

Application for a Permit to Use Ground Water



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

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant Information

NAME RANDY AND LINDA JOSEPH		PHONE (HM)	
PHONE (WK) 541-894-2347	CELL 541-429-3284	FAX	
ADDRESS 37123 HANSEN LANE			
CITY BAKER CITY	STATE OR	ZIP 97814	E-MAIL* RANDY@JOSEPHMILLWORKS.COM

Organization Information

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

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

AGENT / BUSINESS NAME NANCY RORICK, RG, CWRE, NANCY RORICK CONSULTING		PHONE 541-519-3644	FAX
ADDRESS 645 L LOOP			CELL
CITY BAKER CITY	STATE OR	ZIP 97814	E-MAIL* NRORICK@YAHOO.COM

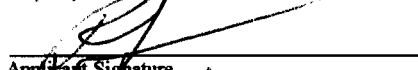

Note: Attach multiple copies as needed

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

By my signature below I confirm that I understand:

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

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


Applicant Signature

Applicant Signature

RANDY JOSEPH
Print Name and title if applicable
LINDA JOSEPH
Print Name and title if applicable

11-27-12
Date
11-27-12
Date

For Department Use		
App. No. <u>G-1769</u>	Permit No. _____	Date _____

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SECTION 2: PROPERTY OWNERSHIP

Please indicate if you own all the lands associated with the project from which the water is to be diverted, conveyed, and used.

- Yes
 - There are no encumbrances.
 - This land is encumbered by easements, rights of way, roads or other encumbrances.
- No
 - I have a recorded easement or written authorization permitting access.
 - I do not currently have written authorization or easement permitting access.
 - Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).
 - Water is to be diverted, conveyed, and/or used only on federal lands.

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

n/a

SECTION 3: WELL DEVELOPMENT

WELL NO.	NAME OF NEAREST SURFACE WATER	IF LESS THAN 1 MILE:	
		DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
1	Sutton Creek	0.30 miles	42 feet

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

The proposed well is located within one mile of Sutton creek. Therefore, the well is subject to Division 9 rules on groundwater interference. The well will be continuously cased and continuously sealed to a depth of 100 hundred feet to avoid groundwater interference. If a significant clay layer is encountered at a shallower depth and if this clay layer is underlain by a water bearing unit; the permit holder or his representative will contact the Oregon Water Resources Department and request permission to screen the well in the water bearing unit. See section 10 for a discussion of geology.

SECTION 3: WELL DEVELOPMENT, CONTINUED

Source (aquifer), if known: Interbedded sand and gravel units in Miocene age fluvial and lake sediments

Total maximum rate requested: 0.41 CFS (184 gpm) (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

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

6-1762

OWNER'S WELL NAME OR NO	PROPOSED	EXISTING	WELL ID (WELL TAG) NO * OR WELL LOG ID**	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN FEET)	PERFORATED OR SCREENED INTERVALS (IN FEET)	SEAL INTERVALS (IN FEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	PROPOSED USE			
										SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL-SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE-FEET)
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	8-10 inches					Interbedded sand and gravel unit	100 feet+	184	73.5
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									

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

SECTION 4: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Irrigation	May 1 through September 30	3 acre feet per acre or a total of 73.5 acre feet

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

For irrigation use only:

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

Primary: 24.5 Acres Supplemental: 0 Acres

List the Permit or Certificate number of the underlying primary water right(s): n/a

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: 3 acre feet per acre or a total of 73.5 acre feet

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

SECTION 5: WATER MANAGEMENT

A. Diversion and Conveyance

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

Pump (give horsepower and type): 10 HP submersible

Other means (describe): _____

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water. Water will be piped from the well to the field via a 6-inch diameter, 1500-foot long pipeline.

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B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler) Water will be applied to the field using a 1,400-foot long wheel line. The permit applicant is applying for a rate of 1/60th of one cfs per acre (0.41 cfs or 184 gpm). There will be 35 sprinklers on the wheel line spaced forty feet apart. The requested rate would allow 5.26 gpm per sprinkler.

C. Conservation

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent damage to aquatic life and riparian habitat; prevent the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters.

Water will be applied to the crops when needed, and will be based on soil moisture testing. The most water efficient method of irrigation will be used to for the crop being irrigated.

SECTION 6: STORAGE OF GROUND WATER IN A RESERVOIR

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

Reservoir name: n/a Acreage inundated by reservoir: n/a

Use(s): n/a

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

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

SECTION 7: USE OF STORED GROUND WATER FROM THE RESERVOIR

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

Annual volume (acre-feet): n/a

USE OF STORED GROUND WATER	PERIOD OF USE
n/a	

SECTION 8: PROJECT SCHEDULE

Date construction will begin: March 1, 2013

Date construction will be completed: May 1, 2013

Date beneficial water use will begin: May 1, 2013

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SECTION 9: WITHIN A DISTRICT

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

Irrigation District Name <u>n/a</u>	Address	
City	State	Zip

SECTION 10: REMARKS

Remarks are attached.

Land Use Information Form



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

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NOTE TO APPLICANTS

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

This form is NOT required if:

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

NOTE TO LOCAL GOVERNMENTS

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

Land Use

Information Form



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

Applicant: Randy and Linda
 First

Joseph
 Last

Mailing Address: 37123 Hansen Lane

Baker City City OR State 97814 Zip Daytime Phone: 541-429-3284

A. Land and Location

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

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:			Proposed Land Use:
10S	40E	11	NE NE	2200	EFU	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	Farm
10S	40E	11	SE NE	2200	EFU	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	Farm
10S	40E	12	NW NW	2200	EFU	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	Farm
10S	40E	12	SW NW	2200	EFU	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	Farm

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

Baker County

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B. Description of Proposed Use

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

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

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

Estimated quantity of water needed: 0.41 cubic feet per second gallons per minute acre-feet

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

Briefly describe:

Requesting a groundwater permit to irrigate 24.5 acres.

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

See bottom of Page 3. →

For Local Government Use Only

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

Please check the appropriate box below and provide the requested information

- Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): 301.01
- Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

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

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

The irrigation well is a permitted farm use under BCZSO Section 201.01(A).

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Tara Andrews,
Name: _____ Title: Planner

NOV 30 2012

Signature: Tara Andrews Phone: _____ Date: 11/27/12

Government Entity: Baker County 541-523-8219

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

Receipt for Request for Land Use Information

Applicant name: _____

City or County: _____ Staff contact: _____

Signature: _____ Phone: _____ Date: _____

Date _____

(For staff use only)



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

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

- SECTION 1: _____
- SECTION 2: _____
- SECTION 3: _____
- SECTION 4: _____
- SECTION 5: _____
- SECTION 6: _____
- SECTION 7: _____
- SECTION 8: _____
- SECTION 9: _____
- Land Use Information Form _____
- Provide the legal description of: (1) the property from which the water is to be diverted, (2) any property crossed by the proposed ditch, canal or other work, and (3) any property on which the water is to be used as depicted on the map.
- Fees _____

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MAP

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

DL 95 16 131

Grantors: MELVIN L. COLLIS and SHIRLEY M. COLLIS
HCR 87 Box 774
Baker City, OR 97814

Grantees: RANDY JOSEPH and LINDA JOSEPH
HCR 87 Box 800
Baker City, OR 97814

Tax Statements to: RANDY JOSEPH and LINDA JOSEPH

Person authorized to receive this instrument after recording: RANDY JOSEPH and LINDA JOSEPH.

WARRANTY DEED

MELVIN L. COLLIS and SHIRLEY M. COLLIS, husband and wife, grantors, convey and warrant to RANDY JOSEPH and LINDA JOSEPH, husband and wife, grantees, the following described real property free of encumbrances except as specifically set forth herein:

SEE EXHIBIT "A"

TOGETHER WITH the tenements, hereditaments and appurtenances thereunto belonging or appertaining.

SUBJECT TO easements, rights-of-way of record or as the same are located thereon and reservation of minerals unto the State of Oregon, as reserved in an instrument recorded December 3, 1987, in Deed 87 49 005.

The true consideration for this conveyance is \$162,000.00

DATED: April _____, 1995

Melvin L. Collis

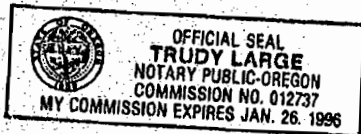
SHIRLEY M. COLLIS

BY Shirley M. Collis
~~ATTORNEY-IN-FACT~~ *me*

THIS INSTRUMENT WILL NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES.

STATE OF OREGON, County of Baker) ss April 19, 1995

The foregoing instrument was acknowledged before me by Melvin L. Collis and Shirley L. Collis by ~~Melvin L. Collis as Attorney-in-Fact.~~ *TL*



Trudy Large
Notary Public for Oregon
My commission expires: 1-26-96

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G-17601

SUTTON CREEK

CORRECT

EXHIBIT "A"
Page 1 of 2

Land in Baker County, Oregon, as follows:

In Twp. 10 S., R. 40 E., W.M.:

Sec. 1: All that portion of the SW $\frac{1}{4}$ SW $\frac{1}{4}$ lying South of the Oregon Railway & Navigation Company right of way and East of the following described line:

Beginning at a point S. 59°45'35" E., 1675.6 feet from the intersection of the East right of way line of the County Road with the South right of way line of the Oregon Railway & Navigation Company, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Sec. 2, said twp. and rge.;

thence S. 36°14'50" W., 1540.40 feet to a point; thence N. 52°05'45" W., 151.23 feet to a point on the East right of way line of said County Road.

Sec. 11: All that portion of the S $\frac{1}{4}$ NE $\frac{1}{4}$ and the S $\frac{1}{4}$ SE $\frac{1}{4}$ lying East of the Easterly right of way line of the County Road.

All that portion of the NE $\frac{1}{4}$ NE $\frac{1}{4}$ lying Easterly of the Easterly right of way line of the County Road and Southeasterly of the following described line:

Beginning at a point S. 59°45'35" E., 1675.6 feet from the intersection of the East right of way line of the County Road with the South right of way line of the Oregon Railway & Navigation Company, in SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Sec. 2, said twp. and rge.;

thence S. 36°14'50" W., 1540.40 feet to a point; thence N. 52°05'45" W., 151.23 feet to a point on the East right of way line of said County Road.

All that portion of the N $\frac{1}{4}$ SE $\frac{1}{4}$ lying Easterly of the Easterly right of way line of the County Road,

EXCEPTING THEREFROM the following:

Commencing at a point N. 84°33'30" W., 1550.50 feet from the Northeast corner of the SE $\frac{1}{4}$ SE $\frac{1}{4}$, said point being on the East right of way line of the County Road;

thence S. 89°51' E., 582.33 feet;

thence N. 10°57' E., 693.65 feet;

thence N. 74°23' W., 609.72 feet, more or less, to intersect the East right of way line of the County Road;

thence Southerly along said East right of way line to the point of beginning.

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SALEM, OREGON

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EXHIBIT "A"
Page 2 of 2

Sec. 12: S $\frac{1}{2}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$.

All that portion of the NE $\frac{1}{4}$ NW $\frac{1}{4}$ lying South of the Oregon Railway & Navigation Company right of way.

All that portion of the NW $\frac{1}{4}$ NW $\frac{1}{4}$ lying South of the Oregon Railway & Navigation Company right of way and Southeasterly of the following described line:

Beginning at a point S. 59°45'35" E., 1675.6 feet from the intersection of the East right of way line of the County Road with the South right of way line of the Oregon Railway & Navigation Company, in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Sec. 2, said twp. and rge.;

thence S. 36°14'50" W., 1540.40 feet to a point;
thence N. 52°05'45" W., 151.23 feet to a point on the East right of way line of the County Road.

Section 10 Remarks

Section 10 Remarks

Rate Request

The requested rate is 1/60th CFS per acre (0.41 cfs or 184 gpm). This rate is needed in order to operate the 1,400 foot long wheel line that will be used to irrigate the field. The wheel line has 35 sprinklers. The requested rate would provide 5.26 gpm per sprinkler.

Geology

The proposed well is located 0.3 miles south of Sutton Creek and is subject to the Division Nine rules on groundwater interference. The proposed well will be in compliance with Division 9 rules if it produces water from an aquifer that is not hydraulically connected to Sutton Creek. This section provides information on local geology and stratigraphy (as obtained from well logs) that can be used to determine hydraulic connectivity.

Local well logs were obtained from the OWRD online well log query. The locations of these wells were first mapped with GIS, based on the location described on the wells' logs. The locations of these wells were then compared to aerial photographs using GIS. Those wells determined to have incorrect locations based on the aerial photographs were discarded. The consultant then visited the area to verify the location of those wells visible from the road. The well elevations were determined with GIS using USGS Digital Elevations Models (DEMs).

Map 1 shows the locations of the nearby wells and local geology¹. Sutton Creek valley is filled with Quaternary Alluvium (Qal). The surrounding hills are mapped as Miocene aged, unconsolidated lacustrine and fluvial deposits (Tst). The particle size of these sediments ranges from clay to gravel. This unit is laterally extensive and quite thick. A well (Baker County 51846) 1.3 miles south of the proposed well was drilled to a depth of 882 feet without encountering the base of the formation. The well logs show that the Miocene sediments consist of interbedded layers of clay, sand, and sand and gravel. Photo 1 was taken at a quarry upslope of the proposed well location. It shows the contact between a clay bed and a sand and gravel bed.

Table 1 is a summary of the local well logs; figure 1 is a cross section drawn from three of the well logs. The cross section and well logs show clay layers within the same elevation range as the proposed well. This suggests that if the well is drilled to a depth of 100 feet it would penetrate one of these clay layers which would serve to isolate the well from the stream.

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¹ Ma, et al., 2009, Oregon Geologic Data Compilation Release 5 (Statewide), Oregon Department of Geology and Mineral Industries, on CD.

Section 10 Remarks

Table 1 List of nearby wells. Well locations are shown on Map 1.

Well Log Number	Elevation at land surface	Distance and direction from proposed well	Depth water found	Description of stratigraphy
Baker County 1352	3,651 feet	2,230 feet to the northeast	20 feet	Clay from 0 to 20 feet; sand and gravel, and sand from 20 to 37 feet; sandy clay and clay from 37 to 90 feet; and gravel from 90 to 105 feet.
Baker County 1353	3,686 feet	2,730 feet to the northeast	45 feet	Soil from 0 to 30 feet; hard clay from 30 to 41 feet; gravel, fine sand, and sand and gravel from 41 to 80 feet.
Baker County 1367	3,655 feet	2,400 feet to the northeast	20 feet	Soil from 0 to 8 feet; clay from 8 to 20 feet; sand and gravel, and sand and clay from 20 to 70 feet; clay from 70 to 131 feet; and gravel from 131 to 140 feet
Baker County 2017	3,718 feet	1,780 feet to the southwest	68 feet	Soil from 0 to 20 feet; sand, gravel and clay from 20 to 68 feet; water bearing sand and gravel from 68 to 72 feet; and clay from 72 to 75 feet
Baker County 52238	3,626 feet	2,951 feet to the northwest	20 feet	Soil from 0 to 2 feet; clay from 2 to 20 feet; sand and gravel, and gravel and clay from 20 to 92 feet; clay from 92 to 115 feet; and alternating layers of sand, sand and gravels and clay stone to 400 feet.

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Section 10 Remarks

Photo 1 Taken at a quarry upslope of the proposed well (location on Map 10). The photograph shows the contact between the clay and sand / gravel beds in the Miocene sediments.



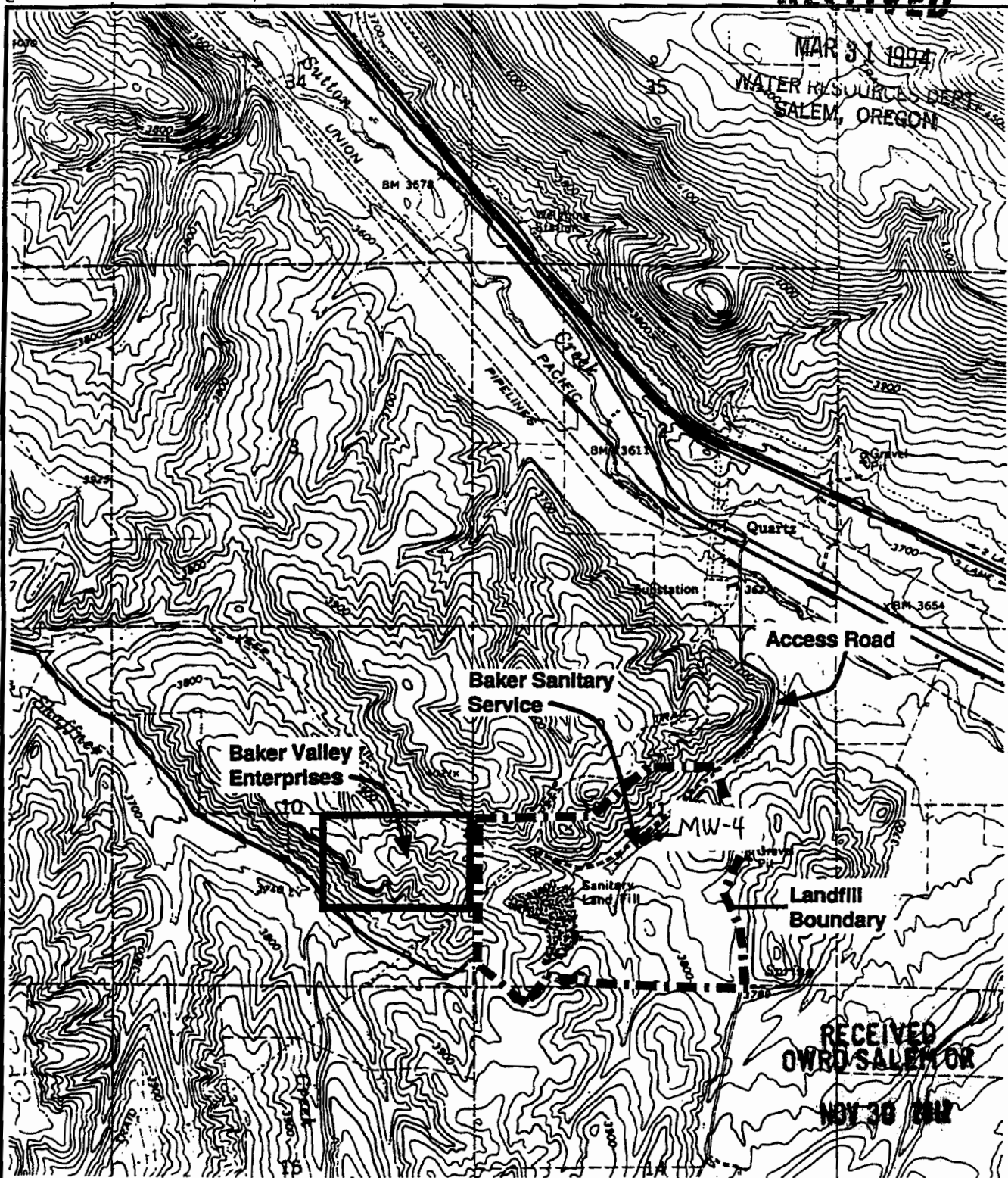
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WATER RESOURCES DEPT
SALEM, OREGON



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Scale: 1:2400
 Mapping: USGS - 1984
 Bowen Valley Quadrangle
 7.5 Minute Series

FIGURE 1
 Location Map
 Water Quality Monitoring Plan
 BAKER SANITARY LANDFILL

CENHILL

G-17601

**STATE OF OREGON
GEOTECHNICAL HOLE REPORT
(as required by OAR 690-240-0035)**

(1) OWNER/PROJECT Hole Number CPS #990
PROJECT NAME/NBR: Williams NW Pipeline
 First Name _____ Last Name _____
 Company Williams Pipeline
 Address P.O. Box 58900
 City Salt Lake City State UT Zip 84158-0900

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

(3) CONSTRUCTION
 Rotary Air Hand Auger Hollow stem auger
 Rotary Mud Cable Push Probe
 Other _____

(4) TYPE OF HOLE:
 Uncased Temporary Cased Permanent
 Uncased Permanent Slope Stability
 Other _____
 Other: _____

(5) USE OF HOLE
 Cathodic protection well for Williams NW Pipeline

(6) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
 Depth of Completed Hole 400.00 ft.

BORE HOLE			SEAL			sacks/lbs	
Dia	From	To	Material	From	To	Amt	lbs
12	0	40	Bentonite	0	20	500	P
10	40	400	Bentonite Chips	20	35	400	P

Backfill placed from _____ ft. to _____ ft. Material _____
 Filter pack from _____ ft. to _____ ft. Material _____ Size _____

(7) CASING/SCREEN

Casing	Screen	Dia	+	From	To	Gauge	Stl	Plstc	Wld	Thrd
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8	<input checked="" type="checkbox"/>	2	35	40	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	10	<input type="checkbox"/>	35	400	.250	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS
 Pump Bailer Air Flowing Artesian
 Yield gal/min _____ Drawdown _____ Drill stem/Pump depth _____ Duration(hr) _____

Temperature _____ °F Lab analysis Yes By _____
 Supervising Geologist/Engineer _____
 Water quality concerns? Yes (describe below)

From	To	Description	Amount	Units

(9) LOCATION OF HOLE (legal description)
 County BAKER Twp 10.00 S N/S Range 40.00 E E/W WM
 Sec 2 NE 1/4 of the SE 1/4 Tax Lot 200
 Tax Map Number _____ Lot _____
 Lat _____ " or 44.7201 DMS or DD
 Long _____ " or -117.7748 DMS or DD
 Street address of hole Nearest address
 Old Hwy.30 East side of road and West of West Sutton Creek Road.

(10) STATIC WATER LEVEL

Date	SWL(psi)	+ SWL(ft)
Existing Well / Predeepening		
Completed Well	<u>09-19-2012</u>	<u>240</u>

Flowing Artesian?
 WATER BEARING ZONES Depth water was first found 20.00

SWL Date	From	To	Est Flow	SWL (psi)	+ SWL (ft)
<u>09-10-2012</u>	<u>20</u>	<u>92</u>	<u>3</u>		<u>19</u>
<u>09-12-2012</u>	<u>115</u>	<u>214</u>	<u>40</u>		<u>120</u>
<u>09-13-2012</u>	<u>315</u>	<u>393</u>	<u>40</u>		<u>240</u>

(11) SUBSURFACE LOG Ground Elevation _____

Material	From	To
Top soil	0	2
Gray clay	2	18
Brown clay	18	20
Sand and gravel	20	34
Gravel with some tan clay mixed in	34	92
Tan clay	92	115
Sand and gravel	115	122
Brown sand clay	122	130
Coarse to fine sand	130	133
Brown and gray clay stone	133	207

Date Started 09-10-2012 Completed 09-20-2012

(12) ABANDONMENT LOG:

Material	From	To	Amt	sacks/lbs

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Date Started _____ Completed _____

Professional Certification (to be signed by an Oregon licensed water or monitoring well constructor, Oregon registered geologist or professional engineer).
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed during the construction dates reported above. All work performed during this time is in compliance with Oregon geotechnical hole construction standards. This report is true to the best of my knowledge and belief.
 License/Registration Number 10030 Date 10-3-2012
 First Name Yos Last Name Hiddleston
 Affiliation Hiddleston Drilling

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BAKE 52238

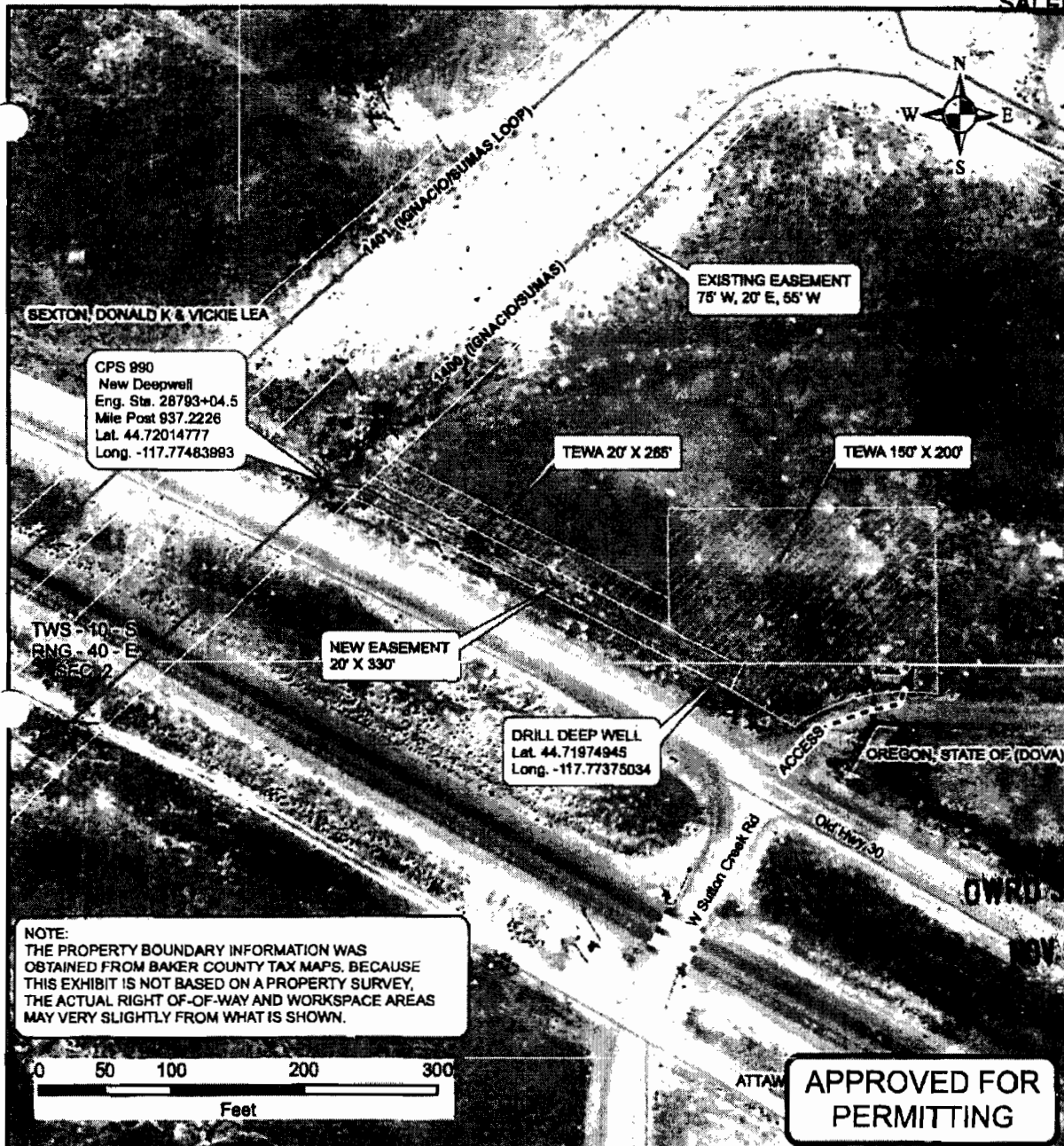
GEOTECHNICAL HOLE REPORT -
Map with location identified must be attached and shall
include an approximate scale and north arrow

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OCT 09 2012

Map of Hole

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NOTE:
THE PROPERTY BOUNDARY INFORMATION WAS
OBTAINED FROM BAKER COUNTY TAX MAPS. BECAUSE
THIS EXHIBIT IS NOT BASED ON A PROPERTY SURVEY,
THE ACTUAL RIGHT-OF-WAY AND WORKSPACE AREAS
MAY VARY SLIGHTLY FROM WHAT IS SHOWN.

APPROVED FOR
PERMITTING

DRAWING NO. 1400.22-171C		REFERENCE TITLE CONSTRUCTION ALIGNMENT		NORTHWEST PIPELINE GP CPS 990 LOCATION MAP 22" O.D. IGNACIO/SUMAS PIPELINE (1400) M.P. 937.2226, E.S. 28793+04.5 S-2, T-10-S, R-40-E BAKER COUNTY, OREGON						
NO.	DATE	BY	REVISION NUMBER	W.O. NO.	CHK.	APP.	DWG. BY: JOB	DATE: 9/28/2012	ISSUED FOR BID:	SCALE: SEE SCALE BAR
1	6/28/2012	JDB	ADDED TEWS & DRILL LOCATION	1103104			CHK BY:	DATE:	ISSUED FOR COMTS:	
2	7/02/2012	JDB	REVISED WORKSPACE & EASEMENT	1103104			APPR BY:	DATE:	DRAWING NUMBER: 937.22-CPS_990	SHEET 1
									DATE:	OF 1

File: K:\Mapping Projects\O&M\CP_GAS2012\NO-1182104\locat0927_22-CPS_990.mxd

G-17601

Nancy Rorick Consulting
Hydrogeology, GIS and Water Rights

645 L Loop
Baker City, OR 97814
541-519-3644
nrorick@yahoo.com

November 27, 2012

Oregon Department of Water Resources
725 Summer Street NE, Suite A
Salem, OR 97301

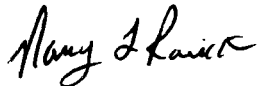
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Enclosed is a permit application that I am submitting on behalf of Randy Joseph for a groundwater permit in Baker County. Mr. Joseph is proposing to drill a well 0.3 miles south of Sutton Creek to irrigate a 25.4-acre field. Due to the proposed well's proximity to Sutton Creek, it falls under the Division 9 rules on groundwater interference. In Section 10, the remark's section of the permit application, I have included a description of the local geology, a geologic map showing well log locations, a cross section developed from logs of nearby wells, and copies of the well logs.

The rate requested in the permit application is $1/60^{\text{th}}$ of one CFS per acre. I have discussed the rate with Baker County Water Master Rick Lusk.

Please contact me if you have any questions regarding the permit application.

Sincerely,



Nancy L. Rorick, RG,CWRE

G-17601

Application for a Permit to Use Ground Water



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

Water-Use Permit Application Processing

1. Completeness Determination

The Department evaluates whether the application and accompanying map contain all of the information required under OAR 690-310-0040 and OAR 690-310-0050 (www.oregon.gov/owrd/law). The Department also determines whether the proposed use is prohibited by statute. If the Department determines that the application is incomplete, all fees have not been paid, or the use is prohibited by statute, the application and all fees submitted are returned to the applicant.

2. Initial Review

The Department reviews the application to determine whether water is available during the period requested, whether the proposed use is restricted or limited by rule or statute, and whether other issues may preclude approval of or restrict the proposed use. An Initial Review (IR) containing preliminary determinations is mailed to the applicant. The applicant has 14 days from the mailing date to withdraw the application from further processing and receive a refund of all fees paid minus \$200. The applicant may put the application on hold for up to 180 days and may request additional time if necessary.

3. Public Notice

Within 7 days of the mailing of the initial review, the Department gives public notice of the application in the weekly notice published by the Department at www.oregon.gov/owrd. The public comment period is 30 days from publication in the weekly notice.

4. Proposed Final Order Issued

The Department reviews any comments received, including comments from other state agencies related to the protection of sensitive, threatened or endangered fish species. Within 60 days of completion of the IR, the Department issues a Proposed Final Order (PFO) explaining the proposed decision to deny or approve the application. A PFO proposing approval of an application will include a draft permit, and may request additional information or outstanding fees required prior to permit issuance.

5. Public Notice

Within 7 days of issuing the PFO, the Department gives public notice in the weekly notice. Notice includes information about the application and the PFO. Protest must be received by the Department within 45 days after publication of the PFO in the weekly notice. Anyone may file a protest. The protest filing fee is \$300.00 for the applicant and \$600.00 for non-applicants. Protests are filed on approximately 10% of Proposed Final Orders. If a protest is filed, the Department will attempt to settle the protest but will schedule a contested case hearing if necessary.

6. Final Order Issued

If no protests are filed, the Department issues a Final Order consistent with the PFO. If the application is approved, a permit is issued that specifies the details of the authorized use and any terms, limitations or conditions that the Department deems appropriate.

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Minimum Requirements Checklist

Minimum Requirements (OAR 690-310-0040, OAR 690-310-0050 & ORS 537.615)

Include this checklist with the application

Check that each of the following items is included. The application will be returned if all required items are not included. If you have questions, please call the Water Rights Customer Service Group at (503) 986-0900.

- SECTION 1: applicant information and signature
- SECTION 2: property ownership
- SECTION 3: well development
- SECTION 4: water use
- SECTION 5: water management
- SECTION 6: storage of groundwater in a reservoir
- SECTION 7: use of stored groundwater from the reservoir
- SECTION 8: project schedule
- SECTION 9: within a district
- SECTION 10: remarks

Attachments:

- Land Use Information Form with approval and signature (*must be an original*) or signed receipt
- Provide the legal description of: (1) the property from which the water is to be diverted, (2) any property crossed by the proposed ditch, canal or other work, and (3) any property on which the water is to be used as depicted on the map. Example: A copy of the deed, land sales contract or title insurance policy.
- Fees - Amount enclosed: \$1250
See the Department's Fee Schedule at www.oregon.gov/owrd or call (503) 986-0900.

Provide a map and check that each of the following items is included:

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

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