OMSBERG & PRESTON
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25-2364

November 19, 2025

Adam Molofsky
c/o Humboldt County Division of Environmental Health
100 H Street, Suite 100
Eureka, CA 95501

Re: **Onsite Well Production Report for Siena Nelson Subdivision**
APN 313-081-028 / 1288 Hatchery Road, Arcata

Dear Adam:

On September 26, 2025, well production testing was completed by this office at the above-referenced property. The existing, onsite well yielded 3.0 gallons/minute for the required period of twelve (12) hours with a recovery period of three (3) hours (refer to the attached test data sheets). The existing water well demonstrates sufficient, and sustainable capacity to meet the minimum water supply requirements of 1.0 gallons/minute (gpm) per dwelling unit for the two (2) parcels associated with this subdivision.

Thank you, and please do not hesitate to contact me with any questions or comments you may have.

Sincerely,

OMSBERG & PRESTON

Kimberley D. Preston, R.C.E 62665
Owner / Manager

DRY WEATHER WATER PRODUCTION TEST DRAWDOWN DATA

Owner: Siena Nelson **APN:** 313-081-028

Well Location latitude: 40.86717 **longitude:** -123.99615

1/4	1/4	1/4	**Section:** 31	**Township** 6 N N / S	**Range** 2 E E / W

Type of Water Measuring Equipment: Tape & Sounder **Date Test Performed:** 9/26/25

Company Performing Test: Omsberg & Preston **Measured By**: JAK

TIME DATA	WATER LEVEL DATA	DISCHARGE DATA
PUMP ON Date: 9/26/25 Time: 8:00 am (t_0) **PUMP OFF** Date: 9/26/25 Time: 8:00 pm (t_1) **DURATION OF AQUIFER TEST** Pumping: 12 hrs Recovery: 3 hrs	**STATIC WATER LEVEL:** 21.60' **MEASURING POINT:** Top of Casing **HEIGHT OF MEASURING POINT ABOVE GROUND:** 6"	**HOW WAS DISCHARGE MEASURED?** Ball Valve & Flow Meter **DEPTH OF PUMP/AIRLINE:** 30'

Pumping Data: 3.0 gallons/minute for 720 minutes **Specific Capacity:** 2,160 gallons for this test

Date	Clock Time	Time Since Pump Started (min.) t_0	Pumping Water Level Measurement (ft)	Pump Rate (discharge) gpm	Comments on Factors Affecting Test Data
9/26	8:00 am	1	21.60	3	Ball valve and flow meter set for 3 GPM
		2	21.63		
		3	21.67		
		4	21.70		
		5	21.80		
		6	21.86		
		7	21.90		
		8	21.93		
		9	21.96		
		10	21.98		
		15	22.15		
		20	22.31		
		25	22.47		
		30	22.60		
		35	22.83		
		40	22.96		
		45	23.05		
	9:00 am	60	23.10		
		75	23.19		
		90	23.19		
	10:00 am	120	23.19		
		150	23.19		
	11:00 am	180	23.19		
	12:00 pm	240	23.19		

DRY WEATHER WATER PRODUCTION TEST DRAWDOWN DATA

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Well Location latitude: 40.86717 **longitude:** -123.99615

1/4	1/4	1/4	**Section:** 31	**Township** 6 N N / S	**Range** 2 E E / W

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PUMP ON Date: 9/26/25 Time: 8:00 am (t_0) **PUMP OFF** Date: 9/26/25 Time: 8:00 pm (t_1) **DURATION OF AQUIFER TEST** Pumping: 12 hrs Recovery: 3 hrs	**STATIC WATER LEVEL:** 21.60' **MEASURING POINT:** Top of Casing **HEIGHT OF MEASURING POINT ABOVE GROUND:** 6"	**HOW WAS DISCHARGE MEASURED?** Ball Valve & Flow Meter **DEPTH OF PUMP/AIRLINE:** 30'

Pumping Data: 3.0 gallons/minute for 720 minutes **Specific Capacity:** 2,160 gallons for this test

Date	Clock Time	Time Since Pump Started (min.) t_0	Pumping Water Level Measurement (ft)	Pump Rate (discharge) gpm	Comments on Factors Affecting Test Data
9/26	1:00 pm	300	23.19	3	
	2:00 pm	360	23.19		
	3:00 pm	420	23.19		
	4:00 pm	480	23.19		
	5:00 pm	540	23.19		
	6:00 pm	600	23.19		
	7:00 pm	660	23.19		
	8:00 pm	720	23.19		

DRY WEATHER WATER PRODUCTION TEST RECOVERY DATA

Owner: Siena Nelson **APN:** 313-081-028

Well Location latitude: 40.86717 **longitude:** -123.99615

1/4	1/4	1/4	**Section:** 31	**Township** 6 N N / S	**Range** 2 E E / W

Type of Water Measuring Equipment: Tape & Sounder **Date Test Performed:** 9/26/25

Company Performing Test: Omsberg & Preston **Measured By**: JAK

TIME DATA	WATER LEVEL DATA	DISCHARGE DATA
PUMP ON Date: 9/26/25 Time: 8:00 am (t_0) **PUMP OFF** Date: 9/26/25 Time: 8:00 pm (t_1) **DURATION OF AQUIFER TEST** Pumping: 12 hrs Recovery: 3 hrs	**STATIC WATER LEVEL:** 21.60 **MEASURING POINT:** Top of Casing **HEIGHT OF MEASURING POINT ABOVE GROUND:** 6"	**HOW WAS DISCHARGE MEASURED?** Ball Valve & Flow Meter **DEPTH OF PUMP/AIRLINE:** 30'

Recovery Data: Depth of 23.19' at start of recovery. Approximately 2,160 gallons were recovered within 2.5 hrs.

Date	Clock Time	Time Since Pump Shutoff (min.) t_1	Recovery Water Level Measurement (ft)	Comments on Factors Affecting Test Data
9/26	8:00 pm	1	23.00	
		2	22.98	
		3	22.94	
		4	22.85	
		5	22.77	
		6	22.76	
		7	22.74	
		8	22.73	
		9	22.71	
		10	22.70	
		15	22.68	
		20	22.67	
		25	22.66	
		30	22.64	
		35	22.62	
		40	22.60	
		45	22.58	
	9:00 pm	60	22.52	
		75	22.43	
		90	22.30	
	10:00 pm	120	22.00	
		150	21.65	
	11:00 pm	180	21.65	

Siena Nelson Water Well Production Test
1288 Hatchery Road
Arcata, CA 95521 **APN 313-081-028**

920' +/-

(E) Water Well

Mad River