBG and Ellensburg Formation units that are present in this portion of the Umatilla Basin. As shown on the geologic log (Attachment 1), the Airport Well penetrates the entire Saddle Mountains Basalt section and is inferred to terminate within the upper portion of the Frenchman Springs Member (basalt of Sentinel Gap) of the Wanapum Basalt. Based on the Driller's log (see MORR 50471, Attachment 1) it appears that the Airport Well may have only encountered two sedimentary interbeds (Rattlesnake Ridge and Selah Members) of the Ellensburg Formation (geologic log, Attachment 1). Typically in this portion of the Umatilla Basin two additional sedimentary interbeds are normally encountered – the Mabton Member (between the Umatilla Member and Priest Rapids Member) and the Quincy/Squaw Creek Member (between the Priest Rapids Member and Frenchman Springs Member). There is no indication from the Driller's log (see MORR 50471, Attachment 1) that any sediment was encountered in this well below 625 feet bgs.

Four water-bearing intervals were encountered in the Airport Well based on the Driller's log (see MORR 50471, Attachment 1) and are summarized in Table 1. The identity of the inferred stratigraphic units that are hosting the reported water-bearing zones (Table 1) was determined

Table 1. Water-bearing zones reported in the Airport Well (MORR 50471).

Depth (feet bgs)	Estimated Flow Rate (gpm)	Stratigraphic Units/Intraflow Structures
73 to 155	500	Elephant Mtn. flow bottom/Rattlesnake Ridge/Pomona flow top
183 to 285	1,000	Pomona flow interior & flow bottom
625 to 735	1,200	Umatilla flow bottom/Priest Rapids flow/Frenchman Springs flow top
920 to 945	+1,000	Frenchman Springs Member interflow zone

using the geologic well log prepared for this report (Attachment 1). Based on the reported "as-built" construction of the Airport Well (geologic log; Attachment 1), this well is cased and sealed off from the upper two water-bearing zones (73 to 155 feet bgs and 183 to 285 feet bgs) and only open to the lower two water-bearing zones (Table 1). The static water levels reported for

The above data and information indicates that the Airport Well is producing water from the same Columbia River basalt units as in the POM #1 and #4 wells. Therefore the Airport Well does not meet the "basalt source" condition as set forth on Page 3 of Permit G-13765.

To bring the Airport Well into compliance with the above Permit condition would require a new casing string to be installed and sealed to the bottom of the well (948 feet bgs) to seal-off all of the water-bearing zones in the well's current open-interval. New water-bearing zones would have to be found below the bottom of the new casing string (below 948 feet bgs). Based on our discussions with you, we understand that the Airport Well has a significant alignment problem (deviation from vertical). If the well alignment/straightness problem is as severe as indicated, it is likely that it can not be economically rebuilt to comply with the above Permit condition. If this is the case, we would recommend that you decommission the existing Airport Well, in accordance with OWRD rules, and construct a new well.

We would welcome an opportunity to further discuss your options for rebuilding or replacing the Airport Well. If you have any questions about this report, please give me a call at (509) 734-9763.

Very truly yours,

KENNEDY/JENKS CONSULTANTS

Terry L. Tolan, R.G.
Hydrogeologist

Enclosures

ATTACHMENT 1

Geologic Log & Water Supply Well Report

For

Port of Morrow Airport Well

(MORR 50471)

Log of Borehole: Port of Morrow Airport Well

Project: Port of Morrow

Location: Morrow County

Geologist: Terry L. Tolan, R.G.

Well ID: MORR 50471 & 50531

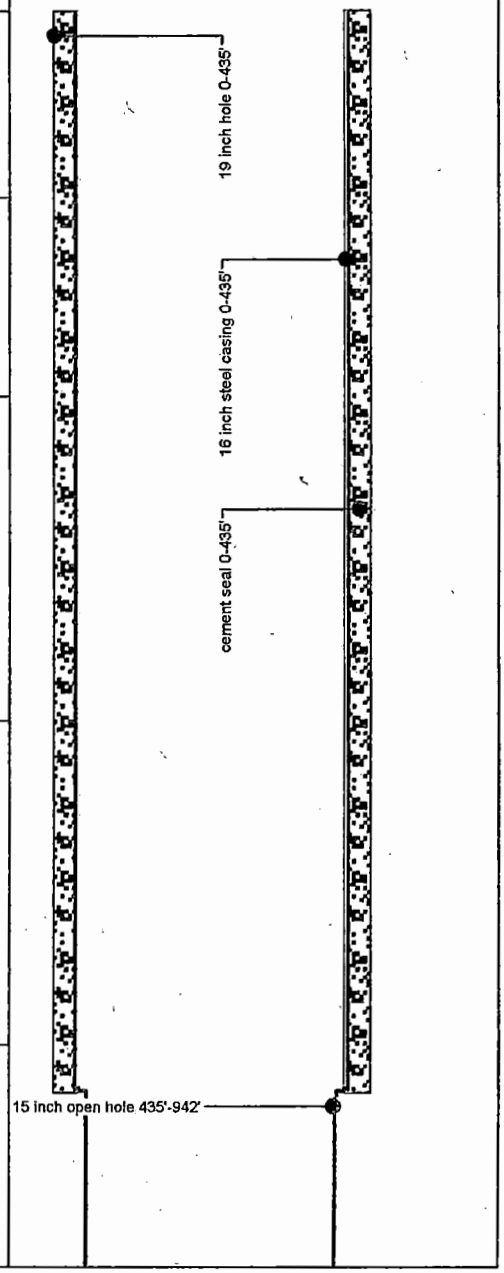
Nominal Hole Diameter: 19" & 15"

Kennedy/Jenks Consultants

Engineers & Scientists

Kennedy/Jenks Consultants
1020 N. Center Parkway, Suite F
Kennewick, Washington 99336
509-734-9763
FAX 509-734-9764
www.kennedyjenks.com

Depth	Symbol	Lithologic Description	Elevation	Construction Details
0		Ground Surface	0	
		Quaternary Sand **Elephant Mountain Member** Saddle Mountains Basalt	-75	
100		**Rattlesnake Ridge Member** Elensburg Formation	-155	
		Pomona Member Saddle Mountains Basalt	-285	
200				
300		**Selah Member** Elensburg Formation	-415	
400				
		Umatilla Member Saddle Mountains Basalt		
500				



Drilled By: Wallace & Brown

Drill Method: Air Rotary

Drill Date: 10/98 & 3/99

Total Depth: 948ft.

Log of Borehole: Port of Morrow Airport Well

Project: Port of Morrow

Location: Morrow County

Geologist: Terry L. Tolan, R.G.

Well ID: MORR 50471 & 50531

Nominal Hole Diameter: 19" & 15"

Kennedy/Jenks Consultants

Engineers & Scientists

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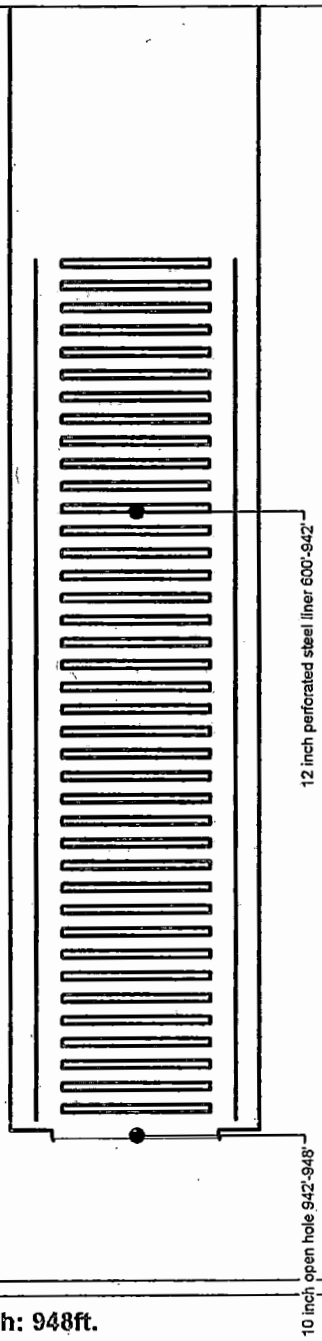
1020 N. Center Parkway, Suite F
Kennewick, Washington 99336
509-734-9763
FAX 509-734-9764
www.kennedyjenks.com

Depth	Symbol	Lithologic Description	Elevation	Construction Details
600			-625	
700		Priest Rapids Member Wanapum Basalt	-735	
800		Frenchman Springs Member Wanapum Basalt		
900			-948	
1000				



Drilled By: Wallace & Brown

Drill Method: Air Rotary

Drill Date: 10/98 & 3/99

Total Depth: 948ft.

MORR 50471

FEB 04 1999

WELL I.D.# L27925

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

WATER RESOURCES DEPT.
SALEM, OREGON

(START CARD) # 102720

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number
Name Circle C Farms (c/o Port of Morrow)
Address 2995 S. 1st St.
City Hermiston State OR Zip 97838

(2) TYPE OF WORK
☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 948 ft.
Explosives used ☐ Yes ☒ No Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
19"	0	435	Cement	0	435	300 sacks
12"	435	523				
10"	523	948				

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:	16"	+2	435	.375	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

Yield gal/min	Drawdown	Drill stem at	Time
2000+		948	1 hr. 2hrs.

Temperature of water 72 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Morrow Latitude ____ Longitude ____
Township 4N N or S Range 24E E or W. WM.
Section 22 NW 1/4 SW 1/4
Tax Lot 109 Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) ½ mile west of Tower Road, Boardman, OR 97818

(10) STATIC WATER LEVEL:
58 ft. below land surface. Date 10-28-98
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found 85

From	To	Estimated Flow Rate	SWL
75	155	500	58
183	285	1000	58
625	735	1200	58
920	945	1000+	58

(12) WELL LOG:
Ground Elevation ____

Material	From	To	SWL
Sand	0	3	
Brown basalt	3	20	
Brown & black basalt	20	45	
Black basalt, hard	45	75	
Claystone, soft	75	155	WB
Gray basalt	155	183	
Gray fred basalt	183	285	WB
Claystone	285	400	
Claystone, caving	400	415	
Gray basalt	415	625	
Gray basalt, soft	625	735	WB
Gray basalt, hard	735	920	
Black basalt, broken	920	945	WB
Gray basalt, hard	945	948	

Qif Tcm Tcr Tp Tes Tm Tgr Tf

Date started 5-4-98 Completed 10-28-98

(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 water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number ____
Signed ____ Date ____

(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 water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1218
Signed Patrick Willard Date 11-20-98

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

MORR 50531

RECEIVED
APR 9 1999
WATER RESOURCES DEPT.
SALEM, OREGON

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

Instructions for completing this report are on the last page of this form.

WELL I.D. # L 27925
START CARD # 63077
102720

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

(2) TYPE OF WORK
☐ New Well ☐ Deepening ☒ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☒ Yes ☐ No Depth of Completed Well 942.
Explosives used ☐ Yes ☒ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
16	0	942	cement	410	445	100 sks

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:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	12	600	942	250	☒	☐	☒	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☒ Perforations Method Torch
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
601	602	1x6	4			☐	☒
660	680	1x6	80			☐	☒
420	440	1x6	80			☐	☒
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
2000#		944	1 hr.

Temperature of water 72 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Morrow Latitude Longitude
Township 4 (N) or S Range 24 (E) or W. WM.
Section 22 NW 1/4 SW 1/4
Tax Lot 109 Lot Block Subdivision
Street Address of Well (or nearest address) ½ mile west of Tower Rd. Boardman, OR

(10) STATIC WATER LEVEL:
54 ft. below land surface. Date 4-31-99
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 485

From	To	Estimated Flow Rate	SWL
485	942	2000 #	54

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
Pressure cemented			
Bottom of 16" casing at 430			
Reamed 15" To 942			
Installed 12" liner			
From 600 To 942			
with left Hand Threaded			
Top setting Shoe.			

Date started 3-1-99 Completed 3-30-99

(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 water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number
Signed Date

(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 water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 759
Signed T. Bon Date 3-31-99

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

ATTACHMENT 2

Geologic Log & Water Supply Well Report

For

Port of Morrow #4 Well

(MORR 1526)

Log of Borehole: Port of Morrow Well No. 4

Also known as:

Project: USGS **Well ID: MORR 1526**

Location: sec. 10, T4N R25E

Geologist: Terry L. Tolan R.G.

Kennedy/Jenks Consultants

Engineers & Scientists

Kennedy/Jenks Consultants
1020 N. Center Parkway, Suite F
Kennewick, Washington 99336
509-734-9763
FAX 509-734-9764
www.kennedyjenks.com

Depth	Symbol	Lithologic Description	Elevation	Water Bearing Zones	Geochem Sample	Remarks
0		Ground Surface	0			
		Cataclysmic Flood Deposits	-20			
		Alkali Canyon Formation conglomerate / sandstone	-60			
		Elephant Mountain Member - Saddle Mountains Basalt dense interior - colonnade	-90		70	
100		Rattlesnake Ridge Member - Ellensburg Formation sandstone, pebbly sandstone, claystone	-120			
		Pomona Member - Saddle Mountains Basalt flow top breccia	-150			
		dense interior - entablature				
200			-250		250	
		dense interior - colonnade	-270			
		Selah Member - Ellensburg Formation tuff, sandstone, paleosols				275 - 283ft. fused tuff
300			-345			
		Umatilla Member - Saddle Mountains Basalt normal flow top	-380			
		dense interior - entablature				
400					440	
		dense interior - colonnade	-470			
			-500			
500		Mabton Member - Ellensburg Formation siltstone / claystone	-555			
		Priest Rapids Member - Wanapum Basalt	-570			
		Lolo flow normal flow top dense interior - colonnade				
600			-650			
		Quincy / Squaw Creek Member - Ellensburg Formation diatomite, siltstone	-675		670	
700						

Drilled By: Schnieder Drilling Co. **Total Depth: 900 ft.**

Drill Method: Rotary mud and reverse circulation air

Drill Date: 2-1-1991

Log of Borehole: Port of Morrow Well No. 4

Also known as:

Project: USGS **Well ID: MORR 1526**

Location: sec. 10, T4N R25E

Geologist: Terry L. Tolan R.G.

Kennedy/Jenks Consultants

Engineers & Scientists

Kennedy/Jenks Consultants
1020 N. Center Parkway, Suite F
Kennewick, Washington 99336
509-734-9763
FAX 509-734-9764
www.kennedyjenks.com

Depth	Symbol	Lithologic Description	Elevation	Water Bearing Zones	Geochem Sample	Remarks
		Frenchman Springs Member - Saddle Mountains Basalt	-720			
		Basalt of Sentinel Gap flow 1				
		flow top breccia dense interior - colonnade	-770		760	
		internal vesicular zone	-780			
800		dense interior - colonnade			805	
			-830			
		Basalt of Sentinel Gap flow 2	-855		855	
		normal flow top dense Interior - colonnade				
900			-900		900	
		TD 900 ft.				
1000						
1100						
1200						
1300						
1400						

Drilled By: Schnieder Drilling Co. **Total Depth: 900 ft.**

Drill Method: Rotary mud and reverse circulation air

Drill Date: 2-1-1991

#5

STATE OF OREGON

MORR 1526

RECEIVED

FEB - 6 1991

WATER RESOURCES DEPT. SALEM, OREGON

4N/25E/10 aa

WATER WELL REPORT
(as required by ORS 537.765)

(START CARD) # 19829

(1) OWNER: Well Number: 4

Name Port of Morrow

Address PO Box 200

City Boardman State OR Zip 97818

(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 Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
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	☒	☐	☒	☐
					☐	☐	☐	☐
	16	638	682	.375	☒	☐	☒	☐
	24	37	57	.375	☒	☐	☒	☐
Liner:	12*	627	900	.375	☒	☐	☒	☐

*except at screens and top 5' bells cut 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			☐	☒
*692	717	.150	cont	12	PS	☐	☐
717	774	.2x3	1368			☐	☒
*774	784	.150	cont	12	PS	☐	☐
784	818	.2x3	816			☐	☒
*818	843	.150	cont	12	PS	☐	☐
843	900	.2x3	1368			☐	☒

(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 below650

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:

(9) LOCATION OF WELL by legal description:

County Morrow Latitude ' " Longitude ' "

Township 4N N or S, Range 25E E or W, WM.

Section 10 NE ¼ NE ¼

Tax Lot Lot Block Subdivision

Street Address of Well (or nearest address)

(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.			

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 J. Schneider WWC Number 649

Date 2/1/91

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 3/88

SEI 9104

Port of Morrow
Well #4

Start Card No. 19829
by Schneider Drilling Co.

From	To	Description
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

ATTACHMENT 3

Geologic Log & Water Supply Well Report

For

Port of Morrow #1 Well

(MORR 752)

Log of Borehole: Port of Morrow No. 1

Also known as:

Project: Port of Morrow **Well ID: MORR 752**

Location: SW SW, sec. 10, T4N, R25E

Geologist: Terry L. Tolan, R.G.

Kennedy/Jenks Consultants

Engineers & Scientists

Kennedy/Jenks Consultants
1020 N. Center Parkway, Suite F
Kennewick, Washington 99336
509-734-9763
FAX 509-734-9764
www.kennedyjenks.com

Depth	Symbol	Lithologic Description	Elevation	Water Bearing Zones	Geochem Sample	Remarks
0		Ground Surface	0			
		Pleistocene Cataclysmic Flood Deposits	-39			
		Elephant Mountain Member Saddle Mountains Basalt	-91			
100		**Rattlesnake Ridge Member** Ellensburg Formation	-121			
		Pomona Member Saddle Mountains Basalt	-275			
200						
		Selah Member Ellensburg Formation	-341			
300						
		Umatilla Member Saddle Mountains Basalt	-496			
400						
500		**Mabton Member** Ellensburg Formation	-550			
		Priest Rapids Member Wanapum Basalt	-650			
600						
		Quincy / Squaw Creek Member Ellensburg Formation	-670 -685			
		Frenchman Springs Member Wanapum Basalt				
700		TD 685 ft.				
800						

Drilled By: Stadeli Drilling Co. **Total Depth: 685**

Drill Method: Rotary and Cable

Drill Date: 2/9/1978 **Page: 1 of 1**

NOTICE TO WATER WELL CONTRACTOR
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.

MORR 752

RECEIVED

WATER WELL REPORT

STATE OF OREGON (Please type or print) (Do not write above this line)

MAY 1 1978

WATER RESOURCES DEPT. SALEM, OREGON

State Well No. 4N/25E-10CC

State Permit No. .....

(1) OWNER:

Name Port Of Morrow

Address Boardman, Oregon

JUN 1 0 1978

(2) TYPE OF WORK (check):

New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary [X] Driven [ ]
Cable [X] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):

Domestic [ ] Industrial [X] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(5) CASING INSTALLED:

Threaded [ ] Welded [X]

16 " Diam. from +1 ft. to 75 ft. Gage .250

12 " Diam. from +1-6" ft. to 535 ft. Gage .330

" Diam. from ..... ft. to ..... ft. Gage .....

(6) PERFORATIONS:

Perforated? [ ] Yes [X] 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 [X] 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? [X] Yes [ ] No If yes, by whom? Faremore Pump

Yield: 2000+ gal./min. with 3 ft. drawdown after 6½ hrs.

" " " "

" " " "

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow 1500 g.p.m.

Temperature of water 78 Depth artesian flow encountered 680 ft.

(9) CONSTRUCTION:

Well seal—Material used Cement Grout

Well sealed from land surface to 75 ft.

Diameter of well bore to bottom of seal 20 in.

Diameter of well bore below seal 16"to 535,10"to 685 in.

Number of sacks of cement used in well seal 130 sacks

How was cement grout placed? Western Power Grouter

Was a drive shoe used? [ ] Yes [X] No Plugs ..... Size: location ..... ft.

Did any strata contain unusable water? [ ] Yes [X] No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? [ ] Yes [X] No Size of gravel: .....

Gravel placed from ..... ft. to ..... ft.

(10) LOCATION OF WELL:

#2

County Morrow Driller's well number

S.W ¼ S.W ¼ Section 10 T. 4N R. 25E W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 8 ft.

Static level Flowing ft. below land surface. Date 2/9/78

Artesian pressure 35 lbs. per square inch. Date 2/9/78

(12) WELL LOG:

Diameter of well below casing 10"

Depth drilled 685 ft. Depth of completed well 685 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Sand& gravel grey	0	3	
Sand? &Boulders grey	3	39	
MedHard brocken Basalt grey	39	41	
Hard Basalt grey	41	140	
Med Basalt brn.	140	151	
Hard Basalt grey	151	186	
Med Basalt porous brn.	186	198	
Hard Basalt grey	198	309	
Hard brocken Basalt blk.	309	322	
Hard Basalt grey	322	474	
Med Porous Basalt blk.	474	529	
Hard Basalt grey	529	670	
Med Sandstone brn W.B.	670	685	
Test pumping wasdelayed so long by Faremore Pump because of artesian conditions. Completed 4/19/78			

Work started 7/27/77 19 Completed 2/9/78 19

Date well drilling machine moved off of well 2/9/78 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Charles E. Stadeli (Drilling Machine Operator) Date 4/29/78, 19

Drilling Machine Operator's License No. 84

Water Well Contractor's Certification:

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

Name Stadeli Drilling CO (Person, firm or corporation) (Type or print)

Address Mt Angel, Or.

[Signed] Charles E. Stadeli (Water Well Contractor)

Contractor's License No. 519 Date 4/29/78, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

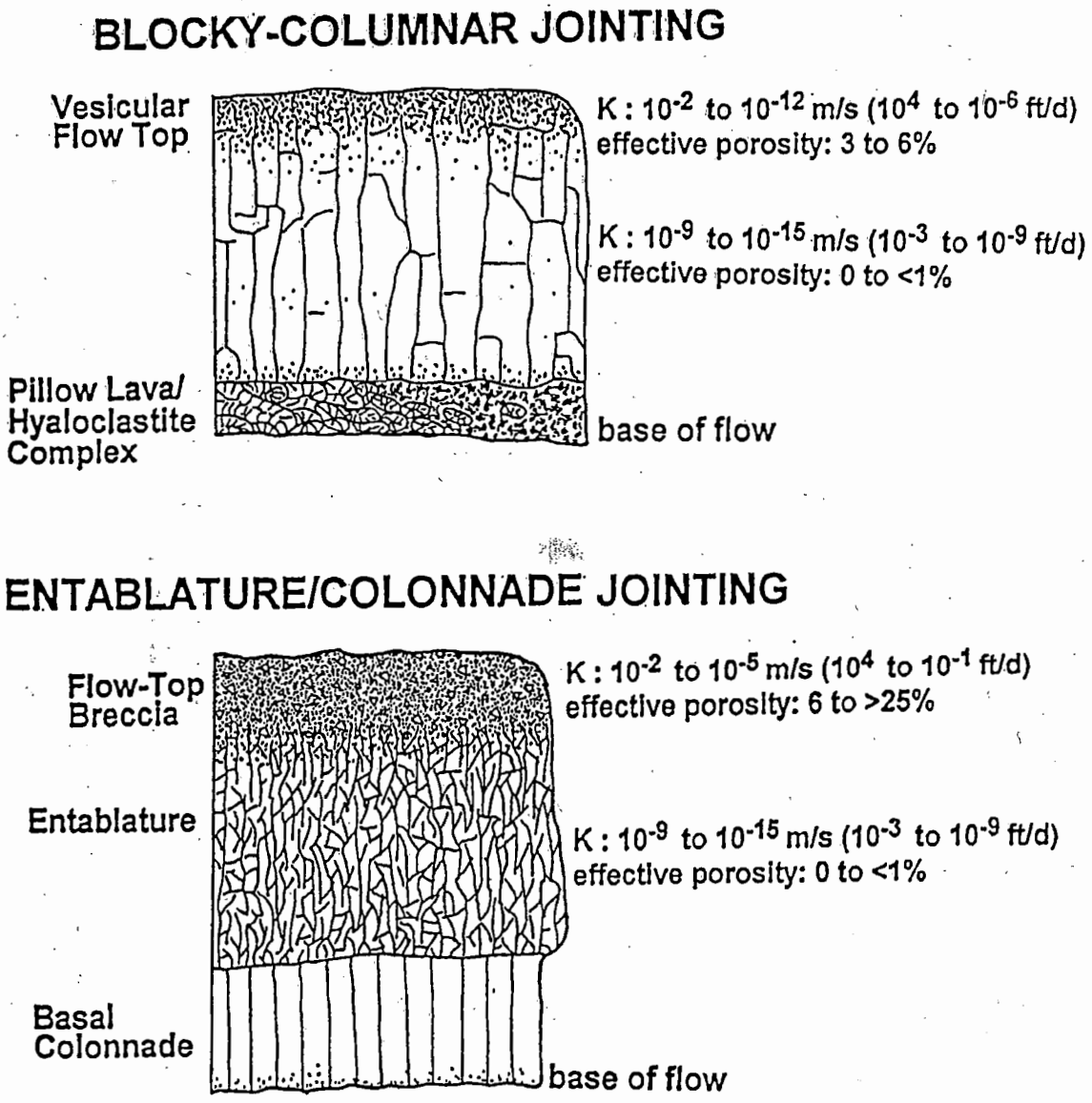


Figure 11. Diagrammatic representation of common intraflow structures found in Columbia River Basalt Group sheet flows and their associated hydrologic properties.

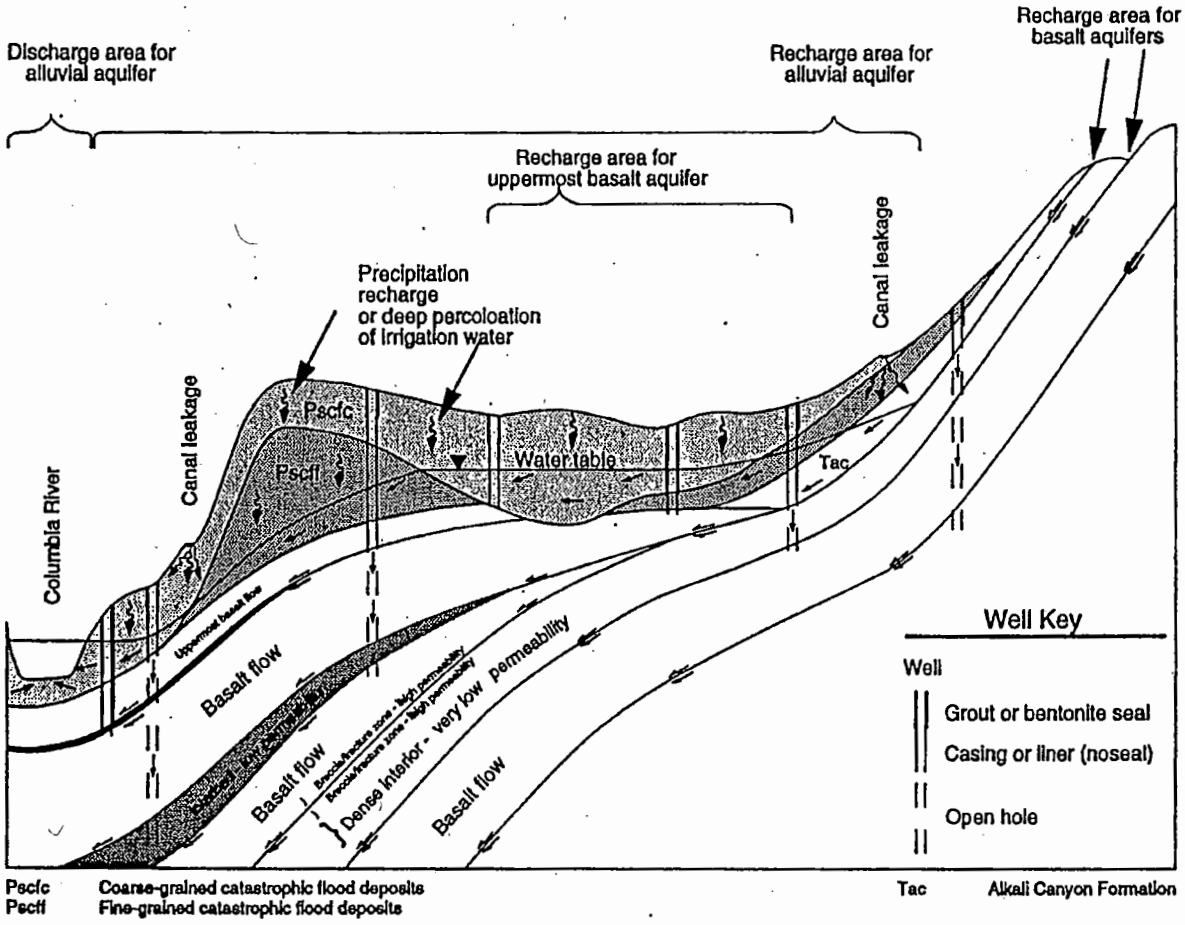


Figure 16. Generalized diagrammatic hydrogeologic section showing idealized groundwater flow for the Umatilla Basin as proposed by Oregon Water Resources Department. From Wozniak (1995).

BEFORE THE WATER RESOURCES DEPARTMENT
OF THE
STATE OF OREGON

In the Matter of the Proposed Water Management and Conservation Plan for Port of Morrow, Morrow County, Oregon	))))	FINAL ORDER APPROVING WATER MANAGEMENT AND CONSERVATION PLAN

Authority

OAR Chapter 690, Division 086, establishes the process and criteria for approving water management and conservation plans required under the conditions of permits, permit extensions and other orders of the Department. An approved water management plan may authorize the diversion and use of water under a permit extended pursuant to OAR Chapter 690, Division 315.

Background

On September 19, 2005, the Port of Morrow submitted a draft Water Management and Conservation Plan (WMCP) for review under OAR Chapter 690, Division 086 (November 2002). Submittal of the plan was required as an update of a previously approved .WMCP.

The Department published notice of receipt of the plan on September 27, 2005. No public comments were received.

The Department provided comments on the plan to the Port on February 9, 2006 and, in response, the Port submitted a revised plan on November 9, 2007.

Findings of Fact

1. The Port of Morrow Water Management and Conservation Plan contains all of the plan elements required under OAR 690-086-0125.

2. The projections of future water needs in the plan demonstrate a need for over 17.2 cfs of which, 0.57 cfs of water available under permits G 13765 and G-12370 to meet demands for the population anticipated in 20 years. These projections are reasonable and consistent with the Port's land use plan.

3. The plan includes 5-year benchmarks for implementation of metering of Port owned landscape, provide full for future industrial supply metering at all facilities; use portable

This final order is subject to judicial review by the Court of Appeals under ORS 183.482. Any petition for judicial review must be filed within the 60-day time period specified by ORS 183.482(1). Pursuant to ORS 536.075 and OAR 137-003-0675, you may petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

meter to spot-check for un-metered water users and water audit of internal Port uses and Port customers. The system is metered for Port customers and the rate structure includes a base rate and volumetric charge. System leakage is estimated at 10 percent.

4. The plan includes 5-year benchmarks for evaluation, development, and implementation of programs to revitalize the Water User's Committee at Boardman and initiate similar groups for the Airport and South Morrow. Establish an annual meeting for Port water users to discuss system issues and provide technical assistance to customers.

5. The plan identifies ground water as the source of the Port's water rights. It also accurately and completely describes the source of water as ground water not involved in endangered species or within critical ground water areas but recognizes the proximity to critical ground areas.

6. The water curtailment element included in the plan satisfactorily promotes water curtailment practices and includes a list of three stages of alert with concurrent curtailment actions.

7. The diversion of 0.46 cfs under permit G 13765 and 0.11 cfs under permit G-12370 will be initiated during the next 20 years and consistent with OAR 690-086-0130(7):

    a. OAR 690-086-0130(7)(a) requires the plan includes a schedule for development of any conservation measures that would provide water at a cost that is equal to or lower than the cost of other identified sources and the supplier has provided sufficient justification for the factors used in selecting other sources for development. The plan meets these requirements through best management practices and water reuse.

    b. OAR 690-086-0130(7)(b) requires increased use from the source is the most feasible and appropriate water supply alternative available to the supplier. The Port is one of the largest users of water reuse and has continued to implement low use irrigation practices. However, the total twenty year additional demand is projected to be a total of 17.2 cfs which would exceed the capacity of conservation and reuse at the current level and other close alternatives would be from the Columbia River which have endangered species issues or other areas within designated critical ground water management areas. The plan is consistent with this requirement by use or conservation methods or pursuit of new ground water permits outside the critical ground water management areas.

    c. OAR 690-086-0130(7) (c) requires that the plan contains documentation that the supplier is complying with the mitigation requirements. The use of this groundwater is not known to have any obligations under the Endangered Species Act.

Conclusion of Law

The water management and conservation plan submitted by the Port of Morrow is consistent with the criteria in OAR Chapter 690, Division 086.

Special Order Vol. _____ Page _____

Now, therefore, it is ORDERED:

1. The Port of Morrow Water Management and Conservation Plan is approved and shall remain in effect until November 30, 2017, unless this approval is rescinded pursuant to OAR 690-086-0920.

2. The limitation of the diversion of water under Permit G-12370 established by the extension of time approved on December 20, 2007 is removed and, subject to other limitations or conditions of the permit, the Port of Morrow is authorized to divert up to 0.11 cfs under Permit G-12370.

3. The limitation of the diversion of water under Permit G 13765 established by the extension of time approved on December 20, 2007 is removed and, subject to other limitations or conditions of the permit, the Port of Morrow is authorized to divert up to 0.46 cfs under Permit G 13765.

4. The Port of Morrow shall submit an updated plan within ten years and no later than November 30, 2017.

Dated at Salem, Oregon this ____ day of January, 2008.

.5

21.55
.15
.7.7 5

_____
Phillip C. Ward, Director

Mailing date: _____

Special Order Vol. _____ Page _____

REECE Ann L

From: Ron McKinnis <RonM@portofmorrow.com>
Sent: Tuesday, May 26, 2015 1:48 PM
To: REECE Ann L
Subject: RE: Permit G-13765

Ann,
It includes more than that.
2700 Ac. for the Airport Industrial Park, 1000 Acres around the Park, which is also zoned Airport Industrial, all of the general industrial north of the freeway that is owned by both the Port and Threemile Canyon Farms (about 1970 Acres), and all of the City of Boardman property east of Tower Road that is zoned Space Age industrial (over 400 acres).
Does that help or do we need to do something more specific to identify the boundaries?
Thanks!
Ron

6070 acres + Total

From: REECE Ann L [mailto:ann.l.reece@state.or.us]
Sent: Tuesday, May 26, 2015 1:14 PM
To: Ron McKinnis
Cc: BAMBERGER Machelle A
Subject: RE: Permit G-13765

Ron,
Our current information is that the Airport Industrial Park includes 2,700 acres, and a 1000 acre site proposed for expansion. Does this new map boundary include 3,700 acres?

Best Regards,

Ann Reece
- -
Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

From: Ron McKinnis [mailto:RonM@portofmorrow.com]
Sent: Tuesday, May 26, 2015 9:21 AM
To: REECE Ann L
Subject: RE: Permit G-13765

Ann,
It did not go out last Friday, it's set to leave today but I have included the electronic copy.
Thanks!
Ron

From: REECE Ann L [mailto:ann.l.reece@state.or.us]
Sent: Tuesday, May 26, 2015 9:04 AM
To: Ron McKinnis
Subject: RE: Permit G-13765

Ron,

Did this map get sent in? I haven't seen it yet.

Best Regards,

Ann Reece
- -
Water Right Services Division
Hydroelectric Analyst / Municipal Extension Specialist
Oregon Water Resources Department
725 Summer St. NE Suite A
Salem, OR 97301
503-986-0834
reeceal@wrd.state.or.us

From: Ron McKinnis [mailto:RonM@portofmorrow.com]
Sent: Tuesday, May 19, 2015 4:20 PM
To: REECE Ann L
Subject: Permit G-13765

Ann,
I know that this permit is going through an extension process at this time, can we (Port) modify our Port Municipal Service Boundary during this process?
Do I merely need to submit a new Map of the Proposed Service Boundary to satisfy the change?
If you can't help me, can you direct me to the right person?
Thanks for your help!
Ron

Ronald V. McKinnis PE, PLUS, WRE
Port of Morrow Engineer,
PH. 541-481-7678
Fax 541-481-2679
ronm@portofmorrow.com

Table 9: Projected Water Supply Requirements for Three Industrial Parks

Year	Annual Total MG	Average Flow (MGD)	Peak Flow[a] (MGD)	Water Right	Date of Full Use
Boardman Industrial Park (3.1 average peaking factor)				**Total: 10.4 MGD**	
				58866	2005
2005	1,800	G10975	8.8[b]	G10975	2005
2015	2,408	47191	20.5	47191	2007
2025	3,016	68545	25.6	68545	Average: 2012, Peak: 2
2055	5,142	14.1	43.7	G12729	Average: 2035, Peak: 2
Airport Industrial Park (3.1 peaking factor assumed) including irrigation				**Total: 0.8 MGD**	
2005	251	0.7 1.08	2.2 3.41		
2015	342	0.9 1.4	2.9 4.5	G13765	Municipal: 2011
2025	428	1.2	3.6		
2055	730	2.00	6.2		
South Morrow Industrial Park (3.1 peaking factor assumed)				**Total: 0.6 MGD**	
2005	60	0.16	0.5		
2015	78	0.21	0.7	G10312	Peak: 2012
2025	98	0.27	0.8	38590 .14 max	Peak: 2012
2055	167	0.46	1.4		

includes IR

Note:
(a) Estimated based on an average daily peaking factor of 3.1.
(b) Based on 2004 data for Boardman (Figure 10).

South Morrow Industrial Park. Water supply for current activities at this facility is adequate because the available water right is greater than the estimated peak daily flow. Projections of potential growth indicate that additional water supply will not be necessary for the next 20 years if growth in average water use follows the trend of Boardman Industrial Park. Peak flows could exceed the water right in the next five years. In addition, there is a potential that water supply could limit growth if the industrial park experiences rapid industrial growth and/or develops an agreement with the City of Heppner to provide domestic water supply.

Airport Industrial Park. The Airport Industrial Park water supply is currently adequate, although an additional groundwater well may be needed to make efficient use of the current water right. Industry, especially seasonal business, could expand at this site. Table 9 shows projected increases based on the growth rate for the Boardman Industrial Park. The peak daily flow could exceed available water supply by 2012. The 1,000-acre site proposed for Airport Industrial Park expansion is estimated to require 3.2 MGD plus piping, pumps, and infrastructure. In addition, the Port of Morrow has the only permitted major Northwest motor speedway site (requiring 800-gpm flow plus major storage facilities for fire suppression).

The Port of Morrow requests that an additional water right of 3.2 MGD (4.9 cfs) be granted for Airport Industrial Park.

5.3 Addressing Future Needs

The water supply forecasts for the Port of Morrow's industrial parks suggest that demand for water is currently near the permitted capacity of the Port's groundwater supplies (Table 4). At Boardman Industrial Park, there is a short-term need to secure water supply for new customers. This need is

Water Use Reporting Database

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Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
12969	G 10550	0	3/1/1984	4N	25E	10	IR	0.0125 C	P	TOADVIN POND	
12969	G 10550	0	3/19/1984	4N	25E	10	IR	6.5125 C	P	TOADVIN POND	

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1988	IR	A	0	0	0	0	0	0	0	0	0	0	0	0
1991	IR	A	0	0	0	0	0	0	0	0	0	0	0	0
1992	IR	A	68.42	68.42	68.42	68.42	68.42	68.42	68.42	68.42	68.42	68.42	68.42	68.42
1993	IR	1	0	0	0	0	0	0	0	0	0	0	0	0
1994	IR	A	0	0	0	0	0	0	0	0	0	0	0	552
1996	IR	G	0	0	0	0	0	0	0	0	89200000	82000000	73000000	1095300
1997	IR	G	1404500	0	0	350600	0	0	39260000	31984200	0	11543500	52504000	65300200
1998	IR	G	4303500	1818600	0	0	0	16193400	47577500	50853300	73880600	65743000	71569000	44980000
1999	IR	G	5497000	3342000	509000	12031000	0	0	60281000	36818940	94925000	19206000	15965000	50016000
2000	IR	G	18382000	15824000	3810000	0	0	20390000	27180000	31193000	4002000	17209000	864000	45537000

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
12970	G 7158	68545	2/4/1977	4N	25E	10	IM	3 C	P	A WELL	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1988	IM	G	62696250	62696250	62696250	62696250	62696250	62696250	62696250	62696250	62696250	62696250	62696250	62696250
1989	IM	G	75419000	41140000	51895000	65104000	69292000	78567000	26438000	21711000	27526000	21511000	42625000	70729000
1990	IM	G	74448300	62831500	60611800	66066000	57647000	52344000	57201000	55099000	58534000	40006000	58931000	48670000
1991	IN	G	57994000	53619000	47970000	63692000	49187000	34112000	40574000	49727000	50125000	38226000	52996000	41260000
1992	IN	U	44857000	35999000	39166000	21629000	14774000	14265000	12887000	7783000	14707000	19307000	11322000	7199000
1993	IM	G	5724000	13087000	11116000	11471000	17222000	15228000	6898000	15204000	11051000	18171000	18164000	14100000

1994	IM	G	35932000	28013000	33519000	41348000	19778000	19906000	31256000	47133000	20826000	3351600	40983000	32194000
1995	IM	G	25953000	21593000	23653000	28160000	21541000	33954000	23593000	25814000	29132000	25843000	27605000	21707000
1996	IM	G	26944667	14072000	20368000	19567000	32223250	43434750	37265000	33812333	23530666	22069000	31971500	28261500
1997	IM	G	25910000	21064000	29510000	31273000	15838000	46042000	49054000	35340000	27062000	31946000	4572600	36653000
1998	IM	G	40300000	32110000	24842000	45411000	46411000	51473000	19082000	22310000	18321000	41537000	47629000	31368000
1999	IM	G	42227000	49438000	48027000	52057000	44725000	51030000	38429000	19854000	32752000	33240000	45149000	38640000
2000	IM	G	31558000	25773000	36528000	41244000	39027000	35797000	45835000	36792000	37376000	31777000	44733000	35126000

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
12971	G 6640	57216	1/13/1976	4N	25E	12	IR	1.25 C	P	PORT WELL #4	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1988	IR	G	2160000	0	0	0	0	7824000	8496000	19728000	26064000	29712000	10224000	1488000
1989	IR	G	2064000	0	0	0	0	0	16896000	22944000	44544000	25248000	27264000	27564000
1990	IR	G	2595840	0	0	0	0	5712000	12384000	21888000	33696000	27744000	34416000	12240000
1991	IR	G	1152000	0	0	0	0	0	0	37008000	41328000	4512000	912000	6240000
1992	IR	U	2128980	0	0	0	0	0	0	21807660	21598500	19333440	14097300	1668660
1993	IR	G	287700	0	0	0	0	0	0	1323420	26756100	22670760	25432680	5276418
1994	IR	G	0	0	0	0	0	0	22055000	0	40617000	16398000	6485000	4137000
1995	IR	G	0	0	0	0	0	2188800	14996700	15646500	18524400	20954400	23254700	14244600
1996	IR	G	15553062	0	0	0	0	0	7762146	26238240	28637658	33643638	16721124	16721124
1997	IR	G	1386714	0	0	0	0	0	8233974	36578178	17509422	22912428	0	0
1998	IR	G	0	0	0	0	0	0	5658714	25136602	12032212	15725278	1012602	0
1999	IR	G	3452400	0	0	0	0	0	19908840	25662840	38407950	44409372	42625632	6374281
2000	IR	G	0	0	0	0	0	0	32705736	7865718	33660900	40335540	41066298	15748698

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
13327	G 4942	51822	12/1/1971	4N	25E	12	IR	2.88 C	P	WELL 16	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1988	IR	G	3300000	0	0	0	0	0	6150000	43725000	53175000	53100000	48150000	14250000

1989	IR	G	0	75000	0	0	0	0	29700000	48375000	70200000	40725000	45150000	39150000
1990	IR	G	0	0	0	0	0	0	39450000	48675000	42675000	52800000	57375000	47175000
1991	IR	G	1575000	0	0	0	0	0	35775000	39465000	54000000	37575000	47400000	39300000
1992	IR	U	15579540	0	0	0	0	0	15051420	61525980	59677560	49203180	70239960	5721300
1993	IR	G	11354580	176040	0	0	0	0	21045852	61217910	57617892	67696182	63480024	51350868
1994	IR	G	0	0	0	0	0	79000	46730000	14418000	71199000	35322000	35393000	44151000
1995	IR	G	0	0	0	0	0	1461132	12146760	18228942	31891650	62589880	52541700	21080790
1996	IR	G	10540395	4022514	4022514	0	0	3195426	24531174	53014446	61446762	49968954	21221622	21221622
1997	IR	G	0	0	0	0	1012230	862596	33641244	64941156	60883434	65689326	67414518	37302876
1998	IR	G	4973130	8802	0	0	0	0	50967981	50967981	55267758	65425266	61112286	70882506
1999	IR	G	27004536	4717872	8802	0	0	25569810	55320570	44969418	61155416	68840442	65152404	43675524
2000	IR	G	20191788	4110534	0	0	0	0	54959886	64659492	63312786	64897146	65284434	60962652

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
13329	G 4942	51822	12/1/1971	4N	25E	2	IR	1.58 C	P	WELL 17	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1988	IR	G	924000	0	0	0	0	0	0	25578000	24864000	31374000	21798000	3570000
1989	IR	G	0	0	0	0	0	0	14658000	21126000	33012000	23100000	14280000	5334000
1990	IR	G	0	0	0	0	0	0	28500000	22020000	40320000	44340000	44340000	14400000
1991	IR	G	0	0	0	0	0	0	8940000	34620000	43200000	9180000	24660000	29580000
1992	IR	U	7113600	0	0	0	0	0	16826400	18376800	17510400	22708800	32968800	6612000
1993	IR	G	0	1048800	0	0	0	2056560	19402800	30843840	32772720	34911360	32895840	36069600
1994	IR	G	34907000	0	0	0	0	11997000	25258000	6794000	37059000	21072000	11956000	0
1995	IR	G	0	0	0	0	0	0	0	3109920	16168670	27571650	29370160	21527760
1996	IR	G	10763880	0	0	0	0	3807600	2412240	21290640	34765440	17825040	25691040	25691040
1997	IR	G	159600	0	0	0	0	0	0	32877600	31158480	15472080	16201680	2599200
1998	IR	G	0	0	0	0	0	0	16416000	30643200	30643200	30643200	30643200	30632000
1999	IR	G	0	0	0	0	0	0	12859200	13894320	30082320	24732528	25422000	1186512
2000	IR	G	0	0	0	0	0	0	30501840	24304800	31436640	32540160	26023920	33178560

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To

21100	G 10975	0	12/4/1989	4N	25E	10	IM	4.46 C	P	A WELL	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1990	IM	G	0	0	0	0	0	0	0	0	0	0	0	0
1991	IN	null	0	0	0	0	0	0	0	0	0	0	0	0
1992	IN	U	0	0	12149877	41706074	72582166	86975540	82582734	66768436	73804291	52663810	81049048	76301011
1993	IM	1	53354349	31469838	42670043	38652674	4728439	55271618	44595460	44897570	60982038	25257206	54330093	68831014
1994	IM	G	151262	227658	168410	27914	174172	260069	191668	145456	265571	189599	231088	177071
1995	IM	G	72821703	82078892	80507402	78582311	74208407	77601678	78814352	101576510	96106932	35349793	90334265	68074317
1996	IM	G	64638789	44533257	42637497	43329709	21347998	15295220	23692930	20954066	39659423	36243991	52425429	51976000
1997	IM	G	64224000	41465000	52589000	39910000	38774000	25400000	54877000	61331000	75671000	39691000	39147000	50458000
1998	IM	G	32203000	24824000	58545000	36944000	36031000	48953000	12212000	27391000	75672000	42379000	39811000	79841000
1999	IM	G	59497000	40069000	54772000	46258000	42295000	49939000	29761000	17913000	29104000	23913000	54517000	44780000
2000	IM	G	56336000	41918000	20708000	19582000	16535000	41391000	50522000	27734000	45568000	32678000	59090000	42118000

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
35153	CG 5332	0	5/31/1974	4N	25E	10	MU	2 C	P	A WELL	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1999	MU	G	0	0	16779100	11796200	8397800	3305500	12391300	21138600	7024900	19520400	29684600	24830000
2000	MU	G	22860900	21113100	20268400	23642600	20172700	23732000	8801900	27762100	18705700	34114600	34438600	28846800

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
35225	CG 8263	0	6/19/1978	4N	25E	10	MU	1.11 C	P	A WELL	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1999	MU	G	10798600	14061100	0	0	0	0	15903600	21586300	21384600	21460400	97700	23134600
2000	MU	G	24398700	23107300	16984200	8693600	19923800	0	0	17954100	21050500	21036300	22366000	19307600

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
35230	CG 8619	0	6/4/1979	4N	25E	10	MU	4 C	P	SUMP WELL 1	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1999	MU	G	20542100	23319600	6455700	0	0	0	0	0	null	6126560	0	8231280
2000	MU	G	0	0	0	0	0	0	0	0	336300	5852100	0	11527900

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
35231	CG 8619	0	6/4/1979	4N	25E	10	MU	2.8 C	P	SUMP WELL 2	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
2000	MU	G	0	0	0	0	0	0	0	0	0	0	0	0

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
37179	G 12370	0	1/14/1993	2S	26E	21	MU	1.448 C	P	WELL 6	WILLOW CR

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1999	MU	G	0	0	0	0	0	0	0	0	0	0	0	0
2000	MU	G	0	0	0	0	0	0	0	0	0	0	0	0

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
37180	G 12370	0	1/14/1993	2S	26E	21	MU	1.448 C	A	WELL 7	WILLOW CR

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1999	MU	G	0	0	0	0	0	0	0	0	0	0	0	0
2000	MU	G	0	0	0	0	0	0	0	0	0	0	0	0

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
37737	G 12729	0	1/22/1993	4N	25E	1	IC	9.8 C	C	WELL 4A	UMATILLA R
37737	G 12729	0	1/22/1993	4N	25E	1	IM	5.57 C	P	WELL 4A	UMATILLA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1999	IC	G	10324116	0	0	0	0	0	28592850	43927620	71833014	80368926	61512990	22743336
1999	IM	G	0	0	0	0	0	0	0	0	0	0	0	0

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
37738	G 12729	0	1/22/1993	4N	25E	1	IC	9.8 C	A	WELL 5A	UMATILLA R
37738	G 12729	0	1/22/1993	4N	25E	1	IM	5.57 C	A	WELL 5A	UMATILLA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1999	IC	G	7273389	0	0	0	0	6139800	34831180	63831180	78418890	60372426	45912060	36369219
1999	IM	G	0	0	0	0	0	0	0	0	0	0	0	0

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
37739	G 12729	0	1/22/1993	4N	25E	10	IC	9.8 C	A	PORT WELL 6	UMATILLA R
37739	G 12729	0	1/22/1993	4N	25E	10	IM	5.57 C	A	PORT WELL 6	UMATILLA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1999	IC	G	0	0	0	0	0	0	0	0	0	0	0	0
1999	IM	G	0	0	0	0	0	0	0	0	0	0	0	0
2000	IM	G	0	0	0	0	0	0	0	0	0	0	0	0

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
37740	G 12729	0	1/11/1993	4N	28E	10	IM	5.57 C	A	PORT WELL 7	UMATILLA R
37740	G 12729	0	1/22/1993	4N	25E	10	IC	9.8 C	A	PORT WELL 7	UMATILLA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1999	IM	G	0	0	0	0	0	0	0	0	0	0	0	0
2000	IC	G	0	0	0	0	0	0	15469000	0	0	0	3240000	0
2000	IM	G	0	0	0	0	0	0	0	0	0	0	0	0

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
46348	G 13765	0	10/23/1996	4N	24E	21	IR	3.76 C	A	WELL 2	COLUMBIA R
46348	G 13765	0	10/23/1996	4N	24E	21	MU	4.96 C	A	WELL 2	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1999	IR	G	0	0	0	0	0	0	0	494990	4955442	0	6019698	24311598
1999	MU	* G	0	0	0	0	0	0	0	0	0	0	0	0
2000	IR	G	0	0	0	0	0	31797000	29013000	53220000	26964000	70785000	69337000	51584000
2000	MU	* G	0	0	0	0	0	0	0	0	0	0	0	0

Max Use for IR in July 2000 with 70,785,000 gallons

*No Water Used for Muni

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
46349	G 13765	0	10/23/1996	4N	24E	22	IR	3.76 C	A	WELL 1	COLUMBIA R
46349	G 13765	0	10/23/1996	4N	24E	22	MU	4.96 C	P	WELL 1	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1999	IR	G	0	0	0	0	0	0	0	0	0	0	0	0
1999	MU	* G	0	0	0	0	0	0	0	0	0	0	0	0
2000	MU	* G	0	0	0	0	0	0	0	0	0	0	0	0

Pod Id	Permit	Cert	Priority	Twnshp	Range	Sctn	Use	Rate	P/A/S	Source	Tributary To
48018	CG 4918	0	2/3/1970	2N	26E	5	IM	0.185 C	P	A WELL	COLUMBIA R

Water Year	Use	Units	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep

1999	IM	G	2005000	1902000	2121000	1626000	0	0	0	0	0	0	0	646784
2000	IM	A	2.56	4.6385	6.16	3.4995	4.9674	4.9487	1.9044	1.5425	0.5383	1.963	7.4138	4.2142

Paul R. Cleary, Director
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Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE ## G-14397

ROUTED TO: WR

TOWNSHIP/
RANGE-SECTION: 4N/24E-22 cbb -21 cad

CONDITIONS ATTACHED? [X] yes [ ] no

REMARKS OR FURTHER INSTRUCTIONS:

Deny Application / Amend Application / Other ??

Reviewer: Donn Miller

11-19-96

New GW Review
1/24/97

Water Resources Department

MEMO November 14, 1996

TO **Application G-** 14397

FROM **GW:** Doug Miller
(Reviewer's Name)

SUBJECT **Scenic Waterway Interference Evaluation**

☐ Yes
☒ No — The source of appropriation is within or above a Scenic Waterway.

☐ Yes
☒ 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.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

TO: Water Rights Section January 24, 1997

FROM: Groundwater/Hydrology Section Donn Miller
Reviewer's Name

SUBJECT: Application G- 14397

Supersedes 11/14/96 review

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.

NA

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. X 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)_____;
      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. X will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
      i. X The permit should contain condition #(s) 7A;
      ii. X 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: The permit should prohibit ground water production from the basalt source developed by Port of Morrow wells 1 & 4. These wells are identified in Department records as MORR 752 and MORR 1526.

(Well Construction Considerations on Reverse Side)

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application does not meet current well construction standards based upon:
   a.____review of the well log;
   b.____field inspection by _____;
   c.____report of CWRE _____;
   d.____other: (specify) _____
   _____

6. THE WELL construction deficiency:
   a.____constitutes a health threat under Division 200 rules;
   b.____commingles water from more than one groundwater reservoir;
   c.____permits the loss of artesian head;
   d.____permits the de-watering of one or more groundwater reservoirs;
   e.____other: (specify) _____
   _____

7. THE WELL construction deficiency is described as follows: _____
   _____
   _____

8. THE WELL
   a.____was, or
   b.____was not
   constructed according to the standards in effect at the time of original construction or most recent modification.
   c.____I don't know if it met standards at the time of construction.

RECOMMENDATION:

A.____I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."

B.____I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.

C.____REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit

_____ _____, 199__.
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons:_____
_____
_____

_____ _____, 199__.
(Signature)

TO: Water Rights Section Nov 14, 1996

FROM: Groundwater/Hydrology Section Donn Miller
Reviewer's Name

SUBJECT: Application G- 14397

Superseded

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. X 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)_____;
      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. X 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)_____;
      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)

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application does not meet current well construction standards based upon:
   a.____review of the well log;
   b.____field inspection by _____;
   c.____report of CWRE _____;
   d.____other: (specify) _____
   _____

6. THE WELL construction deficiency:
   a.____constitutes a health threat under Division 200 rules;
   b.____commingles water from more than one groundwater reservoir;
   c.____permits the loss of artesian head;
   d.____permits the de-watering of one or more groundwater reservoirs;
   e.____other: (specify) _____
   _____

7. THE WELL construction deficiency is described as follows: _____
   _____
   _____

8. THE WELL
   a.____was, or
   b.____was not
   constructed according to the standards in effect at the time of original construction or most recent modification.
   c.____I don't know if it met standards at the time of construction.

RECOMMENDATION:

A.____I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."

B.____I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.

C.____REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit

_____ _____, 199__.
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons:_____
_____
_____

_____ _____, 199__.
(Signature)

WATER RESOURCES DEPARTMENT MEMORANDUM

TO: Groundwater/Hydrology Files Date 11/14/96

FROM: Donn Miller

SUBJECT: Groundwater Application G- 14397 Phone:

Name: Port of Morrow

Applicant(s) seek 2200 gpm (4.9 cfs) from 2 well(s) in the Columbia basin

Proposed use: Municipal sub basin

sub basin.

Pertinent 7 1/2 - minute quads Boardman

Well #1 WRD# T 4 N R 24E S 22 QQ cbb County Morrow

Legal Description

Well is 2 +/- miles ~~ft~~ from Columbia R (river/stream)

Well is — ft from — (river/stream)

Well elevation ~~400~~ 380 ft. River/stream elevation 265 ft.

Proposed Well elevation - river/stream elevation ~~135~~ 115

Well depth 600' +/- SWL — on

Sealed to — Depth first water found —

Cased to 500' +/- Perforations/screens —

Lined to — Perforations/screens —

Well tests and types —

Confined or unconfined? Confined probably Hydraulically connected? No

Potential to cause substantial interference? No

Well #2 WRD# T 4N R 24E S 21 QQ cad County Morrow

Legal Description

Well is 2 ~~X~~ miles ~~ft~~ from Columbia R (river/stream)

Well is — ft from — (river/stream)

Well elevation ~~405~~ 395 ft. River/stream elevation 265 ft.

Well elevation - river/stream elevation 130

Proposed Well depth 600' +/- SWL — on

Sealed to — Depth first water found —

Cased to 500' +/- Perforations/screens —

Lined to — Perforations/screens —

Well tests and types —

Confined or unconfined? Confined probably Hydraulically connected? NO

Potential to cause substantial interference? NO

Conditioned water rights in area: yes

Other nearby water rights of record: yes

Density of nearby wells of record: low

Comments: See Application G-13408. The proposed well construction at the proposed locations will likely develop water from the deep basalt source which is found in Ordinance Critical GW Area, Port wells #1-4, Hillview Dairy irrigation wells and others. This source has declined in head about 170' since 1960. Although the source is quite large, there is no further water to appropriate in my judgement. The Department agreed when it denied application G-13408.

References used: Extensive local well data

Based on Wrong location

-Dm

1/24/97

Difficult to judge occurrence of unit common to Port #1-4 in this area

Oregon Water Resources Department

Quasi-Municipal/Municipal Water Use Permit Development Questionnaire

Permit Holder: PORT OF MORROW
Permit #G13765 **Application File #G14397**

Please indicate which of the following applies to the above referenced Quasi-Municipal or Municipal water use permit by checking the appropriate box:

1. The Permit is Ready for Final Proof and...

☐ a Claim of Beneficial Use and Final Proof Survey map will be prepared and submitted by a Certified Water Rights Examiner;

- OR -

☐ the Water Resources Department (WRD) has been notified that development of the permit is complete, and the permit holder is waiting for WRD to conduct the final proof survey.

2. Development of the Permit is Not Complete and...

☑ the permit holder will submit a permit extension of time application to **WRD no later than 90 days from the date of this letter (April 6, 2003).**

3. The Permit is Not Needed and Wish to Authorize Cancellation...

☐ the permit holder has determined that this permit is no longer needed and/or has chosen not to pursue development of the permit, and wishes to authorize its cancellation.

Signature of Authorized Personnel

04/03/03
Date

Please return completed form by April 6, 2003 to:
Water Resources Department
Attention: Lisa Juul
158 – 12th Street NE
Salem OR 97301-4172

RECEIVED
APR 04 2003
WATER RESOURCES DEPT
SALEM, OREGON

04-04-03P01:08 RCVD

Oregon
John A. Kitzhaber, M.D., Governor

Water Resources Department
Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

January 6, 2003

PORT OF MORROW
PO BOX 200 ONE MARINE DR
BOARDMAN OR 97818

REFERENCE: Permit #G13765 (App File #G14397) and the Adoption of New Administrative Rules for Municipal and Quasi-Municipal Water Use Permit Extensions

Dear Municipal and/or Quasi-Municipal Water Use Permit Holder:

The Water Resources Commission has adopted new administrative rules that govern the processing of Municipal and Quasi-Municipal permit extension requests. The new rules are contained in the Oregon Administrative Rules Chapter 690, Division 315 (OAR 690-315-0070 through 690-315-0100). If you wish to view a copy of the new Chapter 690, Division 315 Extension Rules, you may access the document from the Department's web page at:

http://www.wrd.state.or.us/cgi-bin/notices.pl?new _oars

The new rules implement many changes to the extension process for municipal and quasi-municipal permit holders. One of the most significant changes is that an extension is linked to the requirement to develop a Water Management and Conservation Plan under OAR Chapter 690, Division 86.

In preparation for implementing the new extension rules, the Department has reviewed its records and determined that the authorized date for completion of development for your water use permit has passed and that neither a permit extension of time application, nor a claim of beneficial use and final proof survey map, have been received.

As a result of this review, your water use permit falls into one of the three following categories:

1. Development is Not Complete

If development of your water use permit is not finished, you must submit an application for extension of time to complete construction of the water system and/or complete beneficial use of water to the full extent of the permit. You may access the "Application for Extension of Time for Quasi-Municipal and Municipal Water Use Permits" on the Department's website at:

http://www.wrd.state.or.us/publication/forms/index.shtml

2. Development is Complete and Final Proof Must be Submitted
If your water use permit was issued *after* July 9, 1987, and development of the permit is complete, you are required by law (ORS 537.230 and/or 537.630) to hire a certified water rights examiner to prepare and submit a claim of beneficial use and final proof survey map.

3. Development is Complete and Waiting for WRD to Conduct Final Proof Survey
If you applied for or received a permit ***on or before July 9, 1987***, and development of the permit is complete, you must notify the Department that the work has been completed and choose to either: **(a)** hire a water right examiner certified under ORS 537.798 to conduct a survey, the original to be submitted as required by the Water Resources Department, for issuance of a water right certificate; ***or*** **(b)** continue to appropriate water under the water right permit until the Water Resources Department conducts a survey and the commission issues a water right certificate under ORS 537.250 or 537.625.

4. Permit is Not Needed and Wish to Authorize Cancellation
If you have determined that this permit is no longer needed and/or you have chosen not to pursue development of the permit, you may choose to authorize its cancellation. If you are interested in this option, please contact Jerry Sauter of our Department at extension 274 for the appropriate cancellation form.

Once you have determined which development category applies to your water use permit, please complete the enclosed "Quasi-Municipal/Municipal Water Use Permit Development Questionnaire" form and return it to my attention at the Water Resources Department by April 6, 2003.

If you would like the new rules or extension application forms sent to you by mail, or if have any questions, please feel free to contact me by telephone at 503-378-8455, extension 272.

Sincerely,

Lisa J. Juul
Water Rights Specialist
Water Rights Section

enclosure

cc: App File #G14397 (Permit #G13765)

Oregon Water Resources Department

Quasi-Municipal/Municipal Water Use Permit Development Questionnaire

Permit Holder: PORT OF MORROW
Permit #G13765 Application File #G14397

Please indicate which of the following applies to the above referenced Quasi-Municipal or Municipal water use permit by checking the appropriate box:

1. The Permit is Ready for Final Proof and…

❑ a Claim of Beneficial Use and Final Proof Survey map will be prepared and submitted by a Certified Water Rights Examiner;

- OR -

❑ the Water Resources Department (WRD) has been notified that development of the permit is complete, and the permit holder is waiting for WRD to conduct the final proof survey.

2. Development of the Permit is Not Complete and…

❑ the permit holder will submit a permit extension of time application to **WRD no later than 90 days from the date of this letter (April 6, 2003).**

3. The Permit is Not Needed and Wish to Authorize Cancellation…

❑ the permit holder has determined that this permit is no longer needed and/or has chosen not to pursue development of the permit, and wishes to authorize its cancellation.

_____ _____
Signature of Authorized Personnel Date

Please return completed form by April 6, 2003 to:
Water Resources Department
Attention: Lisa Juul
158 – 12th Street NE
Salem OR 97301-4172

STATE OF OREGON

COUNTY OF MORROW

Superseded by Permit #G-13765

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

PORT OF MORROW
PO BOX 200 ONE MARINE DR (541)481-7678
BOARDMAN, OREGON 97818

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-14397

SOURCE OF WATER: TWO WELLS IN COLUMBIA RIVER BASIN

PURPOSE OR USE: MUNICIPAL AND IRRIGATION OF 301.0 ACRES

301 x .0125 = 3.76

MAXIMUM RATE: 4.96 CFS, BEING 1.2 CFS FOR MUNICIPAL AND 3.76 CFS FOR IRRIGATION

PERIOD OF USE: YEAR ROUND FOR MUNICIPAL USE, AND MARCH 1 THROUGH OCTOBER 31 FOR IRRIGATION

DATE OF PRIORITY: October 23, 1996

POINT OF DIVERSION LOCATION: NE 1/4 SW 1/4, SECTION 21, NW 1/4 SW 1/4, SECTION 22, T 4N, R24E, W.M.; WELL 2 - 2085 NORTH AND 2650 WEST FROM THE SE CORNER SECTION 21; WELL 1 - 2580 FEET NORTH & 60 FEET EAST FROM SW CORNER SECTION 22

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

MUNICIPAL

WITHIN THE SERVICE BOUNDARIES

IRRIGATION

NE 1/4	SW 1/4	8.0 ACRES
SE 1/4	SW 1/4	19.0 ACRES
NE 1/4	SE 1/4	37.0 ACRES
NW 1/4	SE 1/4	25.0 ACRES
SW 1/4	SE 1/4	35.0 ACRES
SE 1/4	SE 1/4	37.0 ACRES
	SECTION 21	
NE 1/4	SW 1/4	37.5 ACRES
NW 1/4	SW 1/4	24.0 ACRES

SW 1/4 SW 1/4 24.0 ACRES
SE 1/4 SW 1/4 37.5 ACRES
NW 1/4 SE 1/4 8.5 ACRES
SW 1/4 SE 1/4 8.5 ACRES
SECTION 22
TOWNSHIP 4 NORTH, RANGE 24 EAST, W.M.

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

The water user shall develop a plan to monitor and report the impact of water use under this permit on water levels within the aquifer that provides water to the permitted well(s). The plan shall be submitted to the Department within one year of the date the permit is issued and shall be subject to the approval of the Department. At a minimum, the plan shall include a program to periodically measure static water levels within the permitted well(s) or an adequate substitute such as water levels in nearby wells. The plan shall also stipulate a reference water level against which any water-level declines will be compared. If a well listed on this permit (or replacement well) displays a total static water-level decline of 25 or more feet over any period of years, as compared to the reference level, then the water user shall discontinue use of, or reduce the rate or volume of withdrawal from, the well(s). Such action shall be taken until the water level recovers to above the 25-foot decline level or until the Department determines, based on the water user's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights. The water user shall in no instance allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department

approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

Within one year of permit issuance, the appropriator shall prepare a plan for the Water Resources Commission which shall indicate the steps for obtaining an alternate long term water supply.

Within 1 year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

Under this permit, groundwater shall not be produced from the basalt source developed by Port of Morrow wells #1 and #4, identified in Department records as MORR 752 and MORR 1526.

STANDARD CONDITIONS

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Actual construction of the well shall begin within one year from permit issuance. Complete application of water to the use shall be made on or before October 1, 2002.

Issued December 29, 1997

Martha O. Pagel, Director
Water Resources Department

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-14397

Final Order

Application History

On October 23, 1996, PORT OF MORROW submitted an application to the Department for a water use permit. The Department issued a Proposed Final Order on September 16, 1997. The protest period closed October 31, 1997, and no protest was filed.

The proposed use would not impair or be detrimental to the public interest, but the Department's continuing evaluation reveals that the Proposed Final Order requires modification to describe the quantity and character of use as amended by the applicant on November 17, 1997.

Order

Upon payment of outstanding permit recording fees, Application G-14397 shall be approved as modified above and as conditioned in the attached draft permit.

Permit recording fees are required in the amount of $ 982.00. Said fees are due and payable no later than 60 days from the date of this Final Order. Failure to pay the required permit recording fees within 60 days from the date of this Final Order will result in the proposed rejection of Application G-14397.

DATED November 28, 1997

Martha O. Pagel
Director

PLACED IN U.S. MAIL
DEC 1 1 1997
OREGON WATER RESOURCES DEPT.

Hearing and Appeal Rights

Under the provisions of ORS 537.170 and ORS 537.622, the applicant may request a contested case hearing by submitting the information required for a protest under ORS 537.153(6) or ORS 537.621(7) to the Department within 14 days after the date of mailing of this order as shown below. If a contested case hearing is requested, the Department must schedule one. In the contested case hearing, however, only those issues based on the above modifications to the proposed final order may be addressed.

STATE OF OREGON

COUNTY OF MORROW

DRAFT PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS DRAFT PERMIT IS HEREBY ISSUED TO

PORT OF MORROW
PO BOX 200 ONE MARINE DR (541)481-7678
BOARDMAN, OREGON 97818

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-14397

SOURCE OF WATER: TWO WELLS IN COLUMBIA RIVER BASIN

PURPOSE OR USE: MUNICIPAL USE AND IRRIGATION OF 301.0 ACRES

MAXIMUM RATE: 4.96 CUBIC FOOT PER SECOND (CFS) TOTAL, BEING NOT MORE THAN 4.96 CFS FOR MUNICIPAL USE OR NOT MORE THAN 3.76 CFS FOR IRRIGATION

PERIOD OF USE: YEAR ROUND FOR MUNICIPAL USE, AND MARCH 1 THROUGH OCTOBER 31 FOR IRRIGATION

DATE OF PRIORITY: October 23, 1996

POINT OF DIVERSION LOCATION: NE 1/4 SW 1/4, SECTION 21, NW 1/4 SW 1/4, SECTION 22, T 4N, R24E, W.M.; WELL 2 - 2085 NORTH AND 2650 WEST FROM THE SE CORNER SECTION 21; WELL 1 - 2580 FEET NORTH & 60 FEET EAST FROM SW CORNER SECTION 22

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

MUNICIPAL

WITHIN THE PORT OF MORROW
SERVICE AREA

IRRIGATION

NE 1/4	SW 1/4	8.0 ACRES
SE 1/4	SW 1/4	19.0 ACRES
NE 1/4	SE 1/4	37.0 ACRES
NW 1/4	SE 1/4	25.0 ACRES
SW 1/4	SE 1/4	35.0 ACRES
SE 1/4	SE 1/4	37.0 ACRES

SECTION 21

NE 1/4 SW 1/4 37.5 ACRES
NW 1/4 SW 1/4 24.0 ACRES
SW 1/4 SW 1/4 24.0 ACRES
SE 1/4 SW 1/4 37.5 ACRES
NW 1/4 SE 1/4 8.5 ACRES
SW 1/4 SE 1/4 8.5 ACRES
SECTION 22
TOWNSHIP 4 NORTH, RANGE 24 EAST, W.M.

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

The water user shall develop a plan to monitor and report the impact of water use under this permit on water levels within the aquifer that provides water to the permitted well(s). The plan shall be submitted to the Department within one year of the date the permit is issued and shall be subject to the approval of the Department. At a minimum, the plan shall include a program to periodically measure static water levels within the permitted well(s) or an adequate substitute such as water levels in nearby wells. The plan shall also stipulate a reference water level against which any water-level declines will be compared. If a well listed on this permit (or replacement well) displays a total static water-level decline of 25 or more feet over any period of years, as compared to the reference level, then the water user shall discontinue use of, or reduce the rate or volume of withdrawal from, the well(s). Such action shall be taken until the water level recovers to above the 25-foot decline level or until the Department determines, based on the water user's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights. The water user shall in no instance allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of

water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

Within one year of permit issuance, the appropriator shall prepare a plan for the Water Resources Commission which shall indicate the steps for obtaining an alternate long term water supply.

Within one year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

Under this permit, groundwater shall not be produced from the basalt source developed by Port of Morrow wells #1 and #4, identified in Department records as MORR 752 and MORR 1526.

STANDARD CONDITIONS

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Actual construction of the well shall begin within one year from permit issuance. Complete application of the water to the use shall be made on or before October 1, 2001.

Issued _____, 199_

DRAFT - THIS IS NOT A PERMIT

_____
Martha O. Pagel, Director
Water Resources Department

FO CHECKLIST

FILE # G-14397

WEEK # ~~113~~ 112

PFO TO FO CONVERSION

REVIEW DATE: 11 / 14 / 97

INITIALS : DB

In preparing the FO, you should check the following:

1. (Y) / N Were comments or protests received? If so, **from whom** and **when**? Applicant 10/3/97
2. ____ On the PFO CC list, verify names and addresses of **ALL** commentors (regardless of comment date), **affected landowners**, and **those who paid the $10 fee.**
3. Y / N / (NA) If for Surface water, ~~Have~~ affected landowners been notified?
4. (Y) / N Is the file lacking a signed oath of accuracy for the application?
5. Y / N / (NA) Has ODFW asked for self certification of screening condition? If so, write "ODFW CERT" in the permit blank on the front of the file.
6. Y / (N) Is water use prohibited for one or more months of the normal use period?
7. ~~Y / N~~ If # 6 = "Y", is short season letter on file? Note: If short season letter is lacking, see Item #10 below. Give applicant 60 days to submit required information.
8. 982 Verify payment of recording fees (*circle the appropriate option*) 5 CFS municipal
   (1) Issue FO w/permit if fees are paid -- Prepare refund request for excess fees, **including standing fees if no protest is filed and no modifications are being made to the PFO**
   (2) Issue FO w/o permit if fees are lacking

   100 1st CFS municipal
   200 4 X 50
   100 IRR
   502 2 X 241
   982
9. Y / (N) Is further processing possible? If not state reason: Incomplete Application
10. ____ Notify applicant of additional information or fees required prior to permit issuance. **(SEND CERTIFIED LETTER** & use standard wording from M:\...\FO\TOOLS if possible)
11. ____ Assign permit numbers to files with oath, fees, and no protests or other issues
12. (Y) / N Do the PFO conclusions requires modification? Why? To Amend Application
    (If YES, circle FOMOD and one other type below)

FO Type: (circle types) DENIAL FO w/o PERMIT (Fees, sign, OATH) FO & PERMIT FOMOD

COMMENTS:	MGMT CODES:
Δ use per 10/1/97 letter to municipal IRR of 301 ACRES Application Not Signed As Req'd by OAR 690-310-040(1)(a)(M)	7A 7B

Modify FO as needed to: NO OATH see " " " (1)(a)(N)

Initials DB

13. ✓ Respond to significant comments, issues, or disputes related to the proposed use of water (see notes, if any, listed above)
14. ✓ Include or exclude permit conditions and management codes
15. ✓ Correct PFO errors (such as POD or POU location (verify from map), Permit format)

Once FO document is completed:

16. ✓ Save WordPerfect document in M:\...\FO\WEEK 113 & delete duplicates
17. ____ Print final draft of document and submit to team leader for review
18. Y / N Team leader review completed

Oregon Water Resources Department
Water Rights Division

Water Rights Application
Number G-14397

Proposed Final Order

Summary of Recommendation: The Department recommends that the attached draft permit be issued with conditions.

Application History

On October 23, 1996, PORT OF MORROW submitted an application to the Department for the following water use permit:

- Amount of Water: 2200 GALLONS PER MINUTE (4.96 CFS)
- Use of Water: MUNICIPAL AND IRRIGATION
- Source of Water: TWO WELLS IN COLUMBIA RIVER BASIN
- Area of Proposed Use: MORROW County within SECTION 21, SECTION 22, TOWNSHIP 4 NORTH, RANGE 24 EAST, W.M.

On 6/20/97, the Department mailed the applicant notice of its Initial Review, determining that *"The use of 4.96 CUBIC FEET PER SECOND, BEING 1.20 CFS FOR MUNICIPAL USE AND 3.76 CFS FOR IRRIGATION OF 301.0 ACRES, from TWO WELLS IN COLUMBIA RIVER BASIN is allowable. MUNICIPAL USE is allowable year-round, and IRRIGATION is allowable March 1 through October 31 of each year."* The applicant did not notify the Department to stop processing the application within 14 days of that date.

On 7/8/97, the Department gave public notice of the application in its weekly notice. The public notice included a request for comments, and information for interested persons about both obtaining future notices and a copy of the proposed final order.

No written comments were received within 30 days.

In reviewing applications, the Department may consider any relevant sources of information, including the following:
- comments by or consultation with another state agency
- any applicable basin program
- any applicable comprehensive plan or zoning ordinance
- the amount of water available
- the rate and duty for the proposed use
- pending senior applications and existing water rights of record

- designations of any critical groundwater areas
- the Scenic Waterway requirements of ORS 390.835
- applicable statutes, administrative rules, and case law
- any general basin-wide standard for flow rate and duty of water allowed
- the need for a flow rate and duty higher than the general standard
- any comments received

Findings of Fact

The Umatilla Basin Program allows the following uses: MUNICIPAL AND IRRIGATION

TWO WELLS IN COLUMBIA RIVER BASIN are not within or above a State Scenic Waterway.

An assessment of water availability has been completed. This assessment was completed by the Department's groundwater section. A copy of this assessment is in the file. This assessment determined that water is available for further appropriation year round.

The Department finds that no more than 4.96 CFS would be necessary for the proposed use. The amount of water requested, 4.96 CFS, being 1.2 CFS for municipal use and 3.76 CFS for irrigation, is allowable.

The Department determined, based upon OAR 690-09, that the proposed groundwater use will not have the potential for substantial interference with the nearest surface water source, namely Columbia River.

The Groundwater Section finds that there **is NOT** a preponderance of evidence that the proposed use of groundwater 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.

Conclusions of Law

Under the provisions of ORS 537.621, the Department must presume that a proposed use will ensure the preservation of the public welfare, safety and health if the proposed use is allowed in the applicable basin program established pursuant to ORS 536.300 and 536.340 or given a preference under ORS 536.310(12), if water is available, if the proposed use will not injure other water rights and if the proposed use complies with rules of the Water Resources Commission.

The proposed use requested in this application is allowed in the Umatilla Basin Plan.

No preference for this use is granted under the provisions of ORS 536.310(12).

Water is available for the proposed use.

The proposed use will not injure other water rights.

The proposed use complies with rules of the Water Resources Commission.

The proposed use complies with the State Agency Agreement for land use.

For these reasons, the required presumption has been established.

Under the provisions of ORS 537.621, once the presumption has been established, it may be overcome by a preponderance of evidence that either:

(a) One or more of the criteria for establishing the presumption are not satisfied; or

(b) The proposed use would not ensure the preservation of the public welfare, safety and health as demonstrated in comments, in a protest . . . or in a finding of the department that shows:

  (A) The specific aspect of the public welfare, safety and health under ORS 537.525 that would be impaired or detrimentally affected; and

  (B) Specifically how the identified aspect of the public welfare, safety and health under ORS 537.525 would be impaired or be adversely affected.

In this application, all criteria for establishing the presumption have been satisfied, as noted above. The presumption has not been overcome by a preponderance of evidence that the proposed use would impair or be detrimental to the public interest.

The Department therefore concludes that water is available in the amount necessary for the proposed use; the proposed use will not result in injury to existing water rights; and the proposed use would ensure the preservation of the public welfare, safety and health as described in ORS 537.525.

Recommendation

The Department recommends that the attached draft permit be issued with conditions.

DATED September 16, 1997

Dwight French
Water Rights Section Manager

Protest Rights

Under the provisions of 537.621(7), you have the right to protest this proposed final order. Your protest must be in writing, and must include the following:

- Your name, address, and telephone number;
- A description of your interest in the proposed final order, and, if you claim to represent the public interest, a precise statement of the public interest represented;
- A detailed description of how the action proposed in this proposed final order would impair or be detrimental to your interest;
- A detailed description of how the proposed final order is in error or deficient, and how to correct the alleged error or deficiency;
- Any citation of legal authority to support your protest, if known; and
- If you are not the applicant, the $200 protest fee required by ORS 536.050 and proof of service of the protest upon the applicant.
- If you are the applicant, a statement of whether or not you are requesting a contested case hearing. If you do not request a hearing, the Department will presume that you do not wish to contest the findings of the proposed final order.
- <u>If you do not protest this Proposed Final Order and if no substantive changes are made in the final order, you will not have an opportunity for judicial review, protest or appeal of the final order when it is issued.</u>

Your protest must be received in the Water Resources Department no later than **October 31, 1997.**

After the protest period has ended, the Director will either issue a final order or schedule a contested case hearing. The contested case hearing will be scheduled only if a protest has been submitted and if

- upon review of the issues, the director finds that there are significant disputes related to the proposed use of water, or
- the applicant requests a contested case hearing within 30 days after the close of the protest period.

RWK-111

DRAFT This is not a permit!!! DRAFT

STATE OF OREGON

COUNTY OF MORROW

DRAFT PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS DRAFT PERMIT IS HEREBY ISSUED TO

PORT OF MORROW
PO BOX 200 ONE MARINE DR (541)481-7678
BOARDMAN, OREGON 97818

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-14397

SOURCE OF WATER: TWO WELLS IN COLUMBIA RIVER BASIN

PURPOSE OR USE: MUNICIPAL AND IRRIGATION OF 301.0 ACRES

MAXIMUM RATE: 4.96 CFS, BEING 1.2 CFS FOR MUNICIPAL AND 3.76 CFS FOR IRRIGATION

PERIOD OF USE: YEAR ROUND FOR MUNICIPAL USE, AND MARCH 1 THROUGH OCTOBER 31 FOR IRRIGATION

DATE OF PRIORITY: October 23, 1996

POINT OF DIVERSION LOCATION: NE 1/4 SW 1/4, SECTION 21, NW 1/4 SW 1/4, SECTION 22, T 4N, R24E, W.M.; WELL 2 - 2085 NORTH AND 2650 WEST FROM THE SE CORNER SECTION 21; WELL 1 - 2580 FEET NORTH & 60 FEET EAST FROM SW CORNER SECTION 22

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

MUNICIPAL

WITHIN THE SERVICE BOUNDARIES

IRRIGATION

NE 1/4	SW 1/4	8.0	ACRES
SE 1/4	SW 1/4	19.0	ACRES
NE 1/4	SE 1/4	37.0	ACRES
NW 1/4	SE 1/4	25.0	ACRES
SW 1/4	SE 1/4	35.0	ACRES
SE 1/4	SE 1/4	37.0	ACRES

SECTION 21

NE 1/4 SW 1/4 37.5 ACRES
NW 1/4 SW 1/4 24.0 ACRES
SW 1/4 SW 1/4 24.0 ACRES
SE 1/4 SW 1/4 37.5 ACRES
NW 1/4 SE 1/4 8.5 ACRES
SW 1/4 SE 1/4 8.5 ACRES
SECTION 22
TOWNSHIP 4 NORTH, RANGE 24 EAST, W.M.

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

The water user shall develop a plan to monitor and report the impact of water use under this permit on water levels within the aquifer that provides water to the permitted well(s). The plan shall be submitted to the Department within one year of the date the permit is issued and shall be subject to the approval of the Department. At a minimum, the plan shall include a program to periodically measure static water levels within the permitted well(s) or an adequate substitute such as water levels in nearby wells. The plan shall also stipulate a reference water level against which any water-level declines will be compared. If a well listed on this permit (or replacement well) displays a total static water-level decline of 25 or more feet over any period of years, as compared to the reference level, then the water user shall discontinue use of, or reduce the rate or volume of withdrawal from, the well(s). Such action shall be taken until the water level recovers to above the 25-foot decline level or until the Department determines, based on the water user's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights. The water user shall in no instance allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

Within one year of permit issuance, the appropriator shall prepare a plan for the Water Resources Commission which shall indicate the steps for obtaining an alternate long term water supply.

Within 1 year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

Under this permit, groundwater shall not be produced from the basalt source developed by Port of Morrow wells #1 and #4, identified in Department records as MORR 752 and MORR 1526.

STANDARD CONDITIONS

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Actual construction of the well shall begin within one year from permit issuance. Complete application of the water to the use shall be made on or before October 1, 2001.

Issued _____, 199_

DRAFT - THIS IS NOT A PERMIT

_____
Water Resources Department
Director

Application No. G-14397 Amendment

State of Oregon
WATER RESOURCES DEPARTMENT

Application for a Permit to Appropriate Groundwater

Applicant(s) PORT OF MORROW
(Please print or type - use dark ink)

Mailing Address: ONE MARINE DRIVE, P. O. BOX 200
BOARDMAN (City) OREGON (State) 97818 (zip) 541-481-7678 (Daytime Phone No.)

I (We) make application for a permit to appropriate the following described ground waters of the State of Oregon:

1. **THE DEVELOPMENT** (number of wells, tile lines infiltration galleries, etc.): 2 WELLS & ASSOCIATED DELIVERY SYSTEM LINES

If development is less than one mile from a natural stream, give the following:

Distance from development to stream: 2 MILES TO THE COLUMBIA RIVER

Elevation difference between streambed and development: 100 FT.

NOTE: Wells must be constructed according to standards set by the department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well driller's log with this application, and skip to Section 2 below.

Diameter of well: 12 INCH Depth in feet: 600 +/-
Type and size of well Casing: 12 INCH, STEEL No. of feet: 500 +/-
Estimated depth to water: 500 +/-
Type of access port or measuring device AIR LINE

Wells to be drilled by: NOT DETERMINED AT THIS TIME
Address: N/A
If the water well is flowing artesian, describe your water control and conservation works:

2. **TOTAL AMOUNT OF WATER** to be applied to beneficial use. 4.9 cubic feet per second, **OR** 2200 gallons per minute. If water is to be used from more than one groundwater source, give the quantify of water from each: 1100 GPM FROM EACH WELL
2200 GPM TOTAL FOR BOTH WELLS

3. *INTENDED USE(s) OF WATER:* ***MUNICIPAL USES TO INCLUDE INDUSTRIAL, IRRIGATION OF 301 ACRES, AND ASSOCIATED USES FOR AIRPORT FACILITIES***

If for more than one use, give the quantity of water from each source for each use; ***Up to 3.76 CFS for Irrigation***

If for ***DOMESTIC*** *use, state the number of households to be supplied;*

If for ***MUNICIPAL OR QUASI-MUNICIPAL*** *use, state the present population to be served, and an estimate of the future requirements; (List population projections, water needs, anticipated areas to be provided water.)* ***The Airport Area Facility Supports Two Industries at This Time with a Total of 2500 Acres of Industrial Area Available for Future Development.***

If for ***MINING*** *use, state the nature (gold, silver, etc.) of the mines to be served;* _____

If for ***IRRIGATION,*** *or other land area use, state the TOTAL number of acres to be developed under each use;*

Irrigation _____

Other (describe) _____

4. ***DESCRIPTION OF WATER DELIVERY SYSTEM:*** *Include dimensions and type of construction of divers ion works, length and dimensions of supply ditches or pipelines, size and type of pump and motor. If for irrigation, describe the type of system (i.e., flood, wheel line, hand line, drip, other).*

The Water Delivery System Will be a PVC mainline System that will Link the Two Wells and the Water Users - to Include the Water Needs of the Municipal Airport and the Associated Demands Created by the Airport. The Water Use Will Also Include the Existing and Future Industrial Users in and around the Airport Facility and the Irrigation of 301 Acres of Land through both direct application and through the secondary use from the Industrial processes

5. ***PROJECT SCHEDULE:*** *(List month and year)*

Proposed date construction work will begin ***October, 1996***

Proposed date construction work will be completed ***October, 1997***

Proposed date water use will be completed ***October, 1998***

NOTE: Prior to the issuance of a permit it will be necessary to submit a map prepared by a Certified Water Right Examiner (CWRE) and a complete legal description of the property on which the water is to be used. The legal description may be copied from your deed, title insurance policy, or land sales contract.

6. *a) In the event any deficiencies are noted involving the application map enclosed herein, please return the map with instructions for correction to (check one):*

   ___X___ *Applicant* _____ *CWRE* _____ *Other (Identify in REMARKS section)*

   b) In the event any deficiencies are noted involving the application, please return the application with instructions for correction to (check one):

   ___X___ *Applicant* _____ *CWRE* _____ *Other (Identify in REMARKS section)*

7. *Are all lands involved (including the proposed diversion site, place of use, and access for conveying the water) under your ownership? If not, list in the REMARKS section below, or on an attached sheet, the names and mailing addresses of the legal owners of all property involved in the proposed development.*

   NOTE: Prior to receiving a certificate of water right, the permit holder must submit to the Water Resources Department the results of a pump test meeting the department's standards. The Director will require water level or pump test results every ten years thereafter.

REMARKS:

I/We certify that the information I have provided in this application is an accurate representation of the proposed water use and is true and correct to the best of my knowledge:

_____ _____

Signature *Date*

_____ _____

Signature *Date*

FOR WATER RESOURCES DEPARTMENT USE ONLY

Dear Applicant:

I certify that I have examined the foregoing application, together with the accompanying information, and am returning it to you for:

In order to retain its tentative priority, this application must be returned with the requested corrections or additions on or before:

_____ 19_____.

WITNESS my hand this _____ day of _____, 19____.

Water Resources Director

By:

This instrument was first received in the office of the Water Resources Director at _____

Oregon, on the _____ day of _____, 19____, at _____ o'clock, ____ M.

APPLICATION NO: _____

A:APPF0RM 1/94

Application No. G-14397 Amendment

RECEIVED
JUN - 9 1997
WATER RESOURCES DEPT.
SALEM, OREGON

State of Oregon
WATER RESOURCES DEPARTMENT

Application for a Permit to Appropriate Groundwater

Applicant(s) PORT OF MORROW
(Please print or type - use dark ink)

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NOTE: Wells must be constructed according to standards set by the department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well driller's log with this application, and skip to Section 2 below.

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Type and size of well Casing: 12 INCH, STEEL *No. of feet:* 500 +/-
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Type of access port or measuring device AIR LINE

Wells to be drilled by: NOT DETERMINED AT THIS TIME
Address: N/A
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2200 GPM TOTAL FOR BOTH WELLS

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If for more than one use, give the quantity of water from each source for each use; ***Up to 3.76 CFS for Irrigation***

If for ***DOMESTIC*** *use, state the number of households to be supplied;*

If for ***MUNICIPAL OR QUASI-MUNICIPAL*** *use, state the present population to be served, and an estimate of the future requirements; (List population projections, water needs, anticipated areas to be provided water.)* ***The Airport Area Facility Supports Two Industries at This Time with a Total of 2500 Acres of Industrial Area Available for Future Development.***

If for ***MINING*** *use, state the nature (gold, silver, etc.) of the mines to be served;* _____

If for ***IRRIGATION,*** *or other land area use, state the TOTAL number of acres to be developed under each use;*

Irrigation _____

Other (describe) _____

4. *DESCRIPTION OF WATER DELIVERY SYSTEM: Include dimensions and type of construction of divers ion works, length and dimensions of supply ditches or pipelines, size and type of pump and motor. If for irrigation, describe the type of system (i.e., flood, wheel line, hand line, drip, other).*

The Water Delivery System Will be a PVC mainline System that will Link the Two Wells and the Water Users - to Include the Water Needs of the Municipal Airport and the Associated Demands Created by the Airport. The Water Use Will Also Include the Existing and Future Industrial Users in and around the Airport Facility and the Irrigation of 301 Acres of Land through both direct application and through the secondary use from the Industrial processes

5. *PROJECT SCHEDULE: (List month and year)*

Proposed date construction work will begin ***October, 1996***
Proposed date construction work will be completed ***October, 1997***
Proposed date water use will be completed ***October, 1998***

NOTE: Prior to the issuance of a permit it will be necessary to submit a map prepared by a Certified Water Right Examiner (CWRE) and a complete legal description of the property on which the water is to be used. The legal description may be copied from your deed, title insurance policy, or land sales contract.

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NOTE: Prior to receiving a certificate of water right, the permit holder must submit to the Water Resources Department the results of a pump test meeting the department's standards. The Director will require water level or pump test results every ten years thereafter.

REMARKS:

I/We certify that the information I have provided in this application is an accurate representation of the proposed water use and is true and correct to the best of my knowledge:

Signature CWRE #202 *Date* 11/17/97

Signature *Date*

FOR WATER RESOURCES DEPARTMENT USE ONLY

Dear Applicant:

I certify that I have examined the foregoing application, together with the accompanying information, and am returning it to you for:

In order to retain its tentative priority, this application must be returned with the requested corrections or additions on or before:

_____ 19_____.

WITNESS my hand this _____ day of _____, 19____.

Water Resources Director

By:

This instrument was first received in the office of the Water Resources Director at _____

Oregon, on the _____ day of _____, 19____, at _____ o'clock, ____ M.

APPLICATION NO: _____

A:APPFORM 1/94

Port of Morrow Fax Transmission

P.O. Box 200 Boardman, OR 97818
Phone: (541) 481-7678 Fax: (541) 481-2679

To: Dwight French Date: 11/17/97

Fax #: 503-378-6203 Pages: 5, including this cover sheet

From:

- ☐ Gary Neal, General Manager
- ☑ Ron McKinnis PE, PLS, WRE - Engineering/Planning/Water Rights
- ☐ Lisa Mittelsdorf, Director of Economic Development
- ☐ Greg Smith, Business Development & Finance
- ☐ Shirley Thompson, Controller
- ☐ Kathleen McGowan, Administrative Secretary
- ☐ Sherri Hyder, Office Assistant

COMMENTS:

Signed Copy of Amended Appl.

PORT OF MORROW
MORROW COUNTY OREGON
P.O. Box 200, Boardman, OR 97818
(541) 481-PORT • Fax (541) 481-2679

Mr. Dwight French, Administrative Assistant
Water Rights and Adjudication Division
Oregon Water Resources Department
158 12th Street NE
Salem, Oregon 97310-0210

October 1, 1997

Ref. Application G-14397 Clarification

Dear Mr. French;

As, per our phone conversation Sept. 29, 1997 and as I explained in my letter of June 5, 1997, the Port intends to develop the airport industrial property in the same manner as we have done at our Port industrial park. This would include the development of agricultural lands which at first would be irrigated with direct flow from the wells. As the industrial activities are developed then the irrigation would continue through a secondary use. This secondary application of waters from industries would also be regulated by the Oregon Dept. of Environmental Quality.

Under our existing waste water permit, there is still a certain portion of the total irrigation which would be required to be fresh water to minimize nutrient loading. This means that direct application of water from the wells for irrigation will continue to be, to some extent, a standard operating procedure. The pending application was for " Municipal Use "which you felt could be somewhat awkward with the proposed direct irrigation.

In my June 5, 1997 letter, the Port of Morrow requested to amend this application, G-14397, to be: Municipal to Include Irrigation; for 4.96 CFS (2230 GPM) of which 3.76 CFS (1689 GPM) may be used for direct irrigation of 301 Acres.

TO CLARIFY THIS, the Port of Morrow would like to see the Proposed Final Order to state " 4.96 CFS for Municipal with up to 3.76 CFS for Irrigation with a Total Appropriation not to exceed 4.96 CFS for this permit." This was the intent of the amendment request on June 5th, 1997.

We appreciate the Department's cooperation in this matter.

Sincerely,

Ronald V. McKinnis PE, PLS, WRE
Port of Morrow Engineer

Oregon
John A. Kitzhaber, M.D., Governor

Water Resources Department
Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

November 14, 1997
via Certified Mail

PORT OF MORROW, ATTN: R MCKINNIS
PO BOX 200 ONE MARINE DR
BOARDMAN, OREGON 97818

REFERENCE: APPLICATION G14397

Your revised application has been received. Please note that the application was not signed. Your signature on the application is required by OAR 690-310-040 (1)(a)(M) and (N). Please sign the enclosed copy of your revised application and return it to this office at your earliest convenience.

Please submit your signed application by December 31, 1997. If we do not receive your signed application, or a request for a more time to comply with this request by December 31, 1997, we will reject your application consistent with ORS 537.153. If your application is rejected, the priority date associated with your application will be lost. In addition, the examination fee is non-refundable and will not be returned.

If you need further assistance please contact the Water Rights Section at the address listed above or phone (503) 378-3739.

Sincerely,

Douglas L. Baer
Senior Water Rights Technician

enclosure - copy of 6/9/97 application

CC: Watermaster, District 5
File

PFO CHECKLIST

Application #: G 14397

Basin: 7 UMAT WAB: _____

County MORROW Township 4N Range 24E Section 21, 22 1/4 1/4 NESW, NWSW

1. Is the file complete by the Completeness Checklist? Y / N
2. Shortcomings (items needed before a permit and/or FO can be issued) Y / N
3. Check file for indicators that the process **should not** continue until a later date (ie - protest, letter to file indicating hold, or other)
4. Groundwater Review A B C D River/Stream Name COLUMBIA R. Conditions _____
   a. Groundwater Availability A B C
   b. Is second groundwater review necessary? (comments) Y / N
   c. Is HB 1033 review complete? Y / N
5. If source is groundwater, is the well located in a groundwater limited area? (If applicable, include map with POD) Y / N
6. Is use from a B.O.R. project? Y / N Contract in file? Y / N Contract # _____
7. Is the use allowed by the Basin Program? Y / N Limited? Y / N _____
8. Water Availability Data **OK / REDONE / NA** (50% before July 17, 1992; 80% live flow & 50% storage after July 17, 1992)
9. Is the source withdrawn or limited by statute or Department withdrawal order? Y / N _____
10. Is the Proposed Use located in or above a Scenic Waterway? Y / N _____
11. Division 33: Above Bonn (after July 17, 1992) Y / N / NA
    Below Bonn (after April 8, 1994; June 3, 1994) Y / N / NA
    Statewide - (in shaded areas on T, E, and S Map - after June 3, 1994) Y / N / NA
12. Have conflicts been identified, verified and/or addressed? Y / N _____
13. Rate 4.96 Duty _____ Irrigation Season _____
14. Period of Allowed Use YR RND MU / 3-10/31 IRR
15. Allowed Rate of Use 4.96 BEING 1.2 MU & 3.76 IRR 301
16. Is the use **Small** (≤0.1cfs, ≤9.2AF), **Medium** (>0.1 or <1.5cfs, >9.2 or <100AF) or **Large** (≥1.5 cfs, ≥100 AF)?
17. Conditions 7A, 1 YR CONPLAN, 7B, GW NOT PRODUCED FROM BASALTS OF WELL 184
18. IR Public Notice Date 6/20/97; 7/8/97
19. Documents used in determination are attached and highlighted
20. Spell Check
21. Check for Accuracy
22. Final PFO report hard copy check (format, margins, etc.)
23. Final PFO has been saved to m:\groups\wr\pfo\done\week#\application #
24. Fill out PFO CC List (don't forget to check for other property owners)
    a. Re-notify Water Availability? (Rate, Duty and Period of Allowed Use changes) Y / N

Name: RWK Date: _____

Revised 8/13/97

IR CHECKLIST

Application #: G 14397 Vol ___ Subbasin ___

Umatilla Basin: 507 WAB: ___ POU-WAB ___

Township 4N Range 24E Section 15-22 1/4 1/4 ___

1. Completeness checklist verified. Y / N or No Checklist
2. Indicators that the process **should not** continue (ie - protest, items missing, letter to file indicating hold, or other) Y / N
3. Groundwater review A B C D 7A, Sreve gw review
   a. Is the well located in a groundwater limited area? Y / N ___
4. SWW Y / N Triage Y / N conditions/restrictions Y / N ___
5. Basin Program limitations? Y / N ___
6. Withdrawn? Y / N season allowed ___
7. Basin Maps have been checked. Y / N The River Mile is ___
8. Water Availability (50% < July 17, 1992 ** 80% [50% storage] > July 17, 1992) NA ___
9. Rate/Duty/Season 1/80 2.5 3/1-10/31 for SWR
10. Use Municipal Period of Allowed Use Year Round -MU, 3/1-10/31 IRR
11. Priority Date(s) 10-23-96
12. B.O.R. project Y / N contract # ___
13. TMDL Basin? Y / N (Tualatin, Yamhill, Pudding) DIVISION 33 Y / N New or Old? Map Date ___
14. Conflicts Y / N ___
15. Conditions? (BOR, GW, other) Y / N 7A, Sreve gw review, 1yr com plan per. M. Richter
16. Land use approval OK'd needs approval county notified NA
17. Watermaster Dist: (1 2 16 18 - NWR) (3 4 5 - NCR) (6 8 9 10 - ER) (11 12 17 - SCR) (14 15 19 - SWR)
18. Letter will be Good Limited Bad Bad w/IRshort because ___

requesting ~~4.9~~ 4.96 cfs from 2 wells, 3.76 IR 301 AC, 1.2 MU

Name: Laura Snedaker Date: 2-4-97

save to m:\t\ir\sent\app#.w51

(a) Classification: permits to use ground water may be issued only for the following classified uses:

(A) The ground water resources of the Birch and McKay Creeks subbasin are classified for statutorily exempt ground water uses (see definition), irrigation, municipal, industrial, power development, low temperature geothermal, mining, fish life, wildlife, recreation, pollution abatement, and artificial ground water recharge; and

(B) Ground water from the basalt reservoir in a five-mile radius around any municipal well of the cities of Pendleton and Pilot Rock is classified for municipal, group domestic and statutorily exempt ground water uses (see definition) only. Other uses may be permitted if it is documented that a barrier to ground water movement separates a proposed well from municipal wells and there will be no interference with municipal wells. Applications for other uses of ground water within a five-mile radius of a municipal well shall automatically be referred to the Commission for review and consideration of public interest unless the affected city affirms that it is in favor of the proposed appropriation. This classification applies only when the affected city(ies) have a full-time conservation program in effect.

(b) Permits issued to appropriate ground waters that may be hydraulically connected with surface water shall be specially conditioned. The condition shall specify that when exercise of the permit unduly interferes with surface water, the permit will be regulated in favor of the surface water source.

Columbia-Umatilla Plateau Subbasin

690-507-070

(1) Objectives: in developing a program for the management, use and control of the surface and ground water resources of the Columbia-Umatilla Plateau subbasin, the Commission has the following objectives:

(a) Protect instream values in the Umatilla River main stem by closing the main stem to future appropriations during the low flow season and limiting future appropriations during the high flow season to selected nonirrigation or nonconsumptive uses.

(b) Permit future surface water storage for any beneficial use.

(c) Permit artificial ground water recharge to offset declining ground water levels and supplement existing ground water uses.

(d) Achieve a balance between ground water pumpage and natural recharge in designated critical ground water areas and ground water study areas.

(e) Protect municipal ground water supplies.

(f) Prevent new appropriations from causing ground water/surface water interference.

(2) Surface Water: appropriation and use of surface water in the Columbia-Umatilla Plateau subbasin shall comply with the following provisions:

(a) Umatilla River and tributaries are withdrawn from further appropriation of unappropriated waters during the period June 1 through October 31 each year. The withdrawal does not apply to domestic, livestock, fish and wildlife uses or water released from storage. This action was taken by the Commission on December 2, 1985.

(b) Classification: permits to use surface water may be issued only for the following classified uses:

(A) Subject to the provisions of OAR 690-507-050 (2)(c)(B) and (C), the surface waters of the Umatilla River main stem are classified for domestic, livestock, irrigation of noncommercial lawn and garden not to exceed 1/2 acre, frost control, municipal, industrial, mining, fish life, wildlife, recreation, pollution abatement, artificial ground water recharge and public instream uses during the period November 1 through May 31 each year. This classification rescinds the Commission's order of December 2, 1985, withdrawing the Umatilla River and tributaries from further appropriation from November 1 through May 31 each year until December 31, 1988.

(B) The surface waters of Umatilla River tributaries are classified for domestic, livestock, irrigation, frost control, power development (subject to the limitations of OAR Chapter 690,Division 51), mining, pollution abatement and artificial ground water recharge during the period November 1 through May 31 each year; and

(C) The surface waters of all other streams are classified for domestic, livestock, irrigation, frost control, power development (subject to limitations of OAR Chapter 690, Division 51), mining and artificial ground water recharge.

(c) Storage: surface waters, legally stored during the period November 1 through May 31, and legally released, may be used for any beneficial purpose.

(d) Artificial ground water recharge: use of surface water for ground water recharge shall be subject to the following conditions:

(A) Recharged water used under a secondary permit for irrigation may only provide supplemental water to lands with existing irrigation rights or permits on June 24, 1988;

(B) Diversion of surface water for recharge for irrigation under a secondary permit shall not exceed 2.25 acre feet per acre to be irrigated; and

(C) If the recharged water is to be used for municipal or industrial purposes under a secondary permit, the applicant shall demonstrate to the satisfaction of the Commission that it has an active water conservation program.

(e) Minimum Perennial Streamflows: to support aquatic life in accordance with Section 3, Chapter 796, Oregon Laws 1983, no appropriation of water shall be made or granted by any state agency or public corporation of the state for waters of the Umatilla River and tributaries when flows are below the levels specified in Table 1. This limitation shall not apply to domestic and livestock use or to waters legally stored or released from storage.

(3) Ground Water: appropriation and use of ground water in the Columbia-Umatilla Plateau subbasin shall comply with the following provisions:

(a) Ground water resources of the basalt aquifer and shallow gravel aquifer within the Ordnance Critical Ground Water Area are closed to further appropriation by Order of the Director dated April 2, 1976.

(b) Ground water resources of the basalt aquifer within the Butter Creek Critical Ground Water Area are closed to further appropriation by Order of the Director dated August 18, 1986.

(c) Ground water resources of the basalt aquifer in the Stage Gulch Ground Water Study Area are closed to further appropriation by Proclamation of the Director dated January 31, 1985.

(d) Classification: permits to use ground water may be issued only for the following classified uses:

(A) The ground water resources of the basalt aquifer in the Ella Butte Ground Water Study Area described in the Proclamation of January 31, 1985, are classified for statutorily exempt uses (see definition) only. This classification terminates the critical ground water area determination proceeding initiated January 31, 1985, and the Proclamation of the same date issued for the Ella Butte study area;

(B) The ground water resources of the Columbia-Umatilla Plateau outside the Ordnance and Butter Creek Critical Ground Water Areas and the Ella Butte and Stage Gulch Ground Water Study Areas are classified for statutorily exempt ground water uses (see definition), irrigation, municipal, industrial, power development, low temperature geothermal, mining, fish life, wildlife, recreation, pollution abatement, and artificial ground water recharge;

(C) Ground water from the basalt reservoir in a five-mile radius around any municipal well of the cities Heppner, Helix, Ione, Lexington, and Pendleton is classified for municipal, group domestic and statutorily exempt ground water uses (see definition) only. Other uses may be permitted if it is documented that a barrier to ground water movement separates a proposed well from municipal wells and there will be no interference with municipal wells. Applications for other uses of ground water within a five-mile radius of a municipal well shall automatically be referred to the Commission for review and consideration of public interest unless the affected city affirms that it is in favor of the proposed appropriation. This classification applies only when the affected city(ies) have a full-time conservation program in effect.

(D) Subject to the more strict controls imposed by the existing Stage Gulch Proclamation or issuance of a critical area order for the Stage Gulch Ground Water Study Area, ground water from the basalt reservoir in a five-mile radius around any municipal well of the cities of Echo, Hermiston, Pendleton Stanfield, and Umatilla is classified for municipal, group domestic and statutorily exempt ground water uses (see definition) only. Other uses may be permitted if it is documented that a barrier to ground water movement separates a proposed well from municipal wells and there will be no interference with municipal wells. Applications for other uses of ground water within a five-mile radius of a municipal well shall automatically be referred to the Commission for review and consideration of public interest unless the affected city affirms that it is in favor of the proposed appropriation. This classification applies only when the affected city(ies) have a full-time conservation program in effect.

(e) Permits issued to appropriate ground waters that may be hydraulically connected with surface water shall be specially conditioned. The condition shall specify that when exercise of the permit unduly interferes with surface water, the permit will be regulated in favor of the surface water source.

Butter Creek Subbasin

690-507-080

(1) Objectives: in developing a program for the management, use and control of the surface and ground water resources of the Butter Creek subbasin, the Commission has the following objectives:

(a) Protect instream values by closing streams to future appropriations during the low-flow season and limiting future appropriations during the high-flow season to selected nonirrigation or nonconsumptive uses.

(b) Preserve the opportunity for future upstream storage for all beneficial uses.

(c) Permit artificial ground water recharge to offset declining ground water levels and supplement existing ground water uses.

(d) Achieve a balance between ground water pumpage and natural recharge in designated critical ground water areas and ground water study areas.

(e) Prevent new appropriations from causing ground water/surface water interference.

(2) Surface Water: appropriation and use of surface water in the Butter Creek subbasin shall comply with the following provisions:

(a) Butter Creek and tributaries are withdrawn from further appropriation of unappropriated waters during the period June 1 through October 31 each year. The withdrawal does not apply to domestic, livestock, fish and wildlife uses or water released from storage. This action was taken by the Commission on December 2, 1985.

(b) Classification: permits to use surface water may be issued only for the following classified uses:

Oregon

WATER
RESOURCES
DEPARTMENT

June 20, 1997

PORT OF MORROW
PO BOX 200 ONE MARINE DR
BOARDMAN, OREGON 97818

Reference: File G-14397

Dear Applicant:

THIS IS NOT A PERMIT AND IS SUBJECT TO CHANGE AT THE NEXT PHASE OF PROCESSING.

This letter is to inform you of the favorable preliminary analysis of your water use permit application and to describe your options. In determining whether a water use permit application may be approved, the Department must consider the factors listed below, all of which must be favorable to the proposed use if it is to be allowed. Based on the information you have supplied, the Water Resources Department has made the following preliminary determinations:

Initial Review Determinations:

1. Your application is complete and not defective.

2. The proposed use is not prohibited by law or rule.

3. The use of water for MUNICIPAL USE AND IRRIGATION OF 301.0 ACRES **is allowable** under OAR 690-507-070(3)(d)(B), the Umatilla Basin Program.

4. The Department has determined, based upon OAR 690-09, that the proposed groundwater use will not have the potential for substantial interference with the surface water sources.

5. The Department has also determined, based upon available data, that groundwater in the amount of 4.96 CUBIC FEET PER SECOND, BEING 1.20 CFS FOR MUNICIPAL USE AND 3.76 CFS FOR IRRIGATION OF 301.0 ACRES , for MUNICIPAL USE AND IRRIGATION OF 301.0 ACRES will, if properly conditioned, avoid injury to existing rights or to the groundwater resource.

Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

Summary of Initial Determinations

The use of 4.96 CUBIC FEET PER SECOND, BEING 1.20 CFS FOR MUNICIPAL USE AND 3.76 CFS FOR IRRIGATION OF 301.0 ACRES , from TWO WELLS IN COLUMBIA RIVER BASIN is allowable. MUNICIPAL USE is allowable year-round, and IRRIGATION is allowable March 1 through October 31 of each year.

Because of these favorable determinations to your application the Department can now move your application to the next phase of the water rights application review process. This phase is where public interest factors will be evaluated.

Please reference the application number when sending any correspondence regarding the conclusions of this initial review. Comments received within the comment period will be evaluated at the next phase of the process.

To Proceed With Your Application:

If you choose to proceed with your application, you do not have to notify the Department. Your application will automatically be placed on the Department's Public Notice to allow others the opportunity to comment. After the comment period the Department will complete a public interest review and issue a proposed final order.

Withdrawal Refunds:

If you choose not to proceed, you may withdraw your application and receive a refund (minus a $50 processing charge per application.) To accomplish this you must notify the Department in writing by **Friday, July 4, 1997**. For your convenience you may use the enclosed "STOP PROCESSING" form.

If A Permit Is Issued It Will Likely Include The Following Conditions:

1. Measurement, recording and reporting conditions:

   A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

   B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

2. You will be required to comply with state and federal water quality standards.

3. The priority date for this application is October 23, 1996.

4. The water user shall develop a plan to monitor and report the impact of water use under this permit on water levels within the aquifer that provides water to the permitted well(s). The plan shall be submitted to the Department within one year of the date the permit is issued and shall be subject to the approval of the Department. At a minimum, the plan shall include a program to periodically measure static water levels within the permitted well(s) or an adequate substitute such as water levels in nearby wells. The plan shall also stipulate a reference water level against which any water-level declines will be compared. If a well listed on this permit (or replacement well) displays a total static water-level decline of 25 or more feet over any period of years, as compared to the reference level, then the water user shall discontinue use of, or reduce the rate or volume of withdrawal from, the well(s). Such action shall be taken until the water level recovers to above the 25-foot decline level or until the Department determines, based on the water user's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights. The water user shall in no instance allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit.

5. Within one year of permit issuance, the appropriator shall prepare a plan for the Water Resources Commission which shall indicate the steps for obtaining an alternate long term water supply.

6. Under this permit, groundwater shall not be produced from the basalt source developed by Port of Morrow wells #1 and #4, identified in Department records as MORR 752 and MORR 1526.

<u>If you have any questions:</u>

Feel free to call me at (503) 378-8455 or 1 (800) 624-3199 extension 457 if you have any questions. Please have your application number available if you call.

Sincerely,

Mr. Cory C. Engel
Water Right Processing Technician

cc: Regional Manager, Watermaster District 05, Water Availability Section
enclosures: Flow Chart of Water Right Process
Stop Processing Form

G-14397
gw B

PORT OF MORROW
MORROW COUNTY OREGON
P.O. Box 200, Boardman, OR 97818
(541) 481-PORT • Fax (541) 481-2679

Mr. Dwight French, Administrative Assistant
Water Rights and Adjudication Division
Oregon Water Resources Department
158 12th Street NE
Salem, Oregon 97310-0210

June 5, 1997

Ref. Application G-14397 Amendment

Dear Mr. French;

As I explained in my letter of March 17, 1997, the Port intends to develop the airport industrial property in the same manner as we have done at our Port industrial park. This would include the development of agricultural lands which at first would be irrigated with direct flow from the wells. As the industrial activities are developed then the irrigation would continue through a secondary use. This secondary application of waters from industries would also be regulated by the Oregon Dept. of Environmental Quality.

Under our existing waste water permit, there is still a certain portion of the total irrigation which would be required to be fresh water to minimize nutrient loading. This means that direct application of water from the wells for irrigation will continue to be, to some extent, a standard operating procedure. The pending application was for " Municipal Use "which you felt could be somewhat awkward with the proposed direct irrigation.

With these concepts in mind, the Port of Morrow would like to amend this application, G-14397, to be: Municipal to Include Irrigation; for 4.96 CFS (2230 GPM) of which 3.76 CFS (1689 GPM) may be used for direct irrigation of 301 Acres. These same acres may be irrigated through a secondary use of waste water from Municipal / Industrial activities.

The superseding Application and Application Map are included with this letter. We appreciate the Department's cooperation in this matter.

Sincerely,

Ronald V. McKinnis PE, PLS, WRE
Port of Morrow Engineer

APPLICATION FACT SHEET

Mail to: Applicant, Watermaster, District Biologist (ODFW)
If necessary, also mail to : Regional Water quality manager (DEQ), and DOA

Application File Number: G-14397

Applicant: PORT OF MORROW

County: MORROW

Watermaster: District 05

Priority Date: October 23, 1996

Source: TWO WELLS IN COLUMBIA RIVER BASIN

Use: MUNICIPAL USE AND IRRIGATION OF 301.0 ACRES

Quantity: 4.96 CUBIC FEET PER SECOND, BEING 1.20 CFS FOR MUNICIPAL USE AND 3.76 CFS FOR IRRIGATION OF 301.0 ACRES ,

Basin Name & Number: Umatilla, #07

Stream Index Reference: Volume 3A COLUMBIA R & MISC

Point of Diversion Location: NESW, SECTION 21, T 4S, R24W, W.M.; 1425 FEET NORTH & 2650 FEET WEST FROM SE CORNER, SECTION 21

Place of Use: NESW, SECTION 21 NWSW, SECTION 22, TOWNSHIP 4 NORTH, RANGE 24 EAST, W.M.

14 DAY STOP PROCESSING DEADLINE DATE: Friday, July 4, 1997

PUBLIC NOTICE DATE: Tuesday, July 8, 1997

30 DAY COMMENT DEADLINE DATE: Thursday, August 7, 1997

PORT OF MORROW
MORROW COUNTY OREGON
P.O. Box 200, Boardman, OR 97818
(541) 481-PORT • Fax (541) 481-2679

Mr. Dwight French, Administrative Assistant
Water Rights and Adjudication Division
Oregon Water Resources Department
158 12th Street NE
Salem, Oregon 97310-0210

March 17, 1997

Ref. Application G-14397

Dear Mr. French;

We appreciate the cooperation that we have received to this point on the above water rights application.

In our meeting of March 13, 1997, with you, Dick Bailey and Bill Fujii, we discussed the most appropriate process to follow that would allow us to use the pending application in the manner that we had intended.

As we have explained, the Port intends to develop the airport industrial property in the same manner as we have done at our Port industrial park. This would include the development of agricultural lands which at first would be irrigated with direct flow from the wells. As the industrial activities are developed then the irrigation would continue through a secondary use. This secondary application of waters from industries would also be regulated by the Oregon Dept. of Enviromental Quality.

Under our existing waste water permit, there is still a certain portion of the total irrigation which would be required to be fresh water to minimize nutrient loading. This means that direct application of water from the wells for irrigation will continue to be, to some extent, a standard operating procedure. The pending application was for " Municipal Use "which you felt could be somewhat awkward with the proposed direct irrigation.

With these concepts in mind, the Port of Morrow would like to amend this application, G-14397, to be: Municipal to Include Irrigation; for 4.96 CFS (2230 GPM) of which 3.75 CFS (1683 GPM) may be used for direct irrigation of approximately 300 Acres. These same acres may be irrigated through a secondary use of waste water from Municipal / Industrial activities.

A superseding Application and Application Map will be forwarded to you as soon as possible. Again we appreciate the Department's cooperation in this matter.

Sincerely,

Ronald V. McKinnis PE, PLS, WRE
Port of Morrow Engineer

PORT OF MORROW

MORROW COUNTY OREGON
P.O. Box 200, Boardman, OR 97818
(541) 481-PORT • Fax (541) 481-2679

Mr. Dwight French, Administrative Assistant
Water Rights and Adjudication Division
Oregon Water Resources Department
158 12th Street NE
Salem, Oregon 97310-0210

March 17, 1997

Ref. Application G-14397

Dear Mr. French;

We appreciate the cooperation that we have received to this point on the above water rights application.

In our meeting of March 13, 1997, with you, Dick Bailey and Bill Fujii, we discussed the most appropriate process to follow that would allow us to use the pending application in the manner that we had intended.

As we have explained, the Port intends to develop the airport industrial property in the same manner as we have done at our Port industrial park. This would include the development of agricultural lands which at first would be irrigated with direct flow from the wells. As the industrial activities are developed then the irrigation would continue through a secondary use. This secondary application of waters from industries would also be regulated by the Oregon Dept. of Enviromental Quality.

Under our existing waste water permit, there is still a certain portion of the total irrigation which would be required to be fresh water to minimize nutrient loading. This means that direct application of water from the wells for irrigation will continue to be, to some extent, a standard operating procedure. The pending application was for " Municipal Use "which you felt could be somewhat awkward with the proposed direct irrigation.

With these concepts in mind, the Port of Morrow would like to amend this application, G-14397, to be: Municipal to Include Irrigation; for 4.96 CFS (2230 GPM) of which 3.75 CFS (1683 GPM) may be used for direct irrigation of approximately 300 Acres. These same acres may be irrigated through a secondary use of waste water from Municipal / Industrial activities.

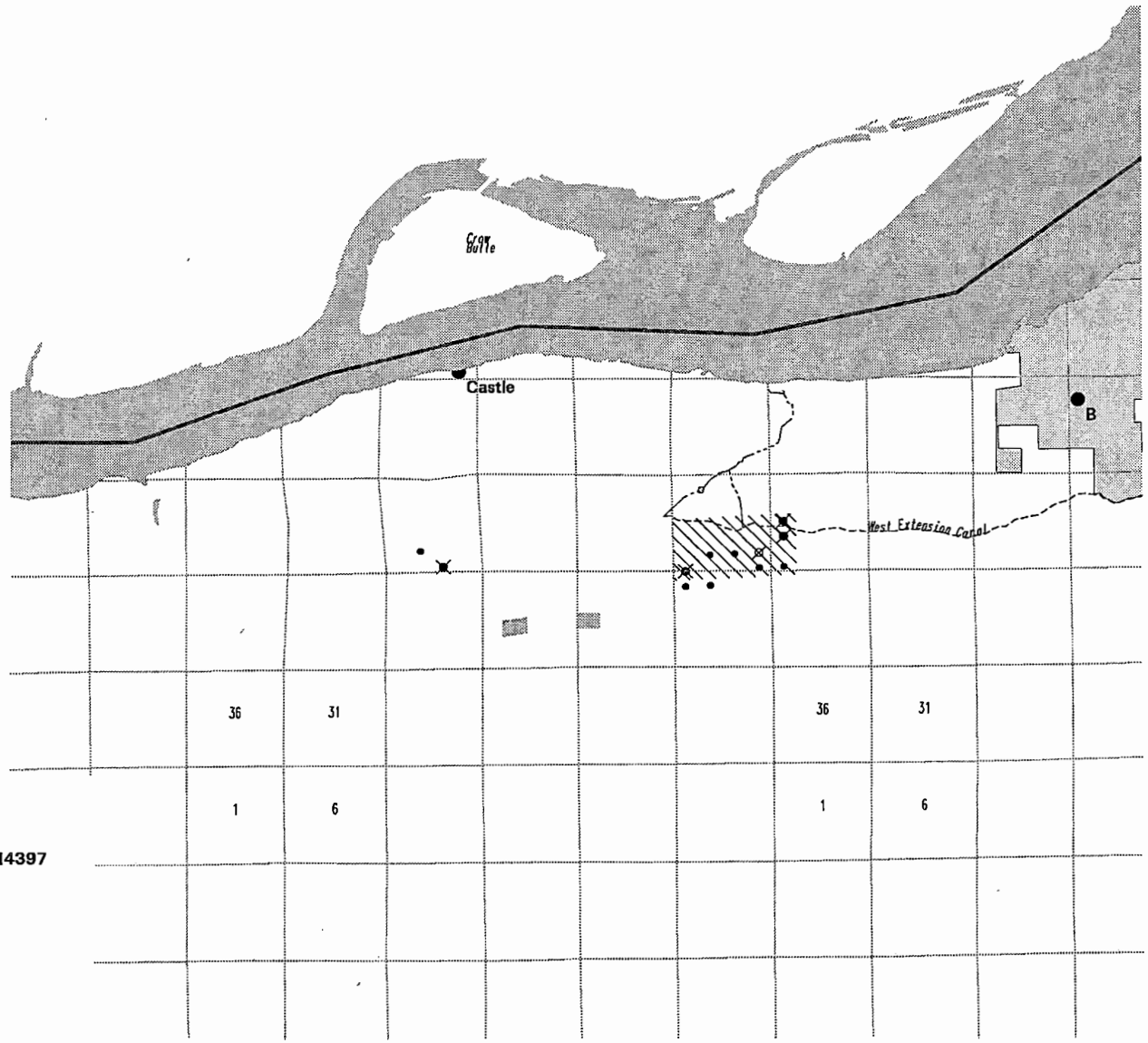
A superseding Application and Application Map will be forwarded to you as soon as possible. Again we appreciate the Department's cooperation in this matter.

Sincerely,

Ronald V. McKinnis PE, PLS, WRE
Port of Morrow Engineer

Wells in the vicinity of application G 14397

- 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 14397

DO	9
ID	4
IM	1
IR	3

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 14397

	PERMIT	T/R/S/QQ	USE	RATE	UNITS
G	2946	4.00N24.00E13NWNW	DO	0.0300	C
G	12054	4.00N24.00E13SWNW	IC	0.1800	C
G	7828	4.00N24.00E14NESE	IR	0.1600	C
G	2806	4.00N24.00E17NWSE	FP	0.0200	C
G	8763	4.00N24.00E14SWSW	IR	1.1600	C

County: morrow

Quad name & #: _____

REVIEW CHECKLIST

FOR G- 14397

✓ 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: ___ Well location: 04N/24E/21?22

APPLICATIONS WITH PERMIT CONDITIONS:

G-13517

11-4-96

No well log

For this?

Per Grid

Rigdale

SUPERSEDED

Application No. G-14397

RECEIVED
SEP 17 1996
WATER RESOURCES DEPT.
SALEM, OREGON

RECEIVED
AUG 21 1996
WATER RESOURCES DEPT.
SALEM, OREGON

State of Oregon
WATER RESOURCES DEPARTMENT

Application for a Permit to Appropriate Groundwater

Applicant(s) PORT OF MORROW
(Please print or type - use dark ink)

Mailing Address: ONE MARINE DRIVE, P. O. BOX 200
BOARDMAN (City) OREGON (State) 97818 (zip) 541-481-7678 (Daytime Phone No.)

I (We) make application for a permit to appropriate the following described ground waters of the State of Oregon

RECEIVED
OCT 23 1996
WATER RESOURCES DEPT.
SALEM OREGON

1. **THE DEVELOPMENT** (number of wells, tile lines infiltration galleries, etc.): 2 WELLS & ASSOCIATED DELIVERY SYSTEM LINES

If development is less than one mile from a natural stream, give the following:

Distance from development to stream: 2 MILES TO THE COLUMBIA RIVER

Elevation difference between streambed and development: 100 FT.

NOTE: Wells must be constructed according to standards set by the department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well driller's log with this application, and skip to Section 2 below.

Diameter of well: 12 INCH Depth in feet: 600 +/-
Type and size of well Casing: 12 INCH, STEEL No. of feet: 500 +/-
Estimated depth to water: 500 +/-
Type of access port or measuring device AIR LINE

Wells to be drilled by: NOT DETERMINED AT THIS TIME
Address: N/A
If the water well is flowing artesian, describe your water control and conservation works:

2. **TOTAL AMOUNT OF WATER** to be applied to beneficial use. 4.9 cubic feet per second, **OR** 2200 gallons per minute. If water is to be used from more than one groundwater source, give the quantify of water from each: 1100 GPM FROM EACH WELL
2200 GPM TOTAL FOR BOTH WELLS

540.55

3. *INTENDED USE(s) OF WATER:* ***MUNICIPAL USES TO INCLUDE INDUSTRIAL AND ASSOCIATED USES FOR THE AIRPORT FACILITIES***

If for more than one use, give the quantity of water from each source for each use; ***N/A***

If for ***DOMESTIC*** *use, state the number of households to be supplied;*

If for ***MUNICIPAL OR QUASI-MUNICIPAL*** *use, state the present population to be served, and an estimate of the future requirements; (List population projections, water needs, anticipated areas to be provided water.)* ***The Airport Area Facility Supports Two Industries at This Time with a Total of 2500 Acres of Industrial Area Available for Future Development.***

If for ***MINING*** *use, state the nature (gold, silver, etc.) of the mines to be served;* _____

If for ***IRRIGATION,*** *or other land area use, state the TOTAL number of acres to be developed under each use;*

Irrigation _____

Other (describe) _____

4. ***DESCRIPTION OF WATER DELIVERY SYSTEM:*** *Include dimensions and type of construction of divers ion works, length and dimensions of supply ditches or pipelines, size and type of pump and motor. If for irrigation, describe the type of system (i.e., flood, wheel line, hand line, drip, other).*

The Water Delivery System Will be a PVC mainline System that will Link the Two Wells and the Water Users - to Include the Water Needs of the Municipal Airport and the Associated Demands Created by the Airport. The Water Use Will Also Include the Existing and Future Industrial Users in and around the Airport Facility.

WATER RIGHT IS PURTENENT TO ALL LANDS WITHIN TAX LOTS 4N 24 # 109 & # 110

5. ***PROJECT SCHEDULE:*** *(List month and year)*

Proposed date construction work will begin ***October, 1996***

Proposed date construction work will be completed ***October, 1997***

Proposed date water use will be completed ***October, 1998***

NOTE: Prior to the issuance of a permit it will be necessary to submit a map prepared by a Certified Water Right Examiner (CWRE) and a complete legal description of the property on which the water is to be used. The legal description may be copied from your deed, title insurance policy, or land sales contract.

6. *a) In the event any deficiencies are noted involving the application map enclosed herein, please return the map with instructions for correction to (check one):*

   ___X___ *Applicant* _____ *CWRE* _____ *Other (Identify in REMARKS section)*

   b) In the event any deficiencies are noted involving the application, please return the application with instructions for correction to (check one):

   ___X___ *Applicant* _____ *CWRE* _____ *Other (Identify in REMARKS section)*

7. *Are all lands involved (including the proposed diversion site, place of use, and access for conveying the water) under your ownership? If not, list in the REMARKS section below, or on an attached sheet, the names and mailing addresses of the legal owners of all property involved in the proposed development.*

NOTE: Prior to receiving a certificate of water right, the permit holder must submit to the Water Resources Department the results of a pump test meeting the department's standards. The Director will require water level or pump test results every ten years thereafter.

REMARKS:

I/We certify that the information I have provided in this application is an accurate representation of the proposed water use and is true and correct to the best of my knowledge:

Signature PORT OF MORROW ENGINEER *Date* 8/19/96

Signature *Date*

FOR WATER RESOURCES DEPARTMENT USE ONLY

Dear Applicant:

I certify that I have examined the foregoing application, together with the accompanying information, and am returning it to you for:

In order to retain its tentative priority, this application must be returned with the requested corrections or additions on or before:

_____ 19_____.

WITNESS my hand this _____ day of _____, 19____.

Water Resources Director

By:

This instrument was first received in the office of the Water Resources Director at Salem Oregon, on the 23rd day of October, 1996, at 8 o'clock, A M.

APPLICATION NO: G-14397

A:APPFORM 1/94

Table 3: Water Rights Summary (subject water rights are shown in bold)

Name	Permit Number	Priority Date	Completion Date	Source of Water	Beneficial Uses	Quantity (cfs)	Notes
Boardman Industrial Park							
Port 1	G7158	4 Feb 1977	Cert, 68545 8/14/95	Col. River Basin	Industrial	3.0	Caving has reduced original well capacity; modify right to add a new Point of Appropriation?
Port 2	G8263	19 Jun 1978	Cert. 58866 12/22/88	Col. River Basin	Industrial	1.11	Pumping at water right
Port 3	G5332	19 Jan 1979	Cert. 47191 1/19/79	Col. River Basin	Industrial	2.0	Directly pumps to PGE Coyote Springs
Port 4	G10975	4 Dec 1989	Claim of beneficial use 9/27/95	Col. River Basin	Industrial	4.46	Pumping at capacity
Port 5							
Port 6 & 7	**G12729**	22 Jan 1993	Extension to 2009 approved	Umatilla Basin	Municipal Irrigation	5.57 9.8	Season of use: 10/1 – 4/15, alluvial Seasonal: 3/1-4/15, 10/1-10/31
Airport Industrial Park							
Airport 1	**G13765**	23 Oct 1996	Extension to 2015 pending	Col. River Basin	Municipal Irrigation	1.2 3.76	This permit supercedes G13283 which was cancelled. Airport Well 2 plans depend on ongoing evaluation of Airport 1 3/1 to 10/31 irrigation season
South Morrow Industrial Park							
Kinzua 1	G10312	8 Feb 1984	Claim of beneficial use 7/1/97	Willow Ck Basin	Industrial	0.5124	Domestic use only
Heppner 1	G4626	18 Jun 1969	Cert. 38590 9/28/72	Willow Ck Basin	Industrial	0.09	
Kinzua 4	G10312	8 Feb 1984	Claim of beneficial use 7/1/97	Willow Ck Basin	Industrial	0.2025	
Heppner 2	G4626	18 Jun 1969	Cert. 38590 9/28/72	Willow Ck Basin	Industrial	0.14	
Kinzua 6	**G12370**	14 Jan 1993	Extension to 2015 pending	Willow Ck Basin	Municipal	1.448	Kinzua 7 possible

Airport Mw Wells

STATE OF OREGON

COUNTY OF MORROW

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

PORT OF MORROW
PO BOX 200 ONE MARINE DRIVE (541)481-7678
BOARDMAN, OREGON 97818

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-14397

SOURCE OF WATER: TWO WELLS IN COLUMBIA RIVER BASIN

PURPOSE OR USE: MUNICIPAL USE AND IRRIGATION OF 301.0 ACRES

MAXIMUM RATE: NOT TO EXCEED A MAXIMUM CUMULATIVE TOTAL OF 4.96 CUBIC FOOT PER SECOND(CFS), BEING 4.96 CFS FOR MUNICIPAL USE AND 3.76 CFS FOR IRRIGATION

PERIOD OF USE: YEAR ROUND FOR MUNICIPAL USE, AND MARCH 1 THROUGH OCTOBER 31 FOR IRRIGATION

DATE OF PRIORITY: OCTOBER 23, 1996

POINT OF DIVERSION LOCATION: NE 1/4 SW 1/4, SECTION 21, NW 1/4 SW 1/4, SECTION 22, T 4N, R24E, W.M.; WELL 2 - 2085 NORTH AND 2650 WEST FROM THE SE CORNER SECTION 21; WELL 1 - 2580 FEET NORTH & 60 FEET EAST FROM SW CORNER SECTION 22

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

MUNICIPAL
WITHIN THE SERVICE BOUNDARIES

IRRIGATION

NE 1/4	SW 1/4	8.0	ACRES
SE 1/4	SW 1/4	19.0	ACRES
NE 1/4	SE 1/4	37.0	ACRES
NW 1/4	SE 1/4	25.0	ACRES
SW 1/4	SE 1/4	35.0	ACRES
SE 1/4	SE 1/4	37.0	ACRES

SECTION 21

NE 1/4	SW 1/4	37.5	ACRES
NW 1/4	SW 1/4	24.0	ACRES
SW 1/4	SW 1/4	24.0	ACRES
SE 1/4	SW 1/4	37.5	ACRES
NW 1/4	SE 1/4	8.5	ACRES
SW 1/4	SE 1/4	8.5	ACRES

SECTION 22

TOWNSHIP 4 NORTH, RANGE 24 EAST, W.M.

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.

B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

The water user shall develop a plan to monitor and report the impact of water use under this permit on water levels within the aquifer that provides water to the permitted well(s). The plan shall be submitted to the Department within one year of the date the permit is issued and shall be subject to the approval of the Department. At a minimum, the plan shall include a program to periodically measure static water levels within the permitted well(s) or an adequate substitute such as water levels in nearby wells. The plan shall also stipulate a reference water

level against which any water-level declines will be compared. If a well listed on this permit (or replacement well) displays a total static water-level decline of 25 or more feet over any period of years, as compared to the reference level, then the water user shall discontinue use of, or reduce the rate or volume of withdrawal from, the well(s). Such action shall be taken until the water level recovers to above the 25-foot decline level or until the Department determines, based on the water user's and/or the Department's data and analysis, that no action is necessary because the aquifer in question can sustain the observed declines without adversely impacting the resource or senior water rights. The water user shall in no instance allow excessive decline, as defined in Commission rules, to occur within the aquifer as a result of use under this permit.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.

Within one year of permit issuance, the appropriator shall prepare a plan for the Water Resources Commission which shall indicate the steps for obtaining an alternate long term water supply.

Within 1 year of permit issuance, the permittee shall submit a water management and conservation plan consistent with OAR Chapter 690, Division 86.

Under this permit, groundwater shall not be produced from the basalt source developed by Port of Morrow wells #1 and #4, identified in Department records as MORR 752 and MORR 1526.

STANDARD CONDITIONS

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Actual construction of the well shall begin within one year from permit issuance. Complete application of water to the use shall be made on or before October 1, 2002.

This permit is issued to correctly describe the maximum rate allowed. Permit G-13283, dated December 29, 1997, is superseded by this instrument and is of no further force or effect.

Issued November 16, 1999

Dwight Ford for

Martha O. Pagel, Director
Water Resources Department

G-14397

11-19-96

Water Right Conditions Tracking Slip

Groundwater/Hydrology Section

FILE ## G-14397

ROUTED TO: WR

TOWNSHIP/
RANGE-SECTION: 4N/24E-21 cad
-22 cbb

CONDITIONS ATTACHED? ☒ yes ☒ no

REMARKS OR FURTHER INSTRUCTIONS:

~~Deny Application / Amend Application / Other ??~~

Reviewer: Donn Miller

New GW Review
1/24/97

Water Resources Department

MEMO November 14, 1996

TO **Application G-** 14397

FROM **GW:** Doug Miller
(Reviewer's Name)

SUBJECT **Scenic Waterway Interference Evaluation**

☐ Yes
☒ No — The source of appropriation is within or above a Scenic Waterway.

☐ Yes
☒ 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 fin
preponderance of evidence that the propo
will measurably reduce the surface water f
maintain the free-flowing character of a sc
quantities necessary for recreation, fish ar

Date to Water Rights By 11/15

FLOW REDUCTION: *(To be filled out only if Preponc checked)*

Exercise of this permit is calculated to _____ Scenic Waterway by the fol
proportion of the consumptive use by which surface wa

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug

TO: Water Rights Section

January 24, 1997

FROM: Groundwater/Hydrology Section Donn Miller
Reviewer's Name

SUBJECT: Application G- 14397

Supersedes 11/14/96 review

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.

NA

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.) X 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)_____;
      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.) X will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
      (i.) X The permit should contain condition #(s) 7A;
      (ii.) X 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: The permit should prohibit ground water production from the basalt source developed by Port of Morrow Wells 1 & 4. These wells are identified in Department records as MORR 752 and MORR 1526.

(Well Construction Considerations on Reverse Side)

TO: Water Rights Section

Nov 14, 1996

FROM: Groundwater/Hydrology Section Dorn Miller
Reviewer's Name

SUBJECT: Application G- 14397

Supplemental

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. (X) 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)_____;
      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. (X) 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)_____;
      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)

WATER RESOURCES DEPARTMENT MEMORANDUM

TO: Groundwater/Hydrology Files

Date 11/14/96

FROM: Donn Miller

SUBJECT: Groundwater Application G- 14397

Phone:

Name: Port of Morrow

Applicant(s) seek 2200 gpm (4.9 cfs) from 2 well(s) in the Columbia basin sub basin sub basin.

Proposed use: Municipal

Pertinent 7 1/2 - minute quads Boardman

Well #1 WRD# T 4 N R 24E S 22 QQ cbb County Morrow

Legal Description

Well is 2 +/- miles ~~ft~~ from Columbia R (river/stream)

Well is — ft from — (river/stream)

Well elevation ~~400~~ 380 ft. River/stream elevation 265 ft.

Proposed Well elevation - river/stream elevation ~~138~~ 115

Well depth 600' +/- SWL — on

Sealed to — Depth first water found —

Cased to 500' +/- Perforations/screens —

Lined to — Perforations/screens —

Well tests and types —

Confined or unconfined? Confined probably Hydraulically connected? No

Potential to cause substantial interference? No

Well #2 WRD# T 4N R 24E S 21 QQ cad County Morrow

Legal Description

Well is 2 ~~*~~ miles from Columbia R (river/stream)

Well is — ft from — (river/stream)

Well elevation ~~405~~ 395 ft. River/stream elevation 265 ft.

Well elevation - river/stream elevation 130

Proposed Well depth 600' +/- SWL — on

Sealed to — Depth first water found —

Cased to 500' +/- Perforations/screens —

Lined to — Perforations/screens —

Well tests and types —

Confined or unconfined? Confined probably Hydraulically connected? NO

Potential to cause substantial interference? NO

Conditioned water rights in area: yes

Other nearby water rights of record: yes

Density of nearby wells of record: low

Comments: See Application G-13408. The proposed well construction at the proposed locations will likely develop water from the deep basalt source which is found in Ordinance Critical GW Area, Port wells #1+4, Hillview Dairy irrigation wells and others. This source has declined in head about 170' since 1960. Although the source is quite large, there is no further water to appropriate in my judgement. The Department agreed when it denied application G-13408.

References used: Extensive local well data

Based on Wrong location -DM 1/24/97

Difficult to judge occurrence of unit common to Port #1+4 in this area


COLUMBIA
WASHINGTON
OREGON
RIVER
REFUGE
Mile 270
BOUNDARY
G-14397
Lights
Port of Morrow
Messner
DRIVE
MARINE
Filtration Plant
Campground
Boat Ramp
Park
AVENUE
COLUMBIA
Substa
Riverview Cem
Riverside H Sch
BM 301
FRONT
STREET
BM 270
BM 306
BM 334
BM 319
Boardman
Mobile Home Park
MAIN
STREET
ROAD
SMITH
PAUL
KUNZE
OLSON
WEST
EXTENS
CANAL
IRRIGATION
#1
#2
Supercaded
Wrong Location
of Proposed wells

Selected Basalt Wells Within or on Edge of Ordnance Basalt Critical Ground Water Area							
Owner, Well Number	Location	LSE at Well in Feet above MSL	Well Depth	Altitude at Top of Artesian Zone	Date of Most Recent Quasi-Static Water Level	Water Level in Feet	Head of Water in Feet above MSL
Lindsay, BC #62B	2N/26E-3bcc	786	1265	153	3/1/96	476	310
SK Farms, ORD#86	3N/26E-5cbd	641	950	28	2/19/90	313	328
Port #4	4N/25E-10aac	271	900	-379	2/22/94	-32	308
Port #1	4N/25E-10bdc	280	670	-400	2/10/86	-51	331
Hansell, ORD#83	4N/27E-27dad	603	543	77	2/27/96	289	314
Information Subject to Revision							

Gullixson's Picks

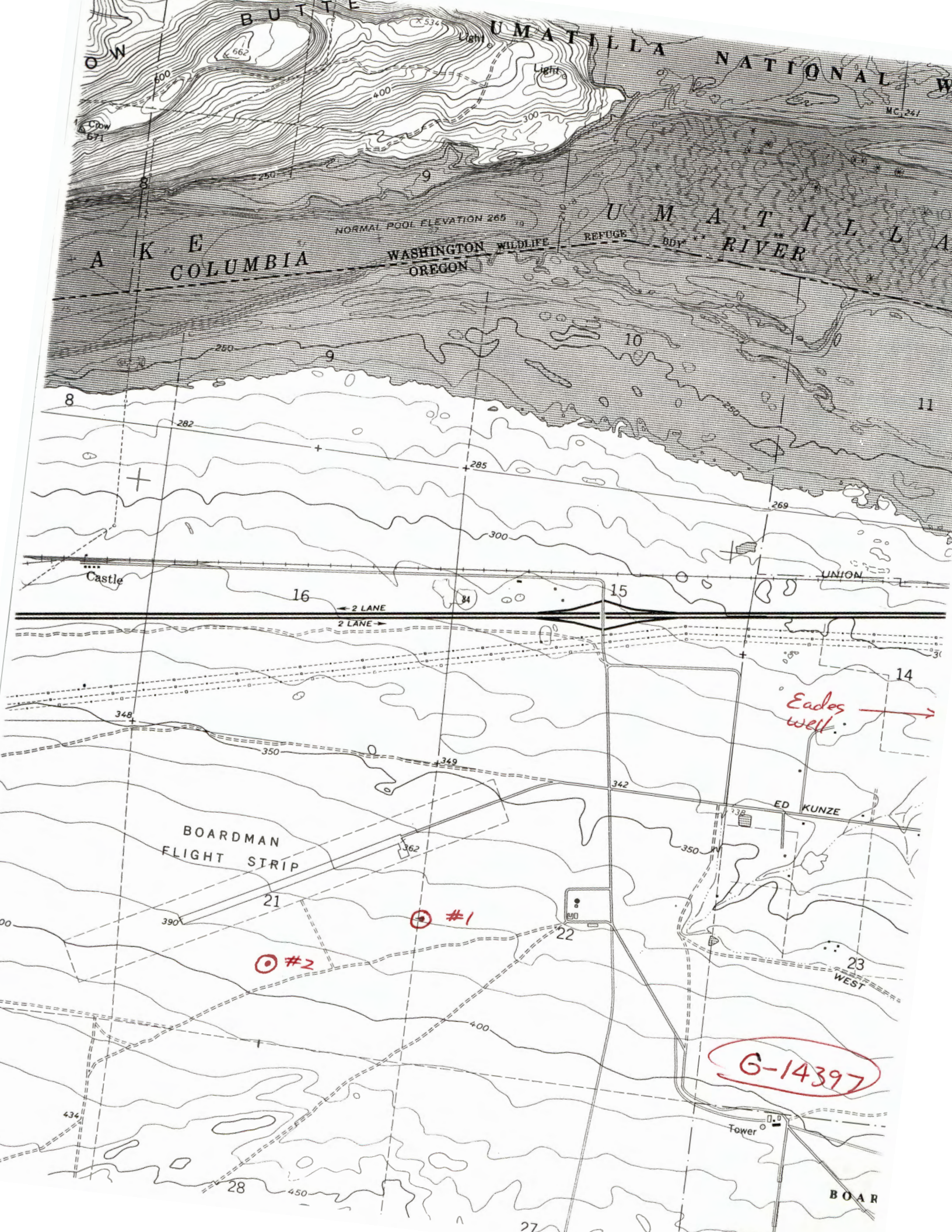
Basalt Wells on Edge of Ordnance CGWA

Dick Gullixson's groundwater report in file G-11992 contained cross-sections that indicated that the following wells are connected stratigraphically with the artesian aquifer at the Port of Morrow

Owner	Location	LSE	Depth	SWL#1 Date	SWL#1	Head#1	SWL#2 Date	SWL#2	Head#2	SWL#3 Date	SWL#3	Head#3	GPM	Drawdown	Spec. Capacity	Comments
Myers	1N/27E-21acc	1290	760	11/12/68	125	1165	2/11/84	174	1116	2/16/91	179	1111	2400	14	171	
Vey	1N/27E-24dd	1350	777	5/23/58	-90	1440	2/6/68	-53	1403				700			
Vey	1N/28E-28bb	1385	365	7/13/53	0	1385	2/12/84	30	1355	2/22/95	24	1361	1300			
Lindsay	2N/26E-3	786	1265	3/1/72	376	**410**	4/16/84	429	**357**	2/23/95	478	**308**	1618	22	74	
O'Kane	2N/27E-2daa2	810	1205	3/27/78	349	461	2/13/84	402	408	2/23/91	468	342	1600			head getting close
Mader	2N/27E-7aa	1030	1461	1/27/71	338	692	2/11/84	494	536	2/22/95	593	437	2650	62	43	
Arlington	3N/21E-28 bbd	300	634				2/12/81	39	261							
Boeing	3N/23E-25bdc	617	790				2/11/80	152	465				725	100	7	
J.R.Simplot	3N/23E-3ac	520	843				10/2/80	245	275				800			
Boeing	3N/24E-15	630	730				9/22/86	160	470				1500			
Hellberg/SK	3N/26E-5cb	641	950	2/4/63	179	**462**	2/13/84	289	**352**	2/19/90	313	**328**	2000	217	9	
Port #1	4N/25E-10bdc	280	670	2/9/78	-81	**361**	2/10/86	-51	**331**				2000	84	24	

Bold type denoted head measurements which seem to approximate the Ordnance deep basalt trend.

Basalt Wells on Edge of Ordnance CGWA															
Owner	Location	LSE	Depth	Depth to top o	Elev of top of	SWL#1	SWL#1	Head#1	SWL#2	SWL#2	Head#2	SWL#3	SWL#3	Head#3	
				Artesian Zone	Artesian Zone	Date			Date			Date			
Lindsay	2N/26E-3bcc	786	1265		153	3/1/72	376	**410**	4/16/84	429	***357***	2/23/95	478	**308**	
Rea	2N/26E-6acc	850	1097			2/4/70	181	669	2/8/84	272	578	2/23/95	297	553	
Lindsay	2N/26E-10cdb	960	1104			2/14/71	154	806	2/11/86	346	614				
Lindsay	2N/26E-11cdd	879	1200			3/15/76	282	597	2/8/84	322	557	2/23/95	399	480	
O'Kane	2N/27E-1bdd	800	886			2/1/60	334	466	2/10/81	348	452	2/21/90	388	412	large rise after '61 dpng
O'Kane	2N/27E-2daa1	810	886			2/1/61	-9	819	2/24/82	390	420				dpnd in '65 with drop?
O'Kane	2N/27E-2daa2	810	1205						2/13/84	402	408	2/24/95	136	674	
Mader	2N/27E-7aab	1030	1461			1/27/71	338	692	2/11/84	494	536	2/22/95	593	437	
Mader	2N/27E-8dab	1055	1251			1/9/70	370	685				3/4/94	604	451	
Hellberg	3N/26E-5cbd	641	950		28										
Madison	3N/27E-25ddc	750	591	534	159	7/17/60	240	510	2/10/76	260	490	2/26/96	454	**296**	
Simplot	3N/28E-6dcc	670	1136	1115	-445	12/5/72	265	405	2/14/84	302	368	2/21/95	359	**311**	CCW, data dances a bit
Simplot	3N/28E-18abd	642	1095	910	-268	12/20/68	232	**410**	2/13/84	259	***383***	2/28/95	346	**296**	
Simplot	3N/28E-18dbd	655	875	?	?	1/1/56	60	595	2/21/87	334	**321**	2/21/95	365	**290**	recond 1/87 signif.
L&L #1	3N/28E-23dcb	675	1012	?	?										
L&L #2	3N/28E-26baa	680	911	?	?										
L&L	3N/28E-28ada	690	984	540	150	4/3/68	275	**415**	2/13/84	358	**332**	2/26/96	380	**310**	CCW
L&L	3N/28E-28cab	711	636	504	207	3/2/67	280	**431**	2/15/86	394	**317**	4/16/92	414	**297**	CCW
Eagle #5	3N/28E-35baa	770	1255	543	227				2/7/83	446	**324**	2/22/95	501	**269**	CCW
Eagle #6	3N/28E-35caa	775	1700	570	205				2/14/86	456	**319**	3/1/94	486	**289**	CCW
Port #4	4N/25E-10aac	276	900	677	-401				2/1/91	-42	**317.6**	2/22/94	-32	**308**	
Port #1	4N/25E-10bdc	280	670	680	-400	2/9/78	-81	**361**	2/10/86	-51	**331**				
Hillview	4N/25E-13acd2	395	335	*325*	70	12/30/69	-2	**397**	2/17/86	63	**332**	2/27/95	90	**305**	
Hillview	4N/25E-13ada	375	555			1/17/75	-9	**384**	2/10/86	45	**330**	3/2/94	64	**311**	
Hansell	4N/27E-27dad	603	547	526	77										
Redwine	4N/27E-36bba	582	812	775	-193										
Wadekam	4N/28E-7acc	535	286			9/15/72	19	516	2/23/83	64	471	3/5/95	63	472	
Campbell	4N/28E-24bdd	646	917	712	-66	5/15/69	238	**408**	2/13/85	321	**325**				now abandoned
Hermistor	4N/28E-24bdd	646	1500	716	-70							2/24/93	369	**278**	
Simplot	4N/28E-26dc	585	985	422	163				10/22/81	289	***296***				
Union Pac	4N/28E-27dab	633	569	533	100	**8/13/71**	259	**374**							
Reid	4N/28E-30ddd	560	721	701	-141	6/28/67	132	**428**				2/26/96	257	**303**	
Cox	4N/28E-31aca	575	400			2/19/68	40	535	2/13/84	45	530	2/27/95	39	536	
Zabransky	4N/29E-24cdd	720	1340	954	-234							2/24/92	400	**320**	
Umatilla	5N/28E-19aaa	485	785			5/1/54	130	355	2/15/84	128	357	3/4/94	159	326	?
Wadekam	5N/28E-21ccb	390	250						2/15/84	4	386	2/25/95	8	382	


BUTTE
Light
UMATILLA NATIONAL
Crow
671
NORMAL POOL ELEVATION 265
WASHINGTON WILDLIFE REFUGE BDY
OREGON
A K E
COLUMBIA
U M A T I L L A
RIVER
Castle
UNION
2 LANE
2 LANE
Eades well
ED KUNZE
BOARDMAN
FLIGHT STRIP
#1
#2
WEST
Tower
G-14397
BOAR

NOTICE TO WATER WELL CONTRACTOR
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.

Not far

WATER WELL REPORT

STATE OF OREGON (Please type or print)

RECEIVED
JUL 06 1977
WATER RESOURCES DEPT. SALEM, OREGON

(Do not write above this line)

WORK Ldd6

State Well No. 4n/24E-14dd

State Permit No.

1900'N & 970'W Fm SE Corner Section 14

(1) OWNER:

Name Larry Eades

Address Rt 3 Box 3167 Hermiston, Oregon 97838

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

CASING INSTALLED:

Threaded ☐ Welded ☒

8" Diam. from 0 ft. to 37 ft. Gage .250

" Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

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?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

Air lifter test 150 gal./min. with 248 ft. drawdown after 1 hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Cement

Well sealed from land surface to 37 ft.

Diameter of well bore to bottom of seal 11 in.

Diameter of well bore below seal 8 in.

Number of sacks of cement used in well seal 13 sacks

How was cement grout placed?

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:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Morrow Driller's well number

SE ¼ SE ¼ Section 14 T. 4N. R. 24E. W.M.

Bearing and distance from section or subdivision corner

LSE ~310'

(11) WATER LEVEL: Completed well.

Depth at which water was first found 90 ft.

Static level 32 ft. below land surface. Date 6-28-77

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 8"

Depth drilled 460 ft. Depth of completed well 460 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Rock, brown	0	15	
Basalt, black	15	90	
Rock, black & green clay stone	90	149	
Basalt, black	149	170	
Rock, black & green clay stone	170	305	
Rock, black & gray clay stone	305	367	W.B.
Rock, black & green clay stone	367	460	W.B.

Work started 6-22 19 77 Completed 6-28 19 77

Date well drilling machine moved off of well 6-28 19 77

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] John VanSwell (Drilling Machine Operator) Date 6-28, 1977

Drilling Machine Operator's License No. 1027

Water Well Contractor's Certification:

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

Name TROY GRIFFIN (Person, firm or corporation) (Type or print)

Address 900 HERMISTON AVE HERMISTON ORE.

[Signed] Troy Griffin (Water Well Contractor)

Contractor's License No. 65 Date 6-28, 1977

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45656-119

Units / heads not discernible easily

NOTICE TO WATER WELL CONTRACTOR
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.

WATER WELL REPORT

STATE OF OREGON (Please type or print) (Do not write above this line) MORR 6060

State Well No. 4N/24E-14dd

State Permit No.

(1) OWNER:

Name Larry Eades

Address Rt 1 Box 22-A.
Boardman, Oregon 97818

(2) TYPE OF WORK (check):

New Well ☐ Deepening ☒ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☐

None Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

(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?

Yield: gal./min. with ft. drawdown after hrs.

" " " "

" " " "

AIR test 200 gal./min. with 430 ft. drawdown after 1 hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Not disturbed

Well sealed from land surface to ft.

Diameter of well bore to bottom of seal in.

Diameter of well bore below seal in.

Number of sacks of cement used in well seal sacks

How was cement grout placed?

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:

Gravel placed from ft. to ft.

(USE ADDITIONAL SHEETS IF NECESSARY)

(10) LOCATION OF WELL:

County Morrow Driller's well number

SE ¼ SE ¼ Section 14 T. 4N. R. 24E. W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found ft.

Static level 20 ft. below land surface. Date 7-23-80

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6" To 460 6" 460-725

Depth drilled 265 ft. Depth of completed well 725 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Basalt	460	602	
Rock, md. black w/ blue clay	602	696	W.B.
Basalt	696	725	

RECEIVED
AUG 04 1980
WATER RESOURCES DEPT
SALEM, OREGON

Work started 7-18 1980 Completed 7-23 1980

Date well drilling machine moved off of well 7-24 1980

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] James T Leitch (Drilling Machine Operator) Date 7-24, 1980

Drilling Machine Operator's License No. 665

Water Well Contractor's Certification:

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

Name TROY GRIFFIN (Person, firm or corporation) (Type or print)

Address 900 HERMISTON AVE HERMISTON ORE

[Signed] Troy Griffin (Water Well Contractor)

Contractor's License No. 65 Date 7-24, 1980

RECEIVED
MAR 18 1987
WATER RESOURCES DEPT.
SALEM, OREGON

MORR 1658

4n/24E-14db
Deep & Recond.

STATE OF OREGON

WATER WELL REPORT
(as required by ORS 537.765)

Well Number:

(1) OWNER:
Name Larry Eades
Address Rt. 1, Box 22-A
City Boardman State OR Zip 97818

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

(3) DRILL METHOD
☑ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

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

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☑ Depth of Completed Well 700 ft.
Explosives used Yes ☐ No ☐ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
6"	650	700	N/A			

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:	N/A				☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	6"	0	390		☐	☑	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) ____

(7) PERFORATIONS/SCREENS:
☐ Perforations Method ____
☐ Screens Type ____ Material ____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

Yield gal/min	Drawdown	Drill stem at	Time
100+		700	1 hr.

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

(9) LOCATION OF WELL by legal description:
County Morrow Latitude ____ Longitude ____
Township 4N N or S, Range 24E E or W, WM.
Section 14 NW ¼ SE ¼
Tax Lot ____ Lot ____ Block ____ Subdivision ____
Street Address of Well (or nearest address) ____
Rt. 1, Boardman, OR 97818

(10) STATIC WATER LEVEL:
6 ft. below land surface. Date 12-18-86
Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:
Depth at which water was first found ____

From	To	Estimated Flow Rate	SWL
650	700	50	

(12) WELL LOG:
Ground elevation ____

Material	From	To	SWL
Soft gray basalt with some green soapstone	650	700	WB

Date started 12-11-86 Completed 12-18-86

(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.
WWC Number ____
Signed ____ Date ____

(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.
WWC Number 1218
Signed Patrick C Wallace Date 1-17-87

WHITE COPIES - WATER RESOURCES DEPARTMENT YELLOW COPY - CONSTRUCTOR PINK COPY - CUSTOMER 9809C 10/86

NC

MORROW 6

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED
SEP 15 1965
STATE ENGINEER
SALEM OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)

State Well No. 4N/24-17F
State Permit No.

(1) OWNER:
Name UNION PACIFIC RAILROAD
Address CASTLE FACILITIES
MORROW COUNTY OREGON

(2) LOCATION OF WELL:
County MORROW Driller's well number 4506
SE ¼ NW ¼ Section 17 T. 4N R. 24E W.M.
Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):
New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]
If abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):
Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

(5) TYPE OF WELL:
Rotary [X] Driven [ ]
Cable [X] Jetted [ ]
Dug [ ] Bored [ ]

(6) CASING INSTALLED:
Threaded [ ] Welded [X]
12" Diam. from 0 ft. to 15 ft. Gage .375
8" Diam. from 0 ft. to 130 ft. Gage .322
" Diam. from ft. to ft. Gage

(7) PERFORATIONS:
Perforated? [ ] Yes [X] 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.
perforations from ft. to ft.
perforations from ft. to ft.

(8) SCREENS:
Well screen installed? [ ] Yes [X] No
Manufacturer's Name
Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:
Well seal—Material used in seal CEMENT GROUT
Depth of seal 81 ft. Was a packer used? NO
Diameter of well bore to bottom of seal 12 in.
Were any loose strata cemented off? [ ] Yes [X] No Depth
Was a drive shoe used? [X] Yes [ ] No
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.
Did any strata contain unusuable water? [ ] Yes [X] No
Type of water? depth of strata
Method of sealing strata off

(10) WATER LEVELS:
Static level 93 ft. below land surface Date 8/30/65
Artesian pressure lbs. per square inch Date

(11) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [X] Yes [ ] No If yes, by whom? STRASSER
Yield: 104 gal./min. with 23 ft. drawdown after 24 hrs.
" 62 " 11.6 " 24 "
" 29 " 2.4 " 24 "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water 62 Was a chemical analysis made? [X] Yes [ ] No

(12) WELL LOG:
Diameter of well below casing 8
Depth drilled 216 ft. Depth of completed well 216 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
WEATHERED ROCK	0	5
MED. HARD BASALT	5	13
GREY BASALT	13	65
BROKEN BROWN ROCK	65	72
SOFT BLACK ROCK	72	74
GREY CLAYSTONE	74	116
BROWN CLAYSTONE	116	123
GREEN SHALE	123	127
BLACK ROCK	127	139
MED HARD BLACK BASALT	139	144
HARD GREY BASALT	144	216

Work started MAY 24 1965 Completed SEPT 8 1965
Date well drilling machine moved off of well SEPT 8 1965

(13) PUMP:
Manufacturer's Name
Type: H.P.

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME R.L. STRASSER DRILLING CO
(Person, firm or corporation) (Type or print)
Address 8110 SE SUNSET LAKE ARTHAND OR

Drilling Machine Operator's License No. 56
[Signed] Robert L Strasser
(Water Well Contractor)
Contractor's License No. 10 Date SEPT 11 1965

(USE ADDITIONAL SHEETS IF NECESSARY)

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

MORR 615

RECEIVED
OCT 12 1993
WATER RESOURCES DEPT.
SALEM, OREGON

4N/24E/17dc

(START CARD) # 58097

(1) OWNER: Well Number Castle
Name Union Pacific Railroad
Address 1416 Dodge St Room 930
City Omaha State NE Zip 68179

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

(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☐ Cable
☐ Other

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

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 216 ft.
Explosives used ☐ Yes ☒ No Type ---- Amount ----

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
			Original			

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:	Original				☐	☐	☐	☐
					☐	☐	☐	☐
	8	+1	132	.250	☒	☐	☒	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s) Original

(7) PERFORATIONS/SCREENS:
☒ Perforations Method Air perforate
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
90	130	¼x1½	800	----	8	☒	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

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

Yield gal/min	Drawdown	Drill stem at	Time
	Original		1 hr.

Temperature of Water 57 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Morrow Latitude Longitude
Township 4 N N or S. Range 24 E E or W. WM.
Section 17 NW ¼ SE ¼
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) Castle, OR

(10) STATIC WATER LEVEL:
58 ft. below land surface. Date 9/22/93
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found Original

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:
Ground elevation

Material	From	To	SWL
Perforate casing 90' to 130'			
Pressure grout from bottom to	land	surface	
3½ yards Neat cement			

Date started 9/22/93 Completed 9/22/93

(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 Steve Villano WWC Number 1530
Date 10-7-93

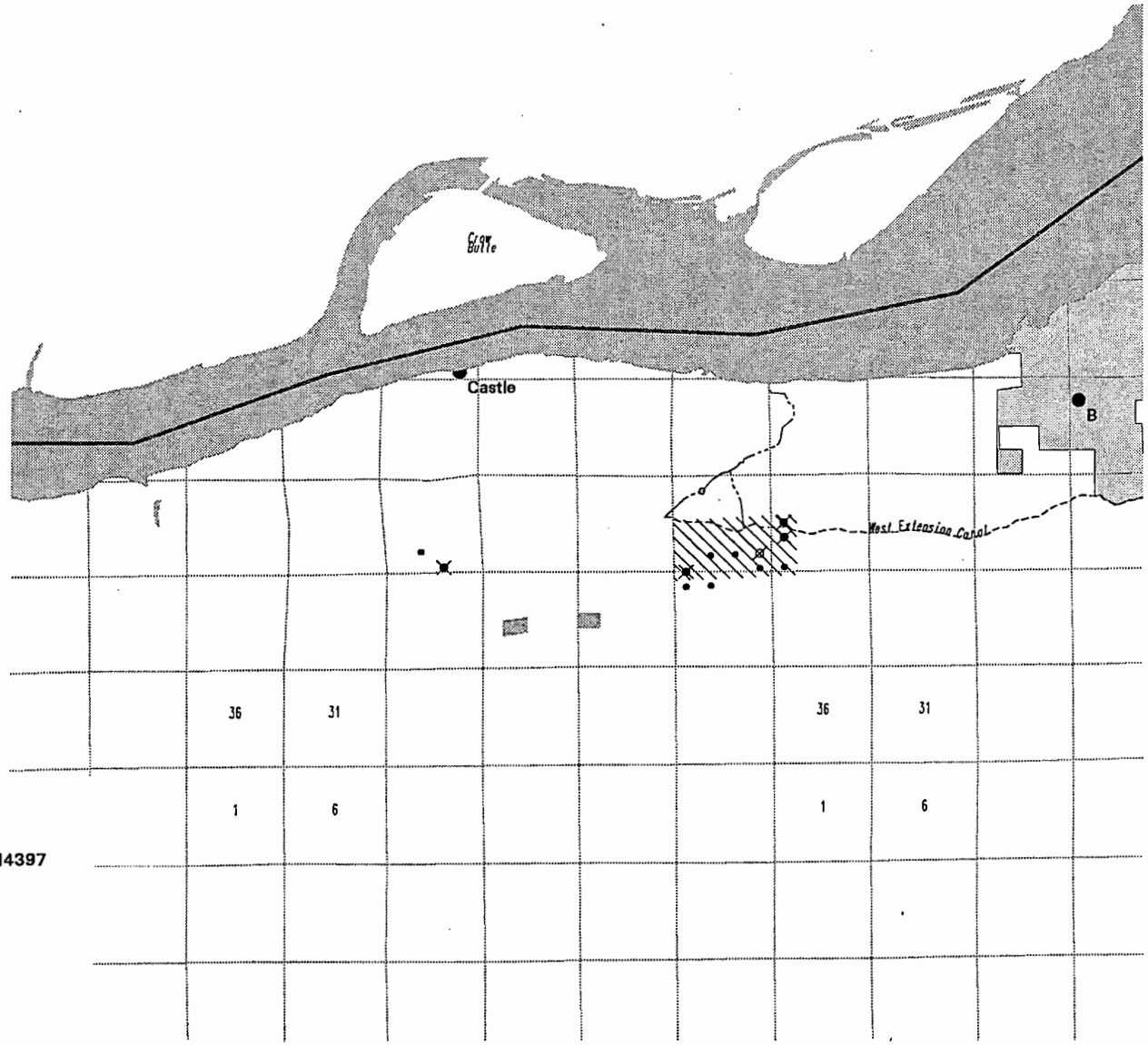
(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed John R. Stokes WWC Number 1483
Date 10-7-93

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 10/91

Wells in the vicinity of application G 14397

- 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 14397

DO	9
ID	4
IM	1
IR	3

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 14397

	PERMIT	T/R/S/QQ	USE	RATE	UNITS
G	2946	4.00N24.00E13NWNW	DO	0.0300	C
G	12054	4.00N24.00E13SWNW	IC	0.1800	C
G	7828	4.00N24.00E14NESE	IR	0.1600	C
G	2806	4.00N24.00E17NWSE	FP	0.0200	C
G	8763	4.00N24.00E14SWSW	IR	1.1600	C

County: MORROW

Quad name & #:

REVIEW CHECKLIST

FOR G- 14397

✓ 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: ___ Well location: 04N/24E/21322

APPLICATIONS WITH PERMIT CONDITIONS:

11-4-96

G-13517

No well log for this? Per Grid

R Ciglar

RVSD.RVW

June 14, 1996

Gary Neal, General Manager
Port of Morrow
P.O. Box 200
Boardman, OR 97818

RE: Port Area Groundwater Information

Dear Gary:

Enclosed is some information which I offered to provide you at our meeting on June 6, 1996. At that meeting, we talked about the Port's pending ground water use applications, the Department's concerns about deep basalt ground water availability in the area, and potential additional water supplies for the Port. In addition to us, the meeting was attended by Ron McKinnis for the Port and Fred Lissner, Mike Zwart, and Dwight French of the Department.

I hope that this information gives you a taste of the widespread declines in the deep basalt ground water source in your area as we perceive them. Our assessment work is on-going in the greater Ordnance Basalt Critical Ground Water Area.

Please contact me if you have questions.

Sincerely,

Donn Miller
Hydrogeologist

enclosures

cc: Tony Justus, Watermaster Dist. 5

Basalt Wells on Edge of Ordnance CGWA															
Owner	Location	LSE	Depth	Depth to top o Artesian Zone	Elev of top of Artesian Zone	SWL#1 Date	SWL#1	Head#1	SWL#2 Date	SWL#2	Head#2	SWL#3 Date	SWL#3	Head#3	
Lindsay	2N/26E-3bcc	786	1265		153	3/1/72	376	410	4/16/84	429	***357***	2/23/95	478	**308**	
Rea	2N/26E-6acc	850	1097			2/4/70	181	669	2/8/84	272	578	2/23/95	297	553	
Lindsay	2N/26E-10cdb	960	1104			2/14/71	154	806	2/11/86	346	614				
Lindsay	2N/26E-11cdd	879	1200			3/15/76	282	597	2/8/84	322	557	2/23/95	399	480	
O'Kane	2N/27E-1bdd	800	886			2/1/60	334	466	2/10/81	348	452	2/21/90	388	412	large rise after '61 dpng
O'Kane	2N/27E-2daa1	810	886			2/1/61	-9	819	2/24/82	390	420				dpnd in '65 with drop?
O'Kane	2N/27E-2daa2	810	1205						2/13/84	402	408	2/24/95	136	674	
Mader	2N/27E-7aab	1030	1461			1/27/71	338	692	2/11/84	494	536	2/22/95	593	437	
Mader	2N/27E-8dab	1055	1251			1/9/70	370	685				3/4/94	604	451	
Hellberg	3N/26E-5cbd	641	950		28										
Madison	3N/27E-25ddc	750	591	534	159	7/17/60	240	510	2/10/76	260	490	2/26/96	454	**296**	
Simplot	3N/28E-6dcc	670	1136	1115	-445	12/5/72	265	405	2/14/84	302	368	2/21/95	359	**311**	CCW, data dances a bit
Simplot	3N/28E-18abd	642	1095	910	-268	12/20/68	232	410	2/13/84	259	***383***	2/28/95	346	**296**	
Simplot	3N/28E-18dbd	655	875	?	?	1/1/56	60	595	2/21/87	334	**321**	2/21/95	365	**290**	recond 1/87 signif.
L&L #1	3N/28E-23dcb	675	1012	?	?										
L&L #2	3N/28E-26baa	680	911	?	?										
L&L	3N/28E-28ada	690	984	540	150	4/3/68	275	415	2/13/84	358	**332**	2/26/96	380	**310**	CCW
L&L	3N/28E-28cab	711	636	504	207	3/2/67	280	431	2/15/86	394	**317**	4/16/92	414	**297**	CCW
Eagle #5	3N/28E-35baa	770	1255	543	227				2/7/83	446	**324**	2/22/95	501	**269**	CCW
Eagle #6	3N/28E-35caa	775	1700	570	205				2/14/86	456	**319**	3/1/94	486	**289**	CCW
Port #4	4N/25E-10aac	276	900	677	-401				2/1/91	-42	**317.6**	2/22/94	-32	**308**	
Port #1	4N/25E-10bdc	280	670	680	-400	2/9/78	-81	**361**	2/10/86	-51	**331**				
Hillview	4N/25E-13acd2	395	335	325	70	12/30/69	-2	**397**	2/17/86	63	**332**	2/27/95	90	**305**	
Hillview	4N/25E-13ada	375	555			1/17/75	-9	**384**	2/10/86	45	**330**	3/2/94	64	**311**	
Hansell	4N/27E-27dad	603	547	526	77										
Redwine	4N/27E-36bba	582	812	775	-193										
Wadekam	4N/28E-7acc	535	286			9/15/72	19	516	2/23/83	64	471	3/5/95	63	472	
Campbell	4N/28E-24bdd	646	917	712	-66	5/15/69	238	**408**	2/13/85	321	**325**				now abandoned
Hermistor	4N/28E-24bdd	646	1500	716	-70							2/24/93	369	**278**	
Simplot	4N/28E-26dc	585	985	422	163				10/22/81	289	***296***				
Union Pac	4N/28E-27dab	633	569	533	100	**8/13/71**	259	**374**							
Reid	4N/28E-30ddd	560	721	701	-141	6/28/67	132	**428**				2/26/96	257	**303**	
Cox	4N/28E-31aca	575	400			2/19/68	40	535	2/13/84	45	530	2/27/95	39	536	
Zabransky	4N/29E-24cdd	720	1340	954	-234							2/24/92	400	**320**	
Umatilla	5N/28E-19aaa	485	785			5/1/54	130	355	2/15/84	128	357	3/4/94	159	326	?
Wadekam	5N/28E-21ccb	390	250						2/15/84	4	386	2/25/95	8	382	

Basalt Wells on Edge of Ordnance CGWA

Dick Gullixson's groundwater report in file G-11992 contained cross-sections that indicated that the following wells are connected stratigraphically with the artesian aquifer at the Port of Morrow

Owner	Location	LSE	Depth	SWL#1 Date	SWL#1	Head#1	SWL#2 Date	SWL#2	Head#2	SWL#3 Date	SWL#3	Head#3	GPM	Drawdown	Spec. Capacity	Comments
Myers	1N/27E-21acc	1290	760	11/12/68	125	1165	2/11/84	174	1116	2/16/91	179	1111	2400	14	171	
Vey	1N/27E-24dd	1350	777	5/23/58	-90	1440	2/6/68	-53	1403				700			
Vey	1N/28E-28bb	1385	365	7/13/53	0	1385	2/12/84	30	1355	2/22/95	24	1361	1300			
Lindsay	2N/26E-3	786	1265	3/1/72	376	**410**	4/16/84	429	**357**	2/23/95	478	**308**	1618	22	74	
O'Kane	2N/27E-2daa2	810	1205	3/27/78	349	461	2/13/84	402	408	2/23/91	468	342	1600			head getting close
Mader	2N/27E-7aa	1030	1461	1/27/71	338	692	2/11/84	494	536	2/22/95	593	437	2650	62	43	
Arlington	3N/21E-28 bbd	300	634				2/12/81	39	261							
Boeing	3N/23E-25bdc	617	790				2/11/80	152	465				725	100	7	
J.R.Simplot	3N/23E-3ac	520	843				10/2/80	245	275				800			
Boeing	3N/24E-15	630	730				9/22/86	160	470				1500			
Hellberg/SK	3N/26E-5cb	641	950	2/4/63	179	**462**	2/13/84	289	**352**	2/19/90	313	**328**	2000	217	9	
Port #1	4N/25E-10bdc	280	670	2/9/78	-81	**361**	2/10/86	-51	**331**				2000	84	24	

Bold type denoted head measurements which seem to approximate the Ordnance deep basalt trend.

April 18, 2000

Mr. Gary Neal, General Manager
Port of Morrow
P.O. Box 200
Boardman, Oregon 97818

RE: Delivery of Geohydrologic Evaluation Report

Dear Mr. Neal:

On behalf of Daniel B. Stephens & Associates, Inc. (DBS&A) I am pleased to forward to you the attached report *Hydrogeologic Evaluation of the Port of Morrow Well Number 4, Umatilla Basin, Oregon.* This report was completed as per the scope of work submitted to the Port of Morrow on August 17, 1999 and accepted in the contract dated November 24, 1999.

Information contained in the report, as described in the scope of work, consists of: (1) a review of the local and regional geologic and hydrogeologic setting, (2) an analysis of the geologic and hydrogeologic conditions of well number 4, (3) a comparison between well number 4 and wells cited by OWRD, and (4) an assessment of probable groundwater availability in the general area. Delivery of this report fulfills our contract with the Port.

Please contact either Terry or myself at our Richland office at 888-946-2206 if you have any questions about the report.

It has been a pleasure working with you on this project and we look forward to working with you again in the future.

Sincerely,
DANIEL B. STEPHENS & ASSOCIATES, INC.

Kevin A. Lindsey, Ph.D.
Attachments

Daniel B. Stephens & Associates, Inc.
719 Jadwin Ave., Room 28 509-946-6431
Richland, WA 99352 FAX 509-946-671

Hydrogeologic Evaluation of the Port of Morrow Well Number 4 Umatilla Basin, Oregon

Volume I: Report Text, Tables, Figures, Plates

Prepared for Port of Morrow
Boardman, Oregon

Prepared by Terry L. Tolan, R.P.G
Kevin A. Lindsey, Ph.D.

April 18, 2000

Daniel B. Stephens & Associates, Inc.

719 Jadwin Avenue, Suite 28 • Richland, Washington 99352

WATER MANAGEMENT/CONSERVATION PLAN

Port of Morrow
Airport Site (Permit G-13283) Superceded by Permit # G-13765
Boardman, Oregon

October 1999

Cascade Earth Sciences, Ltd.

WATER MANAGEMENT/CONSERVATION PLAN
Port of Morrow
Airport Site (Permit G-13283)
Boardman, Oregon

Principle Author: *Greg Thurman, P.E., Managing Engineer*

Reviewed By: *Doug Wanta, RPG, Senior Geologist*

Prepared For:

Port of Morrow
PO Box 200
Boardman, OR 97818

Site Location:

Port of Morrow
1 Marine Drive
Boardman, OR 97818

Prepared By:

Cascade Earth Sciences
107 Island Avenue
La Grande, OR 97850
(541) 963-7758

PN: 9630017/October 1999

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1.0 PROJECT DESCRIPTION

1.1 Introduction

The Port of Morrow (Port) administers and maintains a small industrial park/agricultural area at the Boardman Airport located near Boardman, Oregon. It is a municipal corporation classified as a Special District under Oregon Revised Statute (ORS) 777 et. seq. and is responsible for providing and maintaining potable water supplies to its industrial and commercial tenants. As required by the conditions outlined in Water Rights Permit No. G-13283 and in accordance with Oregon Administrative Rules (OAR) 690-86, the Port is required to submit a Water Management/Conservation Plan to the Oregon Water Resources Department (OWRD) for review.

1.2 Purpose and Scope

The primary purpose of this Water Management/Conservation Plan is to provide a framework for managing existing water supplies with improved water-use efficiency. Specifically, this plan was developed to:

- Provide a detailed description of the existing water supply system and usage
- Report on conservation elements implemented by the Port to prevent waste
- Forecast future water supply needs
- Confirm that the Port's water supply system is in compliance with permitted water rights
- Present water conservation and curtailment plans as required
- Determine water system compliance issues

1.3 General Description

The Port's airport industrial park is located south of the Columbia River and Interstate 84, approximately 1 mile west of Boardman, Oregon (Figure 1). The Port supplies water from groundwater sources for a variety of purposes including manufacturing, landscape irrigation, fire suppression, domestic use, and agricultural irrigation (Figure 2). Domestic wastewater is disposed of through an on-site septic system. If and when this area expands in the future, any industrial process water (i.e., water that has been used as part of an industrial process such as food processing or power generation) will be recycled through agricultural irrigation on the adjacent ground. All process water will be land applied under a Water Pollution Control Facilities (WPCF) permit issued and administered by the Oregon Department of Environmental Quality (ODEQ).

2.0 WATER SUPPLY SYSTEM

2.1 Sources

The Port currently utilizes groundwater for its water supply system. The groundwater is/will be obtained from two wells operated under OWRD permit G-13283 (airport well 1 has been constructed and is in production while airport well 2 will be constructed in 2000). On the whole, the Port has municipal water rights to 4.46 cubic feet per second (cfs). The sources, permit numbers, permitted uses, point of diversions, and withdrawal rates are summarized in Table 1. Water well locations are shown on Figure 2.

2.2 Groundwater Supply Characteristics

2.2.1 Geology

2.2.1.1 Stratigraphy

Similar to the Port's industrial park site located east of Boardman, Oregon, the stratigraphy at the Airport Site can be summarized as eolian sands overlying lacustrine sandy silts, which in turn overlie basalt of the Columbia River Basalt Group. The eolian sand deposit is comprised primarily of fine to very fine wind blown sand, and extends to a depth ranging from about 10 feet at the north end of the site to about 40 feet near the southern boundary. This deposit is apparently uncemented and unconsolidated throughout its thickness.

Underlying the sandy silts elsewhere are Miocene aged basalts of the Columbia River Basalt Group (CRBG). Specifically, basalt of the Saddle Mountains Formation of the CRBG is the first basalt formation encountered in this area, and extends to a maximum depth of about 800 feet (Davies-Smith et al., 1988). Though these formations are generally dense and of low permeability, they form important aquifers where fractured, or where sedimentary interbeds reside between individual flows. Depth to basalt at the Airport Site is estimated to range from 10 to 75 feet below ground surface.

2.2.1.2 Structure

During the eruptions of basalt that formed the CRBG, the Blue Mountains south of the area were being uplifted. This caused the basalt flows to have a slight dip to the north towards the Columbia River. Additionally, the older basalt flows extend further to the south than younger flows due to the continued uplift. The Blue Mountains uplift continued to rise after the deposition of the basalt flow and folded the basalt into broad synclines and anticlines. Folds generally trend east-west to northeast-southwest and are subparallel to the deformation trend of the Blue Mountains

2.2.2 Basalt Aquifer

As discussed above, the site is underlain by basalts of the Columbia River Basalt Group (CRBG). Individual flows range from a few feet to as much as 300 feet thick, with total basalt thickness

estimated at 10,000 feet or more (Davies-Smith et al., 1988). Typically, these flows exhibit a dense center with vertical jointing and a scoriaceous or brecciated zone at the top and bottom. These zones at flow tops and bottoms are called interflow zones, and are often highly transmissive as a result of the above mentioned jointing, breccia, etc. In addition, where sufficient time lapses occurred between individual eruptive events, sediments comprised of eolian silt and sands, and fluvial or glaciofluvial sands and gravels were deposited. These sediments are sometimes referred to as interbeds, and range from a few feet to more than 200 feet in thickness. Where they occur as aerially extensive deposits of sands and gravels, these deposits create an important source of groundwater.

At the Airport Site, groundwater occurs in fractured zones within the uppermost 10 to 30 feet of the basalt. The uppermost 5 to 10 feet of the basalt is comprised of either a dense, apparently low permeability basalt unit, or a highly weathered clayey basalt unit. Both appear to serve as an aquitard, creating confined groundwater conditions at depth.

2.2.2.1 Source of Recharge

The interflow materials make up important water-bearing zones within the basalt aquifer. The major source of recharge to these zones is precipitation, especially in the highlands to the south (the Blue Mountains) where the interflow zones are exposed at the land surface (Oberlander and Miller, 1981). Recharge occurs primarily during the winter and spring, when precipitation and snowmelt are at a maximum, and evapotranspiration is at a minimum. Though annual precipitation may exceed 20 inches in the Blue Mountains, only 4.5 to 7 inches per year is available for groundwater recharge, with the remainder lost to evapotranspiration.

Additional recharge to the basalt aquifer may occur via leakage from streams and from overlying alluvial aquifers. While most streams in the region gain from the groundwater in their upper reaches, many lose water at their lower reaches. Many smaller streams are ephemeral in their lower reaches, losing all of their water during the dry summer and fall months (Davies-Smith et al., 1988). While vertical flow from alluvial aquifers is generally retarded by dense, non-porous sequences of basalt, it may be locally important where interflow zones are connected to the alluvial sediments. Vertically extensive faults and fractures may also facilitate vertical flow within the basalt.

2.2.2.2 Hydraulic Characteristics

Both horizontal and vertical movement of groundwater reportedly occurs in the basalts. In general, horizontal movement predominates in the interflow zones, while vertical movement occurs through fractures within the basalt flows. Most aquifers within the basalt occur under confined conditions.

Regionally, groundwater flow is to the north-northwest (Davies-Smith et al., 1988). Based upon the groundwater maps referenced above, the regional discharge area for the basalt aquifers is believed to be the Columbia River, though, regionally, some of the shallow units discharge to streams near their headwaters. Locally, groundwater flow for the uppermost basalt aquifer is also to the north-northwest. Based on groundwater contours at the Port's Farm 2 site constructed from surveyed monitoring well data (CES, 1997), groundwater within the uppermost aquifer enters the site from the south-southeast,

and exits the site in the north-northwest direction. Using these same maps, the mean hydraulic gradient for the uppermost basalt aquifer is estimated at 52.6 ft/mile, or 0.01 ft/ft while the average hydraulic conductivity is assumed to be about 11.9 ft/day (CES, 1994). While this value is lower than the 18 to 170 ft/day values reported for basalt aquifers in this area (Davies-Smith, et. al, 1988), the uppermost basalt zones are typically weathered, which may reduce transmissivity. Transmissivity may be greater at depth (i.e., within the un-weathered water-bearing zones tapped by local water wells).

Regionally, mean horizontal hydraulic conductivities have been estimated to range from 2.21×10^{-4} ft/s (18 ft/day) to 1.97×10^{-3} ft/s (170 ft/day), the former value being for the Saddle Mountains Formation. Vertical hydraulic conductivities for the basalts have not been determined for the site area, but may be estimated at 5×10^{-8} to 2×10^{-10} ft/s (4.0×10^{-3} to 1.7×10^{-5} ft/day) in the Walla Walla River Basin area (Davies-Smith et al., 1988). This data suggests that the basalt formations are, on average, about 47,000 times move conductive in the horizontal direction than in the vertical direction.

Assuming a porosity of 15% for fractured basalt (Istok, 1989) and a hydraulic conductivity of 11.9 ft/day, the average linear groundwater velocity can be estimated at 0.8 ft/day using Darcy's Law. Based on this information, solute transport time across the site is estimated at 18.1 years (assuming a site length of one mile).

2.2.3 Alluvial Aquifer

Regionally, alluvial sediments overlaying the CRBG often contain sufficient groundwater for domestic use. At the Airport Site, however, collected data indicates the alluvial and eolian sediments only yield groundwater in localized areas. Observations made during construction of site monitoring wells at other sites in the area showed sediments in most cases to be slightly moist or unsaturated (CES, 1997). This suggests that "alluvial" groundwater may occur on a seasonal basis, and is not present throughout the site at all times. Groundwater is therefore assumed to occur within the alluvial and eolian sediments at this site to a limited extent (spatially variable). In addition, all adjacent domestic water wells are completed within the basalt, suggesting the alluvium in this area does not contain significant quantities of groundwater for development of water wells.

2.2.3.1 Source of Recharge

As discussed above, small bodies of alluvial groundwater may exist at the site. As precipitation is very low for this area, agricultural practices may be the primary recharge source for this water. In addition, it is also possible that faulting and/or fracturing of the underlying basalt has created discrete basalt aquifer discharge zones.

2.2.3.2 Hydraulic Characteristics

Observations made during construction of site monitoring wells at Farm 2 suggest this alluvial water occurs under unconfined conditions, in which case groundwater flow direction may be strongly influenced by the slope of the underlying basalt surface. Assuming this inference holds true for this

area, unconfined groundwater flow should be to the north-northwest. However, this water appears to be seasonal.

2.2.4 Water Quality

Water quality from the existing sources is generally good to very good with respect to the intended uses. The basalt aquifer is essentially free of detectable levels of nitrate-nitrogen. Elevated nitrate levels are commonly observed within the shallow alluvial aquifer due to historical agricultural activities in the region. While this is acceptable for general irrigation, it is typically not suitable for domestic/municipal consumption. All water sources designated for municipal and industrial use are monitored for quality characteristics in accordance with Oregon Health Department guidelines.

2.3 Distribution and Storage System

Figure 3 is a generalized flow diagram illustrating the existing supply system. The water main lines are constructed of steel while the irrigation lines (i.e., those lines that deliver water to the center pivots) consist primarily of 6 to 8-inch PVC. As shown in Figure 3, this supply originates from the basalt aquifer and is pumped directly into the distribution network.

2.4 Current Water Demand

Based on 1998 information (Neal, 1999), the Port only utilizes an average of 25 gpm from its groundwater sources for industrial purposes (Figure 3). The current fresh water irrigation requirements, based on crop demand calculations, are 1,135 gpm. Peak flows may exceed 200 gpm and 2,000 gpm for industrial and irrigation, respectively. Industrial consumption is expected to increase as the site is further developed, however, the Port would expect the fresh water irrigation requirements to decrease through the recycling of industrial process water on the agricultural fields (e.g., the Port currently recycles 80% of the industrial process water used at the main industrial park).

2.5 Customer/Capacity Characteristics

The water supplied by the Port is primarily used for domestic purposes (i.e., minimal landscape irrigation, drinking water, sanitary facilities, cleaning, etc.). At this time, the only industrial tenant at the site is Bigfoot Industries, which manufactures travel trailers, and a series of potato and onion storage barns.

There are no major capacity limitations to the distribution system at this time. However, the system will have to be upgraded when additional industrial clients move to the site.

3.0 WATER CONSERVATION PROGRAM

3.1 Water-Use Reports

The Port currently submits annual water-use reports to the OWRD in accordance with OAR 690-85 et seq. Water utilization is currently measured on a daily basis through a series of meters located at key locations (refer to Section 3.2).

3.2 Water-Use Reduction Programs

3.2.1 Leak Repair Program

The water distribution system is less than 10 years old and, according to maintenance history, no problems with leakage or significant water loss has been evident. The piping is still functioning well and has not posed any problems. Based upon this information, it is not likely that a program for pipe replacement is needed within the next 10 to 20 years.

At this time, the Port has available the necessary equipment, pipe, and fittings to do emergency repairs. Anticipated response time is reported to be a maximum of 24 hours for complete repair of a system leak.

The current leak repair/detection program is based upon the metering of water sources. Water meters are in place at all industrial/commercial facilities for billing purposes. In addition, all source wells, as well as key main-line junctions, are equipped with meters to determine pumping volumes for water-use reporting (refer to Section 3.1). All meters are read on a daily basis and a water balance completed to determine actual water delivery rates. If the water balance exceeds 5%, or if an industrial/commercial tenant finds inaccuracies on a monthly bill (i.e., the facilities have there own internal water metering devices), the Port maintenance staff is alerted to determine the cause of the error. This program has worked well over the past several years to detect faulty meters, cracks in lines, and significant coupling leaks. Under this system, the goal is to reduce water loss due to leakage to less than 5%.

3.2.2 Landscape Irrigation Policy

Landscape areas at the Airport Site are minimal and are primarily located at Bigfoot Industries. This facility has a landscaped lawn and erosion control areas, which are irrigated with metered water. Seasonal water use for irrigating these areas (June-September) averages approximately 5 gpm. Sprinkler systems are controlled manually and have impact sprinkler heads.

The following techniques are used as part of the Port's conservation program for landscape irrigation:

1) Lawn watering systems are shut off at the first sign of surface soil saturation or runoff.

2) Watering is done at night, in the early morning or evening hours when evaporation is least likely to occur. Drip irrigation may be used during the day with reduced evaporation losses.

3) Watering is done at a maximum frequency of twice per week or less if the lawns need less moisture. Sandy soils in the area require a maximum of 1.5 inches of water per application (USDA, SCS, 1985).

4) Watering is discouraged during periods of high winds.

5) The sprinkler system is maintained to eliminate leaks and overspray on paved areas or buildings.

6) When re-seeding or selecting plants for landscaping, low water-using varieties will be chosen. Plants of similar water needs will be placed in common areas in order to benefit from the same application of water.

3.2.3 Incentive Programs/Policies

Water conservation and water use efficiency as used herein, relate to the purposeful inefficient or uncontrolled use of water resources. The Port is committed to water conservation and water use efficiency to the extent practicable, especially where there is no opportunity for reuse or recycling of the water for beneficial uses (e.g., agricultural irrigation, steam re-use, etc.). The Port sells metered water to customers within its industrial zone. Because of this, there is a financial incentive for the industrial clients to conserve water.

3.2.4 Fixture Replacement/Retrofit

Fixtures such as toilets, sinks, and showers are few. The replacement of inefficient water fixtures at the industrial facilities is encouraged through the Port's water supply rate structure (i.e., all supplies are metered and tenants pay on an "as used" basis). Port-owned facilities are routinely monitored and upgraded/repaired by the Port maintenance staff.

3.2.5 Water Conservation Rate Structure

The current rate structure is based on contacts with industrial and commercial companies and cannot be readily changed in the near future. However, major water users have a large financial incentive under the current structure to conserve water inside their various facilities.

3.2.6 Water Reuse

Because of low utilization and type of water use at the site, the Port does not currently recycle water. However, the Port has a demonstrated commitment to water recycling (e.g., Farms 1 and 2 at the main Industrial park) and has a policy of incorporating the agricultural reuse of process water. The water reuse program will be incorporated as the site is expanded for industrial use.

3.2.7 Irrigation Conservation Program

To date, the Port has spent over $150,000 for upgrading the center pivot systems located on the Port's agricultural property. This has included the installation and retrofitting of the system with low-pressure piping, drop tubes and applicators (i.e., almost all high-pressure impact sprinklers have been eliminated). Furthermore, the Port utilizes best management practices for irrigation timing in the form of neutron probe testing of soil moisture content and routing review of satellite weather data.

3.3 Water Conservation Measures

3.3.1 Annual Water Audit

An expanded audit of water use at the Port will be conducted annually as part of the state's annual water use reporting program. The expanded audit will include, among other items, a review of the fresh water distribution system, the irrigation system, water use trends by the major customers, current water rights and needs, conservation measures, and future water demands expected to meet expansion needs.

In addition, the auditor will conduct the following:

1) Inspect all plumbing fixtures.

2) Inspect storage facilities.

3) Interview select customers about water use habits.

4) Inspect irrigation systems (landscape and field).

5) Review water use/leak detection records to evaluate system performance.

3.3.2 System Metering

All water sources are fully metered and measurements are recorded on a daily basis. The water system is also metered at the discharge points (i.e., industry, center pivots, pump stations, etc.).

3.3.3 Leak Detection

The leak detection program implemented by the Port is described in Section 3.2.1.

3.3.4 Meter Testing/Maintenance Program

The Port currently checks its meter performance through the water balance program described in Section 3.2.1. In addition, all meters will be inspected and tested on a scheduled basis per manufacturers suggested guidelines. Records of the testing of all metering systems will be kept on file at the Port.

3.3.5 Public Education Program

Annual meetings are scheduled that include representatives from the Port and its water customers. These meetings take place on a semi-annual basis in conjunction with the Port's Water Committee, which is made up of representatives from the Port, City of Boardman, and industrial tenants. These meetings typically occur after the results of the annual water audit are complete. Discussions typically include observations made by the water audit concerning water conservation and how it might be improved.

4.0 WATER CURTAILMENT PROGRAM

4.1 Past Supply Deficiencies

To date, industrial demand has not exceeded the available supply. During past periods of drought conditions (i.e., high ambient temperature and low precipitation), some crops have displayed stress due to insufficient water. Such occurrences, however, have been relatively infrequent.

4.2 Deficiency Warning Plan

This section presents three levels, or conditions, of alert for potential water shortages due to supply limitations or water service problems. These levels address potential problems, ranging from mild supply problems to critical emergencies.

4.2.1 Level One

A Level One condition, as defined herein, occurs when steady state (60 or more consecutive days) water demand reaches 80 percent of the maximum water supply capabilities. A Level One condition will also occur if transient (5 consecutive days per month) demand reaches 85 percent of the Port's maximum water supply capabilities. Monitoring of select flow meters (i.e., at industrial user locations) on a daily basis will allow an assessment of water demand.

In the event that a Level One condition occurs, the Port of Morrow will stress those conservation measures discussed in Section 3.0 above (e.g., reduction/elimination of lawn watering, immediate repair of any leaky lines, cessation of any parking lot or sidewalk "washing", etc.). If these measures fail to reduce demand within 60 days, then the condition will be upgraded to Level Two.

4.2.2 Level Two

A Level Two condition occurs when demand exceeds those levels established under Level One. As above, recording of select flow meters on a daily basis will allow an assessment of water demand. In the event that a Level Two condition occurs, the Port will increase its conservation measures and eliminate all non-critical water usage (i.e., elimination of lawn watering, outdoor washing, water intensive construction projects) and reduce crop irrigation frequency to the extent practical. If these measures fail to reduce demand within 30 days, then the condition will be upgraded to Level Three.

In addition to the above supplements, the Port will re-evaluate projected agricultural and industrial growth trends, and will examine the feasibility of such growth. Cropping plans will be examined and, if possible, crops changed such that only the most water efficient crops are produced. Should water supply become a limiting factor to continued development of Port-based industries, the Port will consider alternative sources, and/or consider maintaining industrial and agricultural activities at that level sustainable by the available water supply.

4.2.3 Level Three

A Level Three condition is defined as one in which steady state or transient water demand meets or exceeds all available water resources during any time period. Under such conditions, emergency measures will be taken. Such measures include complete cessation of select cropping irrigation and/or shutdown or curtailment of any industries defined to be both water intensive and/or of relatively low economic importance.

5.0 LONG TERM WATER SUPPLY

5.1 Projected Demand

Long-term peak water demands have been projected as follows:

Years	Industrial/Municipal	Irrigation	Total Demand
Present	25 gpm	1,135 gpm	1,160 gpm
5 Years	500 gpm	1,135 gpm	1,635 gpm
10 Years	1,000 gpm	1,135 gpm	2,135 gpm
20 Years	1,500 gpm	726 gpm	2,226 gpm

The projected demands for industrial usage are based upon current growth trends with regards to Port development. Projections for irrigation demands are dependent upon industrial growth, future land acquisitions, and delivery of recycled water to Port-owned agricultural fields. As shown, the current municipal water rights could be exceeded within 20 years. At this time, it is assumed that 80% of industrial process water can be recycled on the adjoining agricultural fields. As such, the fresh water irrigation needs could actually be reduced over the next 20 years from current levels.

Peak water demand by the Port and its users may approach the total permitted withdrawal rates within

the next 10 years. As such, additional water storage capacity and/or water rights may be required for municipal purposes.

5.2 Future Water Sources

The existing basalt aquifer is the only source of water available within the airport area. As a result, future water needs will rely on this source, with additional water rights filed as needed.

6.0 PLAN REVIEW AND AMENDMENT PROCEDURES

The Port will review this plan on an annual basis as part of the annual water audit and amend it as necessary for any of the following reasons:

- Increased water use by industrial tenants (greater than 10%)
- Whenever there is a change in facility design, construction, operations, or maintenance that materially affects the water conservation program
- If revised growth projections indicate a significant change from the projected water demands outlined herein

In any case, the Port will review and update this plan, as needed, every 5 years. At a minimum, an updated water management and conservation plan will be submitted to OWRD every 10 years.

CASCADE EARTH SCIENCES

Greg L. Thurman, P.E.
Senior Project Manager

REFERENCES

Cascade Earth Sciences, Ltd. (CES) 1994. *Response to DEQ Review of EFSC Site Application For Coyote Springs Cogeneration Plant.* Prepared by CES, principal authors: Bart Barlow, C.P.S.S., Principal Soil Scientist; Bill Saur, RPG, Senior Geologist; Scott M. Urban, GIT, Hydrogeologist.

Davies-Smith, A., Bolke, E.L., and Collins, C.A. 1988. *Geohydrology and Digital Simulation of the Ground-Water Flow System in the Umatilla Plateau and Horse Heaven Hills Area, Oregon and Washington.* U.S. Geological Survey Water Resources Investigations Report 87-4268.

DEQ. 1991. *Groundwater Quality Protection.* OAR 340-40. Oregon Administrative Rules. Department of Environmental Quality. Salem, Oregon.

Fetter, C.W., Jr. 1988. *Applied Hydrogeology* (second edition). C.E. Merrill Publishing Co. Publishers, Inc. Ann Arbor, MI. Columbus, Ohio.

Istok, J.D. 1989. *Groundwater Modeling by the Finite Element Method, Water Resources Monograph 13.* American Geophysical Union, 495 pp.

McCall, W.B. 1975. *Ground Water Conditions and Declining Water Levels in the Ordnance Area, Morrow and Umatilla Counties, Oregon.* Ground Water Report No. 23, OR. W.R.D.

Miller, Donn W. May 1985. *An Evaluation of Artificial Recharge to the Alluvial Ground Water Reservoir Near Ordnance, Oregon for the Period 1977-1984.* Oregon Water Resources, unpublished report, Salem, Oregon.

Oberlander, Phil L., and Miller, Donn W. 1981. *Hydrologic Studies in the Umatilla Structural Basin*; Open File Report, Oregon Water Resources Department.

OWRD, 1988. *Umatilla Basin Report.* Oregon Water Resources Department, Salem, Oregon.

USDA, SCS. 1976. *Soil Survey Report*, Morrow County Area, Oregon.

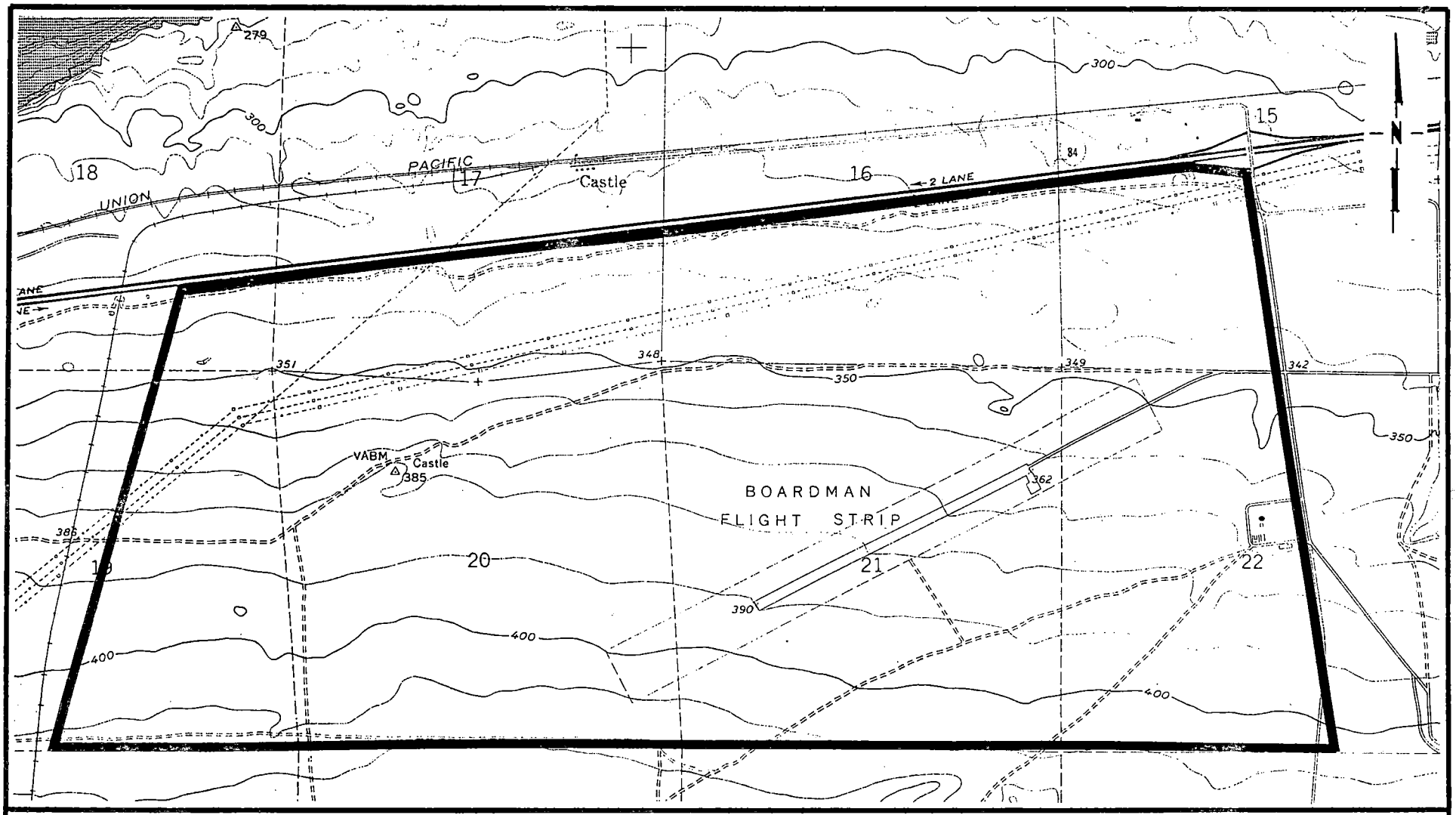
TABLES

Table 1. Summary of Permitted Water Sources

Table 1. Summary of Permitted Water Sources
Port of Morrow, Boardman, Oregon

Source Name	Permit No.	Point of Diversion	Permitted Use	Source	Permitted Rate (cfs)
Airport Well 1	G-13283	T4N, R25E, SESE Sec. 21	Municipal	Basalt Aquifer	4.96
Airport Well 2		T4N, R25E, SWSW Sec. 22			
				Total:	4.96

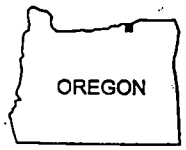
FIGURES



SCALE 1 INCH = 2,000 FEET

1 1/2 0 1 MILE

CONTOUR INTERVAL = 20 FEET



(SOURCE: 7.5 MIN USGS TOPOGRAPHIC MAP OF CROW BUTTE, WA-OR 1962, PHOTOREVISED 1987)

Figure 1. Site Location Map

PROJECT NUMBER: 9630017	WATER MANAGEMENT/ CONSERVATION PLAN
DATE: 9/29/99	
DWG BY: KAC / DWG NO: 96L017F4	PORT OF MORROW AIRPORT SITE BOARDMAN, OREGON
PROJECT MANAGER: GLT	
REVISED:	CASCADE EARTH SCIENCES A Valmont Industries Company

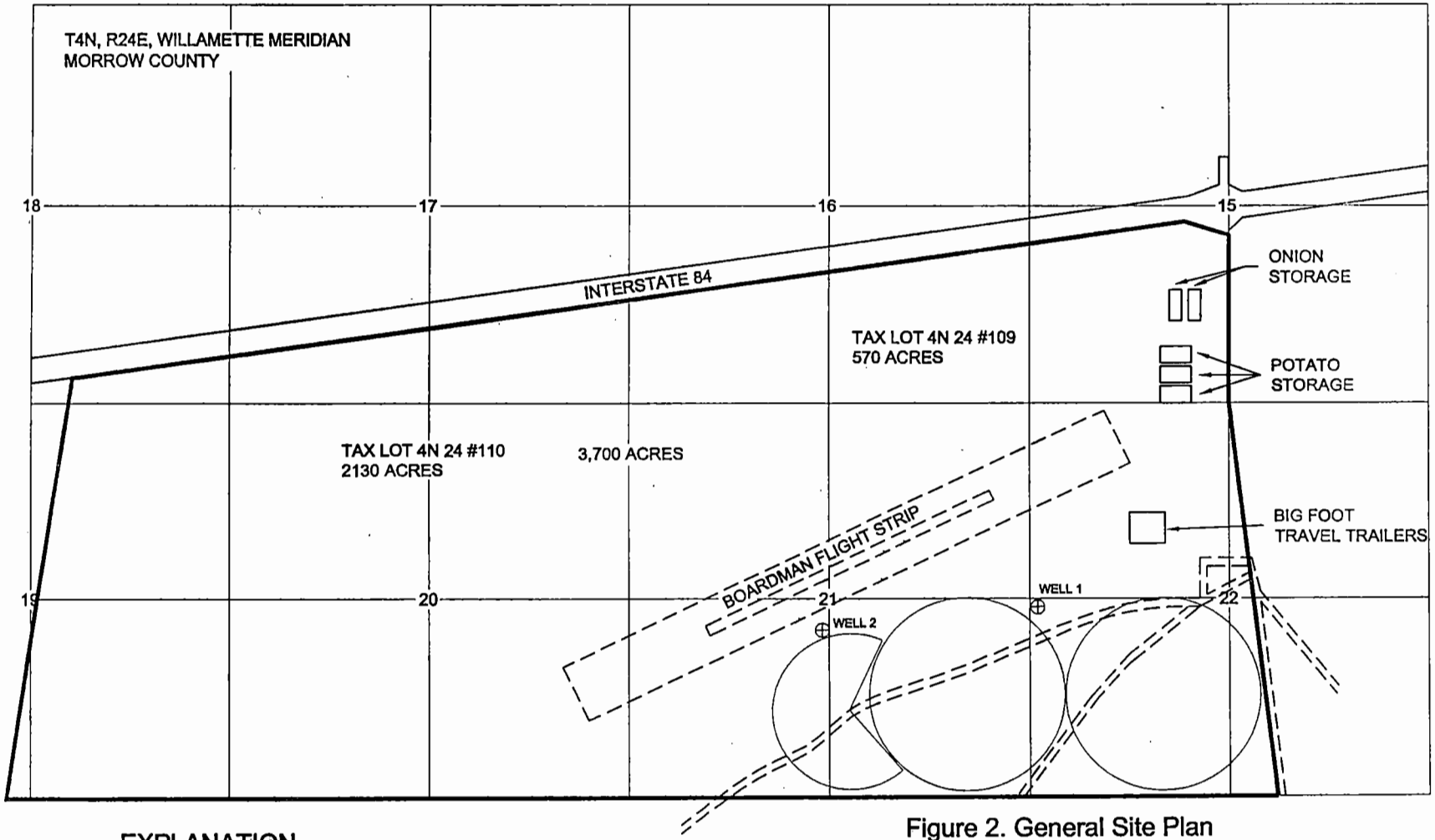


Figure 2. General Site Plan

EXPLANATION

WELL 2 ⊕ Water Well

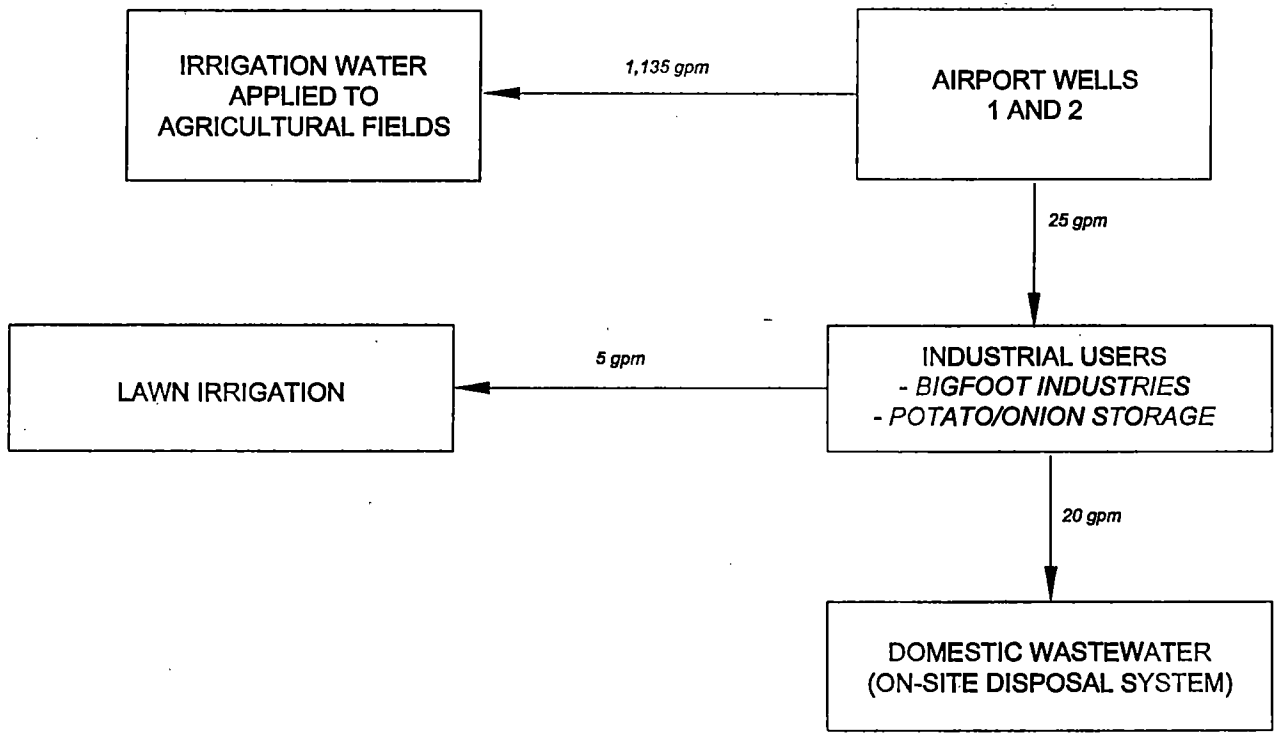
Site Boundary

0 2000 FEET

SCALE

(LOCATIONS ARE APPROXIMATE)

PROJECT NUMBER: 9630017	WATER MANAGEMENT/ CONSERVATION PLAN
DATE: 9/29/99	
DWG BY: KAC / DWG NO: 96L017F5	PORT OF MORROW AIRPORT SITE BOARDMAN, OREGON
PROJECT MANAGER: GLT	
REVISED:	CASCADE EARTH SCIENCES A Valmont Industries Company



EXPLANATION

5 gpm Average Flow Rate Based on Monthly Water Use Data

Figure 3. Water Flow Schematic

PROJECT NUMBER: 9630017	WATER MANAGEMENT/ CONSERVATION PLAN
DATE: 10/6/99	
DWG BY: KAC / DWG NO: 96L017F7	PORT OF MORROW AIRPORT SITE BOARDMAN, OREGON
PROJECT MANAGER: GLT	
REVISED:	CASCADE EARTH SCIENCES A Valmont Industries Company

Selected Basalt Wells Within or on Edge of Ordnance Basalt Critical Ground Water Area							
Owner, Well Number	Location	LSE at Well in Feet above MSL	Well Depth	Altitude at Top of Artesian Zone	Date of Most Recent Quasi-Static Water Level	Water Level in Feet	Head of Water in Feet above MSL
Lindsay, BC #62B	2N/26E-3bcc	786	1265	153	3/1/96	476	310
SK Farms, ORD#86	3N/26E-5cbd	641	950	28	2/19/90	313	328
Port #4	4N/25E-10aac	271	900	-379	2/22/94	-32	308
Port #1	4N/25E-10bdc	280	670	-400	2/10/86	-51	331
Hansell, ORD#83	4N/27E-27dad	603	543	77	2/27/96	289	314
Information Subject to Revision							

Oregon
John A. Kitzhaber, MD, Governor

Water Resources Department
North Mall Office Building
725 Summer St NE, Suite A
Salem, OR 97301
Phone (503) 986-0900
Fax (503) 986-0904
www.wrd.state.or.us

October 13, 2014

PORT OF MORROW
PO BOX 200 ONE MARINE DR
BOARDMAN OR 97818

Reference: Application G-14397, Permit G-13765

Dear Permit Holder:

This letter is in regard to your water use permit referenced above. The Department would like to help you succeed in completing the development of your water use permit. Your permit required you to complete the development of your water use by 10/1/2012.

If you have not yet finished the development of your water use permit (water system construction and beneficial water use) you need to file an application for an extension of time. The Department's approval of an extension of time request provides more time to complete permit development. The current fee for filing an extension of time is $575.00. Please see the enclosed 'Resource Sheet' to access the extension of time form.

If you have completed development of the water use permit, ***within the development timelines in the permit or previous extension of time***, you may be ready to seek a water right certificate. A certificate is the final stage in the water right development process and provides the highest level of certainty and protection for your water rights. To obtain a water right certificate you are required to hire a certified water rights examiner (CWRE) to prepare and submit a claim of beneficial use that includes a final proof survey map of the water right development. The fee for submitting a claim of beneficial use is $175.00. Please see the enclosed 'Resource Sheet' for our current database of CWRE's.

If you no longer want the water use permit you may voluntarily cancel it, which will help the Department maintain accurate records. Please see the enclosed 'Resource Sheet' to access the cancellation form, if you are interested in this option.

I encourage you to either: (1) file for an extension of time; (2) work with a CWRE to develop and submit a claim of beneficial use; (3) voluntarily cancel the permit; or (4) contact our office in the next 90 days to discuss your plans and a schedule for progress. If you decide to take none of these four actions within 90 days of this letter, the Department may begin the process of cancelling the permit for you in accordance with the provisions of ORS 537.260 and ORS 174.160.

I have included contact information for my staff on the back of this letter so we may assist you efficiently. Should you have any questions, you may contact me directly at the address above or by telephone at 503-986-0819.

Sincerely,

Dwight French
Water Right Services Division Administrator
Oregon Water Resources Department

Enclosures (1)
cc: File G-14397
OWRD Watermaster 5

Contact information for WRD staff

Claims of Beneficial Use
Gerry Clark: 503-986-0811

Permit Extensions
Municipal: Ann Reece 503-986-0834
Quasi-Municipal: Steven Parrett 503-986-0825

Permit Cancellations
Jerry Sauter: 503-986-0817

NOTE: For water rights information and useful forms, please see our web site at www.oregon.gov/OWRD

Gerry Clark

From: Gerry Clark
Sent: Wednesday, May 08, 2013 11:24 AM
To: 'Ron McKinnis'
Subject: RE: Permit G-13765

Ron,

I thought that I had gotten back to you on this issue. You are correct, you will need to file an extension for this file.

Due to the way that the municipal and irrigation uses are tied together, you are unable to partially perfect under this permit.

Sorry for the delayed response.

Gerry

Gerry Clark
Water Right Services Division
Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301

Phone: 503-986-0811

From: Ron McKinnis [mailto:RonM@portofmorrow.com]
Sent: Tuesday, May 07, 2013 4:33 PM
To: Gerry Clark
Subject: Permit G-13765

Gerry,
I did not hear back on your discussion with Dwight on this Port Airport Permit?
I assume that I need to go ahead and file an extension on it?
Thanks!
Ron

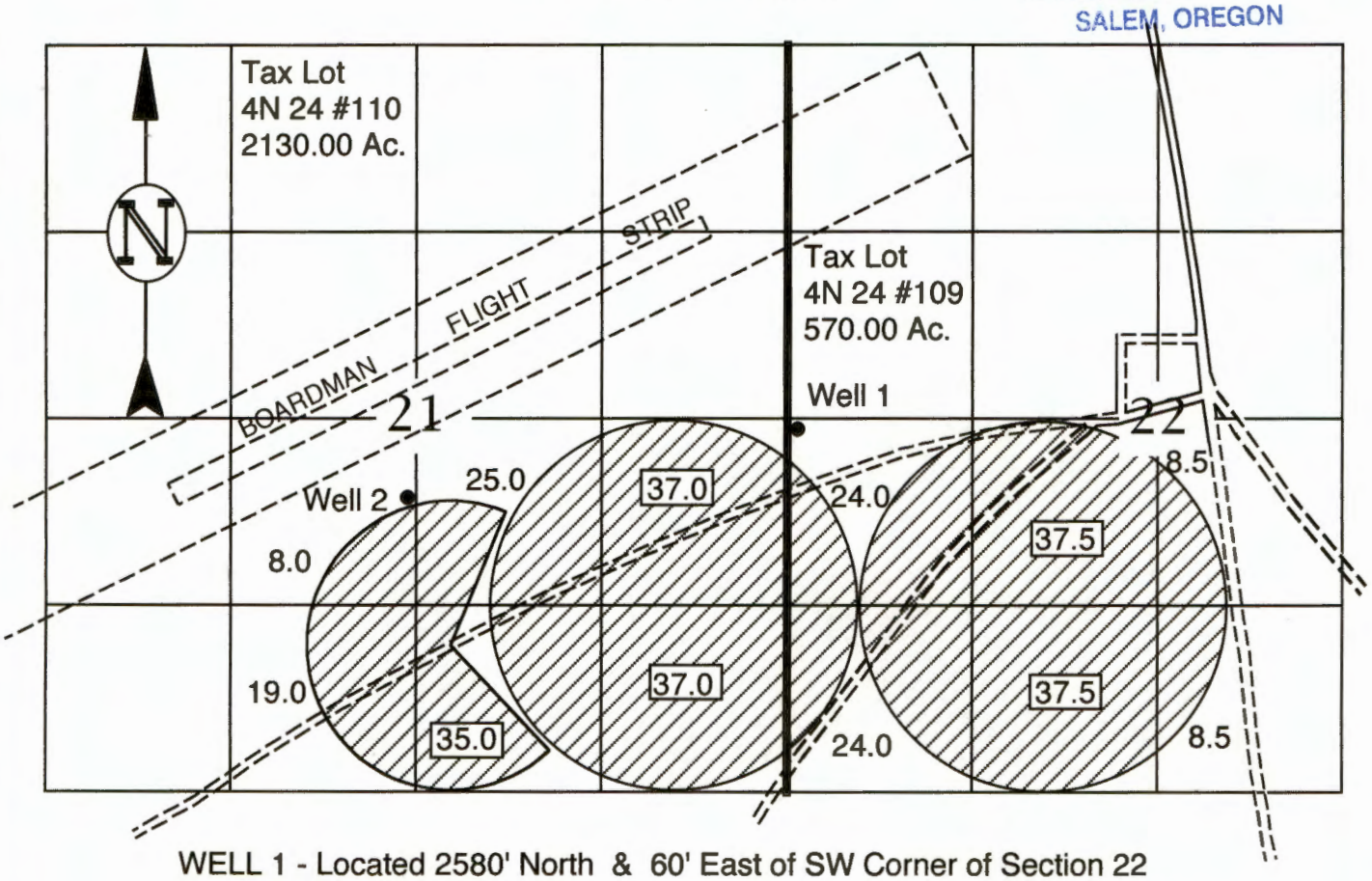
Ronald V. McKinnis PE, PLS, WRE
Port of Morrow Engineer,
PH. 541-481-7678
Fax 541-481-2679
ronm@portofmorrow.com

T. 4N., R. 24E., W.M.

MORROW COUNTY

SCALE 1" = 1320'

RECEIVED
JUN - 9 1997
WATER RESOURCES DEPT.
SALEM, OREGON



WELL 1 - Located 2580' North & 60' East of SW Corner of Section 22
WELL 2 - Located 2085' North & 2650' West of SE Corner of Section 21

WATER RIGHTS APPLICATION MAP

▨ Irrigation Water Rights Applied for at This Location

IN NAME OF

PORT OF MORROW

THIS MAP IS FOR THE PURPOSE OF IDENTIFYING THE LOCATION OF WATER RIGHTS ONLY AND IS NOT INTENDED TO PROVIDE THE LEGAL DIMENSIONS OR LOCATIONS OF PROPERTY OWNERSHIP LINES.

Application # G-14397 Amended

Permit G13283

Certified Water Right Examiner
#208 WRE
RONALD V. McKINNIS
NOV. 29, 1988
STATE OF OREGON
Exp 12-31-98

Engineering - Surveying - Water Rights

PORT OF MORROW TECHNICAL DIVISION

P. O. Box 200 - One Marine Drive
Boardman, Oregon 97818

PORT OF MORROW
MORROW COUNTY OREGON
P.O. Box 200, Boardman, OR 97818
(541) 481-PORT • Fax (541) 481-2679

Mr. Dwight French, Administrative Assistant
Water Rights and Adjudication Division
Oregon Water Resources Department
158 12th Street NE
Salem, Oregon 97310-0210

March 17, 1997

Ref. Application G-14397

Dear Mr. French;

We appreciate the cooperation that we have received to this point on the above water rights application.

In our meeting of March 13, 1997, with you, Dick Bailey and Bill Fujii, we discussed the most appropriate process to follow that would allow us to use the pending application in the manner that we had intended.

As we have explained, the Port intends to develop the airport industrial property in the same manner as we have done at our Port industrial park. This would include the development of agricultural lands which at first would be irrigated with direct flow from the wells. As the industrial activities are developed then the irrigation would continue through a secondary use. This secondary application of waters from industries would also be regulated by the Oregon Dept. of Enviromental Quality.

Under our existing waste water permit, there is still a certain portion of the total irrigation which would be required to be fresh water to minimize nutrient loading. This means that direct application of water from the wells for irrigation will continue to be, to some extent, a standard operating procedure. The pending application was for " Municipal Use "which you felt could be somewhat awkward with the proposed direct irrigation.

With these concepts in mind, the Port of Morrow would like to amend this application, G-14397, to be: Municipal to Include Irrigation; for 4.96 CFS (2230 GPM) of which 3.75 CFS (1683 GPM) may be used for direct irrigation of approximately 300 Acres. These same acres may be irrigated through a secondary use of waste water from Municipal / Industrial activities.

A superseding Application and Application Map will be forwarded to you as soon as possible. Again we appreciate the Department's cooperation in this matter.

Sincerely,

Ronald V. McKinnis PE, PLS, WRE
Port of Morrow Engineer

Appl. G-14397

Laura A. Schroeder
Licensed in Oregon, Idaho, Nevada and Washington

V. Scott Borison, Ph.D.
Certified Legal Manager

Daryl N. Cole
Office Manager

SCHROEDER
LAW OFFICES, P.C.

Lynn L. Steyaert
Licensed in Oregon and Nevada

Cortney D. Duke
Licensed in Oregon

Colm Moore
Licensed in Oregon and Nevada

Therese A. Ure
Licensed in Nevada

Wyatt E. Rolfe
Licensed in Oregon

September 5, 2007

VIA FACSIMILE & US MAIL

Oregon Water Resources Department
725 Summer Street N.E. Suite A
Salem, OR 97301-4172
Attn: Phil Ward
Fax: (503) 986-0904

RE: Public Records Request

Dear Mr. Ward:

Our office makes the following request for public records under the INSPECTION OF PUBLIC RECORDS LAW, ORS 192.410 – 192.530. The requestor is willing to pay up to a maximum of $100 in fees for the requested materials; however, please advise if the cost may exceed that amount ORS 192.440(3) Otherwise, if there are any fees that occur during duplication of these materials, please enclose an invoice and our bookkeeper will pay upon receipt.

Please make the following file available for review and copying by our office on Friday, September 7, 2007: Permit G-13765 and any related files, including files from the groundwater section, annual reports, and conservation plans. Should you have any questions, please contact Wyatt Rolfe of this office at (503) 281-4100. Thank you for your assistance in this matter.

Very truly yours,

SCHROEDER LAW OFFICES, P.C.

Wyatt E. Rolfe

RECEIVED
SEP 05 2007
WATER RESOURCES DEPT.
SALEM, OREGON

WER:kct

cc: Client

Laura A. Schroeder
Licensed in Oregon, Idaho, Nevada and Washington

V. Scott Borison, Ph.D.
Certified Legal Manager

Daryl N. Cole
Office Manager

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Licensed in Oregon

September 5, 2007

VIA FACSIMILE & US MAIL

Port of Morrow
App # G 14397

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Attn: Phil Ward
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Very truly yours,

SCHROEDER LAW OFFICES, P.C

Wyatt E. Rolfe

RECEIVED
SEP 05 2007
WATER RESOURCES DEPT.
SALEM, OREGON

WER:kct

cc: Client

MORR 50471

FEB 04 1999

WELL I.D.# L 22925

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

WATER RESOURCES DEPT

Instructions for completing this report are on the last page of this form

(1) OWNER: Well Number

Name Circle C Farms (S. Peterson)

Address 2995 S. 1st St.

City Hermiston State OR Zip 97838

(2) TYPE OF WORK

☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger

☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation

☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval ☐ Yes ☒ No Depth of Completed Well 948 ft.

Explosives used ☐ Yes ☒ No Type _____ Amount _____

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
19"	0	435	Cement	0	435	300 sacks
12"	435	535				
10"	535	948				

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:	16"	+2	435	.375	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☐ Perforations Method

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
2000+		948	1 hr. 2hrs.

Temperature of water 72 Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description

County Morrow Latitude Longitude

Township 4N N or S Range 24E E or W WM.

Section 22 NW 1/4 SW 1/4

Tax Lot

Street Address of Well (or nearest address) Tower Road, Hermiston

(10) STATIC WATER LEVEL:

58 ft. below land surface. Date 10-28-98

Artesian pressure _____ lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 85

From	To	Estimated Flow Rate	SWL
75	155	500	58
183	285	1000	58
625	735	1200	58
920	945	1000+	58

(12) WELL LOG:

Ground Elevation

Material	From	To	SWL
Sand	0	3	
Brown basalt	3	20	
Brown & black basalt	20	45	
Black basalt, hard	45	75	
Claystone, soft	75	155	WB
Gray basalt	155	183	
Gray fred basalt	183	285	WB
Claystone	285	400	
Claystone, caving	400	415	
Gray basalt	415	625	
Gray basalt, soft	625	735	WB
Gray basalt, hard	735	920	
Black basalt, broken	920	945	WB
Gray basalt, hard	945	948	

Date started 5-4-98 Completed 10-28-98

(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 water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number

Signed Date

(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 water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 1218

Signed Patrick Willard Date 11-20-98

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

MORR 56531

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APR 9 1999

STATE OF OREGON
WATER SUPPLY WELL REPORT

WELL I.D. # [illegible]
START CARD # [illegible]

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

(2) TYPE OF WORK
☐ New Well ☐ Deepening ☒ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☒ Yes ☐ No Depth of Completed Well 946 ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
16	0	942	cement	420	440	280 sks

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:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:	12	600	942	250	☒	☐	☒	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:
☒ Perforations Method Torch
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
601	602	1x6	4			☐	☒
660	680	1x6	80			☐	☒
420	440	1x6	80			☐	☒
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
2000+		944	1 hr.

Temperature of water 72 Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

(9) LOCATION OF WELL by legal description:
County Morrow Latitude Longitude
Township 4 (N) or S Range 24 (E) or W. WM.
Section 23
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) of Tower Rd [illegible]

(10) STATIC WATER LEVEL:
54 ft. below land surface. Date 4-31-99
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:
Depth at which water was first found 485

From	To	Estimated Flow Rate	SWL
485	942	2000+	54

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
Pressure cemented			
Bottom of 16" casing at 430			
Reamed 15" To 942			
Installed 12" liner			
From 600 To 942			
with Left Hand Threaded			
Top setting shoe			

Date started 3-1-99 Completed 3-30-99

(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 water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number
Signed Date

(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 water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 759
Signed [signature] Date 3-31-99

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

app 53 14292
914397

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JAN 05 2005
WATER RESOURCES DEPT
SALEM, OREGON

2003

Oregon Water Resources Department
October 2003 through September 2004
Annual Water Use - Monthly Quantities Form

USER-ID 28031

2004

Facility→	McCabe @ Hwy 237	McCabe N/Hwy 237	Michaelson		
POD-ID→	46306	Not assigned	46307		
October - 2003	--	--	--	--	--
November - 2003	--	--	--	--	--
December - 2003	--	--	--	--	--
January - 2004	--	--	--	--	--
February - 2004	--	--	--	--	--
March - 2004	--	--	--	--	--
April - 2004	--	--	26.41	--	--
May - 2004	--	--	19.44	--	--
June - 2004	--	--	51.76	--	--
July - 2004	--	--	83.45	--	--
August - 2004	--	--	52.10	--	--
September-2004	--	--	13.33	--	--
TOTAL * **AF**	0.00	0.00	246.49	0.00	0.00

COPY

* Describe the units of measure as G (gallons), KG (thousand gallons), CF (cubic feet), MCF (million cubic feet, or AF (acre-feet)

Describe method of measuring the water used: McCrometer Flowmeter. If use is irrigation, total number of acres irrigated 672.88

I certify this information is true and accurate to the best of my knowledge.

Don McCabe — Signature
Operator — Title
Not applicable — Reporting Entity
12-26-04 — Date

Donald McCabe
Name - Please Print

Please complete and mail to : Water Resources Department; Water Use Reporting Program:
158 12th Street NE; Salem, OR 97310-0210

2005

Oregon Water Resources Department
October 2005 through September 2006
Annual Water Use - Monthly Quantities Form

USER-ID 28031

2006

Facility→	McCabe @ Hwy 237	McCabe N/Hwy 237	Michaelson		
POD-ID→	46306	Not assigned	46307		
October - 2005	--	--	--	--	--
November - 2005	--	--	--	--	--
December - 2005	--	--	--	--	--
January - 2006	--	--	--	--	--
February - 2006	--	--	--	--	--
March - 2006	--	--	--	--	--
April - 2006	--	--	7.67	--	--
May - 2006	--	--	9.30	--	--
June - 2006	--	--	27.57	--	--
July - 2006	--	--	29.29	--	--
August - 2006	--	--	42.37	--	--
September-2006	--	--	2.20	--	--
TOTAL * **AF**	0.00	0.00	118.40	0.00	0.00

COPY

* Describe the units of measure as G (gallons), KG (thousand gallons), CF (cubic feet), MCF (million cubic feet, or AF (acre-feet)

Describe method of measuring the water used: McCrometer Flowmeter. If use is irrigation, total number of acres irrigated 672.88

I certify this information is true and accurate to the best of my knowledge.

Don McCabe — Signature
Operator — Title
Not applicable — Reporting Entity
11-12-06 — Date

Donald McCabe — Name - Please Print

Please complete and mail to : Water Resources Department; Water Use Reporting Program
725 Summer Street NE; Suite, Salem OR 97301-1271 or Fax 503-986-0902

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NOV 17 2006
WATER RESOURCES DEPT
SALEM, OREGON

USER-ID 1513

1998 1999

Oregon Water Resources Department
October 1998 through September 1999
Annual Water Use - Monthly Quantities Form

WRD

Facility ☞ POD-ID ✏	Farm Well #7 37740	Farm Well #7 37740	Airport (IR) Well #1 46348	Airport (MU) Well #1 46348	Airport Well #2 46349 (IR)
October - 1998			–0–		
November - 1998			–0–		
December - 1998			–0–		
January - 1999			–0–		
February - 1999			–0–		
March - 1999			–0–		
April - 1999			–0–		
May - 1999			494,990		
June - 1999			4955,442		
July - 1999			–0–		
August - 1999			6,019,698		
September - 1999			24,311,598		
TOTAL * (G)			35,781,728		

* Describe the units of measure as G (gallons), KG (thousand gallons), MG (million gallons), CF (cubic feet), MCF (million cubic feet), or AF (acre-feet)

Describe method of measuring the water used: 46348–Flowmeter & Power Consumtion. If use is irrigation, total number acres irrigated 46348–301 Acres

I certify this information is true and accurate to the best of my knowledge.

Signature | Title: Executive | Reporting Entity: Port of Morrow | Date: 1/27/2000

Ronald V. McKinnis
Name - Please Print

Please complete and mail to: Water Resources Department; Water Use Reporting Program;
158 12th Street NE; Salem, OR 97310-0210

USER-ID 1513

1999 2000

Oregon Water Resources Department
October 1999 through September 2000
Annual Water Use - Monthly Quantities Form

WRD

Facility ☞ / POD-ID ✏	FARM Well #6 37739 1M	FARM Well #7 37740 1M	FARM Well #7 37740 IC	AIRPORT Well #1 46348 1R	AIRPORT Well #1 46348 MU
October - 1999			0 G	0 G	
November - 1999			0 G	0 G	
December - 1999			0 G	0 G	
January - 2000			0 G	0 G	
February - 2000			0 G	0 G	
March - 2000			0 G	31,797,000 G	
April - 2000			15,469000G	29,013,000 G	
May - 2000			0 G	53,220,000 G	
June - 2000			0 G	26,964,000 G	
July - 2000			0 G	70,785,000 G	
August - 2000			3,240,000 G	69,337,000 G	
September - 2000			0 G	51,584,000 G	
TOTAL *			18,709,000 G	332,700,000 G	

RECEIVED
JAN 02 2001
WATER RESOURCES DEPT.
SALEM, OREGON

* Describe the units of measure as G (gallons), KG (thousand gallons), MG (million gallons), CF (cubic feet), MCF (million cubic feet), or AF (acre-feet)

Describe method of measuring the water used: 46348- Flowmeter / 37740 - Flowmeter. If use is irrigation, total number acres irrigated 46348 - 301 Ac. / 37740 - 15 Ac.

I certify this information is true and accurate to the best of my knowledge.

Jerald Rea — Signature
Maintenance Supervisor — Title
Port of Morrow — Reporting Entity
12/28/00 — Date

Jerald Rea
Name - Please Print

Please complete and mail to: Water Resources Department; Water Use Reporting Program;
158 12th Street NE; Salem, OR 97310-0210

Form C (690—9-77)

IMPORTANT—This form is a notice to the Water Resources Director that permittee is ready to make **final proof** to the extent to which the water has actually been applied to the intended use under the terms of the permit. Permittee is cautioned that Certificate of Water Right will be issued based on the extent of the quantity and use as determined by the **final proof** inspection and survey which will be made in response to the filing of this Form C.

NOTE: In the case of an irrigation permit, this Form C should not be mailed to the Water Resources Department until all of the land described in the permit, which it is intended to irrigate under this permit at any time, has actually been irrigated.

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310. when all of the water has been applied.

Application No. .....

NOTICE OF COMPLETE APPLICATION OF WATER TO A BENEFICIAL USE

I, ..., the holder of Permit No. .....

to appropriate the public waters of the state of Oregon, completely applied the waters to a beneficial use in accordance with the terms of said permit, on the ..... day of ....., 19.....

Remarks: .....

.....

.....

IN WITNESS WHEREOF, I have hereunto set my hand this ..... day of ....., 19.....

....

(Signature of Applicant) (Address)

Form B (690—9-77) Application No. G-14397

NOTICE OF COMPLETION OF CONSTRUCTION

I, Port of Morrow, the holder of Permit No. G-13283

to appropriate the public waters of the state of Oregon, completed the construction of the works described therein on the ..... day of SEPTEMBER, 1999.

Remarks: WELL DRILLED, WELL PUMP TEST, PUMP INSTALLED, MAIN LINES INSTALLED, PIVOT IRRIGATION SYSTEMS INSTALLED & PIPELINE TO STORAGE TANK & INDUSTRIAL DEVELOPMENT INSTALLED

If the works have less capacity than described in the permit, or you have definitely abandoned part of the proposed development, you should so state in order that our records may not be unnecessarily encumbered.

IN WITNESS WHEREOF, I have hereunto set my hand this ..... day of SEPTEMBER, 1999

[signature] Clerk #202 P.O. Box 200, Boardman, OR 97818

(Signature of Applicant) (Address)

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when construction work is completed.

RECEIVED
SEP 30 1999
WATER RESOURCES DEPT.
SALEM, OREGON

Form A (690—9-77) Application No. .....

NOTICE OF BEGINNING OF CONSTRUCTION

I, ..., the holder of Permit No. .....

to appropriate the public waters of the state of Oregon, began the actual construction of the works described therein on the ..... day of ....., 19.....

Remarks: .....

The appropriator must state the manner of beginning of construction, the amount of work completed and the type of equipment acquired for the water system up to the date of this statement, and any additional information which shows a substantial beginning of construction as authorized by your permit.

IN WITNESS WHEREOF, I have hereunto set my hand this ..... day of ....., 19.....

....

(Signature of Applicant) (Address)

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when construction work is begun.

SP*35567-690

Form C (690—9-77)

IMPORTANT—This form is a notice to the Water Resources Director that permittee is ready to make **final proof** to the extent to which the water has actually been applied to the intended use under the terms of the permit. Permittee is cautioned that Certificate of Water Right will be issued based on the extent of the quantity and use as determined by the **final proof** inspection and survey which will be made in response to the filing of this Form C.

NOTE: In the case of an irrigation permit, this Form C should not be mailed to the Water Resources Department until all of the land described in the permit, which it is intended to irrigate under this permit at any time, has actually been irrigated.

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310. when all of the water has been applied.

Application No. .....

NOTICE OF COMPLETE APPLICATION OF WATER TO A BENEFICIAL USE

I, ..., the holder of Permit No. .....

to appropriate the public waters of the state of Oregon, completely applied the waters to a beneficial use in accordance with the terms of said permit, on the ..... day of ....., 19.....

Remarks: .....

.....

.....

IN WITNESS WHEREOF, I have hereunto set my hand this ..... day of ....., 19.....

....

(Signature of Applicant) (Address)

Form B (690—9-77) Application No. .....

NOTICE OF COMPLETION OF CONSTRUCTION

I, ..., the holder of Permit No. .....

to appropriate the public waters of the state of Oregon, completed the construction of the works described therein on the ..... day of ....., 19.....

Remarks: .....

If the works have less capacity than described in the permit, or you have definitely abandoned part of the proposed develop-

.....

ment, you should so state in order that our records may not be unnecessarily encumbered.

.....

IN WITNESS WHEREOF, I have hereunto set my hand this ..... day of ....., 19.....

....

(Signature of Applicant) (Address)

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when construction work is completed.

Form A (690—9-77) Application No. G-14397

NOTICE OF BEGINNING OF CONSTRUCTION

I, Port of Morrow, the holder of Permit No. G-13283

to appropriate the public waters of the state of Oregon, began the actual construction of the works described therein on the 1st day of May, 1998.

Remarks: Cleared Ground, Leveled Circle Sites, Erected Pivot Irrigation

The appropriator must state the manner of beginning of construction, the amount of work completed and the type of equipment

Systems, Eccavated for Water Lines, Drilled Well, Began Installation

acquired for the water system up to the date of this statement, and any additional information which shows a substantial beginning of construction as

of Main Lines, Extended Power to Well Site & Relocated Access Roadway.

authorized by your permit.

IN WITNESS WHEREOF, I have hereunto set my hand this 23rd day of November, 1998.

[signature] CWRE #202 P.O. Box 200, Boardman, OR 97818

(Signature of Applicant) (Address)

Fill out, detach and mail to the Water Resources Department, Salem, OR 97310, when construction work is begun.

SP*35567-690

OK DSM

WALLACE DRILLING

1707 S.W. 18th • PENDLETON, OR 97801

PHONE (503) 276-8663

Ruff draft.

OCT 27 1998

16" hole for
Port of Morrow @
Circle C Farms.

Water temp 70° F

Static Level 58'
From ground Level as
937

Well Log

0 - 3	-	SAND
3 - 20	-	Brown Rc.
20 - 45	-	Br. then BLK Basalt.
45 - 60	-	BLK + Grey basalt.
60 - 75	-	very hard Basalt, BLK
75 - 85	-	SOFT CLAY LAYER / not W/B,
85 - 100	-	" " 92' W/B
100 - 155	-	SOFT Clay stone W/B
155 - 170	-	Gray Basalt
170 - 183	-	Gray Black Basalt.
183 - 200	-	Gray Basalt Red clay W/B
200 - 240	-	" "
240 - 285	-	" "
285 - 355	-	Green Brown Claystone
355 - 400	-	Clay (God I hate Clay!)
400 - 440	-	very hard Basalt.
440 - 600	-	SOFT LAYER BLK. Basalt
600 - 715	-	Blok. Basalt.
715 - 890		Very hard Basalt.
890 - 905		Started Breaking threw
905 - ~~925~~ 935'		Was Breakthrow point.
925 - 948'		Semi hard W/B alot Rofly 3000 Gpm.

Thank the Lord.

Casing in hole

40'
40'
40'
21'
21'
21'
21'
21'
21'
21'
21'
21'
21'
22' 2" At that point 332'2"
- Cleaned out
15'
16' 2"
24' 4"
10' 4"
Cleand out For Final Drive
21'
21'

Total amount of pipe in ground.
435'

Hole TDed. At

Ft. In.

File G-14397

Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department
Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

May 4, 1998

Mr. Gary Neal, General Manager
Port of Morrow
P.O. Box 200
Boardman, OR 97818

Dear Mr. Neal:

Thank you for taking the time to meet with me on April 23, 1998 to discuss the Port's Water Management and Conservation Plan (Plan). As we discussed, it has been five years since the Port submitted a plan. In addition, new water right permits have been obtained by the Port in the last five years. The new permits also have the condition that a water management and conservation plan shall be submitted to the Department. Based on the new permit conditions and the five year period of time that has passed since the Port submitted the original plan, the Department requests that the Port submit an updated plan that addresses current water usage throughout the Port.

As we agreed on April 23rd, the Port has one year from that date to complete an updated plan. It would be helpful if a draft plan was submitted for informal review several months prior to the due date. This will allow the Department and the Port to address issues which may not be consistent with the Department's Division 86 Rules prior to the plan becoming due. If you have any questions or need guidance in preparing the plan please call me at (800) 624-3199, ext. 236.

Sincerely,

Michael L. McCord
Resource Management Division

c: Dick Bailey, Water Rights and Adjudications
Mike Ladd, North Central Region

G-14397

RECEIVED
SEP 17 1996
WATER RESOURCES DEPT.
SALEM, OREGON

Oregon Water Resources Department

Form M

RECEIVED
SEP 17 1996
WATER
SALEM, OREGON

This form is to be used in conjunction with applications for permits to use water for municipal purposes.

RECEIVED
OCT 23 1996
WATER RESOURCES DEPT.
SALEM, OREGON

Read instructions carefully. Answer all questions.
Type or print clearly in dark ink.

1. **POPULATION:** PORT OF MORROW / MUNICIPAL CORPORATION – FILED UNDER SPECIAL DISTRICT – ORS 777

   a. What is the present population to be served? PORT INDUSTRIAL LANDS - 1000± EMPLOYEES, 4+ INDUSTRIAL PLANTS, POWER PLANT & MISC. USERS

   b. Do you serve population beyond your city limits? YES – PORT DISTRICT = MORROW COUNTY

   c. According to your estimates, what will the population be 25 years from now? (Please citesource) PORT INDUSTRIAL LANDS - 3000± EMPLOYEES, 15± INDUSTRIAL PLANTS, 3± POWER PLANTS & MISC. USERS → REF. C.E.S. / P.O.M. 1993 WATER MAN. PLAN COPY FILED IN G-10975 & G-13408

2. **WATER NEEDS:**

   a. What are your current water needs? 5760 gpm INDUSTRIAL / 10,000 gpm IRRIGATION

   b. What will your water needs be 25 years from now? 17,300 gpm IND. / 40,000 gpm IRR.

   c. List your current source(s) of water by water body, amount of use and water right permit (e.g., Crystal Creek, .01 cfs, Permit S-12345). _____

   REF. C.E.S. / P.O.M. 1993 WATER MANAGEMENT PLAN
   COPY FILED IN G-10975 & G-13408

   d. Explain how your existing water use permits and water rights will assist in meeting your water use needs (i.e., Have you identified any of your water use permits or water rights that cannot or will not be used to meet future needs?). Please explain.

   REF. C.E.S. / P.O.M. 1993 WATER MANAGEMENT PLAN
   COPY FILED IN G-10975 & G-13408

3. **CONSERVATION MEASURES:** Please describe what you propose to do to prevent waste of water (e.g., metering, weekly measurements, etc.).

   REF. C.E.S. / P.O.M. 1993 WATER MANAGEMENT PLAN
   COPY FILED IN G-10975 & G-13408

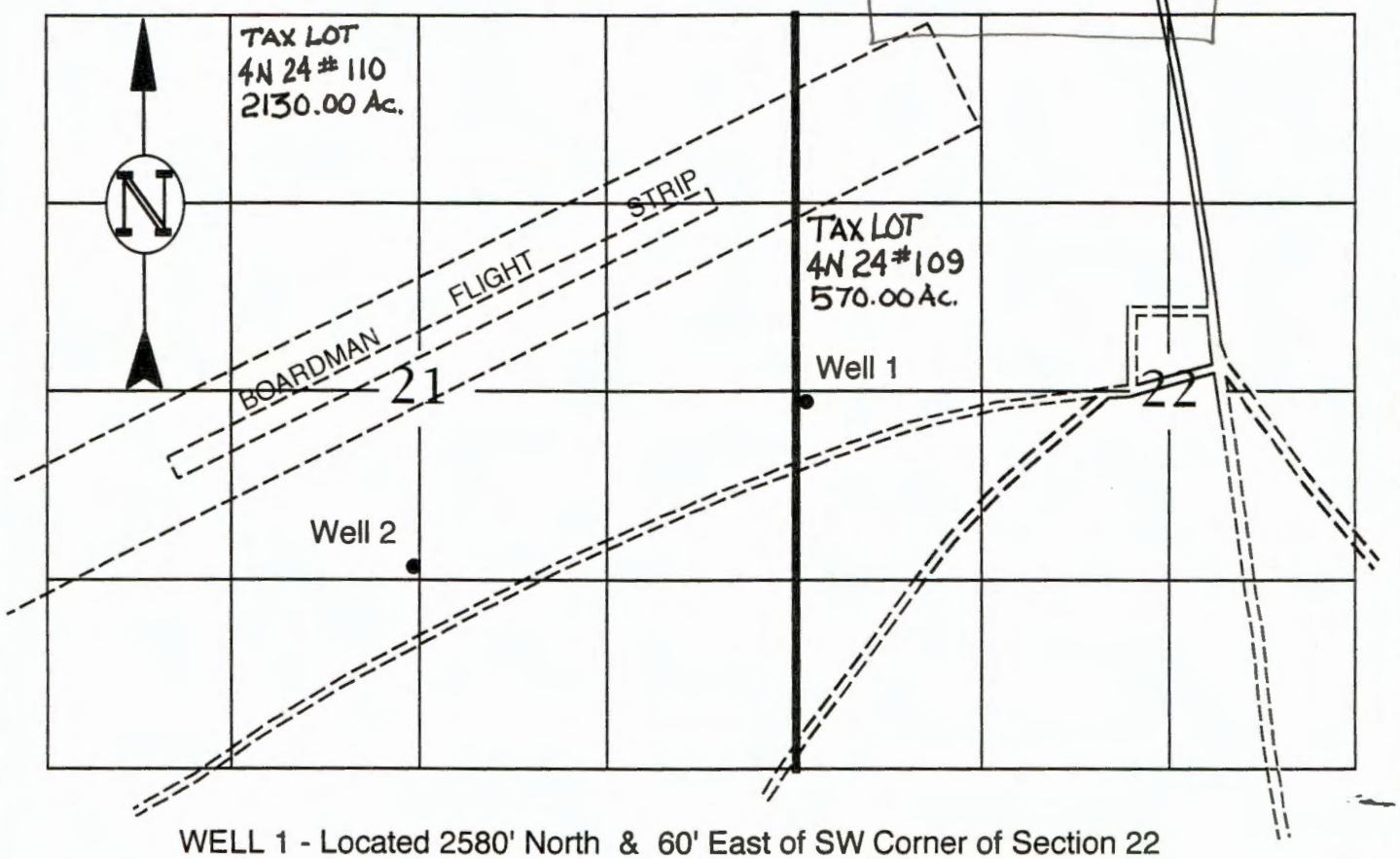
Please include a copy of your water facilities plan with your application.
COPY FILED IN G-10975 & 13408

NOTE: AIRPORT FACILITY WAS INCLUDED AS PART OF THE PORT OF MORROW'S PORT INDUSTRIAL PROPERTY FOR FUTURE DEVELOPMENT UNDER THE 1993 WATER MANAGEMENT PLAN.


COLUMBIA
WASHINGTON
OREGON
RIVER
REFUGE
Mile 270
BOUNDARY
G-14397
Port of Morrow
Messner
Lights
MARINE
Filtration Plant
DRIVE
Campground
Boat Ramp
Park
COLUMBIA
AVENUE
Riverview Cem
Substa
Riverside H Sch
BM 301
FRONT
STREET
BM X306
BM X334
BM X 272
Boardman
Mobile Home Park
MAIN
ROAD
SMITH
PAUL
STREET
OLSON
KUNZE
ROAD
WEST
CANAL
IRRIGATION
#1
#2
Superceded
Wrong Location
of Proposed wells

T. 4N., R. 24E., W.M.

MORROW COUNTY
SCALE 1" = 1320'



WELL 1 - Located 2580' North & 60' East of SW Corner of Section 22
WELL 2 - Located 1425' North & 2650' West of SE Corner of Section 21

WATER RIGHTS APPLICATION MAP

▨ Water Rights Applied for at This Location

IN NAME OF

PORT OF MORROW

THIS MAP IS FOR THE PURPOSE OF IDENTIFYING THE LOCATION OF WATER RIGHTS ONLY AND IS NOT INTENDED TO PROVIDE THE LEGAL DIMENSIONS OR LOCATIONS OF PROPERTY OWNERSHIP LINES.

Application No. G-14397
Permit No.
SUPERSEDED

Certified Water Right Examiner
#402 EXPIRES
RONALD V. McKINNIS
NOV. 29, 1988
STATE OF OREGON
EXP. 12-31-96

Engineering - Surveying - Water Rights

PORT OF MORROW TECHNICAL DIVISION
P. O. Box 200 - One Marine Drive
Boardman, Oregon 97818

June 14, 1996

Gary Neal, General Manager
Port of Morrow
P.O. Box 200
Boardman, OR 97818

RE: Port Area Groundwater Information

Dear Gary:

Enclosed is some information which I offered to provide you at our meeting on June 6, 1996. At that meeting, we talked about the Port's pending ground water use applications, the Department's concerns about deep basalt ground water availability in the area, and potential additional water supplies for the Port. In addition to us, the meeting was attended by Ron McKinnis for the Port and Fred Lissner, Mike Zwart, and Dwight French of the Department.

I hope that this information gives you a taste of the widespread declines in the deep basalt ground water source in your area as we perceive them. Our assessment work is on-going in the greater Ordnance Basalt Critical Ground Water Area.

Please contact me if you have questions.

Sincerely,

Donn Miller
Hydrogeologist

enclosures

cc: Tony Justus, Watermaster Dist. 5

Land Use Information Form: Permits, Hydroelectric Licenses, Water Uses in Addition to Classified Uses

This information is needed to determine compatibility with local comprehensive plans as required by ORS 197.180. The Water Resources Department will use this and other information to evaluate the water use application. DO NOT FILL OUT THIS FORM IF water is to be diverted, conveyed, and/or used only on federal lands.

Applicant's Name: Port of Morrow
Address: P.O. Box 200 One Marine Drive
City: Hermiston *State:* OR *Zip:* 97838 *Day Phone:* 541-481-7678

Please provide information as requested below for all tax lots on or through which water will be diverted or used. (Attach extra sheets as necessary.) 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.

Tax Lot or Local I.D.#	Plan Designation/Zoning (e.g. Rural Residential/RR-5)	Check All That Apply		
		Water Diverted	Water Conveyed	Water Use
4N 24E # 109	Air / Industrial	✓	✓	✓
4N 24E # 110	Air / Industrial	✓	✓	✓

Please list all counties and cities within which water is proposed to be diverted, conveyed, and/or used. Morrow

*The following section must be completed by a planning official from **each** county and city listed **unless** your project will be located **entirely within city limits.** In this case, only the city planning agency must complete this form. Please request extra forms as needed.*

For Local Government Use Only

Application No. G-14397
Permit No.

Local government planning officials are to complete the remainder of this form. If this form can not be completed while the applicant waits, please sign and detach the receipt as instructed below. **Please mail the completed form directly to the Water Resources Department (3850 Portland Rd. NE, Salem, OR, 97310) within 60 days of the date of receipt as shown below.** If the form is not completed within 60 days, the Department may take action to approve the water use.

a) Check the appropriate box below and provide requested information.

☒ *Land uses to be served by proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s):* 3.071 *. Go to section b) on reverse side.*

☐ *Land uses to be served by proposed water uses (including proposed construction) involve discretionary land use approvals as listed in the table below.* ***Note:** Please attach documentation of applicable local land use approvals which have already been obtained. (Record of Action plus any accompanying findings is sufficient.)*

Type of Land Use Approvals Needed (e.g.: plan amendments, rezones, conditional use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Please check the box that applies:		
		Already Obtained	Already Denied	Being Pursued Satisfactorily

(For Local Use Continued)

b) Please provide printed name and written signature.

Name: Tamra J. Mabbott *Date:* 8-02-96

Title: Planning Director *Phone:* 922-4624

Signature: Tamra J. Mabbott

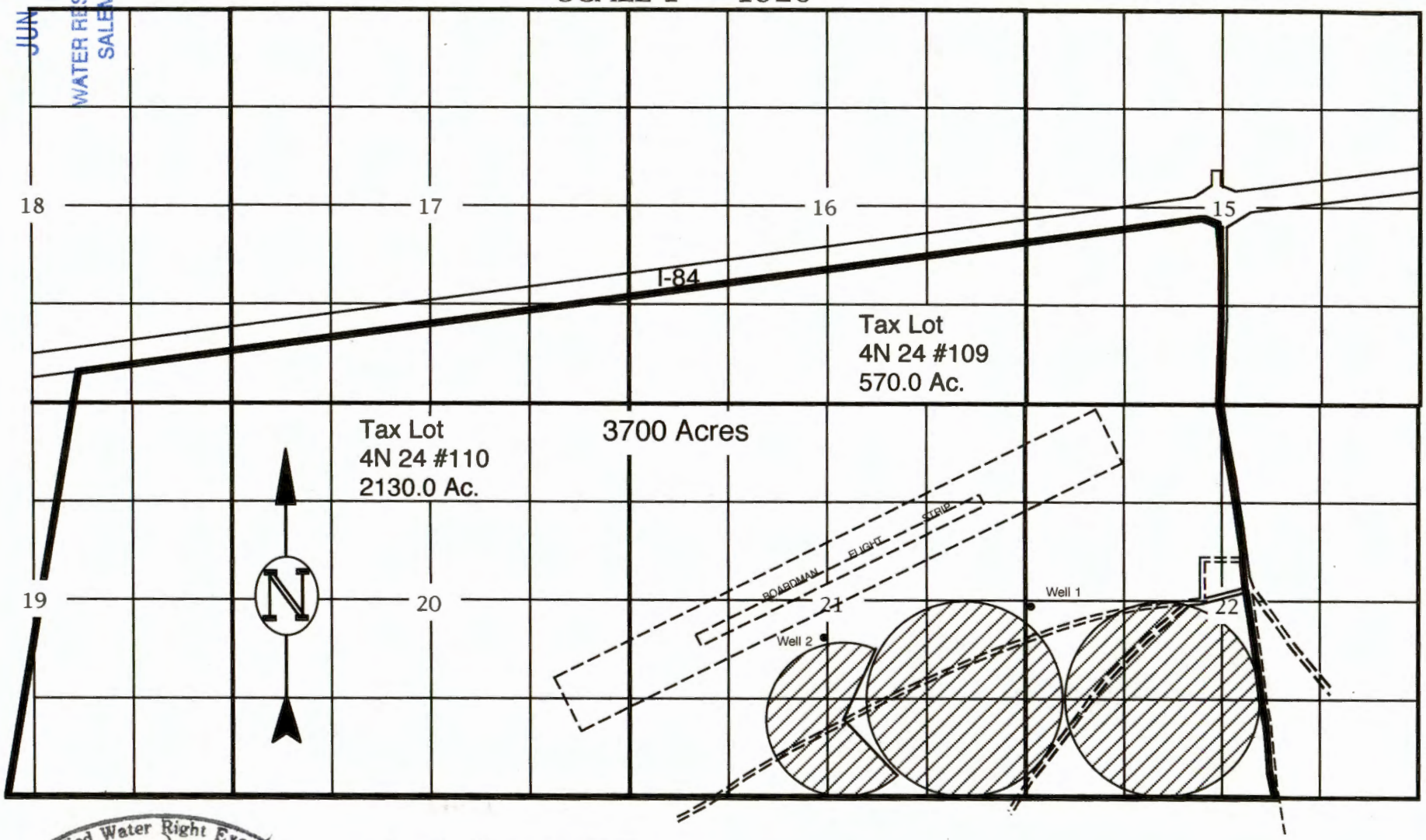
Local governments are invited to express special land use concerns or make recommendations to the Department regarding this proposed use of water below, or on a separate sheet. For additional information call Roberta Jortner or Rick Bastasch at 378-3671.

Additional Comments:

T. 4N., R. 24E., W.M.

MORROW COUNTY

SCALE 1" = 1320'



Certified Water Right Examiner
#202 WRE
RONALD V. McKINNIS
NOV. 29, 1988
STATE OF OREGON
Exp. 12-31-98

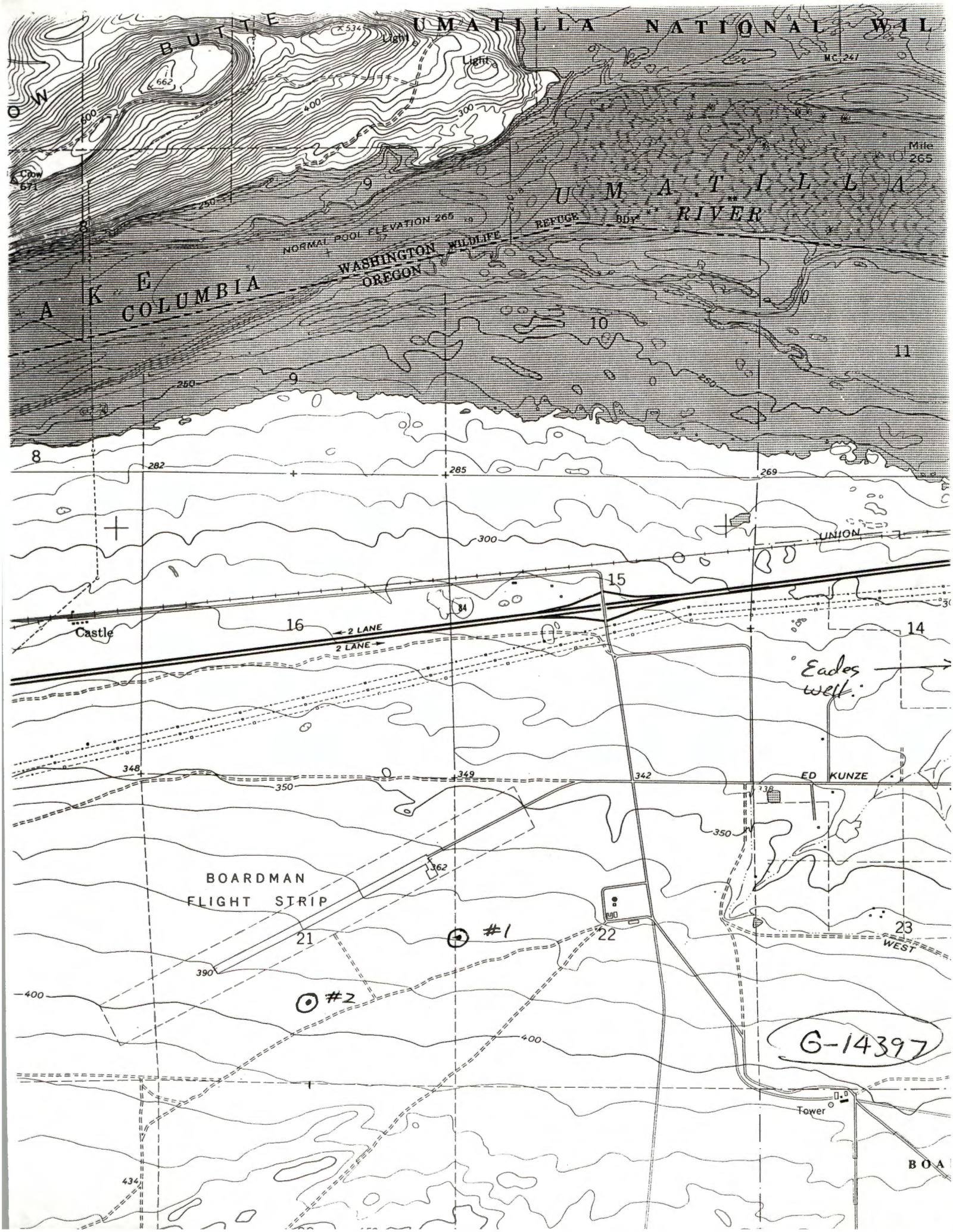
Application #G-14397

Permit G13283

PORT OF MORROW G-13765

AIRPORT MUNICIPAL SERVICE AREA BOUNDARY

Engineering - Surveying - Water Rights
PORT OF MORROW TECHNICAL DIVISION
P. O. Box 200 - One Marine Drive
Boardman, Oregon 97818

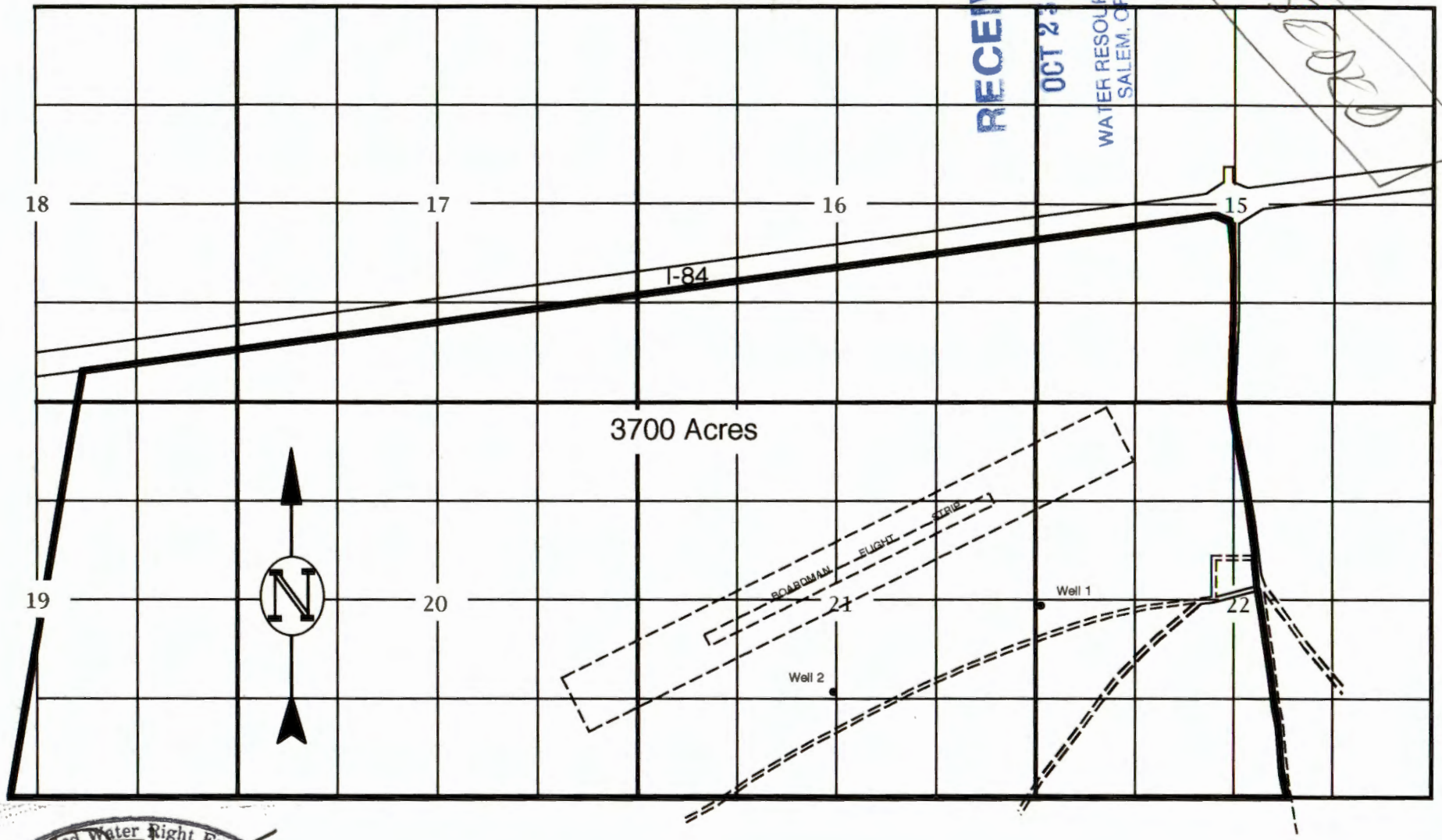

UMATILLA NATIONAL WIL
BUTTE
Light
Light
MC 241
Mile 265
Cow 671
UMATILLA RIVER
NORMAL POOL ELEVATION 266
REFUGE BDY
WASHINGTON
OREGON
WILDLIFE
COLUMBIA
UNION
Castle
2 LANE
2 LANE
Eades well
ED KUNZE
BOARDMAN
FLIGHT STRIP
#1
#2
WEST
Tower
G-14397

T. 4N., R. 24E., W.M.

MORROW COUNTY

SCALE 1" = 1320'

SUPERSEDED



Certified Water Right Examiner
#[illegible]WRE
RONALD V. McKINNIS
NOV. 29/1988
STATE OF OREGON

PORT OF MORROW

AIRPORT MUNICIPAL SERVICE AREA BOUNDARY

Engineering - Surveying - Water Rights
PORT OF MORROW TECHNICAL DIVISION
P. O. Box 200 - One Marine Drive
Boardman, Oregon 97818

Application No. G-4347
Permit No. SUPERSEDED

No ~~records~~ records found for Sections 15-16 & 18-22

OREGON WATER RESOURCES PLAT CARD: Township 4.00 N Range 24.00 E SECTION 17 2/ 5/1997

APP. NO. / PERMIT NO.	CERT NO.		GOV'T LOT DLC	NE				NW				SW				SE			
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
NCR G 3015	46719	V															(FP)		
G 2806																	fire protection		

No application records found for other sections

OREGON WATER RESOURCES PLAT CARD: Township 4.00 N Range 24.00 E SECTION 21 2/ 5/1997

APP. NO. / PERMIT NO.	CERT NO.		GOV'T LOT DLC	NE				NW				SW				SE			
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
G 14397	0	V										(MU)							
0	Subject file																		

OREGON WATER RESOURCES PLAT CARD: Township 4.00 N Range 24.00 E SECTION 22 2/ 5/1997

APP. NO. / PERMIT NO.	CERT NO.		GOV'T LOT DLC	NE				NW				SW				SE			
				NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
G 14397	Subject file	D	V										(MU)						
0																			