

**ATTACHMENT 4E**

**Well Completion Report**

State of California  
**Well Completion Report**  
 Form DWR 188 Auto-Completed 7/12/2021  
 WCR2021-005628

Owner's Well Number 1 Date Work Began 03/24/2021 Date Work Ended 04/30/2021  
 Local Permit Agency Humboldt County Department of Health & Human Services - Land Use Program  
 Secondary Permit Agency \_\_\_\_\_ Permit Number 20/21 -0761 Permit Date 03/04/2021

| Well Owner (must remain confidential pursuant to Water Code 13752)         | Planned Use and Activity                                 |
|--|--|
| Name <u>XXXXXXXXXXXXXXXXXXXX</u>   | Activity <u>New Well</u>                                 |
| Mailing Address <u>XXXXXXXXXXXXXXXXXXXX</u><br><u>XXXXXXXXXXXXXXXXXXXX</u> | Planned Use <u>Water Supply Irrigation - Agriculture</u> |
| City <u>XXXXXXXXXXXXXXXXXXXX</u> State <u>XX</u> Zip <u>XXXXX</u>          |  |

| Well Location   |                                      |
|---|--------------------------------------|
| Address <u>47730 Mattole RD</u>   | APN <u>107-054-036</u>               |
| City <u>Honeydew</u> Zip <u>95545</u> County <u>Humboldt</u>  | Township <u>02 S</u>                 |
| Latitude <u>40</u> <u>15</u> <u>34.477</u> <u>N</u> Longitude <u>-124</u> <u>6</u> <u>57.798</u> <u>W</u> | Range <u>01 E</u>                    |
| Deg. Min. Sec.  | Section <u>31</u>                    |
| Dec. Lat. <u>40.25957696</u> Dec. Long. <u>-124.116055</u>  | Baseline Meridian <u>Humboldt</u>    |
| Vertical Datum _____ Horizontal Datum <u>WGS84</u>  | Ground Surface Elevation _____       |
| Location Accuracy _____ Location Determination Method _____   | Elevation Accuracy _____             |
|   | Elevation Determination Method _____ |

| Borehole Information   |  |
|--|--|
| Orientation <u>Vertical</u> Specify _____  |  |
| Drilling Method <u>Other - Under Ream Down Hole Hammer</u> Drilling Fluid <u>Air</u> |  |
| Total Depth of Boring <u>200</u> Feet  |  |
| Total Depth of Completed Well <u>200</u> Feet  |  |

| Water Level and Yield of Completed Well                       |  |
|---|--|
| Depth to first water <u>51</u> (Feet below surface)           |  |
| Depth to Static _____   |  |
| Water Level <u>43</u> (Feet) Date Measured <u>04/30/2021</u>  |  |
| Estimated Yield* <u>40</u> (GPM) Test Type <u>Air Lift</u>    |  |
| Test Length <u>4</u> (Hours) Total Drawdown <u>149</u> (feet) |  |
| *May not be representative of a well's long term yield.       |  |

| Geologic Log - Free Form        |     |  |
|---------------------------------|-----|--|
| Depth from Surface Feet to Feet |     | Description  |
| 0                               | 1   | Top Soil   |
| 1                               | 24  | Brown Sand Stone                                     |
| 24                              | 33  | Silty Clay, Sand                                     |
| 33                              | 47  | Basalt (Rock) Floater                                |
| 47                              | 63  | Brown Fractured sandstone & Blue Fractured Sandstone |
| 63                              | 181 | Shale Mulache  |
| 181                             | 200 | Fractured Shale                                      |

| Casings  |                                    |     |             |                  |                        |                            |                              |              |                              |             |
|----------|------------------------------------|-----|-------------|------------------|------------------------|----------------------------|------------------------------|--------------|------------------------------|-------------|
| Casing # | Depth from Surface<br>Feet to Feet |     | Casing Type | Material         | Casings Specifications | Wall Thickness<br>(inches) | Outside Diameter<br>(inches) | Screen Type  | Slot Size if any<br>(inches) | Description |
|          | 1                                  | 0   |             |                  |                        |                            |                              |              |                              |             |
| 1        | 50                                 | 63  | Screen      | Low Carbon Steel | Grade: ASTM A53        | 0.188                      | 6                            | Milled Slots | 0.032                        |             |
| 1        | 63                                 | 180 | Blank       | Low Carbon Steel | Grade: ASTM A53        | 1.88                       | 6                            |              |                              |             |
| 1        | 180                                | 200 | Blank       | Low Carbon Steel | Grade: ASTM A53        | 0.25                       | 6                            |              |                              |             |

| Annular Material                   |     |             |                   |                  |               |
|------------------------------------|-----|-------------|-------------------|------------------|---------------|
| Depth from Surface<br>Feet to Feet |     | Fill        | Fill Type Details | Filter Pack Size | Description   |
| 0                                  | 20  | Bentonite   | Other Bentonite   |                  | Sanitary Seal |
| 20                                 | 200 | Filter Pack | Other Gravel Pack | 3/8 inch         | Pea Gravel    |

**Other Observations:**

| Borehole Specifications            |     |                            |
|------------------------------------|-----|----------------------------|
| Depth from Surface<br>Feet to Feet |     | Borehole Diameter (inches) |
| 0                                  | 200 | 10                         |

| Certification Statement  |                                      |             |                     |
|--|--------------------------------------|-------------|---------------------|
| I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief |                                      |             |                     |
| Name   | FISCH DRILLING                       |             |                     |
| Person, Firm or Corporation  |                                      |             |                     |
| 3150 JOHNSON ROAD  | HYDEVILLE                            | CA          | 95547               |
| Address  | City                                 | State       | Zip                 |
| Signed   | <i>electronic signature received</i> | 05/07/2021  | 683865              |
| C-57 Licensed Water Well Contractor  |                                      | Date Signed | C-57 License Number |

| Attachments                     |
|---------------------------------|
| Location Map.pdf - Location Map |

| DWR Use Only         |                   |                       |                   |
|----------------------|-------------------|-----------------------|-------------------|
| CSG #                | State Well Number | Site Code             | Local Well Number |
|                      |                   |                       |                   |
|                      |                   |                       |                   |
|                      |                   |                       |                   |
|                      |                   |                       |                   |
| Latitude Deg/Min/Sec |                   | Longitude Deg/Min/Sec |                   |
| TRS:                 |                   |                       |                   |
| APN:                 |                   |                       |                   |

State of California  
**Well Completion Report**  
WCR Form - DWR 188 Complete 06/19/2017  
WCR2017-001202

Owner's Well Number Well #1 Date Work Began 04/18/2017 Date Work Ended 04/18/2017  
Local Permit Agency Humboldt County Department of Health & Human Services - Land Use Program  
Secondary Permit Agency \_\_\_\_\_ Permit Number 16/17-0453 Permit Date 11/02/2016

| Well Owner (must remain confidential pursuant to Water Code 13752) |                             |       |                            |
|--|-----------------------------|-------|----------------------------|
| Name   | <u>XXXXXXXXXXXXXXXXXXXX</u> |       |                            |
| Mailing Address  | <u>XXXXXXXXXXXXXXXXXXXX</u> |       |                            |
|  | <u>XXXXXXXXXXXXXXXXXXXX</u> |       |                            |
| City   | <u>XXXXXXXXXXXXXXXXXXXX</u> | State | <u>XX</u> Zip <u>XXXXX</u> |

| Planned Use and Activity |                              |
|--------------------------|------------------------------|
| Activity                 | <u>New Well</u>              |
| Planned Use              | <u>Water Supply Domestic</u> |

| Well Location                   |                                     |                                      |                      |
|---------------------------------|-------------------------------------|--------------------------------------|----------------------|
| Address <u>47730 Mattole RD</u> |                                     | APN <u>107-054-035</u>               |                      |
| City <u>Honeydew</u>            | Zip <u>95545</u>                    | County <u>Humboldt</u>               | Township <u>02 S</u> |
| Latitude _____ N                | Longitude _____ W                   | Range <u>01 E</u>                    | Section <u>31</u>    |
| Dec. Lat. _____                 | Dec. Long. _____                    | Baseline Meridian <u>Humboldt</u>    |                      |
| Vertical Datum _____            | Horizontal Datum <u>WGS84</u>       | Ground Surface Elevation _____       |                      |
| Location Accuracy _____         | Location Determination Method _____ | Elevation Accuracy _____             |                      |
|                                 |                                     | Elevation Determination Method _____ |                      |

| Borehole Information                         |                           |
|--|---------------------------|
| Orientation <u>Vertical</u>                  | Specify _____             |
| Drilling Method <u>Direct Rotary</u>         | Drilling Fluid <u>Air</u> |
| Total Depth of Boring <u>250</u> Feet        |                           |
| Total Depth of Completed Well <u>20</u> Feet |                           |

| Water Level and Yield of Completed Well                 |                                     |
|---|-------------------------------------|
| Depth to first water _____                              | (Feet below surface)                |
| Depth to Static _____                                   |                                     |
| Water Level _____                                       | (Feet) Date Measured _____          |
| Estimated Yield* _____                                  | (GPM) Test Type _____               |
| Test Length _____                                       | (Hours) Total Drawdown _____ (Feet) |
| *May not be representative of a well's long term yield. |                                     |

| Geologic Log - Free Form           |     |                |
|------------------------------------|-----|----------------|
| Depth from Surface<br>Feet to Feet |     | Description    |
| 0                                  | 20  | Topsoil        |
| 20                                 | 250 | Grey Sandstone |

| Casings  |                                    |    |             |                 |                        |                            |                              |             |                              |             |
|----------|------------------------------------|----|-------------|-----------------|------------------------|----------------------------|------------------------------|-------------|------------------------------|-------------|
| Casing # | Depth from Surface<br>Feet to Feet |    | Casing Type | Material        | Casings Specifications | Wall Thickness<br>(inches) | Outside Diameter<br>(inches) | Screen Type | Slot Size if any<br>(inches) | Description |
| 1        | 0                                  | 20 | Blank       | Stainless Steel | N/A                    | 0.188                      | 8                            |             |                              |             |

| Annular Material                   |      |                   |                        |                 |
|------------------------------------|------|-------------------|------------------------|-----------------|
| Depth from Surface<br>Feet to Feet | Fill | Fill Type Details | Filter Pack Size       | Description     |
| 0                                  | 20   | Bentonite         | Non Hydrated Bentonite | 3/8 Hole Plug   |
| 20                                 | 250  | Other Fill        | See description.       | No Annular Fill |

**Other Observations:**

### Borehole Specifications

| Depth from Surface<br>Feet to Feet |     | Borehole Diameter (inches) |
|------------------------------------|-----|----------------------------|
| 0                                  | 20  | 12                         |
| 20                                 | 250 | 7.875                      |

### Attachments

WellReport\_05222017\_1\_20170619\_091403.pdf - WCR Final

### Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name WATSON WELL DRILLING  
 Person, Firm or Corporation  
500 Summer Street Eureka CA 95501  
 Address City State Zip  
 Signed electronic signature received 04/24/2017 1014048  
 C-57 Licensed Water Well Contractor Date Signed C-57 License Number

### DWR Use Only

|  |  |
|--|--|
|  |  |
|--|--|

#### Site Number / State Well Number

|  |  |  |  |  |  |   |
|--|--|--|--|--|--|---|
|  |  |  |  |  |  | N |
|--|--|--|--|--|--|---|

Latitude Deg/Min/Sec

|  |  |  |  |  |  |  |   |
|--|--|--|--|--|--|--|---|
|  |  |  |  |  |  |  | W |
|--|--|--|--|--|--|--|---|

Longitude Deg/Min/Sec

TRS:

APN:

State of California  
**Well Completion Report**  
WCR Form - DWR 188 Complete 06/19/2017  
WCR2017-001203

Owner's Well Number Well #2 Date Work Began 04/17/2017 Date Work Ended 04/17/2017  
Local Permit Agency Humboldt County Department of Health & Human Services - Land Use Program  
Secondary Permit Agency \_\_\_\_\_ Permit Number 16/17-0453 Permit Date 11/02/2016

| Well Owner (must remain confidential pursuant to Water Code 13752) |                             |       |                            |
|--|-----------------------------|-------|----------------------------|
| Name   | <u>XXXXXXXXXXXXXXXXXXXX</u> |       |                            |
| Mailing Address  | <u>XXXXXXXXXXXXXXXXXXXX</u> |       |                            |
|  | <u>XXXXXXXXXXXXXXXXXXXX</u> |       |                            |
| City   | <u>XXXXXXXXXXXXXXXXXXXX</u> | State | <u>XX</u> Zip <u>XXXXX</u> |

| Planned Use and Activity |                              |
|--------------------------|------------------------------|
| Activity                 | <u>New Well</u>              |
| Planned Use              | <u>Water Supply Domestic</u> |

| Well Location                   |                                     |                        |                                      |          |  |
|---------------------------------|-------------------------------------|------------------------|--------------------------------------|----------|--|
| Address <u>47730 Mattole RD</u> |                                     |                        | APN <u>107-054-035</u>               |          |  |
| City <u>Honeydew</u>            | Zip <u>95545</u>                    | County <u>Humboldt</u> | Township <u>02</u>                   | <u>S</u> |  |
| Latitude _____ N                | Longitude _____ W                   |                        | Range <u>01</u>                      | <u>E</u> |  |
| Deg.    Min.    Sec.            | Deg.    Min.    Sec.                |                        | Section <u>31</u>                    |          |  |
| Dec. Lat. _____                 | Dec. Long. _____                    |                        | Baseline Meridian <u>Humboldt</u>    |          |  |
| Vertical Datum _____            | Horizontal Datum <u>WGS84</u>       |                        | Ground Surface Elevation _____       |          |  |
| Location Accuracy _____         | Location Determination Method _____ |                        | Elevation Accuracy _____             |          |  |
|                                 |                                     |                        | Elevation Determination Method _____ |          |  |

| Borehole Information                         |                           |
|--|---------------------------|
| Orientation <u>Vertical</u>                  | Specify _____             |
| Drilling Method <u>Direct Rotary</u>         | Drilling Fluid <u>Air</u> |
| Total Depth of Boring <u>310</u> Feet        |                           |
| Total Depth of Completed Well <u>20</u> Feet |                           |

| Water Level and Yield of Completed Well                 |                                     |
|---|-------------------------------------|
| Depth to first water _____                              | (Feet below surface)                |
| Depth to Static _____                                   |                                     |
| Water Level _____                                       | (Feet) Date Measured _____          |
| Estimated Yield* _____                                  | (GPM) Test Type _____               |
| Test Length _____                                       | (Hours) Total Drawdown _____ (Feet) |
| *May not be representative of a well's long term yield. |                                     |

| Geologic Log - Free Form           |     |                |
|------------------------------------|-----|----------------|
| Depth from Surface<br>Feet to Feet |     | Description    |
| 0                                  | 2   | Topsoil        |
| 2                                  | 310 | Grey Sandstone |

| Casings  |                                    |    |             |                 |                        |                            |                              |             |                              |             |
|----------|------------------------------------|----|-------------|-----------------|------------------------|----------------------------|------------------------------|-------------|------------------------------|-------------|
| Casing # | Depth from Surface<br>Feet to Feet |    | Casing Type | Material        | Casings Specifications | Wall Thickness<br>(inches) | Outside Diameter<br>(inches) | Screen Type | Slot Size if any<br>(inches) | Description |
| 1        | 0                                  | 20 | Blank       | Stainless Steel | N/A                    | 0.188                      | 8                            |             |                              |             |

| Annular Material                   |      |                   |                        |                 |
|------------------------------------|------|-------------------|------------------------|-----------------|
| Depth from Surface<br>Feet to Feet | Fill | Fill Type Details | Filter Pack Size       | Description     |
| 0                                  | 20   | Bentonite         | Non Hydrated Bentonite | 3/8 Hole Plug   |
| 20                                 | 310  | Other Fill        | See description.       | No Annular Fill |

**Other Observations:**

### Borehole Specifications

| Depth from Surface<br>Feet to Feet |     | Borehole Diameter (inches) |
|------------------------------------|-----|----------------------------|
| 0                                  | 20  | 12                         |
| 20                                 | 310 | 7.875                      |

### Attachments

WellReport\_05222017\_1\_20170619\_111933.pdf - WCR Final

### Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name WATSON WELL DRILLING  
 Person, Firm or Corporation  
500 Summer Street Eureka CA 95501  
 Address City State Zip  
 Signed electronic signature received 04/24/2017 1014048  
 C-57 Licensed Water Well Contractor Date Signed C-57 License Number

### DWR Use Only

|  |  |
|--|--|
|  |  |
|--|--|

#### Site Number / State Well Number

|  |  |  |  |  |  |   |
|--|--|--|--|--|--|---|
|  |  |  |  |  |  | N |
|--|--|--|--|--|--|---|

Latitude Deg/Min/Sec

|  |  |  |  |  |  |  |   |
|--|--|--|--|--|--|--|---|
|  |  |  |  |  |  |  | W |
|--|--|--|--|--|--|--|---|

Longitude Deg/Min/Sec

TRS:

APN:

State of California  
**Well Completion Report**  
WCR Form - DWR 188 Complete 06/23/2017  
WCR2017-000727

Owner's Well Number 2 Date Work Began 01/18/2017 Date Work Ended 01/24/2017  
Local Permit Agency Humboldt County Department of Health & Human Services - Land Use Program  
Secondary Permit Agency \_\_\_\_\_ Permit Number 16/17-0453 Permit Date 11/02/2016

| Well Owner (must remain confidential pursuant to Water Code 13752) |  |       |                            |
|--|--|-------|----------------------------|
| Name   | <u>XXXXXXXXXXXXXXXXXXXX</u>                                |       |                            |
| Mailing Address  | <u>XXXXXXXXXXXXXXXXXXXX</u><br><u>XXXXXXXXXXXXXXXXXXXX</u> |       |                            |
| City   | <u>XXXXXXXXXXXXXXXXXXXX</u>                                | State | <u>XX</u> Zip <u>XXXXX</u> |

| Planned Use and Activity |                              |
|--------------------------|------------------------------|
| Activity                 | <u>New Well</u>              |
| Planned Use              | <u>Water Supply Domestic</u> |

| Well Location     |                               |                  |   |
|-------------------|-------------------------------|------------------|---|
| Address           | <u>360 Hilde LN</u>           |                  | APN <u>107-054-005</u>                      |
| City              | <u>Honeydew</u>               | Zip <u>95545</u> | County <u>Humboldt</u> Township <u>02 S</u> |
| Latitude          | <u>          </u> N           | Longitude        | <u>          </u> W                         |
|                   | Deg. Min. Sec.                | Deg. Min. Sec.   | Range <u>01 E</u>                           |
| Dec. Lat.         | Dec. Long.                    |                  | Section <u>31</u>                           |
| Vertical Datum    | Horizontal Datum <u>WGS84</u> |                  | Baseline Meridian <u>Humboldt</u>           |
| Location Accuracy | Location Determination Method |                  | Ground Surface Elevation _____              |
|                   |                               |                  | Elevation Accuracy _____                    |
|                   |                               |                  | Elevation Determination Method _____        |

| Borehole Information          |   |
|-------------------------------|---|
| Orientation                   | <u>Vertical</u> Specify _____                           |
| Drilling Method               | <u>Other - Casing Advance</u> Drilling Fluid <u>Air</u> |
| Total Depth of Boring         | <u>220</u> Feet   |
| Total Depth of Completed Well | <u>220</u> Feet   |

| Water Level and Yield of Completed Well                 |  |
|---|--|
| Depth to first water                                    | <u>50</u> (Feet below surface)                   |
| Depth to Static   | _____  |
| Water Level   | <u>32</u> (Feet) Date Measured <u>01/25/2017</u> |
| Estimated Yield*  | <u>45</u> (GPM) Test Type <u>Air Lift</u>        |
| Test Length   | _____ (Hours) Total Drawdown _____ (Feet)        |
| *May not be representative of a well's long term yield. |  |

| Geologic Log - Free Form           |     |                          |
|------------------------------------|-----|--------------------------|
| Depth from Surface<br>Feet to Feet |     | Description              |
| 0                                  | 2   | Top Soil                 |
| 2                                  | 50  | Brown Clay w/Gravel      |
| 50                                 | 195 | Fractured Blue Sandstone |
| 195                                | 220 | Black Shale              |

| Casings  |                                    |     |                         |                  |                        |                            |                              |             |                              |             |
|----------|------------------------------------|-----|-------------------------|------------------|------------------------|----------------------------|------------------------------|-------------|------------------------------|-------------|
| Casing # | Depth from Surface<br>Feet to Feet |     | Casing Type             | Material         | Casings Specifications | Wall Thickness<br>(inches) | Outside Diameter<br>(inches) | Screen Type | Slot Size if any<br>(inches) | Description |
| 1        | 0                                  | 20  | Blank                   | Low Carbon Steel | N/A                    | 0.188                      | 8                            |             |                              |             |
| 2        | 0                                  | 40  | Blank                   | Low Carbon Steel | N/A                    | 0.188                      | 6                            |             |                              |             |
| 2        | 40                                 | 80  | Other: Knife Cut Screen | Other            | N/A                    | 0.188                      | 6                            |             | 0.25                         |             |
| 2        | 80                                 | 100 | Blank                   | Low Carbon Steel | N/A                    | 0.188                      | 6                            |             |                              |             |
| 2        | 100                                | 140 | Other: Knife Cut Screen | Low Carbon Steel | N/A                    | 0.188                      | 6                            |             | 0.25                         |             |
| 2        | 140                                | 160 | Blank                   | Low Carbon Steel | N/A                    | 0.188                      | 6                            |             |                              |             |
| 2        | 160                                | 180 | Other: Knife Cut Screen | Low Carbon Steel | N/A                    | 0.188                      | 6                            |             | 0.25                         |             |
| 2        | 180                                | 200 | Blank                   | Low Carbon Steel | N/A                    | 0.188                      | 6                            |             |                              |             |
| 2        | 200                                | 220 | Other: Knife Cut Screen | Low Carbon Steel | N/A                    | 0.188                      | 6                            |             | 0.25                         |             |



### Annular Material

| Depth from Surface<br>Feet to Feet |     | Fill       | Fill Type Details      | Filter Pack Size | Description     |
|------------------------------------|-----|------------|------------------------|------------------|-----------------|
| 0                                  | 20  | Bentonite  | Non Hydrated Bentonite | 0.375            | Non-Hydrated    |
| 20                                 | 220 | Other Fill | See description.       |                  | No Annular Fill |

Other Observations:

### Borehole Specifications

| Depth from Surface<br>Feet to Feet |     | Borehole Diameter (inches) |
|------------------------------------|-----|----------------------------|
| 0                                  | 20  | 12                         |
| 20                                 | 150 | 7.5                        |
| 150                                | 220 | 7.44                       |

### Certification Statement

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief

Name WATSON WELL DRILLING  
 Person, Firm or Corporation  
500 Summer Street      Eureka      CA      95501  
 Address      City      State      Zip  
 Signed electronic signature received      03/07/2017      1014048  
 C-57 Licensed Water Well Contractor      Date Signed      C-57 License Number

### Attachments

WellReport\_05222017\_1\_20170623\_145830.pdf - WCR Final

### DWR Use Only

|  |  |
|--|--|
|  |  |
|--|--|

Site Number / State Well Number

|  |  |  |  |  |   |  |  |  |  |  |   |
|--|--|--|--|--|---|--|--|--|--|--|---|
|  |  |  |  |  | N |  |  |  |  |  | W |
|--|--|--|--|--|---|--|--|--|--|--|---|

Latitude Deg/Min/Sec

Longitude Deg/Min/Sec

TRS:

APN:

## Humboldt County, South Part, California

### 646—Wirefence-Windynip-Devilshole complex, 5 to 30 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1lpq7

*Elevation:* 200 to 3,280 feet

*Mean annual precipitation:* 60 to 100 inches

*Mean annual air temperature:* 48 to 57 degrees F

*Frost-free period:* 240 to 300 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Wirefence and similar soils:* 35 percent

*Windynip and similar soils:* 30 percent

*Devilshole and similar soils:* 20 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Wirefence

##### Setting

*Landform:* Ridges

*Landform position (two-dimensional):* Summit, backslope

*Landform position (three-dimensional):* Mountaintop

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Colluvium and residuum derived from sandstone

##### Typical profile

*A1 - 0 to 11 inches:* loam

*A2 - 11 to 21 inches:* loam

*A3 - 21 to 33 inches:* gravelly loam

*AB - 33 to 46 inches:* gravelly loam

*Bw - 46 to 63 inches:* very gravelly fine sandy loam

*C - 63 to 79 inches:* very gravelly fine sandy loam

##### Properties and qualities

*Slope:* 5 to 30 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Available water supply, 0 to 60 inches:* High (about 9.1 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4e

*Hydrologic Soil Group:* B

*Ecological site:* F004B1106CA - High precipitation mountain slopes

*Hydric soil rating:* No

### Description of Windynip

#### Setting

*Landform:* Ridges

*Landform position (two-dimensional):* Summit, shoulder

*Landform position (three-dimensional):* Mountaintop

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Colluvium and residuum derived from sandstone and mudstone

#### Typical profile

*A1 - 0 to 5 inches:* loam

*A2 - 5 to 12 inches:* clay loam

*A3 - 12 to 20 inches:* clay loam

*AB - 20 to 33 inches:* clay loam

*Bt1 - 33 to 59 inches:* gravelly clay loam

*Bt2 - 59 to 79 inches:* very gravelly clay loam

#### Properties and qualities

*Slope:* 5 to 30 percent

*Surface area covered with cobbles, stones or boulders:* 0.0 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately low to moderately high (0.06 to 0.60 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Available water supply, 0 to 60 inches:* Moderate (about 8.3 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4e

*Hydrologic Soil Group:* C

*Ecological site:* R004B1202CA - Loamy Uplands

*Hydric soil rating:* No

### Description of Devilshole

#### Setting

*Landform:* Ridges

*Landform position (two-dimensional):* Summit, shoulder

*Landform position (three-dimensional):* Mountaintop  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear, convex  
*Parent material:* Residuum weathered from sandstone and/or mudstone

#### **Typical profile**

*A - 0 to 4 inches:* gravelly loam  
*ABt - 4 to 16 inches:* very gravelly loam  
*Bt - 16 to 28 inches:* very gravelly loam  
*BCt - 28 to 47 inches:* extremely gravelly loam  
*C - 47 to 61 inches:* gravel

#### **Properties and qualities**

*Slope:* 5 to 30 percent  
*Surface area covered with cobbles, stones or boulders:* 0.0 percent  
*Depth to restrictive feature:* 39 to 59 inches to strongly contrasting textural stratification  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.14 to 1.42 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Low (about 4.3 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* B  
*Ecological site:* R004BI203CA - Loamy-skeletal Uplands  
*Hydric soil rating:* No

#### **Minor Components**

##### **Yorknorth, moist**

*Percent of map unit:* 6 percent  
*Landform:* Mountain slopes  
*Landform position (two-dimensional):* Backslope, footslope  
*Landform position (three-dimensional):* Mountainflank  
*Down-slope shape:* Concave, linear  
*Across-slope shape:* Concave, linear  
*Hydric soil rating:* No

##### **Crazycoyote**

*Percent of map unit:* 5 percent  
*Landform:* Mountain slopes  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Center third of mountainflank  
*Down-slope shape:* Concave, convex, linear  
*Across-slope shape:* Linear

*Hydric soil rating:* No

**Rainbear**

*Percent of map unit:* 4 percent

*Landform:* Mountain slopes, ridges

*Landform position (two-dimensional):* Shoulder

*Landform position (three-dimensional):* Mountainflank

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Humboldt County, South Part, California

Survey Area Data: Version 10, Sep 6, 2021