ATTACHMENT 4D Well Report Final

LINDBERG GEOLOGIC CONSULTING

Post Office Box 306 Cutten California 95534 (707) 442-6000

June 6, 2022 Project No: 0469.00

High Point Honeydew Farm, Inc. Attention: Mr. Evan Kouchalakos 74 Amherst Road Merrimack, New Hampshire 03054

Subject: Hydrologic Isolation of Existing Well from Surface Waters

47730 Mattole Road, Honeydew, APN: 107-054-036, WCR2021-005628

To Whom It May Concern:

As requested, Lindberg Geologic Consulting has assessed an existing permitted well on the above-referenced parcel to estimate its potential for hydrologic connectivity with any adjacent springs, wetlands, and or surface waters, and if pumping this well could affect such waters in nearby water courses. Creeks in the vicinity of this well drain to the Upper North Fork Mattole River (Figure 1). A California-Certified Engineering Geologist visited this site on May 11, 2022, to observe the subject well and local site conditions. Based on our professional experience, our observations, and research, it is our opinion the subject well has a minimal likelihood of being hydrologically connected to nearby surface waters in any manner that could affect adjacent springs, wetlands, and or surface waters in the vicinity. We understand that the applicant plans to use water from this well to irrigate cannabis. We are not aware of the volume of water to be extracted or what the pumping schedule might be but expect that the applicant can supply that information.

By our estimation, this parcel 107-054-036 (Figure 2) encompasses approximately 39 acres. Based on our on-site GPS measurements, the site well is located approximately at latitude 40.25953° north, and longitude 124.11606° west (±9'). Site well is 200 feet deep, at an elevation of approximately 1,610 feet. As reported by the driller, this well is in Section 31, T2S, R1E, HB&M (Figures 1 and 2). Site well location is shown on Figures 1, 2, 3, 4, and 6. Two other wells were drilled on the parcel, but they did not encounter water and were not completed or developed. Driller's reports of well completion for the two "dry holes" are attached (WCR 2017-001202, and WCR2017-001203); these are the only "wells" within 1,000 feet of the site well.

Based on the Humboldt County WebGIS mapping, this well is approximately 600 feet from the nearest mapped surface waters, an unnamed west-flowing tributary of Upper North Fork Mattole River (Figure 1). Based on interpolation from the USGS Bull Creek topographic quadrangle map (Figure 1), and the Humboldt County WebGIS, well elevation is approximately 1,610 feet above sea level. At the nearest point to the site well, the elevation of the Upper North Fork Mattole River tributary is approximately 1,470 feet. The elevation of the bottom of the well is approximately 1,410 feet which is 60 feet lower than the elevation of the unnamed tributary of Upper North Fork Mattole River at the nearest point, based on the Humboldt County WebGIS map.

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Three springs are mapped in Section 31 on the 1970 USGS Bull Creek topographic quadrangle map (Figure 1). From the site well, the nearest mapped spring appears to be approximately 400 feet northwest, at an elevation of approximately 1,560 feet, on or near the property line between the subject parcel and parcel 107-054-035. There is a second spring within 1,000 of the property on parcel 107-054-019. The spring on -019 is approximately 920 feet southeast of the site well and 450 feet southeast of the shared property line. We observed only one other spring mapped in Section 31, and that spring is estimated to be more than 1,500 feet northeast of the site well.

The site well was drilled by Fisch Well Drilling Inc. of Hydesville, California, in May 2021, under county permit #20/21-0761. Fisch Well Drilling is a licensed well-drilling contractor (C-57 #683865). Fisch Well Drilling submitted the well completion report (DWR 188) on May 7, 2021 (attached). Fisch Well Drilling estimated the yield of this well at 40 gallons per minute on April 30, 2021. Based on a four-hour air lift pump test, the total drawdown was reported to be 149 feet. The well location is shown on the attached Figure 1, 2, 3, 4, and 6.

Total drilled depth is 200 feet; borehole diameter is 10-inches. Low carbon steel pipe, 6-inches in diameter was installed from grade to 200 feet. A bentonite surface sanitary seal was installed to seal the upper 20 feet of the well. This well is screened from 50 to 63 feet. Screen consisted of low carbon steel with 0.032-inch milled slots. From 20 to 200, feet the annulus was backfilled with 3/8-inch pea gravel. The well is cased and sealed through any potential shallow subsurface aquifers. Depth to first water was reported as 51 feet below grade, and depth to static water in the completed and developed well was reported to be 43 feet bgs when the driller conducted the pump test on April 30, 2021.

On the geologic map (Figure 4), by McLaughlin et al. (2000), this area is underlain by a large Quaternary landslide developed in the Pliocene to late Cretaceous, rocks of the Coastal belt of the Franciscan Complex. Landslide materials consist of "Mélange-dominantly of highly folded argillite and abundant clayey, penetratively sheared rock that exhibits rounded, lumpy, and irregular, poorly incised topography." Basaltic rocks are also mapped to the south of the well site location such that the well site may be underlain in part by Late Cretaceous basaltic rock which may include "pillow flows, tuffs, flow breccias, and intrusives present as rare blocks or slabs in mélange. Basalt is tholeitic to alkalic in composition".

Materials reported on the geologic log of the driller's well completion report (attached) include one foot of "Top Soil" over 23 feet of "Brown Sand Stone". From the depth of 24 to 33 feet, the driller logged "Silty Clay, Sand" which was in turn underlain by 14 feet (33' – 47') of "Basalt (Rock) Floater". From 47 feet to 63 feet, which appears to be the first water-bearing unit, the driller logged "Brown Fractured sandstone & Blue Fractured Sandstone". This well is also screened through the 50- to 63-foot interval. The subsequent 118 feet of the site well was logged by the driller as "Shale Mulache" (presumably mélange). Below the shale mulache, from 181 feet to 200 feet, the driller logged "Fractured Shale". The site well is cased, not screened from 63 feet to the total depth (200').

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We interpret the brown and blue fractured sandstone section of this profile, from 47 feet to 63 feet to be the water bearing unit in the site well. Sandstones are commonly productive water-bearing aquifer materials, and when fractured can have high transmissivity and permeability. At the location of the site well, the elevation of the water-bearing aquifer unit is thus between approximately 1,563 feet and 1,547 feet.

Below the one foot of topsoil, the earth materials encountered in the boring are likely landslide materials as mapped by McLaughlin et al. (2000). The silty caly with sand from 24 to 33 feet materials may be expected to have a low hydraulic conductivity and constitute a significant aquitard. We interpret the underlying sequence of materials described by the driller (silty clay, sandstone, and mélange), as lithologies within the Coastal Belt of the Franciscan Complex. The fractured sandstone from 47 to 63 feet is expected to have a significantly higher hydraulic conductivity than the silty clay above or the mélange and shale below 63 feet. As mentioned, the fractured sandstone is the water bearing unit in this well, in our interpretation.

A hydrogeologic cross section of the area after McLaughlin et al. (2000) shows the structural and stratigraphic relationships between the local geologic units (Figure 5). The coastal belt mélange unit co1 is shown with foliation that dips steeply. On-site, no attitudes of the rock units could be observed in the soil-mantled landslide deposits. We interpret the slip plane of the large Quaternary landslide to be a hydrologic boundary of minimal permeability (due to the grinding and shearing that occurs along landslide slip planes) which effectively separates the landslide materials from the coastal belt Franciscan mélange, and limit groundwater flow between these fault-bound units.

In our professional opinion, based on our experience, observations, and review of pertinent and available information, this well has a low potential of having any direct connection to surface waters. First water was encountered at 51 feet. This well is sealed through the upper 20 feet of any potential unconfined, near-surface aquifers with which it might potentially communicate hydraulically through the borehole because the bentonite-sealed surface casing isolates the topsoil, and brown sandstone materials from the deeper fractured sandstone aquifer. When considered with the stratigraphy and geologic structure, distances (horizontal and vertically) from the nearest surface waters, depth of the producing zone of this well ($\sim 50^{\circ} - 63^{\circ}$), as well as its position relative to the nearest adjacent unnamed watercourse, we conclude that the depth of the surface seal is sufficient to preclude the potential for hydraulic connectivity with surface waters, of which there are none closer than 400 feet to the northwest on the subject parcel. Thus, the water source from which this well draws appears to be a confined subsurface aquifer in landslide deposits and not connected to any unconfined, near-surface aquifer(s). This well appears, in our professional opinion, likely to be hydraulically isolated from nearby wells, surface waters, springs or wetlands.

In our professional opinion, it appears that the aquifer tapped by the subject well is recharged by water infiltrating from source areas extending up to 2,500 feet upslope and east of the site well. As noted, the "Water Level and Yield of Completed Well" section of the Well Completion Report estimated the yield of this well at 40 gallons per minute (gpm) on April 30, 2021, with 149 feet of

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drawdown, after Fisch Drilling's four-hour air-lift pump test. At a rate of 40 gallons per minute, this well could potentially produce 57,600 gallons per day. As noted on the well completion report, this capacity may not be representative of this well's long-term yield.

As discussed, in our opinion the subject well does not appear to be hydrologically connected to, or capable of influencing surface water flows in the nearest tributary of Upper North Fork Mattole River. Nor does this well appear likely to be hydrologically connected to the nearby springs or ephemeral wetlands (if any). Given the horizontal distances involved, and the topographic and elevation differences between the water-producing zone in the subject well, and the nearest surface waters, the potential for hydrologic connectivity with groundwater in the deep bedrock aquifer appears low. Further, given the apparently limiting condition of 23 feet of low-transmissivity silty caly and basalt materials above the water-bearing fractured sandstone units, the water-producing zone is considered hydrologically isolated from, and not demonstrably connected to any other aquifer(s) in the surrounding coastal belt Franciscan deposits.

On the Bull Creek USGS topographic quadrangle map, as mentioned, the nearest mapped spring is to the northwest at an elevation of approximately 1,560 feet, and no closer than approximately 400 feet (Figure 1) on parcel 107-054-036. This spring is the nearest mapped spring to the site well and is at an elevation higher than the bottom of the well. At 1,560 feet, the elevation of the spring is close to the elevation of the static water level in the well. Given the cross-slope location of the spring in a separate drainage swale, and that recharge likely comes from upslope, these two water sources are likely independent of each other. There is one other spring approximately 920 feet southeast of the site well at an elevation of 1,690 feet, or 80 feet higher than the site well. There do not appear to be any other springs or wetlands within 1,000 feet of this subject well.

We researched the California Department of Water Resources (DWR) database to determine if there were other wells within 1,000 feet of the subject well on our client's property. There are two "dry holes" on this subject parcel (WCR2017-001202 and WCR2017-001203, attached). In Section 31 (T2S, R1E), we found one other well in the Department of Water Resources (DWR) database; the well completion report is attached. On APN 107-054-005, a parcel to the east of the subject property, there is a well (WCR2017-000727) that was drilled in January 2017. Well WCR2017-000727 is more than 2,000 feet from the subject well and is 220 feet deep. No other permitted wells were recorded in Section 31 in the California Department of Water Resources database.

The Natural Resources Conservation Service's, online Web Soil Survey, shows the subject well to be located within the Wirefence-Windynip-Devilshole soil complex (#646, Figure 6), which is described as well-drained loam, gravelly loam, and very gravelly fine sandy loam. The Web Soil Survey Unit description is attached to this report. Mean annual precipitation in the area is listed as 60 to 100 inches per year. Capacity of the most limiting layer to transmit water (Ksat) is described as moderately high to high (0.60 to 2.00 in/hr). with a depth to water table of more than 80 inches. If just ten percent of 60 inches of precipitation is absorbed by the soils and does not flow across

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the surface to local watercourses, then approximately 19.5 acre-feet, or 6.35 million gallons, of water per year may be expected to recharge the local aquifer below this 39-acre subject property. The potentially available recharge area upslope of the site well is estimated at 35 acres (from the Humboldt County WebGIS) which could generate 17.5 acre-feet or 5.7 million gallons of water per year. Thus, in our opinion, five to six million gallons of water per year may be considered sustainable, in this hydrogeologic setting.

On the 28th of March, 2022, our governor issued an executive order (N-7-22) relating to the ongoing drought California is experiencing. In his executive order, the governor outlined several measures the state will undertake to avoid and ameliorate the negative impacts of the current drought. Among these measures, it was ordered that counties, cities, and other public agencies have been prohibited from approving permits for new groundwater wells (or alteration of existing wells) in basins "subject to the Sustainable Groundwater Management Act and classified as medium- or high-priority without first obtaining written verification from a Groundwater Sustainability Agency managing the basin or area of the basin where the well is proposed". Your well at 47730 Mattole Road is not within a groundwater basin subject to the Act, and there has been no Groundwater Sustainability Agency established with authority over your permitted well.

Further, the Order states that counties, cities, and other public agencies have been prohibited from issuing permits for new groundwater wells (or alteration of existing wells) "without first determining that extraction of groundwater from the proposed well is (1) not likely to interfere with the production and functioning of existing nearby wells, and (2) not likely to cause subsidence that would adversely impact or damage nearby infrastructure". These orders are not applicable to "wells that provide less than two acre-feet per year of groundwater for individual domestic users, or that will exclusively provide groundwater to public water supply systems."

Based on our professional experience, observations, and research, it is our opinion that the well at 47730 Mattole Road has a low likelihood of being hydrologically connected to nearby surface waters or wells in any manner that might affect adjacent wetlands, wells, and or surface waters in the vicinity. The well in not expected to interfere with the production or functioning of any existing permitted wells nearby and is very unlikely to cause subsidence that might adversely impact or damage nearby infrastructure.

Please contact us if you have questions or concerns regarding our findings and conclusions.

Sincerely,

David N. Lindberg, CEG Lindberg Geologic Consulting

DNL:sll

LINDBERG GEOLOGIC CONSULTING

(707) 442-6000

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Attachments:

Figure 1: Topographic Project Location Map

Figure 2: Humboldt County Assessor's Parcel Map

Figure 3: Satellite Image of Well Site

Figure 4: Geologic Map

Figure 4a: Geologic Map Explanation
Figure 5: Hydrogeologic Cross Section
Figure 6: USDA-NRCS Soil Map

State of California Well Completion Reports:

Site Well: WCR2021-005628

"Dry Holes" on Parcel 107-054-035: WCR2107-001202 and WCR2017-001203

Nearest other well: WCR-2017-000727 on 107-054-005, 360 Hilde Lane

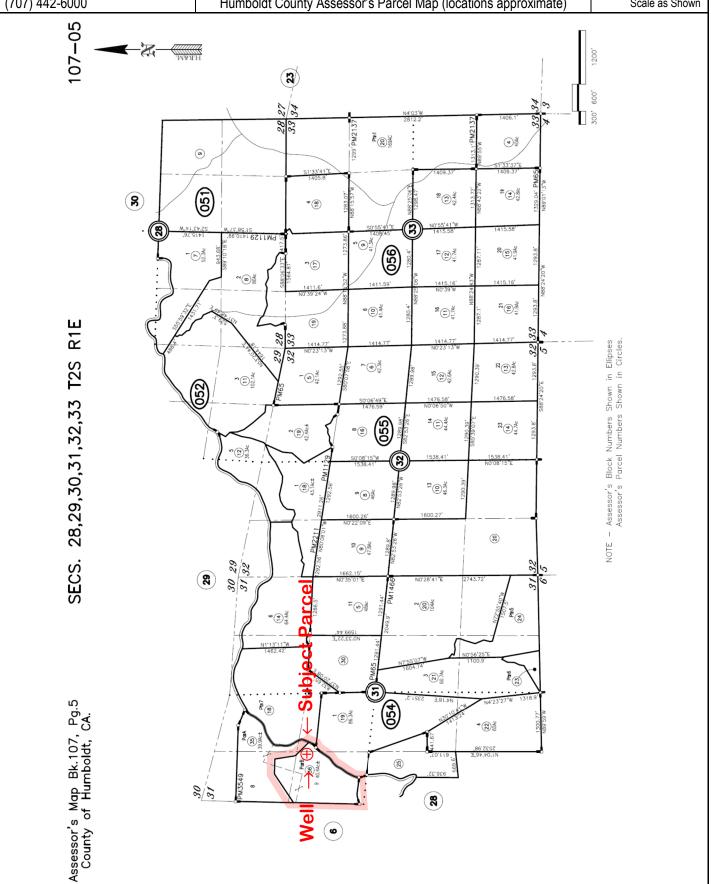
Web Soil Survey, NRCS Unit Description:

Wirefence-Windynip-Devilshole, 5 to 30 percent slopes.

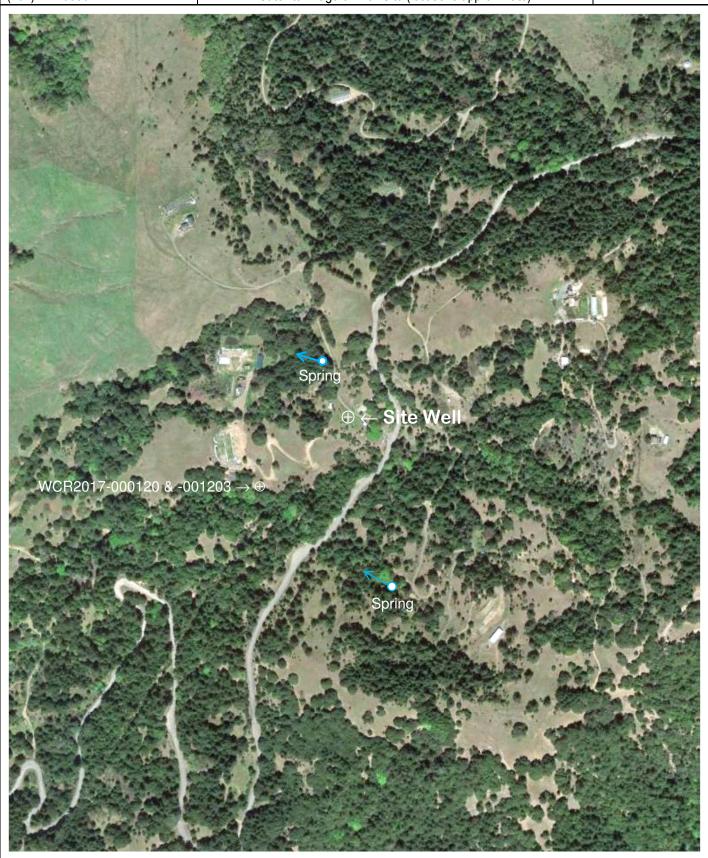
Lindberg Geologic Consulting	Engineering-Geologic Hydrogeologic Well Isolation Report	Figure 1
Post Office Box 306	47730 Mattole Road, Honeydew, Humboldt County, California	June 6, 2022
Cutten, CA 95534	APN 107-054-036, High Point Honeydew Farm, Inc.	Project 0469.00
(707) 442-6000	Topographic Project Location Map (locations approximate)	1" ≈ 1,800′
Springs Rids Corral 24 Ada Ada Topper	19 20 5pring 20 500 500 500 500 500 500 500 500 500	
HUMBOLDT MERIDIAN	Springs 29 ROAD ROAD Site Well ×338 mring 32	BM 2337 Windy Nip Gap
BM 864 Powder Flat	1600	1600_

Modified from: USGS "Bull Creek, Calif.", 7.5' Topographic Quadrangle Map, 1970. $N \approx \Omega$

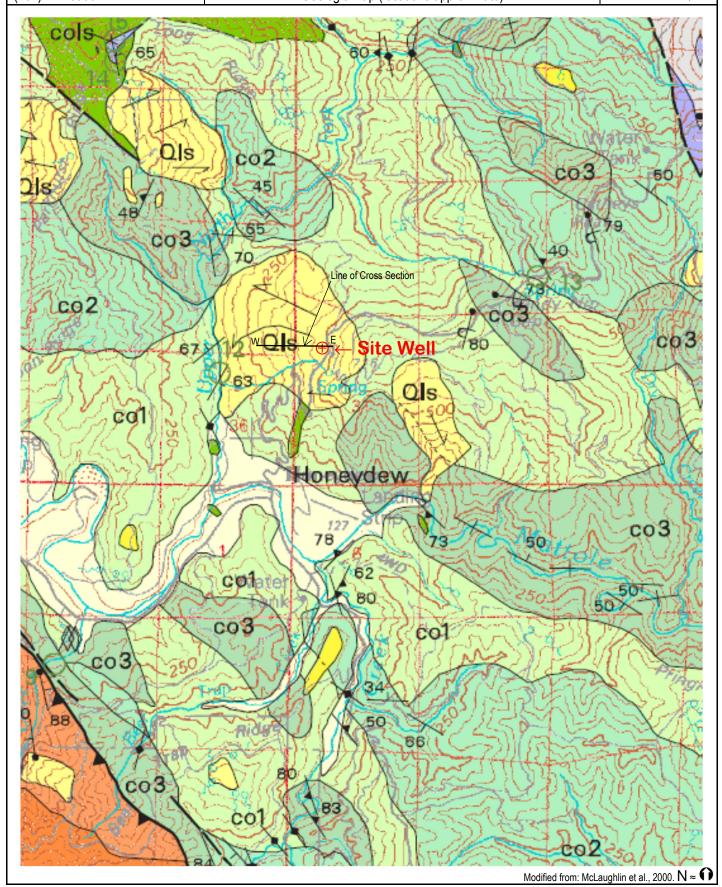
Lindberg Geologic Consulting	Engineering-Geologic Hydrogeologic Well Isolation Report	Figure 2
Post Office Box 306	47730 Mattole Road, Honeydew, Humboldt County, California	June 6, 2022
Cutten, CA 95534	APN 107-054-036, High Point Honeydew Farm, Inc.	Project 0469.00
(707) 442-6000	Humboldt County Assessor's Parcel Map (locations approximate)	Scale as Shown



Lindberg Geologic Consulting	Engineering-Geologic Hydrogeologic Well Isolation Report	Figure 3
Post Office Box 306	47730 Mattole Road, Honeydew, Humboldt County, California	June 6, 2022
Cutten, CA 95534	APN 107-054-036, High Point Honeydew Farm, Inc.	Project 0469.00
(707) 442-6000	Satellite Image of Well Site (locations approximate)	1" ≈ 500'



Lindberg Geologic Consulting	Engineering-Geologic Hydrogeologic Well Isolation Report	Figure 4
Post Office Box 306	47730 Mattole Road, Honeydew, Humboldt County, California	June 6, 2022
Cutten, CA 95534	APN 107-054-036, High Point Honeydew Farm, Inc.	Project 0469.00
(707) 442-6000	Geologic Map (locations approximate)	1" ≈ 4,000'

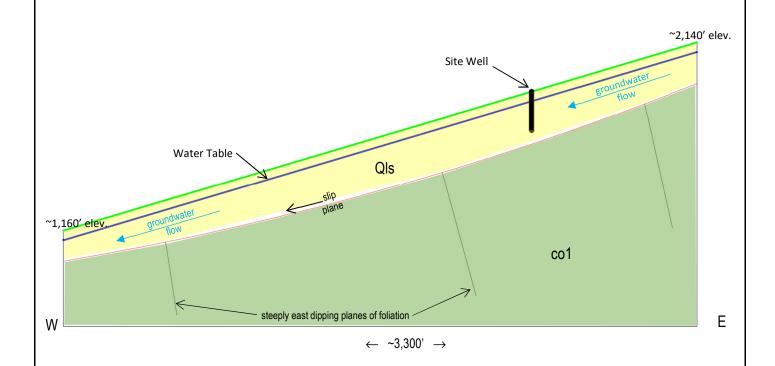


Lindberg Geologic Consulting	Engineering-Geologic Hydrogeologic Well Isolation Report	Figure 4a
P. O. Box 306	47730 Mattole Road, Honeydew, Humboldt County, California	June 6, 2022
Cutten, CA 95534	APN 107-054-036, High Point Honeydew Farm, Inc.	Project 0469.00
(707) 442-6000	Geologic Map Explanation	No Scale

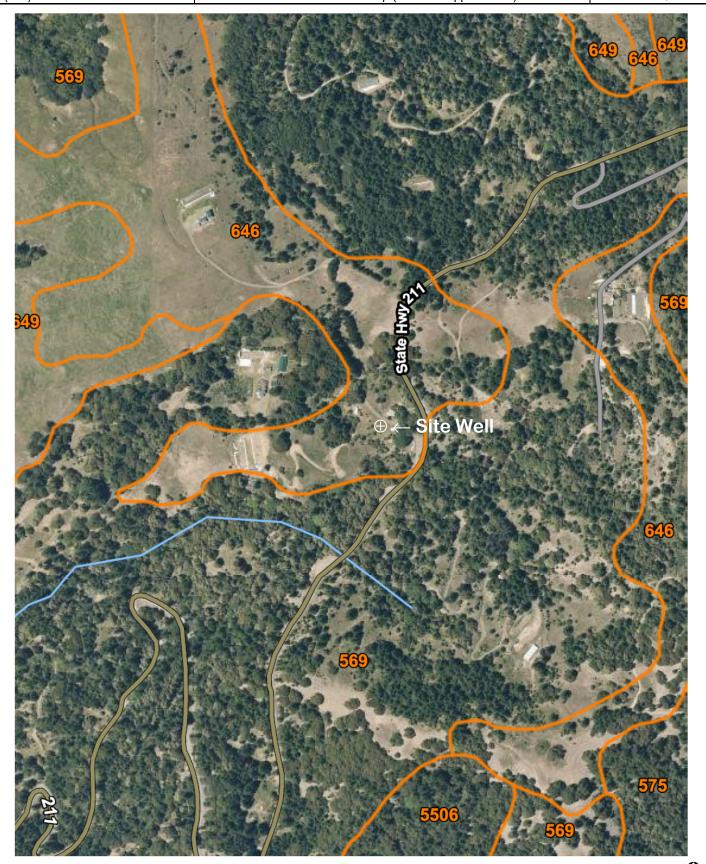
(707) 442	2-6000		Geologic Map Explanation			No Scal		
	DESCRIPTION OF MAP UNITS GREAT VALLEY SEQUENCE OVERLAP ASSEMBLAGE							
	QUATERNARY AND TERTIARY OVERLA	AP DEPOSITS				Hayfork terrane		
Qal	Alluvial deposits (Holocene and late Pleistocene?)		Chert (Late Cretaceous to Early Jurassic)		Eastern Hayfork subterra	ine:		
	Undeformed marine shoreline and aolian deposit		Basaltic rocks (Cretaceous and Jurassic)	eh	Melange and broken for (early? Middle Jurassic)	mation		
Qm	(Holocene and late Pleistocene)	m	Undivided blueschist blocks (Jurassic?)	ehls	Limestone			
Qt	Undifferentiated nonmarine terrace deposits (Holocene and Pleistocene)	gs	Greenstone	ehsp	Serpentinite			
Qls	Landslide deposits (Holocene and Pleistocene)	C	Metachert		Western Hayfork subter	ane:		
QTog	Older alluvium (Pleistocene and [or] Pliocene)	yb	Metasandstone of Yolla Bolly terrane, undivided	whu		site of Irwin (1985), undivided		
QTw	Marine and nonmarine overlap deposits (late Pleistocene to middle Miocene)	b	Melange block, lithology unknown		(Middle Jurassic)	Peak of Wright and Fahan, 1988)		
Ti	Volcanic rocks of Fickle Hill (Oligocene)		Eastern Belt	whwg	pluton (Middle Jurassic)	Peak of Wright and Fahan, 1988)		
	-		Pickett Peak terrane (Early Cretaceous or older)	whwp	Clinopyroxenite			
	COAST RANGES PROVINC FRANCISCAN COMPLEX	<u>:E</u>	Metasedimentary and metavolcanic rocks of the Pickett Peak terrane (Early Cretaceous or older):	whji	Diorite and gabbro plut	ons (Middle? Jurassic)		
	Coastal Belt	ppsm	South Fork Mountain Schist			ttlesnake Creek terrane		
	Coastal terrane(Pliocene to Late Creta	ceous) mb	Chinquapin Metabasalt Member (Irwin and others, 1974)	rcm	Melange (Jurassic and o	lder)		
	Sedimentary, igneous, and metamorphic rocks of Coastal terrane (Pliocene to Late Cretaceous):	the ppv	Valentine Springs Formation	rcls	Limestone			
co1	Melange	mv	Metabasalt and minor metachert	rcc	Radiolarian chert	Trip and all		
co2	Melange		Yolla Bolly terrane (Early Cretaceous to Middle Jurassic?)	rcis	Volcanic Rocks (Jurassic Intrusive complex (Early			
co3	Broken sandstone and argillite		Metasedimentary and metaigneous rocks of the Yolla Bolly terrane (Early Cretaceous to Middle Jurassic?):	rcic	Plutonic rocks (Early Jura			
co4	Intact sandstone and argillite	ybt	Taliaferro Metamorphic Complex of Suppe and Armstrong (1972)	rcum	Ultramafic rocks (age un			
cob	Basaltic Rocks (Late Cretaceous)	ybt	(Early Cretaceous to Middle Jurassic?)	rcpd	Blocky peridotite			
cols	Limestone (Late Cretaceous)	ybc	Chicago Rock melange of Blake and Jayko (1983) (Early Cretaceous to Middle Jurassic)			estern Klamath terrane		
m	Undivided blueschist (Jurassic?)	gs	Greenstone		Smith River subterrane:			
	King Range terrane (Miocene to Late Cre	taceous) C	Metachert	srs	Galice? formation (Late .	lurassic)		
Krp	Igneous and sedimentary rocks of Point Delgada	(Late Cretaceous) ybh	Metagraywacke of Hammerhorn Ridge (Late Jurassic to Middle Jurassic)	srv	Pyroclastic andesite			
m	Undivided blueschist blocks (Jurassic?)	С	Metachert	srgb	Glen Creek gabbro-ultra and others (1974)	mafic complex of Irwin		
	Sandstone and argillite of King Peak (middle Miocene to Paleocene[?]):	gs	Greenstone	srpd	Serpentinized peridotite			
krk1	Melange and (or) folded argillite	sp	Serpentinite	sipu	Scipentinized periodic			
krk2	Highly folded broken formation	ybd	Devils Hole Ridge broken formation of Blake and Jayko (1983)			MAP SYMBOLS		
krk3	Highly folded, largely unbroken rocks	C	(Early Cretaceous to Middle Jurassic) Radiolarian chert		Contact			
krl	Limestone		Little Indian Valley argillite of McLaughlin and Ohlin (1984)	?				
krc	Chert	ybi	(Early Cretaceous to Late Jurassic)	▼ - ▼ - ▼ : ▼ !	Thrust fault Trace of the San Andrea	fault accordated		
krb	Basalt		<u>Yolla Bolly terrane</u>	?	with 1906 earthquake ru	pture		
	False Cape terrane (Miocene? to Oligo	cene?) yb	Rocks of the Yolla Bolly terrane, undivided		Strike and dip of beddin	g:		
fc	Sedimentary rocks of the False Cape terrane (Miocene? to Oligocene?)		GREAT VALLEY SEQUENCE AND COAST RANGE OPHIOLITE	10/ 20/	Inclined			
	Yager terrane (Eocene to Paleocene	<u>e?)</u>	Elder Creek(?) terrane	× ×	Vertical			
	Sedimentary rocks of the Yager terrane (Eocene to	o Paleocene?): ecms	Mudstone (Early Cretaceous)	⊕ ¹% ²%	Horizontal			
y1	Sheared and highly folded mudstone	_	Coast Range ophiolite (Middle and Late Jurassic):		Overturned Approximate			
y2	Highly folded broken mudstone, sandstone, and conglomeratic sandstone	ecg	Layered gabbro	20 10	Joint			
у3	Highly folded, little-broken sandstone,	ecsp	Serpentinite melange	10,	Strike and dip of cleavage	ie		
	conglomerate, and mudstone		Del Puerto(?) terrane	,	Shear foliation:			
Ycgl	Conglomerate	dame	Rocks of the Del Puerto(?) terrane:	10	Inclined			
	Central belt Melange of the Central belt (early Tertiary to Late	dpms	Mudstone (Late Jurassic) Coast Range ophiolite (Middle and Late Jurassic):	1	Vertical			
	Unnamed Metasandstone and meta-argillite	dpt	Tuffaceous chert (Late Jurassic)		Folds:			
	(Late Cretaceous to Late Jurassic):	dpb	Basaltic flows and keratophyric tuff (Jurassic?)	$\longleftarrow \!$	Synclinal or synformal a	cis		
cm1	Melange	dpd	Diabase (Jurassic?)	$\longleftarrow \updownarrow \longrightarrow$	Anticlinal or antiformal	ixis		
cm2	Melange	dpsp	Serpentinite melange (Jurassic?)	-	Overturned syncline			
cb1	Broken formation	sp	Undivided Serpentinized peridotite (Jurassic?)	(V)	Landslide			
cb2	White Pock metasandstone of Javke and others (1	1000)	KLAMATH MOUNTAINS PROVINCE	A	Melange Blocks:			
cwr	White Rock metasandstone of Jayko and others (1 (Paleogene and [or] Late Cretaceous)	1707)	Undivided Great Valley Sequence:	Δ	Serpentinite			
chr	Haman Ridge graywacke of Jayko and others (198	89) (Cretaceous?)	Sedimentary rocks (Lower Cretaceous)	\Diamond	Chert Blueschist			
cfs	Fort Seward metasandstone (age unknown)			0	Greenstone			
cls	Limestone (Late to Early Cretaceous)			O ¹⁰	Fossil locality and numb	er		
					-,			

GEOLOGY OF THE CAPE MENDOCINO, EUREKA, GARBERVILLE, AND SOUTHWESTERN PART OF THE HAYFORK 30 X 60 MINUTE QUADRANGLES AND ADJACENT OFFSHORE AREA, NORTHERN CALIFORNIA (McLaughlin et al., 2000)

Lindberg Geologic Consulting	Engineering-Geologic Hydrogeologic Well Isolation Report	Figure 5
Post Office Box 306	47730 Mattole Road, Honeydew, Humboldt County, California	June 6, 2022
Cutten, CA 95534	APN 107-054-036, High Point Honeydew Farm, Inc.	Project 0469.00
(707) 442-6000	Hydrogeologic Cross Section (locations approximate)	1" ≈ 500′



Lindberg Geologic Consulting	Engineering-Geologic Hydrogeologic Well Isolation Report	Figure 6
Post Office Box 306	47730 Mattole Road, Honeydew, Humboldt County, California	June 6, 2022
Cutten, CA 95534	APN 107-054-036, High Point Honeydew Farm, Inc.	Project 0469.00
(707) 442-6000	USDA-NRCS Soil Map (locations approximate)	Scale not Specified



Well Completion Report Form DWR 188 Auto-Completed 7/12/2021 WCR2021-005628

03/24/2021

Date Work Ended

04/30/2021

Date Work Began

Humboldt County Department of Health & Human Services - Land Use Program

Secondary Permit Agency						Permit	Numbe	er 20/21	-0761			P6	ermit Date 03/04	/2021
Well Ow	vner (must rer	nain co	nfide	ntial purs	uant to	Wate	er Code	e 1375	52)		Plann	ed Use and A	Activity
Name XX	(XXXXX	XXXXXXX	XXXXX								Activity	/ Nev	v Well	
Mailing Add	ress	XXXXXXX	XXXXXXX	XXXXX	(_	l Planne		Water Supply Irr	igation -
	-	XXXXXXX	XXXXXXX	XXXXX	(_	Fiailile	u USE	Agriculture	igation -
City XXXX	xxxxx	(XXXXXXX	XXXX			State	XX	Zip	XXXXX					_
						Wel	I Loc	ation						
Address	47730 I	Mattole RD								APN	N 10	7-054-03	36	
City Hon	neydew			Zip	95545	County	Hum	nboldt		Tow	nship	02 S		
Latitude	40	15	34.477	- N	Longitude	- -124	6	57.7	98 W	Ran	_	1 E		_
_	Deg.	Min.	Sec.	_	-	Deg.	Min.	Sec		Sect	_	31		
Dec. Lat.	40.2595	7696			Dec. Long.	-124.116	055				eline Me	ridian - ace Elev	Humboldt	
Vertical Dat	um			Ho	orizontal Datui	m WGS8	 84				ation Ad			
Location Acc	curacy			 Locatio	n Determinatio	on Method						•	ion Method	
		Borel	nole Info	ormat	ion				Nater	Leve	el and	l Yield	of Complete	d Well
Oniontation	\					£		Depth to				51	(Feet below sur	
Orientation	Vertic				Speci			Depth to		_			_	,
Drilling Meth		other - Unde Own Hole Ha		Drilling	Fluid Air			Water L	evel		43	(Feet)	Date Measured	04/30/2021
								Estimate	ed Yield*		40	(GPM)	Test Type	Air Lift
Total Depth	of Borin	ng 200			Feet			Test Ler	ngth _		4	(Hours)	Total Drawdown	149 (feet)
Total Depth	of Com	pleted Well	200		Feet			*May no	t be repr	esenta	ative of a	a well's lo	ong term yield.	
					Ge	eologic	Log ·	- Free	Form					
Depth fro Surface Feet to Fe	e							Descrip	otion					
0	1	Top Soil												

Brown Sand Stone

Basalt (Rock) Floater

Brown Fractured sandstone & Blue Fractured Sandstone

Silty Clay, Sand

Shale Mulache

Fractured Shale

24

33

47

63

181

200

24

33

47

63

181

Owner's Well Number

Local Permit Agency

	Casings									
Casing #		m Surface o Feet	Casing Type	Material	Casings Specificatons	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description
1	0	50	Blank	Low Carbon Steel	Grade: ASTM A53	0.188	6			
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 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 Feet to Feet		Borehole Diameter (inches)					
0	200	10					

	Certification Statement								
I, the under	I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief								
Name	Name FISCH DRILLING								
	Person, Firm or Corporation								
;	3150 JOHNSON ROAD	H١	YDESVILLE	CA	95547				
	Address		City	State	Zip				
Signed	electronic signature received 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						
State Well Number Site Code			Loca	Local Well Number		
		N				w
titude De	g/Min/Sec		Longitu	de Deg	/Min/Se	С
			State Well Number	State Well Number Site Code	State Well Number Site Code Loca	State Well Number Site Code Local Well Nu

Well Completion Report

WCR Form - DWR 188 Complete 06/19/2017 WCR2017-001202

Owner's Well Number Well #1	Date Work Began 04/1	18/2017		D	ate Work Ended	04/18/2017
Local Permit Agency Humboldt County Department of Health & Hull Secondary Permit Agency		Program 6/17-0453			Permit Date	11/02/2016
				_		
Well Owner (must remain confidential pursu	iant to Water Code 1	3/52)				e and Activity
Name XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				Activity	New Well	
Mailing Address XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				Planned	Use Water S	Supply Domestic
City XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	te XX Zip	XXXX	XX			
	Well Location	on				
Address 47730 Mattole RD			APN	107-05	54-035	
City Honeydew Zip 95545	County Humboldt		Towns	hip 02	S	
Latitude N Longitude			W Range	01	E	
Deg. Min. Sec.	Deg. Min.	Sec.	Section			
Dec. Lat. Dec. Long	g			ne Meridia	an <u>Humboldt</u> Elevation	:
Vertical Datum Horizontal Datum				on Accur		
Location Accuracy Location Determination Meth	nod		Elevati	on Deteri	mination Method	
Borehole Information		V	Vater Le	vel an	d Yield of (Completed Wall
Orientation Vertical	Specify		first water			elow surface)
	· · —	Depth to				
Drilling Method Direct Rotary Drilling Fluid Ai	11	Water Lev	vel		(Feet) Date N	
Total Depth of Boring 250 Feet		Estimated	_		(GPM) Test T	
Total Depth of Completed Well 20 Feet		Test Leng		-10	(Hours) Total [` ′
	`	"May not	be represent	ative of a	well's long term	yield.
	Geologic Log - Fro	ee Forn	n			
Depth from Surface Description						
Feet to Feet						
0 20 Topsoil						
20 250 Grey Sandstone						
	Casings		_			
Casing # Casing Type Material Feet to Feet	Casings Specifications	Wall Thickness (inches)	Outside Diameter (inches)	Scree Type		Description
1 0 20 Blank Stainless Steel N	N/A	0.188	8			
	Annular Mate	rial				
Depth from						
Surface Fill Fill Type Details Feet to Feet		Filt	er 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						
Su	th from rface to Feet	Borehole Diameter (inches)					
0 20		12					
20	250	7.875					

Certification Statement							
I, the unders	I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief						
Name	Name WATSON WELL DRILLING						
	Person, Firm or Corporation						
	500 Summer Street Eureka CA 95501						
	Address City State Zip						
Signed	electronic signature received C-57 Licensed Water Well Contractor						

Attachments
WellReport_05222017_1_20170619_091403.pdf - WCR Final

DWR I	Jse Only
Site Number / S	state Well Number
N	
Latitude Deg/Min/Sec	Longitude Deg/Min/Sec
TRS:	
APN:	

Well Completion Report

WCR Form - DWR 188 Complete 06/19/2017 WCR2017-001203

Own and a Mod Misses		Well #2		Data Warls Dance 04	1/47/004	7		D	ata Manis Francai	04/47/0047
Owner's Well Num	_		partment of Health 9 L	Date Work Began 04				— ^D	ate Work Ended	04/17/2017
Local Permit Ager Secondary Permit	· —	umbolat County Dep	darument of Fleatur & F		16/17-04				Permit Date	11/02/2016
Well	l Owns				40750			_	Diamaga I Ia	a and Activity
		•	confidential pur	suant to Water Code	13/52)				e and Activity
		XXXXXXXXX					_	Activity	New Well	
Mailing Address		(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					-	Planned	Use Water S	Supply Domestic
City XXXXXX		(XXXXXXX		tate XX Zip	X	XXXX	_			
				Well Locat	ion					
Address 47	730 Mattol	e RD		110110041			APN	107-05	54-035	
City Honeyde			Zip 95545	County Humboldt			- Towns			
Latitude	, v v		N Longitude	· · · ———		W	Range	· —	E	
Deg	_ _	Min. Sec.	N Longitude	Deg. Min.	Sec		Section	n 31		
Dec. Lat.			Dec. Lo					ne Meridia		
Vertical Datum			Horizontal Datu	um WGS84				d Surface ion Accur	Elevation	
Location Accura	су	Loca	tion Determination Me	ethod					mination Method	
		Borehole I	nformation			Wa	ter Le	vel an	d Yield of 0	Completed Wall
Orientation V	/ertical			Specify		h to first			(Feet be	low surface)
Drilling Method		Direct Rotary	Drilling Fluid	Air	1 '	h to Stat	tic		(F4) D-4- I	Accessed
					1	er Level nated Yie	eld*		(Feet) Date N (GPM) Test T	
Total Depth of B	oring	310	Fe	et	1	Length	-		(Hours) Total [
Total Depth of C	ompleted	Well 20	Fe	et		Ū	represent	ative of a	well's long term	` ′
				Geologic Log - F	ree F	orm				
Depth from										
Surface Feet to Feet	Des	scription								
0 2	Тор	soil								
2 310	Gre	y Sandstone								
				Casings						
Casing	th from	Casing Type	Material	Casings Specifications	Wa Thick		Outside Diameter	Scree Type		Description
. #	to Feet				(inch	nes)	(inches)	,,,	(inches)	
1 0	20	Blank	Stainless Steel	N/A	0.1	88	8			
				Annular Mat	erial					
Depth from Surface	_									
Feet to Feet		ill Fill Type	e Details			Filter P	Pack Size		Description	
0 20	Ben	tonite Non Hyd	Irated Bentonite						3/8 Hole Plug	
20 310	Othe	er Fill See des	cription.						No Annular Fill	
Other Observa	itions:									

	Borehole Specifications						
Su	h from rface to Feet	Borehole Diameter (inches)					
0 20		12					
20	310	7.875					

Certification Statement							
I, the unders	I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief						
Name	Name WATSON WELL DRILLING						
	Person, Firm or Corporation						
	500 Summer Street Eureka CA 95501						
	Address City State Zip						
Signed	electronic signature received C-57 Licensed Water Well Contractor						

Attachments
WellReport_05222017_1_20170619_111933.pdf - WCR Final

DWR Use Only				
Site Number / S	state Well Number			
N				
Latitude Deg/Min/Sec	Longitude Deg/Min/Sec			
TRS:				
APN:				

Well Completion Report

WCR Form - DWR 188 Complete 06/23/2017 WCR2017-000727

Owner's \	Owner's Well Number 2 Date Work Began 01/18/2017 Date Work Ended 01/24/2017										
Local Per	mit Agend	cy H	umboldt County Dep	partment of Health & F	luman Services - Land Us	e Program					
Secondar	ry Permit /	Agency			Permit Number	16/17-0453		Per	mit Date	11/02/2016	
	Well	Owne	r (must remain	confidential pur	suant to Water Code	13752)		Plar	nned Us	se and Activity	
Name XXXXXXXXXXXXXXXXX								Activity	New Well		
Mailing Address XXXXXXXXXXXXXXXXX								Planned Use	Water S	Supply Domestic	
	Planned Use Water Supply Domestic Water Supply Domestic										
City _	XXXXXX	XXXXXX	XXXXXXX	S	tate XX Zip	XXXXX					
					Well Loca	tion					
Address	s 360	Hilde LN					APN	107-054-00	15		
	Honeyde			Zip 95545	County Humboldt		_		S		
' -	-	···			• •	Range 01 F					
Latitude	Deg.		Min. Sec.	N Longitude	Deg. Min.	Sec.	Section	31			
Dec. La	_	IN.	7iii1. Gec.	Dec. Lo	-	066.	Baselin	e Meridian	Humboldt		
Vertical				Horizontal Datu			— Ground	Surface Elev	ation		
	n Accurac		Loca	ation Determination Me				on Accuracy			
		´ —					Elevati	on Determinat	ion Method		
			Borehole I	nformation		W	ater Lev	el and Y	ield of (Completed Wall	
Orienta	tion Ve	ertical			Specify	Depth to first water 50 (Feet below surface)					
						Depth to Static					
Drilling	Method	Othe	er - Casing Advance	Drilling Fluid	Air	Water Leve	el	32 (F	eet) Date N	Measured 01/25/2017	
	Estimated Yield* 45 (GPM) Test Type Air Lift						ype Air Lift				
	epth of Bo	_	220	Fe		Test Length	າ	(Ho	ours) Total [Orawdown (Feet)	
Total De	epth of Co	ompleted	Well 220	Fe	eet	*May not be	e represent	ative of a well	s long term	yield.	
					Geologic Log - F	ree Form					
Dent	th from	T			Occiogic Log - i	100 1 01111					
		Depth from Surface Description									
Feet	Feet to Feet										
1			•								
0	2	Тор	Soil								
2	2 50	Top	Soil wn Clay w/Gravel								
2 50	2 50 195	Top Bro Fra	o Soil wn Clay w/Gravel ctured Blue Sandsto	ne							
2	2 50	Top Bro Fra	Soil wn Clay w/Gravel	ne							
2 50	2 50 195	Top Bro Fra	o Soil wn Clay w/Gravel ctured Blue Sandsto	ne	Casing	S					
2 50	2 50 195 220 Depth Sur	Top Bro Fra	o Soil wn Clay w/Gravel ctured Blue Sandsto	one Material	Casing:	Wall Thickness (inches)	Outside Diameter (inches)	Screen Type	Slot Size if any (inches)	Description	
2 50 195	2 50 195 220 Depth Sur	Top Bro Fra Blac n from face	o Soil wn Clay w/Gravel ctured Blue Sandsto	I	I	Wall Thickness	Diameter		if any	Description	
2 50 195 Casing	2 50 195 220 Depth Sur Feet t	Top Bro Fra Blad from face o Feet	o Soil wn Clay w/Gravel ctured Blue Sandsto ck Shale Casing Type	Material	Casings Specifications	Wall Thickness (inches)	Diameter (inches)		if any	Description	
2 50 195 Casing #	2 50 195 220 Depth Surr Feet t 0	Blace o Feet 20	ck Shale Casing Type Blank	Material Low Carbon Steel	Casings Specifications	Wall Thickness (inches)	Diameter (inches)		if any	Description	
2 50 195 Casing # 1 2	2 50 195 220 Depth Sur Feet t 0 0	Fran Blace o Feet 20 40	Casing Type Blank Blank Other: Knife	Material Low Carbon Steel Low Carbon Steel	Casings Specifications N/A N/A	Wall Thickness (inches) 0.188	Diameter (inches)		if any (inches)	Description	
2 50 195 Casing # 1 2	2 50 195 220 Depth Sur Feet t 0 0 40	Top Bro Fra Blad from face 0 Feet 20 40 80	Casing Type Blank Blank Other: Knife Cut Social	Material Low Carbon Steel Low Carbon Steel Other	Casings Specifications N/A N/A N/A	Wall Thickness (inches) 0.188 0.188 0.188	Diameter (inches) 8 6		if any (inches)	Description	
2 50 195 Casing # 1 2 2	2 50 195 220 Depth Sur Feet t 0 0 40 80	France o Feet 20 40 80 100	Casing Type Blank Blank Other: Knife Cut Screen Blank Other: Knife Cut Screen Blank Blank	Material Low Carbon Steel Low Carbon Steel Other Low Carbon Steel	Casings Specifications N/A N/A N/A N/A	Wall Thickness (inches) 0.188 0.188 0.188 0.188	Barreter (inches) 8 6 6		if any (inches)	Description	
2 50 195 Casing # 1 2 2 2	2 50 195 220 Depth Sur Feet t 0 0 40 80 100	Top Bro Fra Black Fra Black Fra From Fra	Casing Type Blank Blank Other: Knife Cut Screen Blank Other: Knife Cut Screen Cut Screen	Material Low Carbon Steel Low Carbon Steel Other Low Carbon Steel Low Carbon Steel	Casings Specifications N/A N/A N/A N/A N/A N/A	Wall Thickness (inches) 0.188 0.188 0.188 0.188 0.188	Barreter (inches) 8 6 6 6		if any (inches)	Description	
2 50 195 Casing # 1 2 2 2 2	2 50 195 220 Depth Sur Feet t 0 0 40 80 100 140	Top Bro Fra: Bla: Fra: Bla: Fra: Fr	Casing Type Blank Blank Other: Knife Cut Screen	Material Low Carbon Steel Low Carbon Steel Other Low Carbon Steel Low Carbon Steel Low Carbon Steel	Casings Specifications N/A N/A N/A N/A N/A N/A N/A N/	Wall Thickness (inches) 0.188 0.188 0.188 0.188 0.188 0.188	Barreter (inches) 8 6 6 6 6		if any (inches) 0.25	Description	

Page ____1 ___ of ___2

Annular Material					
Depth Surf Feet to		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 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	Name WATSON WELL DRILLING					
	Person, Firm or Corporation					
	500 Summer Street Eureka CA 95					
	Address	City		St	ate	Zip
Signed	electronic signature received			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			
L	atitude 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

Settina

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: F004BI106CA - 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: R004BI202CA - 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