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SECTION 3: WELL DEVELOPMENT, CONTINUED

Total maximum rate requested: 4.16 CFS (1867 GPM) *see remarks for an explanation of the rate* (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

The table below must be completed for each source to be evaluated or the application will be returned. If this is an existing well, the 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 to obtain the necessary information.

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)
Well 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MALH 723/repairs MALH 53474	<input type="checkbox"/>	16 inch 14 inch	+1.5 – 120 ft 110-250 ft	130-240 ft	0-36ft	174.33 3/31/2014	Volcanic ash / fractured basalt	590 ft		
Well 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MALH 53231	<input type="checkbox"/>	14 inches	+2 -176 ft	Left blank on well log	0 – 176 ft	179 ft 3/31/2014	Fractured basalt	450 ft		
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>							Total	1867 gpm	1645.5 AF
	<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"/>									

* 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)
Supplemental Irrigation	March 1 – October 31	42.9 acre feet (3 acre feet per acre)
Supplemental Irrigation to correct deficiencies in permits G11963 & G16420	March 1 – October 31	1602.6 acre feet (3 acre feet per acre) This includes volume under G11963.

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: _____ Acres Supplemental: 14.3 Acres and 534.2 acres to make up a deficiency in permits G11963 and G16420.

List the Permit or Certificate number of the underlying primary water right(s): Certificate 6954, 7036, 51105, 51106, 51107, 51109, 51081, 51082, 51934 (per results of submitted transfer)

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: 887.1 AF (42.9 AF for supplemental irrigation and 844.2 AF to make up the deficiency in G11963)

- 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): Well 1 (MALH 723) 125 HP submersible and Well 2 (MALH 53251) 217 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. The water will be pumped (with the aid of centrifugal booster pumps) via the mainlines shown on the application map to the irrigated areas.

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler)
The area will be irrigated with three pivots and the rectangular field will be irrigated with a wheel line.

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.

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The pivots will have pressure drops. This means that the pivot creates large drops of water that are less affected by the wind and evaporation than small drops. The soil moisture will be checked and the fields will only be irrigated when necessary. The water user has converted the areas under this permit from flood irrigation to sprinkler irrigation which is more efficient.

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	n/a

SECTION 8: PROJECT SCHEDULE

Date construction will begin: March 2015 or as soon as the permit is issued.

Date construction will be completed: March 2016

Date beneficial water use will begin: March 2016

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SECTION 9: WITHIN A DISTRICT

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

Irrigation District Name n/a		Address	
City		State	Zip

SECTION 10: REMARKS

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

The applicant is applying for a permit to make up deficiencies in permits G11963 (534.2 acres) and G16420 (252.8 acres), and for supplemental irrigation of 14.3 acres not currently covered by a groundwater right. All the lands irrigated under permit G16420 are also covered by G11963. The rate on G11963 is 3.45 CFS which is less than 1/80th (1/80th would be 6.68 CFS). The rate for G16420 is 3.16 CFS which is 1/80th.

The primary water rights are surface water rights from Bully Creek and Cottonwood Creek. A transfer application was submitted concurrently with this permit application. The transfer arranges the surface water POU to match the irrigated under permits G11963, G16420 and this permit application.

The applicant is applying for a rate of 1/60th CFS per acre. He needs this rate so that he can operate his pivots which require 7.5 GPM per acre.

The rate for this permit is calculated as follows:

The 14.3 acres of new supplemental water right will be irrigated at 1/60th or a rate of **0.24 CFS**.

On land covered only by G11963

3.45 CFS x (281.4 acres / 534.2 acres) = 1.82 CFS (the existing rate on permit G11963 not covered by permit G16420)

1/60th of a CFS per acre for 281.4 acres is 4.69 CFS

4.69 CFS – 1.82 CFS = **2.87 CFS** is the amount needed to make up the deficiency on permit G11963.

On land covered by both G11963 and G16420

The existing rate is 1/80th or 3.16 CFS on the lands covered by 252.8 acres. 1/60th on 252.8 acres is 4.21 CFS. The extra CFS need is 4.21 CFS – 3.16 CFS = **1.05 CFS**

Totals

2.87 CFS + 0.24 CFS + 1.05 CFS = **4.16 CFS** is the total rate applied for in this permit

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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

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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: \$3400
 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 _____