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975 Transport Way, Suite 2  
Petaluma, CA 94954  
(707) 778-9605/FAX 778-9612  
e-mail: [entech@pacbell.net](mailto:entech@pacbell.net)

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COMPANY: Exact Scientific Services, Inc., 1355 Pacific Place, Suite 101, Ferndale, WA 98248				ANALYST(S)	SUPERVISOR
ATTN: Angela Roche & Keely Pedigo		DATE	DATE	DATE	S. Santos
JOB: 24-09453 (20240603-)		COLLECTED	RECEIVED	COMPLETED	L. Quijano
SITE: Old Fairhaven Parkway, Bellingham, Washington		6/3/2024	6/5/2024	6/13/2024	G. Conrad, PhD

## PARTICLE SIZE DISTRIBUTION (PSD) ANALYSIS &amp; REPORT – 5 PART

[illegible]

## COMMENTS

This water has a very low concentrations of TSS particles amounting to roughly 8-38 ppm in the submitted samples. The mode is strongly at the 1-5  $\mu$  fraction in the IN sample, but it shifts over to the 5-63  $\mu$  fraction in the OUT sample this time. The fraction next most abundant shifts accordingly. As a result, these two finest fractions comprise the great majority of the particulate matter (@ >78%-82%). There is a huge decline in abundance in the three coarser fractions being essentially in the 0.3%-12% range. Thus, the majority of the particles are in either the clay or silt size ranges with the noted shifting; and sand sized particles are least in abundance accounting for <3%-12% of the total particulate mass. The particulate distributions suggest a rapidly declining flow regime. This time declines are as follows: 70.0%; 70.0%; 80.0%; 50.9%; & 83.8%. The overall average reduction going from IN to OUT samples is just over 75% in this case. There is reasonably good agreement between the IN and IN-QA samples. There is good to excellent agreement among the TSS by summation and TSS by standard analytical method as is exhibited by the RPDs which are as follows: @  $\pm 3.1\%$ ; @  $\pm 12.6\%$ ; & @  $\pm 4.4\%$

\\ NOTES: Tests were done according to methodology as per Association of Testing Materials (ASTM): Suspended Sediment Concentration – Modified ASTM D3977 (Practice for Determining Suspended-Sediment Concentration in Water Samples). Standard Methods is followed for the other tests: Color - 2120 C; Spec Cond. (ECw) - 2510 B; Iron - 3500-Fe B; pH - 4500-H+ B; TRPH - 5520 C.