

May 1, 2013

Ms. Kerry Kavanagh
Oregon Department of Water Resources
725 Summer Street NE, Suite A
Salem, OR 97301

Dear Ms. Kavanagh,

I am writing with regard to NF Land LLC's pending water permit application, G-17604. As discussed with you and Mr. Norton, NF Land LLC is hereby adding 8 potential well locations prior to Mr. Norton's ground water review. Enclosed you will find:

- An updated map depicting the locations of all 15 contemplated wells
- A revised Section 3 of the application
- Check number 4062 in the amount of \$1,493.00, in payment of the additional required fees. [The total additional amount due is \$2,000.00 (i.e. \$250 per additional well location). However, the initial fees submitted with G-17604 included an overpayment of \$507.00, which reduces the amount now due to \$1,493.00.]

Please contact me with any questions. Thank you for your assistance.

Sincerely,

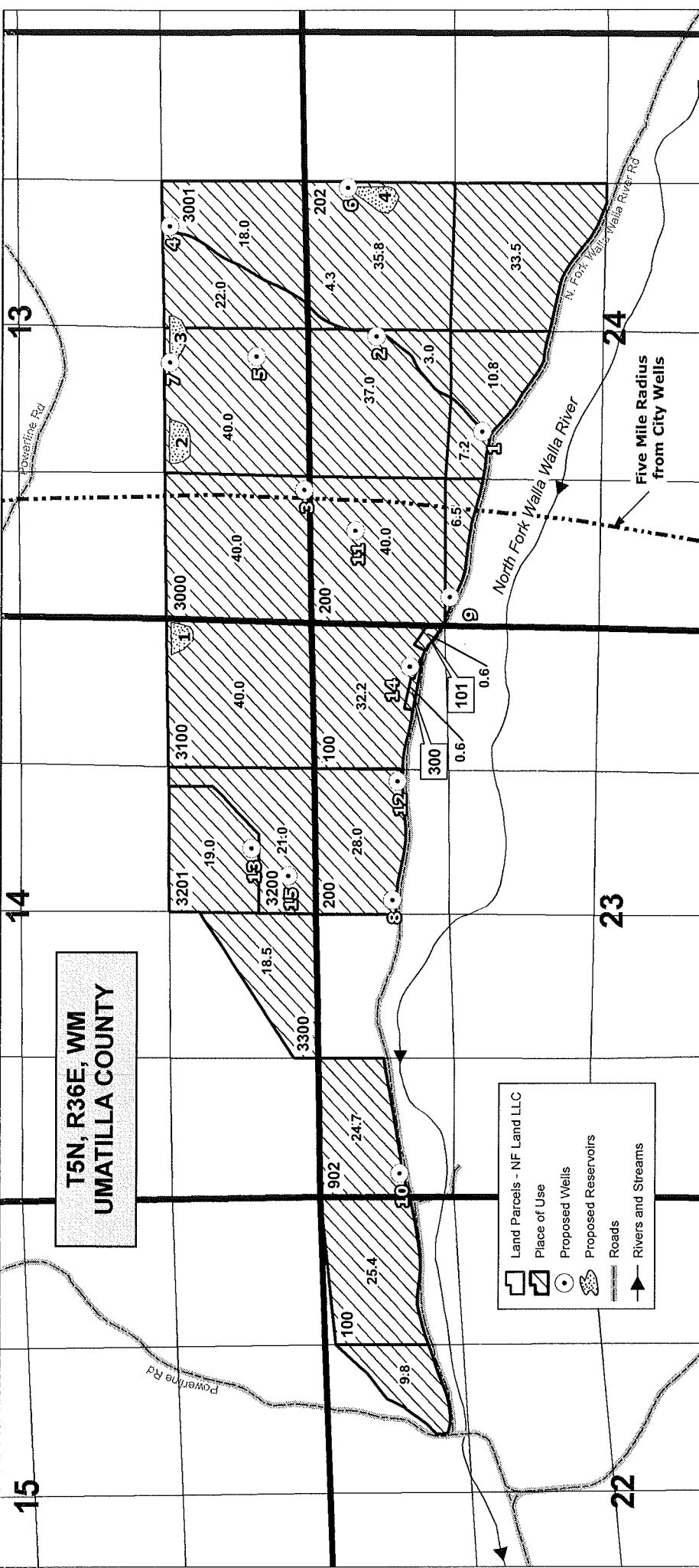


Sam Hobson, Member
NF Land LLC
2885 Sanford Ave SW, #21711
Grandville, MI 49418
nflandllc@gmail.com

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**T5N, R36E, WM
UMATILLA COUNTY**

Legend

- Land Parcels - NF Land LLC
- Place of Use
- Proposed Wells
- Proposed Reservoirs
- Roads
- Rivers and Streams

- POA 1: Proposed well 1060 feet N and 885 feet W from Center of Sec 24
- POA 2: Proposed well 620 feet S and 60 feet W from N 1/4 Corner of Sec 24
- POA 3: Proposed well 45 feet N and 1200 feet E from SW Corner of Sec 13
- POA 4: Proposed well 1200 feet N and 900 feet E from S 1/4 Corner of Sec 13
- POA 5: Proposed well 470 feet N and 250 feet W from S 1/4 Corner of Sec 13
- POA 6: Proposed well 360 feet S and 1270 feet E from N 1/4 Corner of Sec 24
- POA 7: Proposed well 1240 feet N and 300 feet W from S 1/4 Corner of Sec 13
- POA 8: Proposed well 695 feet S and 125 feet E from N 1/4 Corner of Sec 23
- POA 9: Proposed well 1250 feet S and 260 feet E from NW Corner of Sec 24
- POA 10: Proposed well 720 feet S and 215 feet E from NW Corner of Sec 23
- POA 11: Proposed well 375 feet S and 825 feet E from NW Corner of Sec 24
- POA 12: Proposed well 725 feet S and 1190 feet E from N 1/4 Corner of Sec 23
- POA 13: Proposed well 585 feet N and 580 feet E from S 1/4 Corner of Sec 14
- POA 14: Existing well 895 feet S and 370 feet W from NE Corner of Sec 23
- POA 15: Existing well 245 feet N and 340 feet E from S 1/4 Corner of Sec 14

PROPOSED USE: Irrigation of 517.7 acres (total)

MAXIMUM RATE: 6.47 cfs (2,904 gpm)

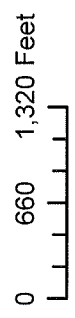
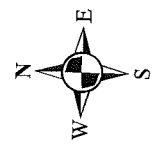
- RESERVOIR 1**
Dam Location = 1150 feet N and 175 feet W from SE Corner of Section 14
Storage = 5 acre-feet (approx) Area = 1.0 acre (approx)
- RESERVOIR 2**
Dam Location = 1175 feet N and 1025 feet W from S 1/4 Corner of Section 13
Storage = 6 acre-feet (approx) Area = 1.4 acres (approx)
- RESERVOIR 3**
Dam Location = 1180 feet N and 100 feet W from S 1/4 Corner of Section 13
Storage = 7 acre-feet (approx) Area = 1.7 acre (approx)
- RESERVOIR 4**
Dam Location = 650 feet S and 1300 feet E from N 1/4 Corner of Section 24
Storage = 9 acre-feet (approx) Area = 2.0 acre (approx)

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APPLICATION MAP
Permit to Use Groundwater
 Prepared for: **NF LAND LLC**
 Prepared by: **Geo-Spatial Solutions**
 Revised: **29 APR 2013**



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

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SECTION 3: WELL DEVELOPMENT

SALEM, OR

| 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 | North Fork Walla Walla River | 755 feet | 45 feet (well above river) |
| 2 | North Fork Walla Walla River | 1,960 feet | 170 feet (well above river) |
| 3 | North Fork Walla Walla River | 2,040 feet | 170 feet (well above river) |
| 4 | North Fork Walla Walla River | 4,075 feet | 420 feet (well above river) |
| 5 | North Fork Walla Walla River | 2,935 feet | 450 feet (well above river) |
| 6 | North Fork Walla Walla River | 2,485 feet | 480 feet (well above river) |
| 7 | North Fork Walla Walla River | 3,600 feet | 570 feet (well above river) |
| 8 | North Fork Walla Walla River | 530 feet | 40 feet (well above river) |
| 9 | North Fork Walla Walla River | 510 feet | 30 feet (well above river) |
| 10 | North Fork Walla Walla River | 410 feet | 60 feet (well above river) |
| 11 | North Fork Walla Walla River | 1490 feet | 140 feet (well above river) |
| 12 | North Fork Walla Walla River | 880 feet | 30 feet (well above river) |
| 13 | North Fork Walla Walla River | 1885 feet | 200 feet (well above river) |
| 14 | North Fork Walla Walla River | 850 feet | 60 feet (well above river) |
| 15 | North Fork Walla Walla River | 1470 feet | 160 feet (well above river) |

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 applicant does not intend to construct 15 wells. Rather the applicant intends to drill only the number of wells required to yield a sufficient production rate to irrigate the proposed lands. The applicant is requesting authorization for fifteen potential well locations for flexibility during well construction. The eight POAs located inside of the 5-mile radius are separated from the nearest municipal well (UMAT 4010) by multiple faults and the well depths are above the wellhead elevation of the municipal well. Well 15 already exists, and the well log will be provided.

SECTION 3: WELL DEVELOPMENT, CONTINUED

Source (aquifer), if known: Basalt

Total maximum rate requested: 6.47 cfs (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

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

| OWNER'S WELL NAME OR NO. | PROPOSED | EXISTING | WELL ID (WELL TAG) NO.* OR WELL LOG ID** | FLOWING ARTESIAN | CASING DIAMETER | CASING INTERVALS (IN FEET) | PERFORATED OR SCREENED INTERVALS (IN FEET) | SEAL INTERVALS (IN FEET) | MOST RECENT STATIC WATER LEVEL & DATE (IN FEET) | SOURCE AQUIFER*** | PROPOSED USE | | |
|--------------------------|-------------------------------------|-------------------------------------|--|--------------------------|-----------------|----------------------------|--|--------------------------|---|-------------------|------------------|--------------------------|---------------------------|
| | | | | | | | | | | | TOTAL WELL DEPTH | WELL-SPECIFIC RATE (GPM) | ANNUAL VOLUME (ACRE-FEET) |
| Well 1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 500 ft | 300-500 ft | 0-300 ft | N/A | Basalt | 500 | Max | Max |
| Well 2 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 625 ft | 400-625 ft | 0-400 ft | N/A | Basalt | 625 | Max | Max |
| Well 3 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 625 ft | 400-625 ft | 0-400 ft | N/A | Basalt | 625 | Max | Max |
| Well 4 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 900 ft | 600-900 ft | 0-400 ft | N/A | Basalt | 900 | Max | Max |
| Well 5 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 900 ft | 600-900 ft | 0-400 ft | N/A | Basalt | 900 | Max | Max |
| Well 6 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 950 ft | 650-950 ft | 0-400 ft | N/A | Basalt | 950 | Max | Max |
| Well 7 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 1000 ft | 700-1000 ft | 0-400 ft | N/A | Basalt | 1000 | Max | Max |
| Well 8 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 50 ft | 50-350 ft | 0-50 ft | N/A | Basalt | 350 | Max | Max |
| Well 9 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 50 ft | 50-410 ft | 0-50 ft | N/A | Basalt | 410 | Max | Max |
| Well 10 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 50 ft | 50-320 ft | 0-50 ft | N/A | Basalt | 320 | Max | Max |
| Well 11 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 50 ft | 50-520 ft | 0-50 ft | N/A | Basalt | 520 | Max | Max |
| Well 12 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 50 ft | 50-380 ft | 0-50 ft | N/A | Basalt | 380 | Max | Max |
| Well 13 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 50 ft | 50-510 ft | 0-50 ft | N/A | Basalt | 510 | Max | Max |
| Well 14 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | N/A | <input type="checkbox"/> | 16 in | 50 ft | 50-410 ft | 0-50 ft | N/A | Basalt | 410 | Max | Max |
| Well 15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Pending | <input type="checkbox"/> | Pending | Pending | Pending | Pending | Pending | Basalt | Pend | Max | Max |

* 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.