



**Dynamic Cone Penetrometer**  
Exploration Log

180067-02.03  
LDW21 Phase 2  
South Park marina, 8604 Dallas Ave S.

Location ID: LDW21-GT8-GD  
Performed By: A. Barrett, G. Timm  
Vert. Datum: NAD83  
Horiz. Datum: WA St. Plane N.  
Easting: 1275111.124  
Northing: 195841.496

Surface Elevation: 0.0  
Groundwater Depth: NA  
Hammer Weight: 35 lbs.  
Cone Area: 10 sq. cm  
Start Date 8/4/21  
End Date 8/5/21

Depth	Blows per 10 cm	Resistance (kg/cm <sup>2</sup> )	Dynamic Cone Resistance (kg/cm <sup>2</sup> )				Correlated SPT N-Value	Density/Consistency	
			0	50	100	150		Cohesionless	Cohesive
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
1 ft	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
2 ft	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
3 ft	0	0.0					0	V. Loose	V. Soft
1 m	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
4 ft	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
5 ft	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
6 ft	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
7 ft	0	0.0					0	V. Loose	V. Soft
2 m	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
8 ft	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
9 ft	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
10 ft	0	0.0					0	V. Loose	V. Soft
3 m	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
11 ft	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
12 ft	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
13 ft	0	0.0					0	V. Loose	V. Soft
4 m	0	0.0					0	V. Loose	V. Soft



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Surface Elevation:  
Groundwater Depth: NA

Depth	Blows per 10 cm	Resistance (kg/cm <sup>2</sup> )	Dynamic Cone Resistance (kg/cm <sup>2</sup> )				Correlated SPT N-Value	Density/Consistency	
			0	50	100	150		Cohesionless	Cohesive
-	0	0.0					0	V. Loose	V. Soft
-	0	0.0					0	V. Loose	V. Soft
14 ft	4	11.1	..				3	V. Loose	Soft
-	5	13.9	...				3	V. Loose	Soft
-	7	19.4	.....				5	Loose	M. Stiff
15 ft	13	36.0	.....				10	Loose	Stiff
-	24	66.5	.....				18	M. Dense	V. Stiff
-	41	113.6	.....				25+	Dense	Hard
16 ft	10	27.7	.....				7	Loose	M. Stiff
5 m	11	30.5	.....				8	Loose	M. Stiff
-									
17 ft									
-									
18 ft									
-									
19 ft									
6 m									
20 ft									
-									
21 ft									
-									
22 ft									
7 m									
23 ft									
-									
24 ft									
-									
25 ft									
-									
26 ft									
8 m									
27 ft									
-									
28 ft									



**Dynamic Cone Penetrometer**  
Exploration Log

200034-02.01  
Chelan PUD Multi-Park Stabilization  
Daroga State Park - Orondo, WA

Location ID: GT38-A  
Performed By: A. Barrett, G. Timm  
Vert. Datum: NAD83  
Horiz. Datum: WA St. Plane N.  
Easting: 1277389.19  
Northing: 1906166.48

Surface Elevation: 0.0  
Groundwater Depth: NA  
Hammer Weight: 35 lbs.  
Cone Area: 10 sq. cm  
Start Date 8/4/21  
End Date 8/5/21

Depth	Blows per 10 cm	Resistance (kg/cm <sup>2</sup> )	Dynamic Cone Resistance (kg/cm <sup>2</sup> )				Correlated SPT N-Value	Density/Consistency	
			0	50	100	150		Cohesionless	Cohesive
-	1	4.4	•				1	V. Loose	V. Soft
-	2	8.9	••				2	V. Loose	Soft
- 1 ft	3	13.3	•••				3	V. Loose	Soft
-	4	17.8	••••				5	Loose	M. Stiff
-	3	13.3	•••				3	V. Loose	Soft
- 2 ft	2	8.9	••				2	V. Loose	Soft
-	1	4.4	•				1	V. Loose	V. Soft
-	4	17.8	••••				5	Loose	M. Stiff
- 3 ft	4	17.8	••••				5	Loose	M. Stiff
- 1 m	3	13.3	•••				3	V. Loose	Soft
-	3	11.6	•••				3	V. Loose	Soft
- 4 ft	2	7.7	••				2	V. Loose	Soft
-	3	11.6	•••				3	V. Loose	Soft
-	3	11.6	•••				3	V. Loose	Soft
- 5 ft	4	15.4	••••				4	V. Loose	Soft
-	3	11.6	•••				3	V. Loose	Soft
-	3	11.6	•••				3	V. Loose	Soft
- 6 ft	3	11.6	•••				3	V. Loose	Soft
-	5	19.3	•••••				5	Loose	M. Stiff
- 2 m	7	27.0	•••••••				7	Loose	M. Stiff
- 7 ft									
- 8 ft									
- 9 ft									
- 3 m 10 ft									
- 11 ft									
- 12 ft									
- 4 m 13 ft									



**Dynamic Cone Penetrometer**  
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180067-02.03  
LDW21 Phase 2  
South Park marina, 8604 Dallas Ave S.

Location ID: GT38-B  
Performed By: A. Barrett, G. Timm  
Vert. Datum: NAD83  
Horiz. Datum: WA St. Plane N.  
Easting: 1277392.36  
Northing: 190614.83

Surface Elevation: 0.0  
Groundwater Depth: NA  
Hammer Weight: 35 lbs.  
Cone Area: 10 sq. cm  
Start Date 8/4/21  
End Date 8/5/21

Depth	Blows per 10 cm	Resistance (kg/cm <sup>2</sup> )	Dynamic Cone Resistance (kg/cm <sup>2</sup> )				Correlated SPT N-Value	Density/Consistency	
			0	50	100	150		Cohesionless	Cohesive
-	3	13.3	***				3	V. Loose	Soft
-	2	8.9	**				2	V. Loose	Soft
- 1 ft	1	4.4	.				1	V. Loose	V. Soft
-	2	8.9	**				2	V. Loose	Soft
-	2	8.9	**				2	V. Loose	Soft
- 2 ft	3	13.3	***				3	V. Loose	Soft
-	2	8.9	**				2	V. Loose	Soft
-	1	4.4	.				1	V. Loose	V. Soft
- 3 ft	4	17.8	****				5	Loose	M. Stiff
- 1 m	4	17.8	****				5	Loose	M. Stiff
-	2	7.7	**				2	V. Loose	Soft
- 4 ft	3	11.6	***				3	V. Loose	Soft
-	3	11.6	***				3	V. Loose	Soft
-	3	11.6	***				3	V. Loose	Soft
- 5 ft	4	15.4	****				4	V. Loose	Soft
-	3	11.6	***				3	V. Loose	Soft
-	3	11.6	***				3	V. Loose	Soft
- 6 ft	3	11.6	***				3	V. Loose	Soft
-	7	27.0	*****				7	Loose	M. Stiff
- 2 m	4	15.4	****				4	V. Loose	Soft
- 7 ft	3	10.3	**				2	V. Loose	Soft
-	9	30.8	*****				8	Loose	M. Stiff
-	5	17.1	****				4	V. Loose	Soft
- 8 ft	8	27.4	*****				7	Loose	M. Stiff
-	7	23.9	*****				6	Loose	M. Stiff
-	14	47.9	*****				13	M. Dense	Stiff
- 9 ft	15	51.3	*****				14	M. Dense	Stiff
-	16	54.7	*****				15	M. Dense	Stiff
-	19	65.0	*****				18	M. Dense	V. Stiff
- 3 m 10 ft	19	65.0	*****				18	M. Dense	V. Stiff
-	19	58.1	*****				16	M. Dense	V. Stiff
-	20	61.2	*****				17	M. Dense	V. Stiff
-	21	64.3	*****				18	M. Dense	V. Stiff
- 11 ft	28	85.7	*****				24	M. Dense	V. Stiff
-	23	70.4	*****				20	M. Dense	V. Stiff
-	18	55.1	*****				15	M. Dense	Stiff
- 12 ft	18	55.1	*****				15	M. Dense	Stiff
-	18	55.1	*****				15	M. Dense	Stiff
-	17	52.0	*****				14	M. Dense	Stiff
- 4 m 13 ft	24	73.4	*****				20	M. Dense	V. Stiff



**Dynamic Cone Penetrometer**  
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LDW21 Phase 2  
South Park marina, 8604 Dallas Ave S.

Location ID: GT38-B  
Performed By: A. Barrett, G. Timm

Surface Elevation:  
Groundwater Depth: NA

Depth	Blows per 10 cm	Resistance (kg/cm <sup>2</sup> )	Dynamic Cone Resistance (kg/cm <sup>2</sup> )				Correlated SPT N-Value	Density/Consistency	
			0	50	100	150		Cohesionless	Cohesive
-	29	80.3	.....				22	M. Dense	V. Stiff
-	25	69.3	.....				19	M. Dense	V. Stiff
- 14 ft	20	55.4	.....				15	M. Dense	Stiff
-	13	36.0	.....				10	Loose	Stiff
-	13	36.0	.....				10	Loose	Stiff
- 15 ft	10	27.7	.....				7	Loose	M. Stiff
-	8	22.2	.....				6	Loose	M. Stiff
-	5	13.9	...				3	V. Loose	Soft
- 16 ft	7	19.4	.....				5	Loose	M. Stiff
- 5 m	8	22.2	.....				6	Loose	M. Stiff
-									
- 17 ft									
-									
- 18 ft									
-									
- 19 ft									
- 6 m									
- 20 ft									
-									
- 21 ft									
-									
- 22 ft									
-									
- 7 m 23 ft									
-									
- 24 ft									
-									
- 25 ft									
-									
- 26 ft									
- 8 m									
- 27 ft									
-									
- 28 ft									