

Approved:



MEMO

To: Kristopher Byrd, Well Construction Manager
From: Tommy Laird, Well Construction Program Coordinator
Subject: Review of Water Right Application LL-1957
Date: June 25, 2024

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Dennis Orłowski reviewed the application. Please see Dennis' Groundwater Review and the Well Reports.

Applicant's Well #NW-3 (WASH 1130): Based on a review of the Well Report, NW-3 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that according to the Water Supply Well Report, the well was sealed with an unapproved grout. In order to meet minimum construction standards, the well must be resealed with an approved grout to a minimum depth of 32 feet bgs.

My recommendation is that the Department **not issue** a permit for NW-3 unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is constructed to meet current minimum well construction standards.

The construction of NW-3 may not satisfy hydraulic connection issues.

Applicant's Well #NW-5 (WASH 9603): Based on a review of the Well Report, Applicant's Well NW-5 seems to protect the groundwater resource.

The construction of NW-5 may not satisfy hydraulic connection issues.

Applicant's Well #NW-6 (WASH 9628/WASH 119): Based on a review of the Well Report, Applicant's Well NW-6 seems to protect the groundwater resource.

The construction of NW-6 may not satisfy hydraulic connection issues.

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

WASH
 1130

RECEIVED

MAY 11 1989

S/24/7 da

(START CARD) # 9982

(1) OWNER:
 Name Oregon Garden Products
 Address 3150 SE Minter Bridge Rd.
 City Hillsboro State OR Zip 97123

Well Number: # 3-89 **(9) LOCATION OF WELL by legal description:**
 County Wash. Latitude _____ Longitude _____
 Township 1S N or S, Range 2W E or W, WM.
 Section 7 NE ¼ SE ¼
 Tax Lot _____ Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) 3150 SE Minter
Bridge Rd., Hillsboro, OR 97123

(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 182 ft.
 Explosives used Yes No Type _____ Amount _____

| HOLE | | | SEAL | | | Amount sacks or pounds |
|----------|------|-----|-----------|------|-----|---------------------------|
| Diameter | From | To | Material | From | To | |
| 13½ | 0 | 65 | cem/gel | 0 | 65 | 43 sacks |
| 13½ | 65 | 182 | sand pack | 65 | 182 | --- |
| 6½ | 182 | 209 | drill gel | | | --- |

How was seal placed: Method A B C D E
 Other _____
 Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from 65 ft. to 182 ft. Size of gravel #4 & #8 Aqua

(6) CASING/LINER:

| Diameter | From | To | Gauge | Steel | Plastic | Welded | Threaded |
|-----------|------|-----|-------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| Casing: 8 | +1 | 109 | .250 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8 | 129 | 140 | .250 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8 | 145 | 159 | .250 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8 | 179 | 182 | .250 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Liner: | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

Perforations Method _____
 Screens Type Wire wound Material L.C. steel

| From | To | Slot size | Number | Diameter | Tele/pipe size | Casing | Liner |
|------|-----|-----------|--------|----------|----------------|-------------------------------------|--------------------------|
| 109 | 129 | .030 | | 8 | pipe | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 140 | 145 | .030 | | 8 | pipe | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 159 | 179 | .030 | | 8 | pipe | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |

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

Pump Bailer Air Flowing Artesian

| Yield gal/min | Drawdown | Drill stem at | Time |
|---------------|----------|---------------|--------|
| 66 | | 70 | 1 hr. |
| 82 | | 80 | 2 hr. |
| 92 | | 90 | 4 hr. |
| 103 | | 100 | 5 hrs. |

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: _____

(10) STATIC WATER LEVEL:
23 ft. below land surface. Date 4/25/89
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 109

| From | To | Estimated Flow Rate | SWL |
|------|-----|---------------------|-----|
| 109 | 129 | 100 gpm | 23 |
| 140 | 145 | " | " |
| 159 | 179 | " | " |

(12) WELL LOG: Ground elevation _____

| Material | From | To | SWL |
|-----------------------------|------|-----|-----|
| Rock & clay fill | 0 | 1 | |
| Gray clay | 1 | 2 | |
| Wood & fill material | 2 | 27 | |
| Soft brown silty clay | 27 | 49 | |
| Soft gray silty clay | 49 | 109 | |
| Medium to coarse black sand | 109 | 129 | |
| occ. clay interbed | | | |
| Sticky gray-brown clay | 129 | 134 | |
| Soft brown sandy clay | 134 | 140 | |
| Fine to coarse brown sand | 140 | 144 | |
| Sticky gray clay | 144 | 161 | |
| Medium to coarse brown sand | 161 | 177 | |
| Sticky gray clay | 177 | 209 | |

Date started 3/16/89 Completed 4/26/89

(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 1266
 Signed [Signature] Date 4/20/89

APR 21 1989

WASH

009603

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

WATER RESOURCES DEPT.
SALEM, OREGON

(START CARD) # 9983

(1) OWNER: Well Number: #5 - 89
Name Oregon Garden Products
Address _____
City _____ State _____ Zip _____

(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 170 ft.
Explosives used Yes No Type _____ Amount _____

| HOLE | | | SEAL | | | Amount sacks or pounds |
|----------|------|-----|----------|------|-----|---------------------------|
| Diameter | From | To | Material | From | To | |
| 13 1/2 | 0 | 62 | Cement | 0 | 62 | 42 Sacks |
| | 62 | 170 | Sandpack | 62 | 170 | |
| 6 1/2 | 170 | 210 | Drillgel | 170 | 210 | |

How was seal placed: Method A B C D E
 Other _____
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from 62 ft. to 170 ft. Size of gravel #8 & #4

| Casing: | Diameter | From | To | Gauge | Steel | Plastic | Welded | Threaded |
|---------|----------|------|-----|-------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 8 | +1 | 95 | .250 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 8 | 135 | 146 | .250 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 8 | 156 | 161 | .250 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 8 | 166 | 170 | .250 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:
 Perforations Method _____
 Screens Type Wire wound Material L.C. Steel

| From | To | Slot size | Number | Diameter | Tele/pipe size | Casing | Liner |
|------|-----|-----------|--------|----------|----------------|-------------------------------------|--------------------------|
| 95 | 135 | .030 | | 8" | Pipe | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 146 | 156 | .020 | | 8" | Pipe | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 161 | 166 | .030 | | 8" | | <input type="checkbox"/> | <input type="checkbox"/> |

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem at Time
60 _____ 70 1 hr.
72 _____ 80 2 hr.
90 _____ 90 3 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 Wash Latitude _____ Longitude _____
Township 1S N or S, Range 2W E or W, WM.
Section 7 NE 1/4 SE 1/4
Tax Lot _____ Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 3150 SE Minter
Bridge Rd. Hillsboro, OR 97123

(10) STATIC WATER LEVEL:
17 ft. below land surface. Date 4/17/89
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 92

| From | To | Estimated Flow Rate | SWL |
|------|-----|---------------------|-----|
| 92 | 126 | 90 gpm | 17 |
| 129 | 134 | 90 gpm | " |
| 143 | 155 | 90 gpm | " |
| 160 | 166 | 90 gpm | " |

(12) WELL LOG: Ground elevation _____

| Material | From | To | SWL |
|--|------|-----|-----|
| Topsoil | 0 | 1 | |
| Dark Brown Clay | 1 | 3 | |
| Soft Brown Silty Clay | 3 | 13 | |
| Fine Muddy Brown Sand | 13 | 15 | X |
| Soft Lt. Gray - Brown Clay | 15 | 17 | |
| Soft Brown Silty Clay | 17 | 45 | |
| w/ Fine Sand Streaks | | | |
| Soft Gray Silty Clay | 45 | 57 | |
| Fine Gray Sand | 57 | 65 | |
| Soft Gray Silty Clay | 65 | 92 | |
| Fine to Medium Coarse Black Sand | 92 | 108 | |
| Sticky <input checked="" type="checkbox"/> Gray Clay | 108 | 109 | |
| Fine to Coarse Black Sand | 109 | 126 | |
| Sticky Gray Clay | 126 | 129 | |
| Fine to Coarse Black Sand | 129 | 134 | |
| Sticky Gray Clay | 134 | 140 | |
| Sticky Brown Clay | 140 | 143 | |
| Fine to Coarse Brown Sand | 143 | 155 | |
| Sticky Light Brown Clay | 155 | 161 | |
| Fine to Coarse Brown Sand | 161 | 166 | |
| Sticky Gray Clay occ. Sand | 166 | 210 | |
| Streaks | | | |

Date started 4/12/89 Completed 4/18/89

(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 1266
Signed *[Signature]* Date 4/19/89

WASH RECEIVED

18/20/80

STATE OF OREGON WATER WELL REPORT 009628

(START CARD) # 10626

(1) OWNER:

Name Oregon Garden Products
Address 3150 S. E. Minter Bridge Rd.
City Hillsboro State OR Zip 97123

Well Number: TW 77 NW 69 LOCATION OF WELL by legal description:

County Washington Latitude Longitude
Township 1 S Nor S, Range 2 W E or W, WM.
Section 8 NW 1/4 SW 1/4
Tax Lot Lot Block Subdivision
Street Address of Well (or nearest address) 3150 S. E. Minter Bridge Rd., Hillsboro, Oregon 97123

(2) TYPE OF WORK:

[X] New Well [] Deepen [] Recondition [X] Abandon Temporary

(3) DRILL METHOD

[] Rotary Air [X] Rotary Mud [] Cable
[] Other

(4) PROPOSED USE:

[] Domestic [] Community [] Industrial [] Irrigation
[] Thermal [] Injection [X] Other Test Well

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well -- ft.
Explosives used [] [X] Type Amount

Table with columns: HOLE Diameter, From, To, SEAL Material, From, To, Amount sacks or pounds. Includes entries for 10" and 6 1/2" diameters.

How was seal placed: Method [] A [] B [] C [] D [] E
[X] Other poured into dry annulus
Backfill placed from ft. to ft. Material
Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Includes entries for 6" casing and liner.

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Includes checkboxes for Perforations and Screens.

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

Table with columns: Yield gal/min, Drawdown, Drill stem at, Time. Includes checkboxes for Pump, Bailer, Air, Flowing Artesian.

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:

(10) STATIC WATER LEVEL:

ft. below land surface. Date
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Table with columns: From, To, Estimated Flow Rate, SWL. Includes text: Depth at which water was first found

(12) WELL LOG:

Table with columns: Material, From, To, SWL. Includes entries like Rock & clay fill, Gray clay, Soft brown clay, etc.

Date started 5/17/89 Completed 5/19/89

(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 WWC Number 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.

Signed WWC Number 1266 Date 5/25/89

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

Wash 119

G-12343

15/20/8 CB

(START CARD) # 22901

(1) OWNER: Well Number: NW6
 Name Oregon Garden Products
 Address 3150 SE Minter Bridge Rd.
 City Hillsboro State OR Zip 97123

(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 170 ft.
 Explosives used Type _____ Amount _____

| HOLE | | | SEAL | | Amount | |
|---------------|----------|------------|-------------------|-----------|------------|-----------------|
| Diameter | From | To | Material | From | To | sacks or pounds |
| <u>12 1/4</u> | <u>0</u> | <u>170</u> | <u>Gran. bent</u> | <u>0</u> | <u>22</u> | <u>20 sacks</u> |
| | | | <u>drill gel</u> | <u>22</u> | <u>75</u> | |
| | | | <u>cement</u> | <u>75</u> | <u>90</u> | <u>7 sacks</u> |
| | | | <u>sand pack</u> | | <u>170</u> | |

How was seal placed: Method A B C D E
 Other poured into dry annulus
 Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from 90 ft. to 170 ft. Size of gravel #8 & #2

(6) CASING/LINER:

| Diameter | From | To | Gauge | Steel | Plastic | Welded | Threaded |
|------------------|------------|------------|------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| Casing: <u>8</u> | <u>+1</u> | <u>111</u> | <u>250</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <u>8</u> | <u>136</u> | <u>148</u> | <u>250</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <u>8</u> | <u>164</u> | <u>170</u> | <u>250</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Liner: | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Final location of shoets) _____

(7) PERFORATIONS/SCREENS:
 Perforations Method _____
 Screens Type Woundwire Material L.C. Steel

| From | To | Slot size | Number | Diameter | Tele/pipe size | Casing | Liner |
|------------|------------|-------------|--------|----------|----------------|-------------------------------------|--------------------------|
| <u>111</u> | <u>136</u> | <u>.030</u> | | <u>8</u> | <u>Pipe</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <u>148</u> | <u>164</u> | <u>.030</u> | | <u>8</u> | <u>Pipe</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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

| Yield gal/min | Drawdown | Drill stem at | Time |
|---------------|----------|---------------|--------------|
| <u>60</u> | | <u>60</u> | <u>1 hr.</u> |
| <u>75</u> | | <u>80</u> | <u>2 hr.</u> |

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 Washington Latitude _____ Longitude _____
 Township 1S N or S. Range 2W E or W. WM.
 Section 8 NW SW
 Tax Lot _____ Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) 3150 SE Minter Bridge Hillsboro, OR 97123

(10) STATIC WATER LEVEL:
33 ft. below land surface. Date 08/21/90
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
 Depth at which water was first found 111

| From | To | Estimated Flow Rate | SWL |
|------------|------------|---------------------|-----------|
| <u>111</u> | <u>164</u> | <u>75 gpm</u> | <u>33</u> |

(12) WELL LOG: Ground elevation _____

| Material | From | To | SWL |
|---|------|----|-----|
| <u>Existing surface casing withdrawn, bore enlarged to 12 1/4", screened and packed</u> | | | |
| <u>Existing well # TW#7/NW6</u> | | | |
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AUG 31 1990
WATER RESOURCES DEPT.
SALEM, OREGON

Date started 08/16/90 Completed 08/21/90

(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 _____ WWC Number _____ 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.
 Signed [Signature] WWC Number 1266 Date 08/27/90