FOR INFORMATION ONLY

WHITMARSH LANDFILL REMEDIATION PROJECT

ANACORTES, WA

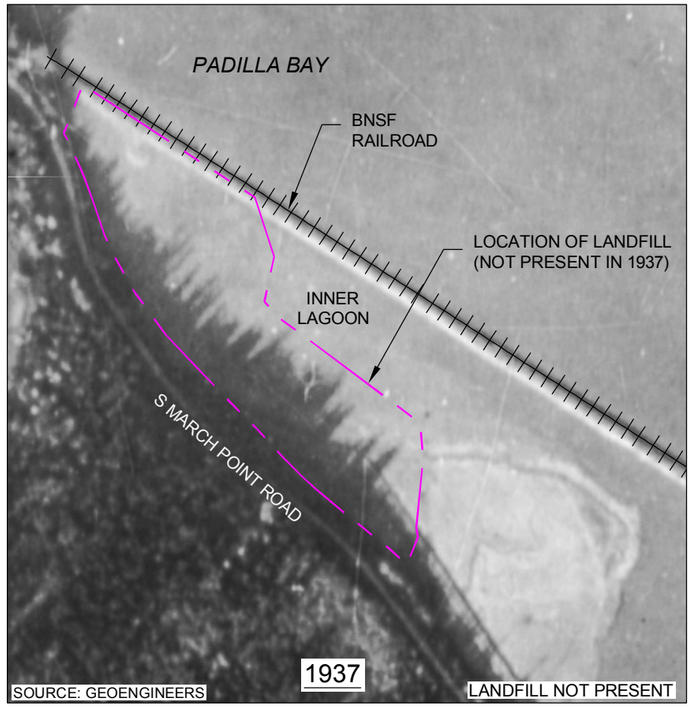
January 2025

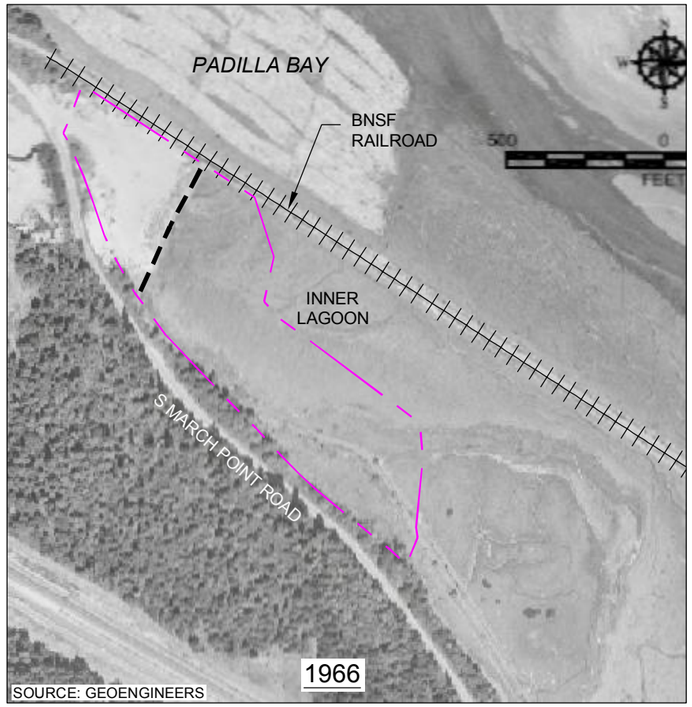
Historical Aerial Photos

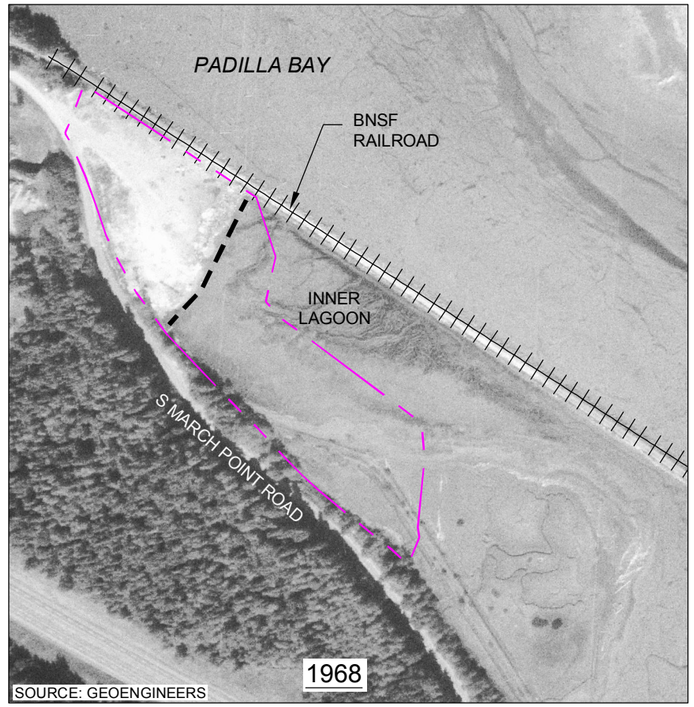
Sample Subsurface Exploration logs and Location Plan

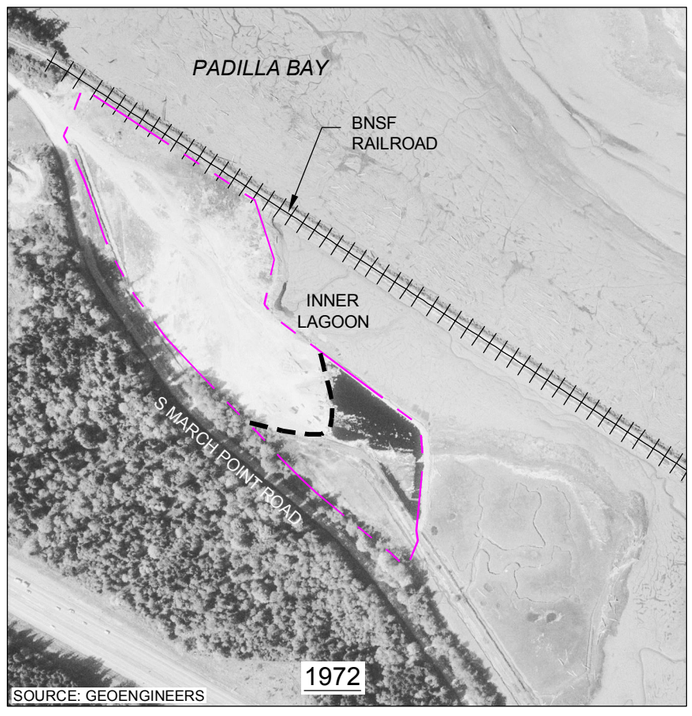
Sample Subsurface Photos

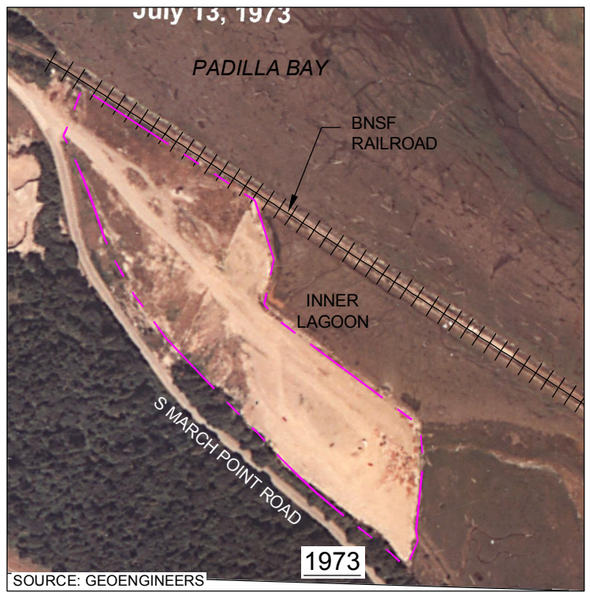
Relevant Low Tides 2025











EXPLANATION

- APPROXIMATE FOOTPRINT FORMER WHITMARSH LANDFILL
- APPROXIMATE EXTENT OF SOLID WASTE

N

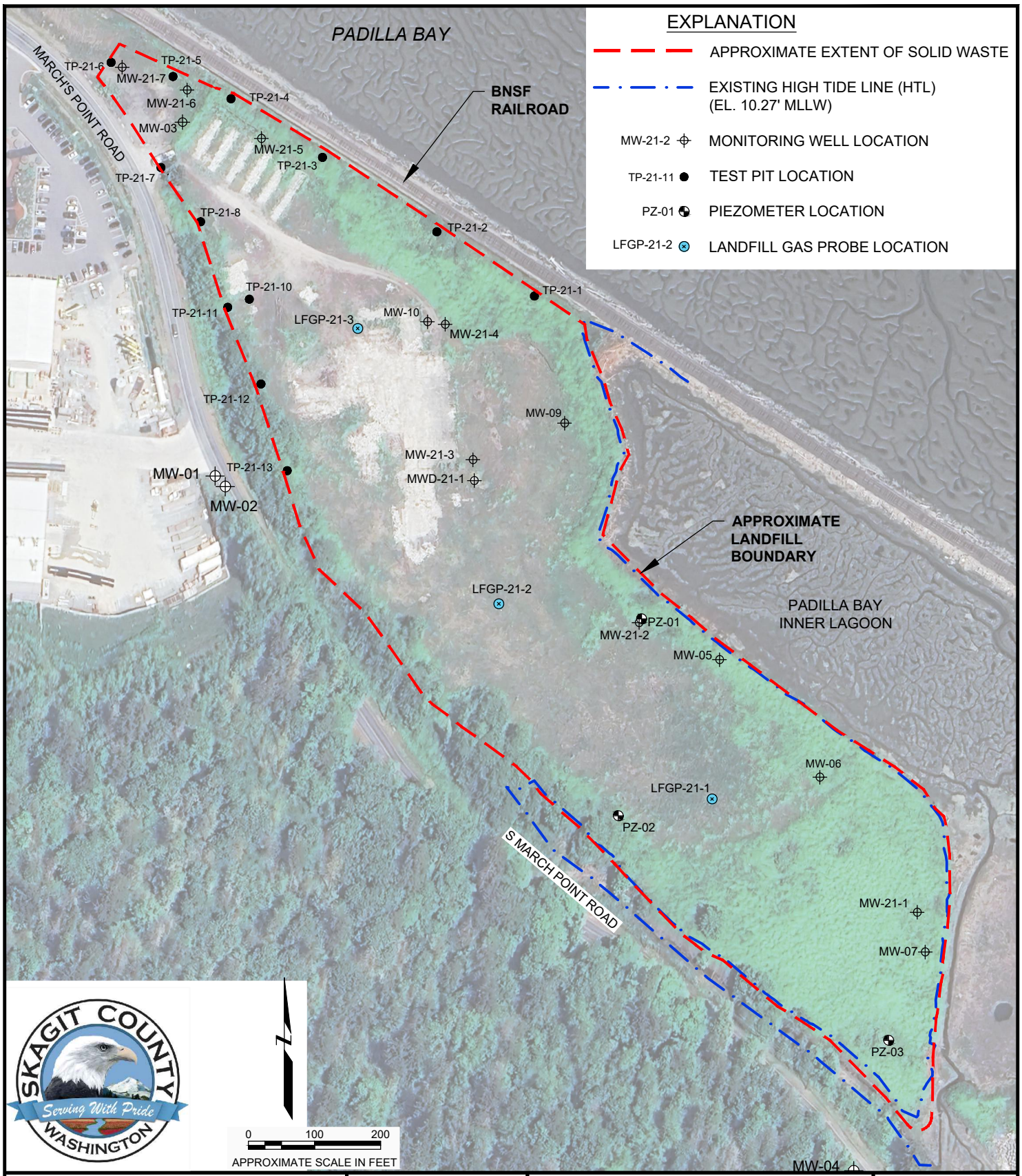
0 250 500

APPROXIMATE SCALE IN FEET

HISTORICAL AERIAL PHOTOGRAPHS
SHOWING FILLING OF LANDFILL
March Point (Whitmarsh) Landfill
Skagit County, Washington

By: APS	Date: 03/03/16	Project No. 14159
amec		Figure **ES-1**

Plot Date: 03/03/16 - 5:49pm Plotted by: adam.stenberg
Drawing Path: S:\14159\Aerial\Historical\ Drawing Name: Whitmarsh_Historical\Aerials_011411.dwg



SKAGIT COUNTY

WSP USA
Environment & Infrastructure Inc.
4020 Lake Washington Blvd NE, Suite 200
Redmond, Washington 98052

PROJECT
MARCH POINT (WHITMARSH) LANDFILL

TITLE
EXPLORATION LOCATIONS

DATE
OCTOBER 2023

SCALE
AS SHOWN

PROJECT NO.
PS21204410

FIGURE
1

DRAWN BY: APS CHECKED BY: TLP

C:\Users\USAS719374\OneDrive - WSP O365\Wood\Whitmarsh\Whitmarsh-MarchPoint_DesignDRAFT_103023-MLLW.dwg - ExplorationPlan - Oct. 30, 2023 2:23pm - USAS719374

Table A-1
Groundwater Elevations
Whitmarsh Landfill
Anacortes, Washington
PS21204410

			Oct-21		1/26/2022 Before Sampling		1/27/2022 After Sampling	
Moniting Well Identification	Ground Surface Elevation	Top of PVC Casing Elevation	Depth to Groundwater	Groundwater Elevation	Depth to Groundwater	Groundwater Elevation	Depth to Groundwater	Groundwater Elevation
MW-21-1	15.0	18.94	12.00	6.94	11.12	7.82	12.00	6.94
MW-21-2	16.9	20.35	10.90	9.45	9.73	10.62	10.76	9.59
MW-21-3	19.5	22.79	9.55	13.24	9.32	13.47	9.33	13.46
MWD-21-1	19.2	21.75	11.85	9.90	10.36	11.39	10.51	11.24
MW-21-4	25.7	27.76	14.59	13.17	14.24	13.52	14.25	13.51
MW-21-5	22.1	24.45	9.46	14.99	8.32	16.13	8.77	15.68
MW-21-6	21.4	23.63	8.55	15.08	7.87	15.76	8.03	15.60
MW-21-7	21.2	23.51	5.42	18.09	5.75	17.76	5.78	17.73

Notes:

1. Shaded Wells are a pair.

Table A-2
Groundwater Elevations
Landfill Gas Readings
Whitmarsh Landfill
Anacortes, Washington
PS21204410

	Monitoring Probe Identification		
Compound	LFPG-21-1	LFPG-21-2	LFPG-21-3
	27-Jan-22		
Carbon Monixide (CO)	0.0	0.0	0.0
Hydrogen Sulfide (H2S)	0.0	8.8	29.2
Oxygen (O)	8-13	0.7	2.1
Lower Explosive Level (LEL)	0.0	>99	>99
	21-May-22		
Carbon Monixide (CO)	NR	0.0	0.0
FID	NR	High	>10,000
Oxygen (O)	NR	6.0	18-21
Lower Explosive Level (LEL)	NR	>99	13.0

Notes:
1. Four gas meter was used in January and an FID was used in May.
2. FID = Flame Ionization Detector
3. NR-Not Read. Probe not found
4. Units of th values are in percentage, except FID, which is in parts per million (ppm).
5. Ambient air readings immediately next to the probe were normal.

TABLE A-3: SUMMARY OF PCL EXCEEDANCES IN GROUNDWATER AND SEEP SAMPLES[1, 2]
March Point (Whitmarsh) Landfill, Skagit County, Washington

Analyte	PCL	MW-21-1		MW-21-2		MW-21-3		MW-21-4		MW-21-5		MW-21-6		MW-21-7		DUP-1-102821	MWD-21-1		MW-21-DUP-012722
		MW-21-1-102721	MW-21-1-012622	MW-21-2-102821	MW-21-2-012622	MW-21-3-102821	MW-21-3-012622	MW-21-4-102821	MW-21-4-012722	MW-21-5-102821	MW-21-5-012722	MW-21-6-102821	MW-21-6-012722	MW-21-7-102821	MW-21-7-012722	DUP-1-102821	MWD-21-1-102821	MWD-21-1-012622	MW-21-DUP-012722
		10/27/21	01/26/22	10/28/21	01/26/22	10/28/21	01/26/22	10/28/21	01/27/22	10/28/21	01/27/22	10/28/21	01/27/22	10/28/21	01/27/22	10/28/21	10/28/21	01/26/22	01/27/22
Dissolved Metals (µg/L)																			
Arsenic	0.20	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	**3.5**	**3.7**	**3.5**	**7.3**	3.0 U	3.0 U
Barium	NA	**47**	**73**	**57**	**36**	**150**	**140**	**190**	**190**	25 U	25 U	**68**	**52**	25 U	25 U	25 U	25 U	25 U	**44**
Cadmium	NA	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Chromium	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Iron	1,000	**430**	**4,800**	**62,000**	**32,000**	**800**	**2,200**	**540**	**620**	**4,400**	**2,700**	**570**	**930 J**	56 U	56 U	56 U	**330**	56 U	**540 J**
Lead	2.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Mercury	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Selenium	5.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver	1.9	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Metals (µg/L)																			
Arsenic	0.20	3.3 U	**6.0**	3.3 U	3.3 U	3.3 U	3.3 U	**6.1**	3.3 U	**5.6**	3.3 U	**4.2**	3.3 U	**4.1**	**4.1**	**3.8**	**8.6**	3.3 U	3.3 U
Barium	NA	**83**	**110**	**96**	**93**	**250**	**250**	**270**	**290**	**64**	**31**	**150**	**120**	28 U	28 U	28 U	**29**	28 U	**130**
Cadmium	NA	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Chromium	NA	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	**12**	11 U	11 U
Iron	1,000	**12,000**	**17,000**	**85,000**	**79,000**	**20,000**	**22,000**	**17,000**	**14,000**	**16,000**	**9,000**	**17,000**	**17,000**	**900 J**	56 U	**630 J**	**4,600**	56 U	**16,000**
Lead	2.5	**6.5**	1.1 U	**2.8**	1.1 U	**5.0**	1.1 U	**9.4**	1.1 U	**42**	**2.1**	**16**	1.1 U	1.1 U	1.1 U	1.1 U	**1.4**	1.1 U	1.1 U
Mercury	0.20	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Selenium	NA	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U
Silver	1.9	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
PCBs (µg/L)																			
PCB-aroclor 1016	NA	0.050 U	0.053 U	0.050 U	0.054 U	0.051 U	0.050 U	0.25 UJ	5.6 UJ	0.96 UJ	4.9 UJ	0.25 UJ	5.2 UJ	0.053 U	0.049 U	0.051 U	0.050 U	0.049 U	5.3 UJ
PCB-aroclor 1221	NA	0.050 U	0.053 U	0.050 U	0.054 U	0.051 U	0.050 U	0.25 UJ	5.6 UJ	0.96 UJ	4.9 UJ	0.25 UJ	5.2 UJ	0.053 U	0.049 U	0.051 U	0.050 U	0.049 U	5.3 UJ
PCB-aroclor 1232	0.014	0.050 U	0.053 U	0.050 U	0.054 U	0.051 U	0.050 U	0.25 UJ	5.6 UJ	0.96 UJ	4.9 UJ	0.25 UJ	5.2 UJ	0.053 U	0.049 U	0.051 U	0.050 U	0.049 U	5.3 UJ
PCB-aroclor 1242	0.014	0.050 U	0.053 U	**0.057**	**0.11**	0.051 U	0.050 U	0.25 UJ	5.6 UJ	0.96 UJ	4.9 UJ	0.25 UJ	5.2 UJ	0.053 U	0.049 U	0.051 U	0.050 U	0.049 U	5.3 UJ
PCB-aroclor 1248	0.014	0.050 U	0.053 U	0.050 U	0.054 U	0.051 U	0.050 U	5.0 UJ	5.6 UJ	4.8 UJ	4.9 UJ	5.0 UJ	5.2 UJ	0.053 U	0.049 U	0.051 U	0.050 U	0.049 U	5.3 UJ
PCB-aroclor 1254	NA	0.050 U	0.053 U	0.050 U	0.054 U	0.051 U	0.050 U	0.25 UJ	0.56 UJ	0.96 UJ	0.49 UJ	0.25 UJ	0.52 UJ	0.053 U	0.049 U	0.051 U	0.050 U	0.049 U	0.53 UJ
PCB-aroclor 1260	NA	0.050 U	0.053 U	0.050 U	0.054 U	0.051 U	0.050 U	0.050 UJ	0.056 U	0.048 UJ	0.049 U	0.050 UJ	0.052 UJ	0.053 U	0.049 U	0.051 U	0.050 U	0.049 U	0.053 U
Pesticides (µg/L)																			
4,4'-DDD	0.0013	0.0050 U	0.0053 U	0.0050 U	0.0054 U	0.0051 U	0.0050 U	0.0050 U	0.0056 U	**0.59**	0.049 U	0.050 U	0.10 U	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	0.11 U
4,4'-DDE	0.0013	0.0050 U	0.0053 U	0.0050 U	**0.017**	0.0051 U	**0.0073**	**0.23 J**	**0.20**	**0.70**	**0.49 J**	**0.32 J**	**0.67 J**	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	**0.68 J**
4,4'-DDT	NA	0.0050 U	0.0053 U	0.0050 U	0.0054 U	0.0051 U	0.0050 U	**0.01 J**	**0.014 J**	0.048 U	**0.38**	0.050 U	0.10 U	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	**0.17 J**
Aldrin	NA	0.0020 U	0.0021 U	0.0020 U	0.0021 U	0.0020 U	0.0020 U	**0.33 J**	**0.43 J**	**0.22 J**	**0.68 J**	**3.2 J**	**2.1 J**	**0.0022 J**	**0.0028**	0.0020 U	0.0020 U	0.0020 U	**2.5 J**
alpha-BHC	0.00060	0.0050 U	0.0053 U	0.0050 U	0.0054 U	0.0051 U	0.0050 U	0.0050 U	**0.0073**	0.048 U	0.049 U	0.050 U	0.10 U	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	0.11 U
alpha-Chlordane	NA	0.0050 U	0.0053 U	0.0050 U	0.0054 U	0.0051 U	0.0050 U	0.0050 U	0.0056 U	0.048 U	0.049 U	**0.28 J**	0.10 U	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	0.11 U
beta-BHC	NA	0.0050 U	0.0053 U	0.0050 U	**0.017**	0.0051 U	0.0050 U	0.0050 U	0.0056 U	**0.058**	0.049 U	**0.10 J**	0.10 U	0.0053 U	**0.0061 J**	0.0051 U	0.0050 U	0.0049 U	0.11 U
delta-BHC	NA	0.0050 U	0.0053 U	0.0050 U	**0.0061 J**	0.0051 U	0.0050 U	0.0050 U	0.0056 U	**0.067**	0.049 U	0.050 U	0.10 U	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	0.11 U
Dieldrin	NA	0.0050 U	0.0053 U	0.0050 U	0.0054 U	0.0051 U	0.0050 U	0.0050 U	0.0056 U	**0.086 J**	**0.086 J**	0.050 U	**0.22 J**	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	**0.26 J**
Endosulfan I	NA	0.0050 U	0.0053 U	0.0050 U	0.0054 U	0.0051 U	0.0050 U	**0.052 J**	0.0056 U	**0.21 J**	0.049 U	**0.44 J**	0.10 U	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	0.11 U
Endosulfan II	NA	0.0050 U	**0.0058**	0.0050 U	0.0054 U	0.0051 U	0.0050 U	**0.048**	**0.048 J**	**0.83**	**0.27 J**	0.050 U	**0.27 J**	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	**0.23 J**
Endosulfan Sulfate	NA	0.0050 U	0.0053 U	0.0050 U	**0.0074 J**	0.0051 U	0.0050 U	0.0050 U	0.0056 U	0.048 U	0.049 U	**0.060 J**	**0.12**	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	**0.13 J**
Endrin	NA	0.0050 U	0.0053 U	0.0050 U	0.0054 U	0.0051 U	0.0050 U	0.0050 U	**0.061 J**	0.048 U	**0.34 J**	0.050 U	**0.61**	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	**0.63**
Endrin Aldehyde	NA	0.0050 U	0.0053 U	0.0050 U	0.0054 U	0.0051 U	0.0050 U	0.0050 U	**0.011**	**0.19 J**	0.049 U	0.050 U	0.10 U	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	**0.11 J**
Endrin Ketone	NA	0.020 U	0.021 U	0.020 U	0.021 U	0.020 U	0.020 U	0.020 U	0.022 U	0.19 U	0.20 U	0.20 U	0.41 U	0.021 U	0.020 U	0.020 U	0.020 U	0.020 U	0.42 U
gamma-BHC (Lindane)	NA	0.0050 U	0.0053 U	0.0050 U	0.0054 U	0.0051 U	0.0050 U	0.0050 U	0.0056 U	**0.056**	0.049 U	**0.069 J**	0.10 U	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	0.11 U
gamma-Chlordane	NA	0.0050 U	0.0053 U	**0.011**	**0.012**	0.0051 U	0.0050 U	0.0050 U	0.0056 U	0.048 U	0.049 U	**1.1 J**	0.10 U	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	0.11 U
Heptachlor	NA	0.0050 U	0.0053 U	0.0050 U	0.0054 U	0.0051 U	0.0050 U	0.0050 U	0.0056 U	0.048 U	0.049 U	**0.054 J**	1.0 UJ	0.0053 U	0.0049 U	0.0051 U	0.0050 U	0.0049 U	0.11 U
Heptachlor Epoxide	NA	0.0030 U	0.0032 U	0.0030 U	0.0032 U	0.0031 U	0.0030 U	0.0030 U	**0.089 J**	**0.14 J**	**0.093 J**	**0.37 J**	**0.29 J**	0.0032 U	0.0030 U	0.0030 U	0.0030 U	0.0029 U	**0.34 J**
Methoxychlor	NA	0.0099 U	0.011 U	0.0099 U	0.011 U	0.01 U	0.01 U	**0.014 J**	0.011 U	0.097 U	**0.11 J**	0.10 U	0.21 U	0.011 U	0.0099 U	0.01 U	0.01 U	0.0098 U	0.21 U
Toxaphene	NA	0.050 U	0.053 U	0.050 U	0.054 U	0.051 U	0.050 U	0.050 U	0.056 U	0.48 U	0.49 U	0.50 U	1.0 U	0.053 U	0.049 U	0.051 U	0.050 U	0.049 U	1.1 U

TABLE X: SUMMARY OF PCL EXCEEDANCES IN GROUNDWATER AND SEEP SAMPLES[1, 2]
March Point (Whitmarsh) Landfill, Skagit County, Washington

Analyte	PCL	MW-21-1		MW-21-2		MW-21-3		MW-21-4		MW-21-5		MW-21-6		MW-21-7		DUP-1-102821	MWD-21-1		MW-21-DUP-012722
		MW-21-1-102721	MW-21-1-012622	MW-21-2-102821	MW-21-2-012622	MW-21-3-102821	MW-21-3-012622	MW-21-4-102821	MW-21-4-012722	MW-21-5-102821	MW-21-5-012722	MW-21-6-102821	MW-21-6-012722	MW-21-7-102821	MW-21-7-012722	DUP-1-102821	MWD-21-1-102821	MWD-21-1-012622	MW-21-DUP-012722
		10/27/21	01/26/22	10/28/21	01/26/22	10/28/21	01/26/22	10/28/21	01/27/22	10/28/21	01/27/22	10/28/21	01/27/22	10/28/21	01/27/22	10/28/21	10/28/21	01/26/22	01/27/22
Semivolatile Organic Compounds (µg/L)																			
(3+4)-Methylphenol (m,p-Cresol)	NA	1.0 U	1.0 U	0.98 U	**1.0**	**1.5**	0.99 U	1.0 U	1.0 U	**11**	**28**	**1,700**	**56**	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	**70**
1,2,4-Trichlorobenzene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	10 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
1,2-Dichlorobenzene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
1,2-Dinitrobenzene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
1,2-Diphenylhydrazine	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
1,3-Dichlorobenzene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
1,3-Dinitrobenzene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
1,4-Dichlorobenzene	NA	1.0 U	**1.2**	**3.5**	**3.1**	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
1,4-Dinitrobenzene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
1-Methylnaphthalene	1.51	--	--	**10**	**9.0**	--	--	--	--	**3.4**	--	**14**	**3.5 J**	--	--	--	--	--	**5.4 J**
2,3,4,6-Tetrachlorophenol	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	**5.7**	1.3 UJ	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.6 UJ
2,3,5,6-Tetrachlorophenol	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
2,3-Dichloroaniline	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
2,4,5-Trichlorophenol	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	**2.4**	**2.3**	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	**3.2**
2,4,6-Trichlorophenol	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
2,4-Dichlorophenol	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	10 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
2,4-Dimethylphenol	380	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	**130**	**140**	**3,100**	**470**	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	**590**
2,4-Dinitrophenol	NA	5.0 U	5.2 U	4.9 U	5.1 U	5.1 U	5.0 U	5.0 U	5.0 U	5.0 U	4.9 U	8.0 U	5.1 U	4.8 U	4.9 U	8.1 U	5.0 U	4.8 U	5.1 U
2,4-Dinitrotoluene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
2,6-Dinitrotoluene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
2-Chloronaphthalene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
2-Chlorophenol	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
2-Methylnaphthalene	NA	--	--	**5.6**	**4.5**	--	--	--	--	**2.6**	**1.1**	**16**	**3.7 J**	--	--	--	--	--	**6.6 J**
2-Methylphenol (o-Cresol)	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	**7.2**	**20**	**1,300**	**51**	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	**60**
2-Nitroaniline	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
2-Nitrophenol	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	10 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
3,3'-Dichlorobenzidine	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
3-Nitroaniline	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
4,6-Dinitro-2-methylphenol	NA	5.0 U	5.2 U	4.9 U	5.1 U	5.1 U	5.0 U	5.0 U	5.0 U	5.0 U	4.9 U	7.3 U	5.1 U	4.8 U	4.9 U	7.4 U	5.0 U	4.8 U	5.1 U
4-Bromophenyl-phenylether	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
4-Chloro-3-methylphenol	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	10 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
4-Chloroaniline	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	10 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
4-Chlorophenyl-phenylether	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
4-Nitroaniline	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
4-Nitrophenol	NA	5.0 U	5.2 U	4.9 U	5.1 U	5.1 U	5.0 U	5.0 U	5.0 U	5.0 U	4.9 U	5.0 U	5.1 U	4.8 U	4.9 U	5.1 U	5.0 U	4.8 U	5.1 U
Acenaphthene	NA	--	--	**2.1**	**1.6**	--	--	--	--	--	--	**1.0**	--	--	--	--	--	--	--
Acenaphthylene	NA	--	--	--	--	--	--	--	--	**1.4**	--	--	--	--	--	--	--	--	--
Aniline	NA	5.0 U	5.2 U	4.9 U	5.1 U	5.1 U	5.0 U	5.0 U	5.0 U	5.0 U	4.9 U	5.0 U	5.1 U	4.8 U	4.9 U	5.1 U	5.0 U	4.8 U	5.1 U
Benzidine	NA	5.0 U	--	4.9 U	--	5.1 U	--	5.0 U	--	5.0 U	--	5.0 U	--	4.8 U	--	5.1 U	5.0 U	--	--
Benzyl alcohol	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
bis(2-Chloroethoxy)methane	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	10 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
bis(2-Chloroethyl)ether	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
bis(2-Chloroisopropyl)ether	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
bis(2-Ethylhexyl)phthalate	1.2	5.0 U	5.2 U	4.9 U	5.1 U	5.1 U	5.0 U	5.0 U	5.0 U	5.0 U	4.9 U	5.0 U	5.1 U	4.8 U	4.9 U	5.1 U	5.0 U	4.8 U	5.1 U
bis-2-Ethylhexyladipate	NA	5.0 U	5.2 U	4.9 U	5.1 U	5.1 U	5.0 U	5.0 U	5.0 U	5.0 U	4.9 U	5.0 U	5.1 U	4.8 U	4.9 U	5.1 U	5.0 U	4.8 U	5.1 U
Butylbenzylphthalate	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
Carbazole	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	**2.0**	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
Dibenzofuran	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	**2.0**	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
Diethylphthalate	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
Dimethylphthalate	NA	5.0 U	5.2 U	4.9 U	5.1 U	5.1 U	5.0 U	5.0 U	5.0 U	5.0 U	4.9 U	5.0 U	5.1 U	4.8 U	4.9 U	5.1 U	5.0 U	4.8 U	5.1 U
Di-n-butylphthalate	NA	5.0 U	5.2 U	4.9 U	5.1 U	5.1 U	5.0 U	5.0 U	5.0 U	5.0 U	4.9 U	5.0 U	5.1 U	4.8 U	4.9 U	5.1 U	5.0 U	4.8 U	5.1 U
Di-n-octylphthalate	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
Fluorene	NA	--	--	**1.5**	**1.0**	--	--	--	--	--	--	**1.6**	**1.0**	--	--	--	--	--	**1.3**
Hexachlorobenzene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
Hexachlorobutadiene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	10 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
Hexachlorocyclopentadiene	NA	1.0 U	1.3 U	0.98 U	1.3 U	1.0 U	1.3 U	1.0 U	1.3 U	1.0 U	1.3 U	1.3 U	1.3 U	0.96 U	1.3 U	1.3 U	1.0 U	1.2 U	1.3 U
Hexachloroethane	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
Isophorone	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	13 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
Naphthalene	NA	--	--	--	--	--	--	--	--	**1.4**	--	**19**	**4.9 J**	--	--	--	--	--	**9.5 J**
Nitrobenzene	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	13 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
n-Nitrosodimethylamine	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
n-Nitroso-di-n-propylamine	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
n-Nitrosodiphenylamine	NA	1.0 U	1.0 U	1.8 UJ	**1.3**	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
Pentachlorophenol	NA	5.0 U	5.2 U	4.9 U	5.1 U	5.1 U	5.0 U	5.0 U	5.0 U	5.0 U	4.9 U	**80**	**21 J**	4.8 U	4.9 U	5.1 U	5.0 U	4.8 U	**26**
Phenanthrene	NA	--	--	**1.4**	**1.1**	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	**1.8**	**7.8**	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U
Pyridine	NA	1.0 U	1.0 U	0.98 U	1.0 U	1.0 U	0.99 U	1.0 U	1.0 U	1.0 U	0.97 U	1.0 U	1.0 U	0.96 U	0.98 U	1.0 U	1.0 U	0.95 U	1.0 U

TABLE X: SUMMARY OF PCL EXCEEDANCES IN GROUNDWATER AND SEEP SAMPLES[1, 2]
March Point (Whitmarsh) Landfill, Skagit County, Washington

Analyte	PCL	MW-21-1		MW-21-2		MW-21-3		MW-21-4		MW-21-5		MW-21-6		MW-21-7		DUP-1-102821	MWD-21-1		MW-21-DUP-012722
		MW-21-1-102721	MW-21-1-012622	MW-21-2-102821	MW-21-2-012622	MW-21-3-102821	MW-21-3-012622	MW-21-4-102821	MW-21-4-012722	MW-21-5-102821	MW-21-5-012722	MW-21-6-102821	MW-21-6-012722	MW-21-7-102821	MW-21-7-012722	DUP-1-102821	MWD-21-1-102821	MWD-21-1-012622	MW-21-DUP-012722
		10/27/21	01/26/22	10/28/21	01/26/22	10/28/21	01/26/22	10/28/21	01/27/22	10/28/21	01/27/22	10/28/21	01/27/22	10/28/21	01/27/22	10/28/21	10/28/21	01/26/22	01/27/22
Polycyclic Aromatic Hydrocarbons (µg/L)																			
1-Methylnaphthalene	NA	0.10 U	0.10 U	--	--	0.10 U	0.099 U	**0.23**	**0.33**	--	**0.78**	--	--	0.096 U	0.098 U	0.10 U	0.10 U	0.095 U	--
2-Methylnaphthalene	NA	0.10 U	0.10 U	--	--	0.10 U	0.099 U	0.10 U	0.10 U	--	--	--	--	0.096 U	0.098 U	0.10 U	0.10 U	0.095 U	--
Acenaphthene	NA	**0.23**	**0.45**	--	--	**0.15**	**0.14**	**0.23**	**0.28**	0.21 UJ	0.097 U	--	**0.43 J**	0.096 U	0.098 U	0.10 U	0.10 U	0.095 U	**0.68 J**
Acenaphthylene	NA	0.10 U	0.10 U	0.098 U	0.10 U	0.10 U	0.099 U	0.10 U	0.10 U	--	0.097 U	0.50 U	0.10 U	0.096 U	0.098 U	0.10 U	0.10 U	0.095 U	0.12 UJ
Anthracene	NA	0.10 U	0.10 U	0.098 U	0.10 U	0.10 U	0.099 U	0.10 U	0.10 U	0.10 U	0.097 U	0.50 U	0.10 U	0.096 U	0.098 U	0.10 U	0.10 U	0.095 U	0.10 U
Benz[a]anthracene	NA	0.01 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	**0.031**	0.015 UJ	**0.057**	0.014 UJ	0.0096 UJ	0.0098 U	**0.011 J**	**0.013**	0.0095 U	0.01 U
Benzo(a)pyrene	NA	0.01 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	**0.028**	0.0097 U	0.050 U	0.01 U	0.0096 UJ	0.0098 U	**0.012 J**	**0.014**	0.0095 U	0.01 U
Benzo(b)fluoranthene	NA	0.01 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	**0.034**	0.0097 U	0.050 U	0.01 U	0.0096 UJ	0.0098 U	**0.016 J**	**0.015**	0.0095 U	0.01 U
Benzo(ghi)perylene	NA	0.01 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	**0.016**	0.0097 U	0.050 U	0.01 U	0.0096 UJ	0.0098 U	**0.011 J**	0.01 U	0.0095 U	0.01 U
Benzo(j,k)fluoranthene	NA	0.01 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	**0.011**	0.0097 U	0.050 U	0.01 U	0.0096 U	0.0098 U	0.01 U	0.01 U	0.0095 U	0.01 U
Chrysene	0.01	0.01 U	0.01 U	**0.011**	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	**0.16**	0.0097 U	**0.057**	0.01 U	0.0096 UJ	0.0098 U	**0.021 J**	**0.015**	0.0095 U	0.01 U
Dibenzo(a,h)anthracene	NA	0.01 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	0.01 U	0.0097 U	0.050 U	0.01 U	0.0096 U	0.0098 U	0.01 U	0.01 U	0.0095 U	0.01 U
Fluoranthene	NA	0.10 U	0.10 U	0.098 U	0.10 U	0.10 U	0.099 U	0.10 U	0.10 U	0.10 UJ	0.19 UJ	0.62 U	0.23 UJ	0.096 U	0.098 U	0.10 U	0.10 U	0.095 U	0.29 UJ
Fluorene	NA	**0.27**	**0.34**	--	--	0.10 U	0.099 U	**0.14**	0.10 U	**0.31**	0.097 U	--	--	0.096 U	0.098 U	0.10 U	**0.11**	0.095 U	--
Indeno(1,2,3-cd)pyrene	NA	0.01 U	0.01 U	0.0098 U	0.01 U	0.01 U	0.0099 U	0.01 U	0.01 U	**0.014**	0.0097 U	0.050 U	0.01 U	0.0096 U	0.0098 U	0.01 U	0.01 U	0.0095 U	0.01 U
Naphthalene	NA	**0.10**	0.10 U	**0.33**	**0.22**	0.10 U	0.099 U	0.10 U	0.10 U	--	**0.69**	--	--	0.096 U	0.098 U	0.10 U	0.10 U	0.095 U	--
Phenanthrene	NA	0.10 U	0.10 U	--	--	0.10 U	0.099 U	0.10 U	0.10 U	**0.25**	0.097 U	0.50 U	**0.33**	0.096 U	0.098 U	0.10 U	0.10 U	0.095 U	**0.35**
Pyrene	NA	0.10 U	0.10 U	0.098 U	0.10 U	0.10 U	0.099 U	0.10 U	0.10 U	0.10 U	0.097 U	0.50 U	0.10 U	0.096 U	0.098 U	0.10 U	0.10 U	0.095 U	0.10 U
Total cPAHs TEQ	NA	0.00755	0.00755	**0.00801**	0.00755	0.00755	0.00747	0.00755	0.00755	**0.0550**	0.00997	**0.0730**	0.00955	0.00725	0.00740	**0.0170**	**0.0185**	0.00717	0.00755
Volatile Organic Compounds (µg/L)																			
Benzene	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**3.3**	**7.8**	**4.3**	1.0 U	4.0 U	**18**	**8.6 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**14 J**
Miscellaneous																			
Conductivity (µmhos/cm)	NA	--	**2,000**	--	**590**	--	**610**	--	**630**	--	**330**	--	**510**	--	**520**	--	--	**540**	**520**
Salinity (g/kg)	NA	--	**0.95**	--	**0.27**	--	**0.28**	--	**0.29**	--	**0.15**	--	**0.24**	--	**0.24**	--	--	**0.25**	**0.24**
pH (SU)	NA	**6.9**	**6.6**	**8.6**	**6.4**	**7.2**	**6.9**	**7.0**	**7.2**	**6.5**	**6.6**	**7.1**	**7.1**	**7.0**	**6.8**	**6.9**	**6.5**	**8.2**	**7.1**

Notes
1. Data qualifiers are as follows:
   U = The analyte was not detected at the reporting limit indicated.
   J = Reported value is an estimate.
   UJ = The analyte was not detected at the estimated reporting limit indicated.
2. **Bolded** values are detections, yellow highlighted cells are PQLs exceedances

Abbreviations
-- = analyte was not detected
µg/L = micrograms per liter
µmhos/cm = micromhos per centimeter
BHC = benzene hexachloride
cPAHs = carcinogenic polycyclic aromatic hydrocarbons
DUP = duplicate
g/kg = grams per kilogram
NA = not available
PCBs = polychlorinated biphenyls
PCL = practical quantitation limit
SU = standard units
TEQ = toxic equivalency quotient

wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** MW-21-1

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 10/11/21 **COMPLETED** 10/11/21 **GROUND ELEVATION** 15.5-feet MLLW **HOLE SIZE** 4"+/-

DRILLING CONTRACTOR Holocene **DRILL RIG** Dietrich D-50 Track Mounted **SPT HAMMER EFFICIENCY**

DRILLING METHOD HSA 8" +/- **STATION (FT)** **OFFSET (FT)**

LOGGED BY Koorus Tahghighi **CHECKED BY** **NORTHING** **EASTING**

NOTES No Sampling **GW LEVEL (ATD)**

ELEVATION (ft) DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
0		COVER SOIL: Sand - 15"				No hits on LEL, VoCs, etc.
		Sand and trash	3'			
		No cuttings				
5		Bentonite Chips 1 Bag	8'			
			9'			
10		6 bags of 10-20 sand →				
15		2" well screen 10-feet →				
		Water encountered ~16-feet BGS				
			19'			
20		End of Boring at 19-feet.				
		Aboveground monument.				
25						
30						
35						

WSDOT GEOTECH DRILLING - I405 WSDOT.GDT - 5/27/21 14:59 - C:\USERS\CHELSEA.FOSTER\DESKTOP\FIELD STAFF FILES\GINT STD US.GPJ

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wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** MW-21-2

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 10/11/21 **COMPLETED** 10/11/21 **GROUND ELEVATION** 16.9-feet MLLW **HOLE SIZE** 4"+/-

DRILLING CONTRACTOR Holocene **DRILL RIG** Dietrich D-50 Track Mounted **SPT HAMMER EFFICIENCY**

DRILLING METHOD HSA 8" +/- **STATION (FT)** **OFFSET (FT)**

LOGGED BY Koorus Tahghighi **CHECKED BY** **NORTHING** **EASTING**

NOTES No Sampling **GW LEVEL (ATD)**

ELEVATION (ft) / DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
0		COVER SOIL: Sand - 18"				No hits on LEL, VoCs, etc.
		Gray sand, some silt, some trash				
5		Bentonite Chips → 2 Bags				
			8'			
10		Gray sand, some silt, some trash				
		7 bags of 10-20 sand →				
		Water first encountered at 15-feet, but no accumulation. Waited 5 minutes at 21.5-feet +/-				
15		2" screen - 15 feet depth				
20						
			23'			
		End of Boring at 23-feet.				
25		Aboveground monument.				
30						
35						

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wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** MW-21-3

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 10/11/21 **COMPLETED** 10/11/21 **GROUND ELEVATION** 19.5-feet MLLW **HOLE SIZE** 4"+/-

DRILLING CONTRACTOR Holocene **DRILL RIG** Dietrich D-50 Track Mounted **SPT HAMMER EFFICIENCY**

DRILLING METHOD HSA 8" +/- **STATION (FT)** **OFFSET (FT)**

LOGGED BY Koorus Tahghighi **CHECKED BY** **NORTHING** **EASTING**

NOTES No Sampling **GW LEVEL (ATD)**

ELEVATION (ft) / DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
0		COVER SOIL: Brown Sand - 6"				No hits on LEL, VoCs, etc.
		Gray silty sand; no discernible trash in cuttings	4'			
5			5'			
		Wet FR 7-feet +/-				
		Less silt with depth.				
10		5 bags of 10-20 sand →				
		2" Screen - 10-feet depth				
15			15'			
		End of Boring at 15-feet.				
		Aboveground monument.				
20						
25						
30						
35						

(Continued Next Page)

wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** MW-21-4

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 10/11/21 **COMPLETED** 10/11/21 **GROUND ELEVATION** 25.7-feet MLLW **HOLE SIZE** 4"+/-

DRILLING CONTRACTOR Holocene **DRILL RIG** Dietrich D-50 Track Mounted **SPT HAMMER EFFICIENCY**

DRILLING METHOD HSA 8" +/- **STATION (FT)** **OFFSET (FT)**

LOGGED BY Koorus Tahghighi **CHECKED BY** **NORTHING** **EASTING**

NOTES No Sampling -Offset boring 25-feet east **GW LEVEL (ATD)**

ELEVATION (ft) / DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
0		COVER SOIL: Sand - 6"				No hits on LEL, VoCs, etc.
		Gray-brown sand and gravel - 1.5-feet				
5		Gray-brown gravelly sand, TR silt (rounded gravel)				
			9'			
10			10'			
		Dark gray silty sand Moist - a few pieces of trash				
		6 bags of 10-20 sand →				
15		Water at 14-feet +/-				
		2" Screen - 10-feet depth				
			20'			
20		End of Boring at 20-feet.				
		Aboveground monument.				
25						
30						
35						

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wood.

PROJECT NAME _____ **PROJECT NUMBER** _____ **BORING NUMBER** 1

CLIENT _____ **PROJECT LOCATION** _____

ELEVATION (ft) DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 PL MC LL 20 40 60 80 ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
35						
40						
45						
50						

wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** MW-21-5

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 10/11/21 **COMPLETED** 10/11/21 **GROUND ELEVATION** 22.1-feet MLLW **HOLE SIZE** 4"+/-

DRILLING CONTRACTOR Holocene **DRILL RIG** Dietrich D-50 Track Mounted **SPT HAMMER EFFICIENCY**

DRILLING METHOD HSA 8" +/- **STATION (FT)** **OFFSET (FT)**

LOGGED BY Koorus Tahghighi **CHECKED BY** **NORTHING** **EASTING**

NOTES No Sampling **GW LEVEL (ATD)**

ELEVATION (ft) DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
0		COVER SOIL: Brown sand - 1.5-feet				No hits on LEL, VoCs, etc.
		Brown sand, some silt, trace gravel	4'			
5		Gravel 5-feet to 6 -feet hard drilling				
		Brown gray silty sand, some gravel — No bentonite — Grout seal				
10		Brown sand, some silt, moist/wet — 7 bags of 10-20 sand →				
		2" Screen - 10-feet depth	14'			
15		End of Boring at 15-feet.				
		Water rose up to approximately 6-feet BGS, after 5 minutes.				
20		Aboveground monument.				
25						
30						
35						

(Continued Next Page)

wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** MW-21-6

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 10/12/21 **COMPLETED** 10/12/21 **GROUND ELEVATION** 21.4-feet MLLW **HOLE SIZE** 4"+/-

DRILLING CONTRACTOR Holocene **DRILL RIG** Dietrich D-50 Track Mounted **SPT HAMMER EFFICIENCY**

DRILLING METHOD HSA 8" +/- **STATION (FT)** **OFFSET (FT)**

LOGGED BY Koorus Tahghighi **CHECKED BY** **NORTHING** **EASTING**

NOTES No Sampling **GW LEVEL (ATD)**

ELEVATION (ft) / DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
0		COVER SOIL: Sand and gravel				No hits on LEL, VoCs, etc.
		Gray silty sand or sand/silt; trash; some sheen noted, some odor				
5		Similar to MW-21-5	5'			
			Sand →			
		Water encountered around 9 to 10 feet				
10		7 bags of 10-20 sand →				
		2" Screen - 10-feet depth				
15			15'			
		End of Boring at 15-feet.				
		Aboveground monument.				
20						
25						
30						
35						

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wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** MW-21-7

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 10/12/21 **COMPLETED** 10/12/21 **GROUND ELEVATION** 21.2-feet MLLW **HOLE SIZE** 4"+/-

DRILLING CONTRACTOR Holocene **DRILL RIG** Dietrich D-50 Track Mounted **SPT HAMMER EFFICIENCY**

DRILLING METHOD HSA 8" +/- **STATION (FT)** **OFFSET (FT)**

LOGGED BY Koorus Tahghighi **CHECKED BY** **NORTHING** **EASTING**

NOTES No Sampling **GW LEVEL (ATD)**

ELEVATION (ft) / DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
0		COVER SOIL: Sand and gravel - 1 to 1.5 feet				No hits on LEL, VoCs, etc.
		Gray sand, some silt, trace gravel	5'			
5						
		Water around 9 to 10 feet				
10		Gray sand, some gravel, some silt — 7 bags of 10-20 sand →				
		2" Screen - 10-feet depth	15'			
15		End of Boring at 15-feet.				
		Aboveground monument.				
20						
25						
30						
35						

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wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** MWD-21-1

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 10/26/21 **COMPLETED** 10/26/21 **GROUND ELEVATION** 19.2-feet MLLW **HOLE SIZE** 4"+/-

DRILLING CONTRACTOR Holocene **DRILL RIG** Geoprobe 8140 LC **SPT HAMMER EFFICIENCY**

DRILLING METHOD **STATION (FT)** **OFFSET (FT)**

LOGGED BY Cherie Howland **CHECKED BY** **NORTHING** **EASTING**

NOTES BNP 334 Well Tag ID **GW LEVEL (ATD)**

ELEVATION (ft) DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
0		COVER SOIL: Medium gray fine-medium sand with debris (glass, wood); moist				No hits on LEL, VoCs, etc.
		dk brown clay moist - 2- to 2.5-feet				
5		Medium gray fine-medium sand, some fine to course gravels moist.	100%			
10		dk gray silty sand, fine to course; some organics & debris, wet	100%			
15		No recovery	100%			
20		dk gray, fine to course, sand with fine to course gravels sat.	0%			
		dk gray clay, some fine sand, wet				
25		Medium gray fine gravels with sand, fine to course, and some course gravels sat.	100%			
30		Medium gray, fine to course, sand, some fine gravel sat.	100%			
		Medium gray, silty sand, some fine gravel sat.				
35			100%			

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wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** MWD-21-1

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

ELEVATION (ft) / DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
35						Screened at 35 to 45-feet within the last 10-feet of the well.
		Medium gray, clayey silty sand, some fine gravel sat.	80%			
40		Medium gray, fine sand, some shells, wet.	80%			
45		End of Boring at 45-feet.				
		Aboveground monument.				
50						

wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** LFGP-21-1

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 10/11/21 **COMPLETED** 10/11/21 **GROUND ELEVATION** 15.1-feet **HOLE SIZE** 4"+ 10

DRILLING CONTRACTOR Holocene **DRILL RIG** Dietrich D-50 Track Mounted **SPT HAMMER EFFICIENCY**

DRILLING METHOD HSA 8" +/- **STATION (FT)** **OFFSET (FT)**

LOGGED BY Koorus Tahghighi **CHECKED BY** **NORTHING** **EASTING**

NOTES **GW LEVEL (ATD)**

ELEVATION (ft) / DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
0		COVER SOIL: Sand - 8"				No hits on LEL
		Silty sand and trash	2'			
		2-feet solid riser				
		1" screen at 5-feet				
5		10-20 sand 2 bags	7'			
10		Water encountered at 12-feet +/- Then rose up boring pit ~6.5-feet BGS				
		End of Boring at 13-feet. Terminated due to water level.				
15		Flush monument.				
20						
25						
30						
35						

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wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** LFGP-21-2

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 10/11/21 **COMPLETED** 10/11/21 **GROUND ELEVATION** 18.3-feet **HOLE SIZE** 4"+/-

DRILLING CONTRACTOR Holocene **DRILL RIG** Dietrich D-50 Track Mounted **SPT HAMMER EFFICIENCY**

DRILLING METHOD HSA 8" +/- **STATION (FT)** **OFFSET (FT)**

LOGGED BY Koorus Tahghighi **CHECKED BY** **NORTHING** **EASTING**

NOTES No Sampling **GW LEVEL (ATD)**

ELEVATION (ft) DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
0		COVER SOIL: Brown Sand - 18"	2'			No hits on LEL
		Gray silty sand — 1" screen at 5-feet				
5		Encountered cobbles (>) from 4-feet to 6-feet — 10-20 sand 5 bags	7'			
		Cuttings moist - no static water				
10		Down to 10-feet				
		End of Boring at 10-feet.				
		Flush monument.				
15						
20						
25						
30						
35						

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wood.

PROJECT NAME Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **BORING NUMBER** LFGP-21-3

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 10/11/21 **COMPLETED** 10/11/21 **GROUND ELEVATION** _____ **HOLE SIZE** 4"+/-

DRILLING CONTRACTOR Holocene **DRILL RIG** Dietrich D-50 Track Mounted **SPT HAMMER EFFICIENCY** _____

DRILLING METHOD HSA 8" +/- **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Koorus Tahghighi **CHECKED BY** _____ **NORTHING** _____ **EASTING** _____

NOTES No Sampling **GW LEVEL (ATD)** _____

ELEVATION (ft) / DEPTH	GRAPHIC LOG	SOIL & ROCK DESCRIPTION	RECOVERY % (RQD)	SAMPLE TYPE NUMBER	▲ SPT N VALUE ▲ 20 40 60 80 / PL MC LL 20 40 60 80 / ☐ FINES CONTENT (%) ☐ 20 40 60 80	TESTS AND REMARKS
0		COVER SOIL: Brown-gray sand & gravel - 1-foot				No hits on LEL
		Gray sand - some silt				
		Trace gravel	4'			
5		1" screen at 5-feet 10-20 sand bags →				
		Water ~10.8-feet to 11-feet	9'			
10		Gray silty sand - moist				
		End of Boring at 12-feet.				
15		Flush monument.				
20						
25						
30						
35						

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wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-1

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 15.5-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 538716.06 **EASTING** 1228719.51

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-1		COVER SOIL: Course sandy material mixed with roots; approximately 2-feet
			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
5			Bottom of test pit at 4.0 feet. Terminated as consistent household garbage was encountered and no further need dig beyond was determined.
10			
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-2

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 17.9-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 538813.13 **EASTING** 1228571.87

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-2		COVER SOIL: Course sandy material mixed with roots; approximately 2-feet
			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
5			Bottom of test pit at 5.0 feet. Terminated when the extent of the railroad bed was found which was near the bottom of the slope of the berm.
10			
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-3

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 20.7-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 538925.64 **EASTING** 1228399.04

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-3		COVER SOIL: Course sandy material mixed with roots; approximately 2-feet
			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
5			Bottom of test pit at 5 feet. Terminated when the extent of the railroad bed was found which is located just at the toe of the slope of the berm on-site.
10			
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-4

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 20.8-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 539014.31 **EASTING** 1228260.68

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-4		COVER SOIL: Course sandy material mixed with roots; approximately 2-feet
			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
5			Bottom of test pit at 4.5 feet. Terminated prior to finding the extent of the railroad bed due to adjacent water-filled ditched that runs along the berm.
10			
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-5

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 20.6-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 539047.96 **EASTING** 1228172.84

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-5		COVER SOIL: Course sandy material mixed with roots and gravel; adjacent berm was completely clean soil all the way down. On the south side of the berm cover soil account for approximately 3.5-feet prior to encountering debris.
5			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
10			Bottom of test pit at 6.0 feet on the south side the berm and test pit was terminated when continued debris was found. Terminated at 5.0 feet on the north side of the berm when the extent of the railroad bed was found of the toe of the slope of the berm; additionally running along the berm was a water-filled ditch.
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-6

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 20.4-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 539069.21 **EASTING** 1228079.26

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-6		COVER SOIL: Course sandy material mixed with gravel; adjacent berm is completely clean soil all the way down; approximately 4-feet in depth.
5			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
			Bottom of test pit at 5.0 feet. Terminated upon encountering groundwater.
10			
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-7

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 21.1-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 538910.28 **EASTING** 1228154.67

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-7		COVER SOIL: Course sandy material mixed with gravel; approximately 4-feet in depth.
5			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
			Bottom of test pit at 5.0 feet. Terminated upon encountering debris and to avoid potentially impacting adjacent utilities near the location.
10			
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-8

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 22.2-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 538828.36 **EASTING** 1228214.57

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-8		COVER SOIL: Course sandy material mixed with roots; dug as close to the adjacent ditch as we could; approximately 3-feet in depth.
			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
5			Bottom of test pit at 5.0 feet. Terminated upon encountering the extent of the debris.
10			
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-9

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 21.9-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 538774.03 **EASTING** 1228242.92

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-9		COVER SOIL: Course sandy material mixed with roots; approximately 2.5-feet in depth.
			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
5			Bottom of test pit at 4.0 feet. Terminated upon encountering the extent of the debris.
10			
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-10

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 23.7-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 538711.19 **EASTING** 1228288.3

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-10		COVER SOIL: Course sandy material mixed with roots; approximately 3-feet in depth.
5			SOIL: Gray-tinged soil, with black tar that could indicate that the soil contains asphalt or diesel products.
			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
10			Bottom of test pit at 9.0 feet. Terminated upon encountering the extent of the debris.
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-11

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 22.4-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 538699.03 **EASTING** 1228255.65

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-11		COVER SOIL: Course sandy material mixed with roots; approximately 3-feet in depth.
			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
5			Bottom of test pit at 4.0 feet. Terminated upon encountering the extent of the debris.
10			
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-12

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 22.2-feet

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 538582.98 **EASTING** 1228305.88

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0	TP-21-12		COVER SOIL: Course sandy material mixed with roots; approximately 4-feet in depth.
5			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
			Bottom of test pit at 5.0 feet. Terminated upon encountering the extent of the debris.
10			
15			
20			
25			
30			
35			

wood.

PROJECT NAME Skagit Whitmarsh Landfill **PROJECT NUMBER** PS21204410 **TEST PIT NUMBER** TP-21-13

CLIENT Skagit County **PROJECT LOCATION** Anacortes, WA

DATE STARTED 9/21/21 **COMPLETED** 9/21/21 **GROUND ELEVATION** 17.9-feet MLLW

DRILLING CONTRACTOR Welch Brothers Construction **STATION (FT)** _____ **OFFSET (FT)** _____

LOGGED BY Cheyenne Ginther **CHECKED BY** Cheyenne Ginther **NORTHING** 538452.01 **EASTING** 1228345.63

NOTES _____ **GW LEVEL (ATD)** _____

DEPTH (ft)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
0			COVER SOIL: Course sandy material mixed with roots; approximately 0.5 to 1-foot in depth; no sample taken due to the lack of cover soil found at this location.
			HOUSEHOLD GARBAGE: plastics, paper, cardboard, and other debris inter-bedded with soil.
			Bottom of test pit at 3.0 feet. Terminated upon encountering the extent of the debris.
5			
10			
15			
20			
25			
30			
35			

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-15**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/29/10 / DATE FINISHED: 3/29/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 18.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 11.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1				WOOD: brown, moist, 100% wood debris (strips, chunks)	
2				SILTY SAND (SM): light brown, moist, 75% fine to coarse sand, 25% low plasticity fines	
3					
4				REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): dark brown, moist, 55% fine to coarse sand, 25% fine and coarse gravel, 20% non-plastic fines, 20% refuse (concrete, wires, tires, springs, wood debris)	
5					
6					
7					
8					
9					
10					
11				▼ wet, 50% refuse (cans, bottles, plywood)	
12					
13					
14				▼ black	
15	G15-15	■		SILT (ML): gray, moist, 100% fines, low plasticity, scattered grass and shells, scattered fine gravel	
16					
17					
18				Bottom of test pit at 18.0 feet. Test pit backfilled with refuse and soil.	
19					

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-16**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/29/10 / DATE FINISHED: 3/29/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 10.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 9.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1				REFUSE MATERIAL: POORLY GRADED SAND with SILT and GRAVEL (SP-SM): light brown, moist, 70% fine to coarse sand, 20% fine and coarse gravel, 10% non-plastic fines, 30% refuse (wire, bottles, bike wheel)	
2					
3				burned appearance	
4				SILTY SAND (SM): brown, moist, 70% fine to coarse sand, 30% low plasticity fines	
5					
6					
7	G16-7	■		POORLY GRADED SAND with GRAVEL (SP): gray, moist, 80% fine to coarse sand, 20% fine gravel	
8					
9				wet	
10	G16-10	■		SILT (ML): gray, moist, 100% fines, medium plasticity Bottom of test pit at 10.0 feet. Test pit backfilled with excavated refuse and soil.	
11					
12					
13					
14					
15					
16					
17					
18					
19					

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-17**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/29/10 / DATE FINISHED: 3/29/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 18.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 10.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1					REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): light brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel, 30% refuse (wood pieces, bottles)	
3					55% fine to coarse sand, 30% non-plastic fines, 15% fine and coarse gravel, 0% refuse	
5					15% refuse (plastic sheeting, tubing, straps)	
6					yellow 5 gallon steel bucket	
9					wet, round peeled timbers 6" diameter, 5-6' long, 30% refuse	
16					POORLY GRADED GRAVEL with SAND (GP): dark gray, wet, 65% fine and coarse gravel, 30% fine to coarse sand, 5% non-plastic fines	
18					Bottom of test pit at 18.0 feet. Test pit backfilled with refuse and soil.	Walls caving and undermining.
19						

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-17.5**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 4/1/10 / DATE FINISHED: 4/1/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 12.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 9.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1–19	G17.5-7	■		REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel, 30% refuse (plastic, glass, cans, hoses) crushed, rusted drum "test product" labelled on lid, black and yellow painted	
				SILTY SAND (SM): brown, moist, 70% fine to coarse sand, 30% low plasticity fines	
				SILT (ML): gray, moist, 95% fines, 5% fine sand, low plasticity, scattered red roots, orange and black mottling	
				POORLY GRADED GRAVEL with SAND (GP): dark gray, wet, 60% fine and coarse gravel, 40% fine to coarse sand, sub-rounded	
				Bottom of test pit at 12.0 feet. Test pit backfilled with refuse and soil.	

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-18**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/29/10 / DATE FINISHED: 3/29/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 18.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 14.0
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1–7	G18-8	■		REFUSE MATERIAL: POORLY GRADED SAND with SILT (SP-SM): brown, moist, 90% fine to coarse sand, 10% non-plastic fines, 30% refuse (composite shingles, plastic, car parts, bottles)	
8–13				SILT (MH): dark gray, wet, 90% fines, 10% fine sand, medium to high plasticity, organics (roots, small wood pieces), orange mottling (dike-like feature)	
14–17				POORLY GRADED SAND with GRAVEL (SP): gray, wet, 60% fine to coarse sand, 35% fine and coarse gravel, 5% non-plastic fines, trace clam shell	
18				Bottom of test pit at 18.0 feet. Test pit backfilled with refuse and soil.	
19					

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-19**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/29/10 / DATE FINISHED: 3/29/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 14.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 7.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1					SILTY SAND (SM): dark brown, moist, 70% fine to coarse sand, 20% non-plastic fines, 10% fine gravel, scattered roots	
2					REFUSE MATERIAL: POORLY GRADED SAND with SILT and GRAVEL (SP-SM): dark brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine gravel, 30% refuse (plastic sheeting, bottles, wires, red brick, tires, wood pieces)	
3						
4						
5						
6						
7					▼ wet, wood timbers, large cobbles	
8						sidewalls caving under water table
9					SILT (ML): gray, moist, 90% fines, 10% fine sand, scattered roots, orange mottling, blackened weathering	
10						
11						
12						
13					POORLY GRADED GRAVEL with SAND (GP): gray, wet, 70% fine and coarse gravel, 30% fine to coarse sand	
14					Bottom of test pit at 14.0 feet. Test pit backfilled with refuse and soil.	
15						
16						
17						
18						
19						

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-20**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/29/10 / DATE FINISHED: 3/29/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 12.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 9.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1–19	G20-12	■		REFUSE MATERIAL: SILTY SAND (SM): brown, moist, 80% fine to coarse sand, 20% non-plastic fines, 30% refuse (glass, plastic)	
6				creosote wooden piling	
9				wet, black, slight sheen	
10				heating oil tank: empty and punctured, no sheen	
12				SILT (ML): gray, moist, 100% fines, scattered organics and roots, orange mottling	
16				Bottom of test pit at 16.0 feet. Backfilled with refuse and soil.	

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-21**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/29/10 / DATE FINISHED: 3/29/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 16.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 8.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:		REMARKS
1					SILTY SAND (SM): dark brown, moist, 80% fine to coarse sand, 20% non-plastic fines		
2					REFUSE MATERIAL: POORLY GRADED SAND with SILT and GRAVEL (SP-SM): gray, moist, 65% fine to coarse sand, 25% fine and coarse gravel, 10% fines, 50% refuse (tarps, hoses, glass, aluminum scraps, wood scraps)		
12					SILTY SAND with GRAVEL (SM): gray, wet, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel		
14					POORLY GRADED GRAVEL with SAND (GP): dark gray wet, 60% fine and coarse gravel, 40% fine to coarse sand		
16					Bottom of test pit at 16.0 feet. Test pit backfilled with refuse and soil.		Test pit sidewalls caving, water rushing in to hole.
19							

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-22**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/29/10 / DATE FINISHED: 3/29/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 18.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 13.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1					REFUSE MATERIAL: POORLY GRADED SAND with SILT (SP-SM): reddish brown, moist, 80% fine to coarse sand, 20% non-plastic fines, 30% refuse (bottles, plastic, concrete, glass,tires, mattress)	
2						
3						
4						
5						
6					15% refuse (wood pieces)	
7					POORLY GRADED SAND with GRAVEL (SP): gray, moist, 70% fine to coarse sand, 30% fine and coarse gravel, large wood pieces (1-2' dia.)	
8						
9						
10					SILTY SAND (SM): gray, moist, 60% fine sand, 40% fines, compressible, scattered roots	
11						
12					POORLY GRADED GRAVEL with SAND (GP): gray, moist, 65% fine and coarse gravel, 35% fine and coarse sand, sub-rounded	
13					wet	gravels are caving and undermining the sidewalls
14						
15						
16						
17						
18					Bottom of test pit at 18.0 feet. Test pit backfilled with refuse and soil.	
19						

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-23**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/30/10 / DATE FINISHED: 3/30/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 14.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 8.5 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1					WOOD:moist, 100% wood waste (strips, chips)	
2					REFUSE MATERIAL: (SILTY SAND) (SM): brown, moist, 85% fine to coarse sand, 20% non-plastic fines, 5% fine gravel, contains 30% refuse (tires, plastic, tubing, glass, wood debris, car muffler)	
3						
4						
5						
6						
7						
8						
9					▼ wet POORLY GRADED GRAVEL with SAND (GP): very dark gray, wet, 60% fine to coarse sand, 35% fine and coarse gravel, 5% non-plastic fines	
10						
11						
12						
13						
14					Bottom of test pit at 14.0 feet. Backfilled with excavated soil and refuse.	Test pit sidewalls caving quickly
15						
16						
17						
18						
19						

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-24**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/30/10 / DATE FINISHED: 3/30/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 18.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 10.0
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1–5				WOOD: brown, moist, 100% wood waste (bark strips, sticks, logs)	
6–9				REFUSE MATERIAL: SILTY SAND (SM): gray, moist, 75% fine to coarse sand, 20% non-plastic fines, 5% fine gravel, 5% refuse (bottles, cans, plastic)	
10–12				wet, 30% refuse (heating oil tank, bottles, tires, hoses, moderate metallic sheen, newspaper from 1971)	
13–14				50% refuse	
15–17	G24-16			SILT (ML): gray, moist, 80% fines, 20% fine and coarse gravel, low plasticity, rounded to sub-rounded gravel, scattered red roots	
18				Bottom of test pit at 18.0 feet. Test pit backfilled with refuse and soil.	
19					

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-25**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/30/10 / DATE FINISHED: 3/30/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 19.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 10.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:		REMARKS
1–19					WOOD: brown, moist, 100% wood, scraps, peeled logs, sawdust		
					REFUSE MATERIAL: POORLY GRADED SAND with SILT and GRAVEL (SP-SM): gray, moist, 70% fine to coarse sand, 20% fine gravel, 10% non-plastic fines, 10% refuse (metal pieces, bricks, shingles, hoses)		
10					▼ wet		
					POORLY GRADED SAND (SP): gray, wet, 100% fine sand		

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill
Anacortes, Washington

Log of Boring No. G-25 (cont'd)

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		REMARKS
20					Bottom of test pit at 19.0 feet. Test pit backfilled with refuse and soil.		No standing water in the bottom of the test pit. Fine sand appears well draining.
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-26**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/30/10 / DATE FINISHED: 3/30/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 18.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 10.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:		REMARKS
1					SILTY SAND with GRAVEL (SM): dark brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel up to 4" in diameter, wood pieces		
3					REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): dark brown, moist, 50% fine to coarse sand, 30% fine and coarse gravel, 20% non-plastic fines, 10% refuse (cans, bottles)		
6					SILTY SAND (SM): gray, moist, 80% fine to coarse sand, 20% non-plastic fines		
10					POORLY GRADED SAND (SP): gray, wet, 100% fine sand, slight silvery sheen, blackened in areas		
18					Bottom of test pit at 18.0 feet. Test pit backfilled with refuse and soil.		
19							

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-28**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 4/1/10 / DATE FINISHED: 4/1/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 10.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 7.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1					SILTY SAND with GRAVEL (SM): brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel	
2					REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): very dark brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel, 30% refuse (yellow bricks, hoses, plastic, bottles, heating oil tank, rusty weathering, burned areas)	
3						
4						
5					▼ 55% fine to coarse sand, 30% non-plastic fines, 15% fine and coarse gravel, orange mottling, 20% refuse	
6						
7					POORLY GRADED GRAVEL with SAND (GP): gray, wet, 65% fine and coarse gravel, 35% fine to coarse sand, subrounded	
8						
9						
10					Bottom of test pit at 10.0 feet. Test pit backfilled with refuse and soil.	
11						
12						
13						
14						
15						
16						
17						
18						
19						

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-29**	
TEST PIT LOCATION:	ELEVATION AND DATUM:	
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/31/10	DATE FINISHED: 3/31/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 10.0	MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 6.5	
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown	
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher	REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1–2				SILTY SAND with GRAVEL (SM): brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel	
2–5				REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel, 5% refuse (red brick, wire, wood, glass)	
5–6.5				REFUSE MATERIAL: POORLY GRADED SAND with GRAVEL (SP): brown, moist, 70% fine to coarse sand, 30% fine and coarse gravel, 50% refuse (metal scraps, wire, glass), rusty weathering	
6.5–10	G29-9	■		POORLY GRADED SAND with GRAVEL (SP): gray, wet, 70% fine to coarse sand, 30% fine and coarse gravel, moderate oily sheen, strong petroleum-like odor, light brown free product on water	
10				Bottom of test pit at 10.0 feet. Test pit backfilled with refuse and soil.	
11–19					

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-30**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/31/10 / DATE FINISHED: 3/31/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 7.5 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 7.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1–3				SILTY SAND with GRAVEL (SM): brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel	
4–6				REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel, 10% refuse (cans, tubing, crushed yellow brick) gray and black, strong petroleum odor, heavy sheen	
7	G30-7	■		SILT (ML): dark gray, wet, 100% fines, low plasticity, black oily sheen, free product on water	Small piece of drum, oozing sediment. Sample of ooze collected G30-D. Test pit abandoned due to caving sidewalls and very wet conditions
8				Bottom of test pit at 7.5 feet. Test pit backfilled with refuse and soil.	
9–19					

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-32**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 4/1/10 / DATE FINISHED: 4/1/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 18.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 10.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1				WOOD: brown, moist, 80% wood waste, 20% cobbles, 2-4" quarry spall	
2					
3				SILTY SAND with GRAVEL (SM): gray, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine gravel and cobbles	
4					
5				REFUSE MATERIAL: SILTY SAND with GRAVEL: (SM): gray, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine gravel and cobbles, 30% refuse (wood debris, glass, tires, plastic, paper)	
6					
7					
8					
9					
10				▼ wet, slight silvery sheen	
11				▼ crushed 5-gallon bucket, mattress springs, scrap metal pieces	
12	G20-12	■		▼ petroleum odor	
13					
14					Hole caving and undermining. Abandon due to instability.
15					
16					
17					
18				Bottom of test pit at 18.0 feet. Test pit backfilled with refuse and soil.	
19					

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-34**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 4/1/10 / DATE FINISHED: 4/1/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 18.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 10.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES: Sample No.	SAMPLES: Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1				WOOD: brown, moist, 100% wood (sawdust, wood chips, large wood pieces)	
2					
3					
4					
5					
6				scattered pieces of asphalt, cable	
7				REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): gray, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel, 50% refuse (cans, plastic, bottles, cables, hubcap, plywood, composite shingles) burned black appearance	
8					
9					
10				wet	
11					
12					
13					
14					
15					
16					
17					
18				Bottom of test pit at 18.0 feet. Test pit backfilled with refuse and soil.	
19					

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-35**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 4/1/10 / DATE FINISHED: 4/1/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 19.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 13.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1–6				WOOD: reddish brown, 100% wood waste (strips, chips, branches)	
7–11				REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): gray, 65% fine to coarse sand, 20% non-plastic fines, 15% fine gravel, 40% refuse (bottles, red brick, springs, oven door, steel pipe) burnt appearance	
12–19	G35-15	■		REFUSE MATERIAL: POORLY GRADED SAND (SP): light gray, 95% fine sand, 5% non-plastic fines, 10% refuse (rusted 5 gallon bucket, bottles, cans, small burnt pieces of wood, box of insecticide), strong burnt odor ▼ wet	Test pit is caving and undermining in the sand unit.

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill
Anacortes, Washington

Log of Boring No. G-35 (cont'd)

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		REMARKS
20					Bottom of test pit at 19.0 feet. Test pit backfilled with refuse and soil.		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-36**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 4/1/10 / DATE FINISHED: 4/1/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 18.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 11.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1					WOOD: reddish brown, moist, 100% wood waste (wood strips, sawdust, logs), scattered cobbles	
2						
3						
4						
5						
6					SILTY SAND with GRAVEL (SM): gray, moist, 60% fine to coarse sand, 20% low plasticity fines, 20% fine gravel, scattered coarse gravel, small water seeps	
7						
8					REFUSE MATERIAL: SILTY SAND (SM): gray, moist, 80% fine to coarse sand, 20% non-plastic fines, 50% refuse (plastic bottles, glass, paper, water heater, hoses, wood pieces)	
9						
10						sidewalls caving
11					wet, metallic sheen, strong landfill odor	
12						
13						
14						
15						Rolling Stone Magazine, April 1973
16						
17						
18					Bottom of test pit at 18.0 feet. Test pit backfilled with refuse and soil.	
19						

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-37**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 3/31/10 / DATE FINISHED: 3/31/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 14.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 7.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample	OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1				SILTY SAND with GRAVEL (SM): brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel	
2					
3				REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): brown, moist, 65% fine to medium sand, 20% non-plastic fines, 15% fine and coarse gravel, 10% refuse (pieces of wood, concrete), strong petroleum odor, black weathering	
4					
5					
6				POORLY GRADED SAND with GRAVEL (SP): gray, moist, 60% fine to coarse sand, 40% fine and coarse gravel	
7				▼ heavy yellowish brown sheen, free product floating on water	
8					
9					
10	G37-10	■		POORLY GRADED GRAVEL with SAND (GP): gray, moist, 55% fine and coarse gravel, 40% fine to coarse sand, 5% fines, scattered roots in fines, strong petroleum-like odor	
11					
12					
13					
14				Bottom of test pit at 14.0 feet. Test pit backfilled with refuse and soil.	Test pit sidewalls caving in, abandon test pit at 14.0 feet.
15					
16					
17					
18					
19					

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-38**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 4/5/10 / DATE FINISHED: 4/5/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 18.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 7.0 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1					REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): brown, moist, 65% fine to coarse sand, 20% non-plastic fines, 15% fine and coarse gravel, 20% refuse (plastic bottles, asphalt, creosote covered railroad ties, car radiator)	
3					REFUSE MATERIAL: POORLY GRADED GRAVEL with SILT and SAND (GP-GM): gray, moist, 65% fine and coarse gravel, 25% fine to coarse sand, 10% non-plastic fines, 10% refuse	
5					POORLY GRADED GRAVEL with SAND (GP): gray, moist, 50% fine and coarse gravel, 30% fine to coarse sand, 20% cobbles	
7					▼ wet	
12						Test pit sidewalls are staying vertical.
18					Bottom of test pit at 18.0 feet. Test pit backfilled with excavated soil.	Gravels below water table are sloughing in,
19						

OAKTESTPIT (REV. 6/03)

PROJECT: Skagit Whitmarsh Landfill
Anacortes, Washington

Log of Boring No. G-38 (cont'd)

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		REMARKS
20							excavator not making progress digging deeper.
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-39**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 4/5/10 / DATE FINISHED: 4/5/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 14.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 12.5 / NA
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:		REMARKS
1					POORLY GRADED GRAVEL with SILT and SAND (GP-GM): gray, moist, 65% fine and coarse gravel, 25% fine to coarse sand, 10% non-plastic fines		
2					REFUSE MATERIAL: SILTY SAND (SM): brown, moist, 70% fine to coarse sand, 30% non-plastic fines, 20% refuse (wood debris, glass, yellow brick, metal scraps)		
3							
4							
5					POORLY GRADED GRAVEL with SAND (GP): gray, moist, 70% fine and coarse gravel, 30% fine to coarse sand, strong petroleum-like odor, heavy sheen		
6							
7							
8							
9							
10							
11							
12					wet, brown product on surface of water		
13							
14					Bottom of test pit at 14.0 feet. Test pit backfilled with refuse and soil.		Test pit abandoned when gravels are washing into the bottom underneath the water table.
15							
16							
17							
18							
19							

PROJECT: Skagit Whitmarsh Landfill Anacortes, Washington	**Test Pit Log No. G-40**
TEST PIT LOCATION:	ELEVATION AND DATUM:
EXCAVATION CONTRACTOR: Clearcreek Contractors Inc.	DATE STARTED: 4/5/10 / DATE FINISHED: 4/5/10
OPERATOR: Andrew Hinton	TOTAL DEPTH (ft): 12.0 / MEASURING POINT: Ground Surface
EXCAVATION EQUIPMENT: Hitachi 200	DEPTH TO WATER: FIRST 9.0
EXCAVATION BUCKET DIMENSIONS: 1.5 Cubic Yard Bucket	LOGGED BY: C. Brown
SAMPLING METHOD: Grab	RESPONSIBLE PROFESSIONAL: N. Bacher / REG. NO. L.G. 2528

DEPTH (feet)	SAMPLES Sample No.	SAMPLES Sample		OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter. Surface Elevation:	REMARKS
1					POORLY GRADED GRAVEL with SILT and SAND (GP-GM): gray, moist, 65% fine and coarse gravel, 25% fine to coarse sand, 10% non-plastic fines	
2					REFUSE MATERIAL: SILTY SAND with GRAVEL (SM): gray, moist, 55% fine to coarse sand, 30% fine and coarse gravel, 15% non-plastic fines, 10% refuse (wood debris, glass, yellow brick, concrete)	
4					POORLY GRADED GRAVEL with SAND (GP): brown, moist, 70% fine and coarse gravel, 30% fine to coarse sand	
9					▼ wet	
12					Bottom of test pit at 12.0 feet. Test pit backfilled with excavated refuse and soil.	

OAKTESTPIT (REV. 6/03)

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/1/2025	6:00	0.47	5:47	20:22	Potential Work Window
5/1/2025	6:30	-1.32	5:47	20:22	Potential Work Window
5/1/2025	7:00	-2.37	5:47	20:22	Potential Work Window
5/1/2025	7:30	-2.48	5:47	20:22	Potential Work Window
5/1/2025	8:00	-1.68	5:47	20:22	Potential Work Window
5/1/2025	8:30	-0.03	5:47	20:22	Potential Work Window
5/1/2025	9:00	2.25	5:47	20:22	Potential Work Window
5/1/2025	9:30	4.65	5:47	20:22	Potential Work Window
5/1/2025	10:00	6.69	5:47	20:22	Potential Work Window
5/2/2025	13:00	7.49	5:45	20:23	Potential Work Window
5/2/2025	13:30	7.09	5:45	20:23	Potential Work Window
5/2/2025	14:00	6.94	5:45	20:23	Potential Work Window
5/2/2025	14:30	7.00	5:45	20:23	Potential Work Window
5/2/2025	15:00	7.26	5:45	20:23	Potential Work Window
5/2/2025	15:30	7.50	5:45	20:23	Potential Work Window
5/2/2025	16:00	7.36	5:45	20:23	Potential Work Window
5/2/2025	16:30	6.74	5:45	20:23	Potential Work Window
5/2/2025	17:00	5.67	5:45	20:23	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/3/2025	6:00	4.15	5:43	20:25	Potential Work Window
5/3/2025	6:30	2.70	5:43	20:25	Potential Work Window
5/3/2025	7:00	1.17	5:43	20:25	Potential Work Window
5/3/2025	7:30	-0.12	5:43	20:25	Potential Work Window
5/3/2025	8:00	-0.83	5:43	20:25	Potential Work Window
5/3/2025	8:30	-0.85	5:43	20:25	Potential Work Window
5/3/2025	9:00	-0.18	5:43	20:25	Potential Work Window
5/3/2025	9:30	1.20	5:43	20:25	Potential Work Window
5/3/2025	10:00	3.09	5:43	20:25	Potential Work Window
5/3/2025	10:30	5.04	5:43	20:25	Potential Work Window
5/3/2025	11:00	6.70	5:43	20:25	Potential Work Window
5/3/2025	11:30	7.94	5:43	20:25	Potential Work Window
5/4/2025	13:30	7.83	5:42	20:26	Potential Work Window
5/4/2025	14:00	7.14	5:42	20:26	Potential Work Window
5/4/2025	14:30	6.57	5:42	20:26	Potential Work Window
5/4/2025	15:00	6.13	5:42	20:26	Potential Work Window
5/4/2025	15:30	5.91	5:42	20:26	Potential Work Window
5/4/2025	16:00	5.97	5:42	20:26	Potential Work Window
5/4/2025	16:30	6.09	5:42	20:26	Potential Work Window
5/4/2025	17:00	6.04	5:42	20:26	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/5/2025	6:00	5.40	5:40	20:28	Potential Work Window
5/5/2025	6:30	5.14	5:40	20:28	Potential Work Window
5/5/2025	7:00	4.57	5:40	20:28	Potential Work Window
5/5/2025	7:30	3.67	5:40	20:28	Potential Work Window
5/5/2025	8:00	2.59	5:40	20:28	Potential Work Window
5/5/2025	8:30	1.63	5:40	20:28	Potential Work Window
5/5/2025	9:00	1.05	5:40	20:28	Potential Work Window
5/5/2025	9:30	0.94	5:40	20:28	Potential Work Window
5/5/2025	10:00	1.41	5:40	20:28	Potential Work Window
5/5/2025	10:30	2.54	5:40	20:28	Potential Work Window
5/5/2025	11:00	4.09	5:40	20:28	Potential Work Window
5/5/2025	11:30	5.67	5:40	20:28	Potential Work Window
5/6/2025	12:00	7.03	5:39	20:29	Potential Work Window
5/6/2025	14:00	7.80	5:39	20:29	Potential Work Window
5/6/2025	14:30	6.86	5:39	20:29	Potential Work Window
5/6/2025	15:00	5.86	5:39	20:29	Potential Work Window
5/6/2025	15:30	4.97	5:39	20:29	Potential Work Window
5/6/2025	16:00	4.29	5:39	20:29	Potential Work Window
5/6/2025	16:30	4.01	5:39	20:29	Potential Work Window
5/6/2025	17:00	4.20	5:39	20:29	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/7/2025	6:00	4.05	5:37	20:30	Potential Work Window
5/7/2025	6:30	4.72	5:37	20:30	Potential Work Window
5/7/2025	7:00	5.28	5:37	20:30	Potential Work Window
5/7/2025	7:30	5.57	5:37	20:30	Potential Work Window
5/7/2025	8:00	5.44	5:37	20:30	Potential Work Window
5/7/2025	8:30	4.89	5:37	20:30	Potential Work Window
5/7/2025	9:00	4.08	5:37	20:30	Potential Work Window
5/7/2025	9:30	3.34	5:37	20:30	Potential Work Window
5/7/2025	10:00	2.88	5:37	20:30	Potential Work Window
5/7/2025	10:30	2.82	5:37	20:30	Potential Work Window
5/7/2025	11:00	3.29	5:37	20:30	Potential Work Window
5/7/2025	11:30	4.34	5:37	20:30	Potential Work Window
5/8/2025	12:00	5.67	5:35	20:32	Potential Work Window
5/8/2025	12:30	6.88	5:35	20:32	Potential Work Window
5/8/2025	13:00	7.78	5:35	20:32	Potential Work Window
5/8/2025	14:30	7.36	5:35	20:32	Potential Work Window
5/8/2025	15:00	6.12	5:35	20:32	Potential Work Window
5/8/2025	15:30	4.69	5:35	20:32	Potential Work Window
5/8/2025	16:00	3.40	5:35	20:32	Potential Work Window
5/8/2025	16:30	2.42	5:35	20:32	Potential Work Window
5/8/2025	17:00	1.91	5:35	20:32	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/9/2025	6:00	1.51	5:34	20:33	Potential Work Window
5/9/2025	6:30	2.64	5:34	20:33	Potential Work Window
5/9/2025	7:00	3.94	5:34	20:33	Potential Work Window
5/9/2025	7:30	5.15	5:34	20:33	Potential Work Window
5/9/2025	8:00	6.10	5:34	20:33	Potential Work Window
5/9/2025	8:30	6.62	5:34	20:33	Potential Work Window
5/9/2025	9:00	6.61	5:34	20:33	Potential Work Window
5/9/2025	9:30	6.14	5:34	20:33	Potential Work Window
5/9/2025	10:00	5.47	5:34	20:33	Potential Work Window
5/9/2025	10:30	4.92	5:34	20:33	Potential Work Window
5/9/2025	11:00	4.67	5:34	20:33	Potential Work Window
5/9/2025	11:30	4.76	5:34	20:33	Potential Work Window
5/10/2025	12:00	5.33	5:33	20:34	Potential Work Window
5/10/2025	12:30	6.27	5:33	20:34	Potential Work Window
5/10/2025	13:00	7.19	5:33	20:34	Potential Work Window
5/10/2025	13:30	7.78	5:33	20:34	Potential Work Window
5/10/2025	14:00	7.92	5:33	20:34	Potential Work Window
5/10/2025	14:30	7.50	5:33	20:34	Potential Work Window
5/10/2025	15:00	6.49	5:33	20:34	Potential Work Window
5/10/2025	15:30	4.98	5:33	20:34	Potential Work Window
5/10/2025	16:00	3.23	5:33	20:34	Potential Work Window
5/10/2025	16:30	1.66	5:33	20:34	Potential Work Window
5/10/2025	17:00	0.57	5:33	20:34	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/11/2025	6:00	-0.52	5:31	20:36	Potential Work Window
5/11/2025	6:30	0.24	5:31	20:36	Potential Work Window
5/11/2025	7:00	1.72	5:31	20:36	Potential Work Window
5/11/2025	7:30	3.53	5:31	20:36	Potential Work Window
5/11/2025	8:00	5.23	5:31	20:36	Potential Work Window
5/11/2025	8:30	6.61	5:31	20:36	Potential Work Window
5/11/2025	9:00	7.51	5:31	20:36	Potential Work Window
5/11/2025	9:30	7.85	5:31	20:36	Potential Work Window
5/11/2025	10:00	7.64	5:31	20:36	Potential Work Window
5/11/2025	10:30	7.08	5:31	20:36	Potential Work Window
5/11/2025	11:00	6.48	5:31	20:36	Potential Work Window
5/11/2025	11:30	6.12	5:31	20:36	Potential Work Window
5/12/2025	12:00	6.04	5:30	20:37	Potential Work Window
5/12/2025	12:30	6.24	5:30	20:37	Potential Work Window
5/12/2025	13:00	6.76	5:30	20:37	Potential Work Window
5/12/2025	13:30	7.37	5:30	20:37	Potential Work Window
5/12/2025	14:00	7.66	5:30	20:37	Potential Work Window
5/12/2025	14:30	7.46	5:30	20:37	Potential Work Window
5/12/2025	15:00	6.75	5:30	20:37	Potential Work Window
5/12/2025	15:30	5.53	5:30	20:37	Potential Work Window
5/12/2025	16:00	3.88	5:30	20:37	Potential Work Window
5/12/2025	16:30	2.02	5:30	20:37	Potential Work Window
5/12/2025	17:00	0.34	5:30	20:37	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/13/2025	5:30	-0.64	5:28	20:39	Potential Work Window
5/13/2025	6:00	-1.36	5:28	20:39	Potential Work Window
5/13/2025	6:30	-1.24	5:28	20:39	Potential Work Window
5/13/2025	7:00	-0.35	5:28	20:39	Potential Work Window
5/13/2025	7:30	1.26	5:28	20:39	Potential Work Window
5/13/2025	8:00	3.33	5:28	20:39	Potential Work Window
5/13/2025	8:30	5.35	5:28	20:39	Potential Work Window
5/13/2025	9:00	6.97	5:28	20:39	Potential Work Window
5/13/2025	11:30	7.37	5:28	20:39	Potential Work Window
5/14/2025	12:00	6.88	5:27	20:40	Potential Work Window
5/14/2025	12:30	6.69	5:27	20:40	Potential Work Window
5/14/2025	13:00	6.71	5:27	20:40	Potential Work Window
5/14/2025	13:30	6.91	5:27	20:40	Potential Work Window
5/14/2025	14:00	7.24	5:27	20:40	Potential Work Window
5/14/2025	14:30	7.39	5:27	20:40	Potential Work Window
5/14/2025	15:00	7.07	5:27	20:40	Potential Work Window
5/14/2025	15:30	6.24	5:27	20:40	Potential Work Window
5/14/2025	16:00	4.98	5:27	20:40	Potential Work Window
5/14/2025	16:30	3.37	5:27	20:40	Potential Work Window
5/14/2025	17:00	1.58	5:27	20:40	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/15/2025	5:30	0.84	5:26	20:41	Potential Work Window
5/15/2025	6:00	-0.63	5:26	20:41	Potential Work Window
5/15/2025	6:30	-1.47	5:26	20:41	Potential Work Window
5/15/2025	7:00	-1.44	5:26	20:41	Potential Work Window
5/15/2025	7:30	-0.63	5:26	20:41	Potential Work Window
5/15/2025	8:00	0.85	5:26	20:41	Potential Work Window
5/15/2025	8:30	2.84	5:26	20:41	Potential Work Window
5/15/2025	9:00	4.97	5:26	20:41	Potential Work Window
5/15/2025	9:30	6.76	5:26	20:41	Potential Work Window
5/15/2025	10:00	8.00	5:26	20:41	Potential Work Window
5/16/2025	12:00	7.83	5:24	20:42	Potential Work Window
5/16/2025	12:30	7.24	5:24	20:42	Potential Work Window
5/16/2025	13:00	6.92	5:24	20:42	Potential Work Window
5/16/2025	13:30	6.85	5:24	20:42	Potential Work Window
5/16/2025	14:00	6.90	5:24	20:42	Potential Work Window
5/16/2025	14:30	7.04	5:24	20:42	Potential Work Window
5/16/2025	15:00	7.14	5:24	20:42	Potential Work Window
5/16/2025	15:30	6.90	5:24	20:42	Potential Work Window
5/16/2025	16:00	6.18	5:24	20:42	Potential Work Window
5/16/2025	16:30	5.04	5:24	20:42	Potential Work Window
5/16/2025	17:00	3.60	5:24	20:42	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/17/2025	5:30	3.17	5:23	20:44	Potential Work Window
5/17/2025	6:00	1.62	5:23	20:44	Potential Work Window
5/17/2025	6:30	0.16	5:23	20:44	Potential Work Window
5/17/2025	7:00	-0.90	5:23	20:44	Potential Work Window
5/17/2025	7:30	-1.23	5:23	20:44	Potential Work Window
5/17/2025	8:00	-0.76	5:23	20:44	Potential Work Window
5/17/2025	8:30	0.38	5:23	20:44	Potential Work Window
5/17/2025	9:00	2.05	5:23	20:44	Potential Work Window
5/17/2025	9:30	4.05	5:23	20:44	Potential Work Window
5/17/2025	10:00	5.96	5:23	20:44	Potential Work Window
5/17/2025	10:30	7.41	5:23	20:44	Potential Work Window
5/18/2025	13:00	7.49	5:22	20:45	Potential Work Window
5/18/2025	13:30	6.98	5:22	20:45	Potential Work Window
5/18/2025	14:00	6.74	5:22	20:45	Potential Work Window
5/18/2025	14:30	6.66	5:22	20:45	Potential Work Window
5/18/2025	15:00	6.64	5:22	20:45	Potential Work Window
5/18/2025	15:30	6.68	5:22	20:45	Potential Work Window
5/18/2025	16:00	6.63	5:22	20:45	Potential Work Window
5/18/2025	16:30	6.21	5:22	20:45	Potential Work Window
5/18/2025	17:00	5.39	5:22	20:45	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/19/2025	5:30	5.06	5:21	20:46	Potential Work Window
5/19/2025	6:00	4.06	5:21	20:46	Potential Work Window
5/19/2025	6:30	2.87	5:21	20:46	Potential Work Window
5/19/2025	7:00	1.59	5:21	20:46	Potential Work Window
5/19/2025	7:30	0.44	5:21	20:46	Potential Work Window
5/19/2025	8:00	-0.27	5:21	20:46	Potential Work Window
5/19/2025	8:30	-0.28	5:21	20:46	Potential Work Window
5/19/2025	9:00	0.41	5:21	20:46	Potential Work Window
5/19/2025	9:30	1.63	5:21	20:46	Potential Work Window
5/19/2025	10:00	3.31	5:21	20:46	Potential Work Window
5/19/2025	10:30	5.19	5:21	20:46	Potential Work Window
5/19/2025	11:00	6.84	5:21	20:46	Potential Work Window
5/19/2025	11:30	7.98	5:21	20:46	Potential Work Window
5/20/2025	13:30	7.55	5:20	20:48	Potential Work Window
5/20/2025	14:00	6.70	5:20	20:48	Potential Work Window
5/20/2025	14:30	6.02	5:20	20:48	Potential Work Window
5/20/2025	15:00	5.60	5:20	20:48	Potential Work Window
5/20/2025	15:30	5.38	5:20	20:48	Potential Work Window
5/20/2025	16:00	5.34	5:20	20:48	Potential Work Window
5/20/2025	16:30	5.48	5:20	20:48	Potential Work Window
5/20/2025	17:00	5.58	5:20	20:48	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/21/2025	5:30	4.98	5:19	20:49	Potential Work Window
5/21/2025	6:00	5.07	5:19	20:49	Potential Work Window
5/21/2025	6:30	4.86	5:19	20:49	Potential Work Window
5/21/2025	7:00	4.38	5:19	20:49	Potential Work Window
5/21/2025	7:30	3.62	5:19	20:49	Potential Work Window
5/21/2025	8:00	2.72	5:19	20:49	Potential Work Window
5/21/2025	8:30	1.88	5:19	20:49	Potential Work Window
5/21/2025	9:00	1.43	5:19	20:49	Potential Work Window
5/21/2025	9:30	1.60	5:19	20:49	Potential Work Window
5/21/2025	10:00	2.34	5:19	20:49	Potential Work Window
5/21/2025	10:30	3.55	5:19	20:49	Potential Work Window
5/21/2025	11:00	5.14	5:19	20:49	Potential Work Window
5/21/2025	11:30	6.78	5:19	20:49	Potential Work Window
5/22/2025	14:00	7.21	5:18	20:50	Potential Work Window
5/22/2025	14:30	5.85	5:18	20:50	Potential Work Window
5/22/2025	15:00	4.49	5:18	20:50	Potential Work Window
5/22/2025	15:30	3.44	5:18	20:50	Potential Work Window
5/22/2025	16:00	2.86	5:18	20:50	Potential Work Window
5/22/2025	16:30	2.71	5:18	20:50	Potential Work Window
5/22/2025	17:00	3.04	5:18	20:50	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/23/2025	5:30	1.92	5:17	20:51	Potential Work Window
5/23/2025	6:00	3.11	5:17	20:51	Potential Work Window
5/23/2025	6:30	4.32	5:17	20:51	Potential Work Window
5/23/2025	7:00	5.25	5:17	20:51	Potential Work Window
5/23/2025	7:30	5.79	5:17	20:51	Potential Work Window
5/23/2025	8:00	5.90	5:17	20:51	Potential Work Window
5/23/2025	8:30	5.57	5:17	20:51	Potential Work Window
5/23/2025	9:00	4.93	5:17	20:51	Potential Work Window
5/23/2025	9:30	4.27	5:17	20:51	Potential Work Window
5/23/2025	10:00	3.94	5:17	20:51	Potential Work Window
5/23/2025	10:30	4.13	5:17	20:51	Potential Work Window
5/23/2025	11:00	4.79	5:17	20:51	Potential Work Window
5/23/2025	11:30	5.86	5:17	20:51	Potential Work Window
5/24/2025	12:00	7.18	5:16	20:52	Potential Work Window
5/24/2025	14:30	6.66	5:16	20:52	Potential Work Window
5/24/2025	15:00	4.78	5:16	20:52	Potential Work Window
5/24/2025	15:30	2.73	5:16	20:52	Potential Work Window
5/24/2025	16:00	0.94	5:16	20:52	Potential Work Window
5/24/2025	16:30	-0.19	5:16	20:52	Potential Work Window
5/24/2025	17:00	-0.54	5:16	20:52	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/25/2025	5:30	-1.85	5:15	20:53	Potential Work Window
5/25/2025	6:00	-0.99	5:15	20:53	Potential Work Window
5/25/2025	6:30	0.72	5:15	20:53	Potential Work Window
5/25/2025	7:00	2.88	5:15	20:53	Potential Work Window
5/25/2025	7:30	4.94	5:15	20:53	Potential Work Window
5/25/2025	8:00	6.56	5:15	20:53	Potential Work Window
5/25/2025	8:30	7.62	5:15	20:53	Potential Work Window
5/25/2025	9:30	7.82	5:15	20:53	Potential Work Window
5/25/2025	10:00	7.21	5:15	20:53	Potential Work Window
5/25/2025	10:30	6.54	5:15	20:53	Potential Work Window
5/25/2025	11:00	6.20	5:15	20:53	Potential Work Window
5/25/2025	11:30	6.29	5:15	20:53	Potential Work Window
5/26/2025	12:00	6.76	5:14	20:55	Potential Work Window
5/26/2025	12:30	7.56	5:14	20:55	Potential Work Window
5/26/2025	14:30	7.94	5:14	20:55	Potential Work Window
5/26/2025	15:00	6.39	5:14	20:55	Potential Work Window
5/26/2025	15:30	4.28	5:14	20:55	Potential Work Window
5/26/2025	16:00	1.86	5:14	20:55	Potential Work Window
5/26/2025	16:30	-0.46	5:14	20:55	Potential Work Window
5/26/2025	17:00	-2.17	5:14	20:55	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/27/2025	5:30	-3.01	5:13	20:56	Potential Work Window
5/27/2025	6:00	-3.48	5:13	20:56	Potential Work Window
5/27/2025	6:30	-2.87	5:13	20:56	Potential Work Window
5/27/2025	7:00	-1.24	5:13	20:56	Potential Work Window
5/27/2025	7:30	1.19	5:13	20:56	Potential Work Window
5/27/2025	8:00	3.87	5:13	20:56	Potential Work Window
5/27/2025	8:30	6.24	5:13	20:56	Potential Work Window
5/27/2025	11:30	7.67	5:13	20:56	Potential Work Window
5/28/2025	12:00	7.27	5:12	20:57	Potential Work Window
5/28/2025	12:30	7.24	5:12	20:57	Potential Work Window
5/28/2025	13:00	7.51	5:12	20:57	Potential Work Window
5/28/2025	15:00	7.88	5:12	20:57	Potential Work Window
5/28/2025	15:30	6.59	5:12	20:57	Potential Work Window
5/28/2025	16:00	4.72	5:12	20:57	Potential Work Window
5/28/2025	16:30	2.44	5:12	20:57	Potential Work Window
5/28/2025	17:00	0.03	5:12	20:57	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/29/2025	5:30	-0.26	5:11	20:58	Potential Work Window
5/29/2025	6:00	-2.09	5:11	20:58	Potential Work Window
5/29/2025	6:30	-3.08	5:11	20:58	Potential Work Window
5/29/2025	7:00	-3.05	5:11	20:58	Potential Work Window
5/29/2025	7:30	-2.02	5:11	20:58	Potential Work Window
5/29/2025	8:00	-0.07	5:11	20:58	Potential Work Window
5/29/2025	8:30	2.48	5:11	20:58	Potential Work Window
5/29/2025	9:00	5.06	5:11	20:58	Potential Work Window
5/29/2025	9:30	7.21	5:11	20:58	Potential Work Window
5/30/2025	12:30	7.61	5:10	20:59	Potential Work Window
5/30/2025	13:00	7.19	5:10	20:59	Potential Work Window
5/30/2025	13:30	7.05	5:10	20:59	Potential Work Window
5/30/2025	14:00	7.18	5:10	20:59	Potential Work Window
5/30/2025	14:30	7.53	5:10	20:59	Potential Work Window
5/30/2025	15:00	7.75	5:10	20:59	Potential Work Window
5/30/2025	15:30	7.54	5:10	20:59	Potential Work Window
5/30/2025	16:00	6.78	5:10	20:59	Potential Work Window
5/30/2025	16:30	5.53	5:10	20:59	Potential Work Window
5/30/2025	17:00	3.82	5:10	20:59	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
5/31/2025	5:30	3.64	5:10	21:00	Potential Work Window
5/31/2025	6:00	1.89	5:10	21:00	Potential Work Window
5/31/2025	6:30	0.16	5:10	21:00	Potential Work Window
5/31/2025	7:00	-1.12	5:10	21:00	Potential Work Window
5/31/2025	7:30	-1.65	5:10	21:00	Potential Work Window
5/31/2025	8:00	-1.34	5:10	21:00	Potential Work Window
5/31/2025	8:30	-0.22	5:10	21:00	Potential Work Window
5/31/2025	9:00	1.64	5:10	21:00	Potential Work Window
5/31/2025	9:30	3.89	5:10	21:00	Potential Work Window
5/31/2025	10:00	6.01	5:10	21:00	Potential Work Window
5/31/2025	10:30	7.69	5:10	21:00	Potential Work Window
6/1/2025	13:00	7.60	5:09	21:01	Potential Work Window
6/1/2025	13:30	6.86	5:09	21:01	Potential Work Window
6/1/2025	14:00	6.34	5:09	21:01	Potential Work Window
6/1/2025	14:30	6.05	5:09	21:01	Potential Work Window
6/1/2025	15:00	6.04	5:09	21:01	Potential Work Window
6/1/2025	15:30	6.26	5:09	21:01	Potential Work Window
6/1/2025	16:00	6.41	5:09	21:01	Potential Work Window
6/1/2025	16:30	6.23	5:09	21:01	Potential Work Window
6/1/2025	17:00	5.71	5:09	21:01	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/2/2025	5:30	5.22	5:08	21:02	Potential Work Window
6/2/2025	6:00	4.63	5:08	21:02	Potential Work Window
6/2/2025	6:30	3.72	5:08	21:02	Potential Work Window
6/2/2025	7:00	2.60	5:08	21:02	Potential Work Window
6/2/2025	7:30	1.50	5:08	21:02	Potential Work Window
6/2/2025	8:00	0.77	5:08	21:02	Potential Work Window
6/2/2025	8:30	0.61	5:08	21:02	Potential Work Window
6/2/2025	9:00	1.02	5:08	21:02	Potential Work Window
6/2/2025	9:30	2.05	5:08	21:02	Potential Work Window
6/2/2025	10:00	3.64	5:08	21:02	Potential Work Window
6/2/2025	10:30	5.42	5:08	21:02	Potential Work Window
6/2/2025	11:00	6.98	5:08	21:02	Potential Work Window
6/3/2025	13:30	7.38	5:08	21:03	Potential Work Window
6/3/2025	14:00	6.31	5:08	21:03	Potential Work Window
6/3/2025	14:30	5.36	5:08	21:03	Potential Work Window
6/3/2025	15:00	4.62	5:08	21:03	Potential Work Window
6/3/2025	15:30	4.16	5:08	21:03	Potential Work Window
6/3/2025	16:00	4.11	5:08	21:03	Potential Work Window
6/3/2025	16:30	4.40	5:08	21:03	Potential Work Window
6/3/2025	17:00	4.72	5:08	21:03	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/4/2025	5:30	4.02	5:07	21:03	Potential Work Window
6/4/2025	6:00	4.49	5:07	21:03	Potential Work Window
6/4/2025	6:30	4.81	5:07	21:03	Potential Work Window
6/4/2025	7:00	4.88	5:07	21:03	Potential Work Window
6/4/2025	7:30	4.62	5:07	21:03	Potential Work Window
6/4/2025	8:00	4.11	5:07	21:03	Potential Work Window
6/4/2025	8:30	3.56	5:07	21:03	Potential Work Window
6/4/2025	9:00	3.24	5:07	21:03	Potential Work Window
6/4/2025	9:30	3.26	5:07	21:03	Potential Work Window
6/4/2025	10:00	3.64	5:07	21:03	Potential Work Window
6/4/2025	10:30	4.48	5:07	21:03	Potential Work Window
6/4/2025	11:00	5.70	5:07	21:03	Potential Work Window
6/4/2025	11:30	6.92	5:07	21:03	Potential Work Window
6/5/2025	12:00	7.86	5:07	21:04	Potential Work Window
6/5/2025	13:30	7.88	5:07	21:04	Potential Work Window
6/5/2025	14:00	6.82	5:07	21:04	Potential Work Window
6/5/2025	14:30	5.44	5:07	21:04	Potential Work Window
6/5/2025	15:00	4.05	5:07	21:04	Potential Work Window
6/5/2025	15:30	2.90	5:07	21:04	Potential Work Window
6/5/2025	16:00	2.08	5:07	21:04	Potential Work Window
6/5/2025	16:30	1.76	5:07	21:04	Potential Work Window
6/5/2025	17:00	2.06	5:07	21:04	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/6/2025	5:30	1.42	5:06	21:05	Potential Work Window
6/6/2025	6:00	2.49	5:06	21:05	Potential Work Window
6/6/2025	6:30	3.67	5:06	21:05	Potential Work Window
6/6/2025	7:00	4.77	5:06	21:05	Potential Work Window
6/6/2025	7:30	5.67	5:06	21:05	Potential Work Window
6/6/2025	8:00	6.21	5:06	21:05	Potential Work Window
6/6/2025	8:30	6.32	5:06	21:05	Potential Work Window
6/6/2025	9:00	6.09	5:06	21:05	Potential Work Window
6/6/2025	9:30	5.77	5:06	21:05	Potential Work Window
6/6/2025	10:00	5.58	5:06	21:05	Potential Work Window
6/6/2025	10:30	5.57	5:06	21:05	Potential Work Window
6/6/2025	11:00	5.81	5:06	21:05	Potential Work Window
6/6/2025	11:30	6.39	5:06	21:05	Potential Work Window
6/7/2025	12:00	7.17	5:06	21:06	Potential Work Window
6/7/2025	12:30	7.78	5:06	21:06	Potential Work Window
6/7/2025	13:30	7.84	5:06	21:06	Potential Work Window
6/7/2025	14:00	7.16	5:06	21:06	Potential Work Window
6/7/2025	14:30	5.96	5:06	21:06	Potential Work Window
6/7/2025	15:00	4.37	5:06	21:06	Potential Work Window
6/7/2025	15:30	2.66	5:06	21:06	Potential Work Window
6/7/2025	16:00	1.21	5:06	21:06	Potential Work Window
6/7/2025	16:30	0.23	5:06	21:06	Potential Work Window
6/7/2025	17:00	-0.17	5:06	21:06	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/8/2025	5:30	-0.75	5:06	21:06	Potential Work Window
6/8/2025	6:00	0.03	5:06	21:06	Potential Work Window
6/8/2025	6:30	1.51	5:06	21:06	Potential Work Window
6/8/2025	7:00	3.26	5:06	21:06	Potential Work Window
6/8/2025	7:30	4.93	5:06	21:06	Potential Work Window
6/8/2025	8:00	6.35	5:06	21:06	Potential Work Window
6/8/2025	8:30	7.38	5:06	21:06	Potential Work Window
6/8/2025	9:00	7.89	5:06	21:06	Potential Work Window
6/8/2025	9:30	7.89	5:06	21:06	Potential Work Window
6/8/2025	10:00	7.55	5:06	21:06	Potential Work Window
6/8/2025	10:30	7.17	5:06	21:06	Potential Work Window
6/8/2025	11:00	6.92	5:06	21:06	Potential Work Window
6/8/2025	11:30	6.81	5:06	21:06	Potential Work Window
6/9/2025	12:00	6.93	5:05	21:07	Potential Work Window
6/9/2025	12:30	7.29	5:05	21:07	Potential Work Window
6/9/2025	13:00	7.64	5:05	21:07	Potential Work Window
6/9/2025	13:30	7.68	5:05	21:07	Potential Work Window
6/9/2025	14:00	7.30	5:05	21:07	Potential Work Window
6/9/2025	14:30	6.48	5:05	21:07	Potential Work Window
6/9/2025	15:00	5.20	5:05	21:07	Potential Work Window
6/9/2025	15:30	3.52	5:05	21:07	Potential Work Window
6/9/2025	16:00	1.68	5:05	21:07	Potential Work Window
6/9/2025	16:30	0.06	5:05	21:07	Potential Work Window
6/9/2025	17:00	-0.99	5:05	21:07	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/10/2025	5:30	-1.59	5:05	21:08	Potential Work Window
6/10/2025	6:00	-1.53	5:05	21:08	Potential Work Window
6/10/2025	6:30	-0.67	5:05	21:08	Potential Work Window
6/10/2025	7:00	0.95	5:05	21:08	Potential Work Window
6/10/2025	7:30	3.03	5:05	21:08	Potential Work Window
6/10/2025	8:00	5.07	5:05	21:08	Potential Work Window
6/10/2025	8:30	6.77	5:05	21:08	Potential Work Window
6/10/2025	11:00	7.89	5:05	21:08	Potential Work Window
6/10/2025	11:30	7.45	5:05	21:08	Potential Work Window
6/11/2025	12:00	7.21	5:05	21:08	Potential Work Window
6/11/2025	12:30	7.12	5:05	21:08	Potential Work Window
6/11/2025	13:00	7.24	5:05	21:08	Potential Work Window
6/11/2025	13:30	7.47	5:05	21:08	Potential Work Window
6/11/2025	14:00	7.50	5:05	21:08	Potential Work Window
6/11/2025	14:30	7.09	5:05	21:08	Potential Work Window
6/11/2025	15:00	6.24	5:05	21:08	Potential Work Window
6/11/2025	15:30	4.96	5:05	21:08	Potential Work Window
6/11/2025	16:00	3.31	5:05	21:08	Potential Work Window
6/11/2025	16:30	1.45	5:05	21:08	Potential Work Window
6/11/2025	17:00	-0.29	5:05	21:08	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/12/2025	5:30	-0.92	5:05	21:09	Potential Work Window
6/12/2025	6:00	-1.85	5:05	21:09	Potential Work Window
6/12/2025	6:30	-1.89	5:05	21:09	Potential Work Window
6/12/2025	7:00	-1.11	5:05	21:09	Potential Work Window
6/12/2025	7:30	0.43	5:05	21:09	Potential Work Window
6/12/2025	8:00	2.56	5:05	21:09	Potential Work Window
6/12/2025	8:30	4.80	5:05	21:09	Potential Work Window
6/12/2025	9:00	6.70	5:05	21:09	Potential Work Window
6/13/2025	12:00	7.54	5:05	21:10	Potential Work Window
6/13/2025	12:30	7.20	5:05	21:10	Potential Work Window
6/13/2025	13:00	7.09	5:05	21:10	Potential Work Window
6/13/2025	13:30	7.14	5:05	21:10	Potential Work Window
6/13/2025	14:00	7.32	5:05	21:10	Potential Work Window
6/13/2025	14:30	7.45	5:05	21:10	Potential Work Window
6/13/2025	15:00	7.20	5:05	21:10	Potential Work Window
6/13/2025	15:30	6.45	5:05	21:10	Potential Work Window
6/13/2025	16:00	5.26	5:05	21:10	Potential Work Window
6/13/2025	16:30	3.69	5:05	21:10	Potential Work Window
6/13/2025	17:00	1.88	5:05	21:10	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/14/2025	5:30	1.35	5:04	21:10	Potential Work Window
6/14/2025	6:00	-0.34	5:04	21:10	Potential Work Window
6/14/2025	6:30	-1.53	5:04	21:10	Potential Work Window
6/14/2025	7:00	-1.86	5:04	21:10	Potential Work Window
6/14/2025	7:30	-1.30	5:04	21:10	Potential Work Window
6/14/2025	8:00	0.02	5:04	21:10	Potential Work Window
6/14/2025	8:30	1.96	5:04	21:10	Potential Work Window
6/14/2025	9:00	4.23	5:04	21:10	Potential Work Window
6/14/2025	9:30	6.30	5:04	21:10	Potential Work Window
6/14/2025	10:00	7.84	5:04	21:10	Potential Work Window
6/15/2025	12:30	7.49	5:04	21:10	Potential Work Window
6/15/2025	13:00	6.94	5:04	21:10	Potential Work Window
6/15/2025	13:30	6.71	5:04	21:10	Potential Work Window
6/15/2025	14:00	6.69	5:04	21:10	Potential Work Window
6/15/2025	14:30	6.81	5:04	21:10	Potential Work Window
6/15/2025	15:00	7.00	5:04	21:10	Potential Work Window
6/15/2025	15:30	7.01	5:04	21:10	Potential Work Window
6/15/2025	16:00	6.56	5:04	21:10	Potential Work Window
6/15/2025	16:30	5.62	5:04	21:10	Potential Work Window
6/15/2025	17:00	4.30	5:04	21:10	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/16/2025	5:30	3.91	5:04	21:11	Potential Work Window
6/16/2025	6:00	2.45	5:04	21:11	Potential Work Window
6/16/2025	6:30	0.95	5:04	21:11	Potential Work Window
6/16/2025	7:00	-0.28	5:04	21:11	Potential Work Window
6/16/2025	7:30	-0.88	5:04	21:11	Potential Work Window
6/16/2025	8:00	-0.63	5:04	21:11	Potential Work Window
6/16/2025	8:30	0.39	5:04	21:11	Potential Work Window
6/16/2025	9:00	2.00	5:04	21:11	Potential Work Window
6/16/2025	9:30	4.02	5:04	21:11	Potential Work Window
6/16/2025	10:00	6.10	5:04	21:11	Potential Work Window
6/16/2025	10:30	7.75	5:04	21:11	Potential Work Window
6/17/2025	13:00	7.21	5:04	21:11	Potential Work Window
6/17/2025	13:30	6.25	5:04	21:11	Potential Work Window
6/17/2025	14:00	5.61	5:04	21:11	Potential Work Window
6/17/2025	14:30	5.31	5:04	21:11	Potential Work Window
6/17/2025	15:00	5.26	5:04	21:11	Potential Work Window
6/17/2025	15:30	5.43	5:04	21:11	Potential Work Window
6/17/2025	16:00	5.70	5:04	21:11	Potential Work Window
6/17/2025	16:30	5.78	5:04	21:11	Potential Work Window
6/17/2025	17:00	5.45	5:04	21:11	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/18/2025	5:30	4.96	5:04	21:12	Potential Work Window
6/18/2025	6:00	4.56	5:04	21:12	Potential Work Window
6/18/2025	6:30	3.89	5:04	21:12	Potential Work Window
6/18/2025	7:00	3.02	5:04	21:12	Potential Work Window
6/18/2025	7:30	2.13	5:04	21:12	Potential Work Window
6/18/2025	8:00	1.50	5:04	21:12	Potential Work Window
6/18/2025	8:30	1.44	5:04	21:12	Potential Work Window
6/18/2025	9:00	2.04	5:04	21:12	Potential Work Window
6/18/2025	9:30	3.18	5:04	21:12	Potential Work Window
6/18/2025	10:00	4.70	5:04	21:12	Potential Work Window
6/18/2025	10:30	6.42	5:04	21:12	Potential Work Window
6/18/2025	11:00	7.95	5:04	21:12	Potential Work Window
6/19/2025	13:00	7.93	5:05	21:12	Potential Work Window
6/19/2025	13:30	6.61	5:05	21:12	Potential Work Window
6/19/2025	14:00	5.12	5:05	21:12	Potential Work Window
6/19/2025	14:30	3.81	5:05	21:12	Potential Work Window
6/19/2025	15:00	2.95	5:05	21:12	Potential Work Window
6/19/2025	15:30	2.56	5:05	21:12	Potential Work Window
6/19/2025	16:00	2.60	5:05	21:12	Potential Work Window
6/19/2025	16:30	3.09	5:05	21:12	Potential Work Window
6/19/2025	17:00	3.82	5:05	21:12	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/20/2025	5:30	3.10	5:05	21:12	Potential Work Window
6/20/2025	6:00	4.13	5:05	21:12	Potential Work Window
6/20/2025	6:30	4.89	5:05	21:12	Potential Work Window
6/20/2025	7:00	5.32	5:05	21:12	Potential Work Window
6/20/2025	7:30	5.41	5:05	21:12	Potential Work Window
6/20/2025	8:00	5.18	5:05	21:12	Potential Work Window
6/20/2025	8:30	4.79	5:05	21:12	Potential Work Window
6/20/2025	9:00	4.52	5:05	21:12	Potential Work Window
6/20/2025	9:30	4.62	5:05	21:12	Potential Work Window
6/20/2025	10:00	5.15	5:05	21:12	Potential Work Window
6/20/2025	10:30	5.99	5:05	21:12	Potential Work Window
6/20/2025	11:00	7.09	5:05	21:12	Potential Work Window
6/21/2025	13:30	7.62	5:05	21:12	Potential Work Window
6/21/2025	14:00	6.02	5:05	21:12	Potential Work Window
6/21/2025	14:30	4.08	5:05	21:12	Potential Work Window
6/21/2025	15:00	2.12	5:05	21:12	Potential Work Window
6/21/2025	15:30	0.55	5:05	21:12	Potential Work Window
6/21/2025	16:00	-0.37	5:05	21:12	Potential Work Window
6/21/2025	16:30	-0.57	5:05	21:12	Potential Work Window
6/21/2025	17:00	-0.05	5:05	21:12	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/22/2025	5:30	-0.87	5:05	21:12	Potential Work Window
6/22/2025	6:00	0.78	5:05	21:12	Potential Work Window
6/22/2025	6:30	2.77	5:05	21:12	Potential Work Window
6/22/2025	7:00	4.63	5:05	21:12	Potential Work Window
6/22/2025	7:30	6.15	5:05	21:12	Potential Work Window
6/22/2025	8:00	7.21	5:05	21:12	Potential Work Window
6/22/2025	8:30	7.73	5:05	21:12	Potential Work Window
6/22/2025	9:00	7.73	5:05	21:12	Potential Work Window
6/22/2025	9:30	7.40	5:05	21:12	Potential Work Window
6/22/2025	10:00	7.05	5:05	21:12	Potential Work Window
6/22/2025	10:30	6.96	5:05	21:12	Potential Work Window
6/22/2025	11:00	7.15	5:05	21:12	Potential Work Window
6/22/2025	11:30	7.58	5:05	21:12	Potential Work Window
6/23/2025	14:00	7.59	5:06	21:13	Potential Work Window
6/23/2025	14:30	5.98	5:06	21:13	Potential Work Window
6/23/2025	15:00	3.90	5:06	21:13	Potential Work Window
6/23/2025	15:30	1.59	5:06	21:13	Potential Work Window
6/23/2025	16:00	-0.57	5:06	21:13	Potential Work Window
6/23/2025	16:30	-2.10	5:06	21:13	Potential Work Window
6/23/2025	17:00	-2.75	5:06	21:13	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/24/2025	5:30	-3.28	5:06	21:13	Potential Work Window
6/24/2025	6:00	-2.71	5:06	21:13	Potential Work Window
6/24/2025	6:30	-1.13	5:06	21:13	Potential Work Window
6/24/2025	7:00	1.21	5:06	21:13	Potential Work Window
6/24/2025	7:30	3.74	5:06	21:13	Potential Work Window
6/24/2025	8:00	6.00	5:06	21:13	Potential Work Window
6/24/2025	8:30	7.76	5:06	21:13	Potential Work Window
6/24/2025	11:00	7.96	5:06	21:13	Potential Work Window
6/24/2025	11:30	7.64	5:06	21:13	Potential Work Window
6/25/2025	12:00	7.58	5:06	21:13	Potential Work Window
6/25/2025	12:30	7.81	5:06	21:13	Potential Work Window
6/25/2025	14:30	7.83	5:06	21:13	Potential Work Window
6/25/2025	15:00	6.55	5:06	21:13	Potential Work Window
6/25/2025	15:30	4.71	5:06	21:13	Potential Work Window
6/25/2025	16:00	2.45	5:06	21:13	Potential Work Window
6/25/2025	16:30	0.08	5:06	21:13	Potential Work Window
6/25/2025	17:00	-1.94	5:06	21:13	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/26/2025	5:30	-2.11	5:07	21:13	Potential Work Window
6/26/2025	6:00	-3.09	5:07	21:13	Potential Work Window
6/26/2025	6:30	-3.06	5:07	21:13	Potential Work Window
6/26/2025	7:00	-2.00	5:07	21:13	Potential Work Window
6/26/2025	7:30	0.02	5:07	21:13	Potential Work Window
6/26/2025	8:00	2.60	5:07	21:13	Potential Work Window
6/26/2025	8:30	5.14	5:07	21:13	Potential Work Window
6/26/2025	9:00	7.25	5:07	21:13	Potential Work Window
6/27/2025	12:00	7.55	5:07	21:12	Potential Work Window
6/27/2025	12:30	7.17	5:07	21:12	Potential Work Window
6/27/2025	13:00	7.08	5:07	21:12	Potential Work Window
6/27/2025	13:30	7.32	5:07	21:12	Potential Work Window
6/27/2025	14:00	7.77	5:07	21:12	Potential Work Window
6/27/2025	15:00	7.82	5:07	21:12	Potential Work Window
6/27/2025	15:30	7.05	5:07	21:12	Potential Work Window
6/27/2025	16:00	5.74	5:07	21:12	Potential Work Window
6/27/2025	16:30	3.91	5:07	21:12	Potential Work Window
6/27/2025	17:00	1.76	5:07	21:12	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/28/2025	5:30	1.62	5:08	21:12	Potential Work Window
6/28/2025	6:00	-0.25	5:08	21:12	Potential Work Window
6/28/2025	6:30	-1.55	5:08	21:12	Potential Work Window
6/28/2025	7:00	-1.98	5:08	21:12	Potential Work Window
6/28/2025	7:30	-1.50	5:08	21:12	Potential Work Window
6/28/2025	8:00	-0.12	5:08	21:12	Potential Work Window
6/28/2025	8:30	2.02	5:08	21:12	Potential Work Window
6/28/2025	9:00	4.42	5:08	21:12	Potential Work Window
6/28/2025	9:30	6.57	5:08	21:12	Potential Work Window
6/29/2025	12:30	7.20	5:08	21:12	Potential Work Window
6/29/2025	13:00	6.50	5:08	21:12	Potential Work Window
6/29/2025	13:30	6.10	5:08	21:12	Potential Work Window
6/29/2025	14:00	6.02	5:08	21:12	Potential Work Window
6/29/2025	14:30	6.29	5:08	21:12	Potential Work Window
6/29/2025	15:00	6.72	5:08	21:12	Potential Work Window
6/29/2025	15:30	6.93	5:08	21:12	Potential Work Window
6/29/2025	16:00	6.71	5:08	21:12	Potential Work Window
6/29/2025	16:30	6.03	5:08	21:12	Potential Work Window
6/29/2025	17:00	4.89	5:08	21:12	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
6/30/2025	5:30	4.54	5:09	21:12	Potential Work Window
6/30/2025	6:00	3.30	5:09	21:12	Potential Work Window
6/30/2025	6:30	1.93	5:09	21:12	Potential Work Window
6/30/2025	7:00	0.78	5:09	21:12	Potential Work Window
6/30/2025	7:30	0.20	5:09	21:12	Potential Work Window
6/30/2025	8:00	0.34	5:09	21:12	Potential Work Window
6/30/2025	8:30	1.14	5:09	21:12	Potential Work Window
6/30/2025	9:00	2.60	5:09	21:12	Potential Work Window
6/30/2025	9:30	4.51	5:09	21:12	Potential Work Window
6/30/2025	10:00	6.39	5:09	21:12	Potential Work Window
6/30/2025	10:30	7.85	5:09	21:12	Potential Work Window
7/1/2025	12:30	7.83	5:09	21:12	Potential Work Window
7/1/2025	13:00	6.70	5:09	21:12	Potential Work Window
7/1/2025	13:30	5.63	5:09	21:12	Potential Work Window
7/1/2025	14:00	4.85	5:09	21:12	Potential Work Window
7/1/2025	14:30	4.39	5:09	21:12	Potential Work Window
7/1/2025	15:00	4.29	5:09	21:12	Potential Work Window
7/1/2025	15:30	4.58	5:09	21:12	Potential Work Window
7/1/2025	16:00	5.04	5:09	21:12	Potential Work Window
7/1/2025	16:30	5.33	5:09	21:12	Potential Work Window
7/1/2025	17:00	5.32	5:09	21:12	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/2/2025	5:30	4.84	5:10	21:11	Potential Work Window
7/2/2025	6:00	4.83	5:10	21:11	Potential Work Window
7/2/2025	6:30	4.55	5:10	21:11	Potential Work Window
7/2/2025	7:00	4.03	5:10	21:11	Potential Work Window
7/2/2025	7:30	3.42	5:10	21:11	Potential Work Window
7/2/2025	8:00	3.02	5:10	21:11	Potential Work Window
7/2/2025	8:30	3.02	5:10	21:11	Potential Work Window
7/2/2025	9:00	3.43	5:10	21:11	Potential Work Window
7/2/2025	9:30	4.21	5:10	21:11	Potential Work Window
7/2/2025	10:00	5.38	5:10	21:11	Potential Work Window
7/2/2025	10:30	6.70	5:10	21:11	Potential Work Window
7/2/2025	11:00	7.79	5:10	21:11	Potential Work Window
7/3/2025	13:00	7.27	5:11	21:11	Potential Work Window
7/3/2025	13:30	6.00	5:11	21:11	Potential Work Window
7/3/2025	14:00	4.62	5:11	21:11	Potential Work Window
7/3/2025	14:30	3.44	5:11	21:11	Potential Work Window
7/3/2025	15:00	2.62	5:11	21:11	Potential Work Window
7/3/2025	15:30	2.17	5:11	21:11	Potential Work Window
7/3/2025	16:00	2.21	5:11	21:11	Potential Work Window
7/3/2025	16:30	2.74	5:11	21:11	Potential Work Window
7/3/2025	17:00	3.48	5:11	21:11	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/4/2025	5:30	3.13	5:11	21:11	Potential Work Window
7/4/2025	6:00	4.08	5:11	21:11	Potential Work Window
7/4/2025	6:30	4.91	5:11	21:11	Potential Work Window
7/4/2025	7:00	5.53	5:11	21:11	Potential Work Window
7/4/2025	7:30	5.86	5:11	21:11	Potential Work Window
7/4/2025	8:00	5.88	5:11	21:11	Potential Work Window
7/4/2025	8:30	5.75	5:11	21:11	Potential Work Window
7/4/2025	9:00	5.67	5:11	21:11	Potential Work Window
7/4/2025	9:30	5.77	5:11	21:11	Potential Work Window
7/4/2025	10:00	6.01	5:11	21:11	Potential Work Window
7/4/2025	10:30	6.42	5:11	21:11	Potential Work Window
7/4/2025	11:00	7.06	5:11	21:11	Potential Work Window
7/4/2025	11:30	7.69	5:11	21:11	Potential Work Window
7/5/2025	12:30	7.95	5:12	21:10	Potential Work Window
7/5/2025	13:00	7.47	5:12	21:10	Potential Work Window
7/5/2025	13:30	6.57	5:12	21:10	Potential Work Window
7/5/2025	14:00	5.26	5:12	21:10	Potential Work Window
7/5/2025	14:30	3.72	5:12	21:10	Potential Work Window
7/5/2025	15:00	2.24	5:12	21:10	Potential Work Window
7/5/2025	15:30	1.11	5:12	21:10	Potential Work Window
7/5/2025	16:00	0.44	5:12	21:10	Potential Work Window
7/5/2025	16:30	0.30	5:12	21:10	Potential Work Window
7/5/2025	17:00	0.81	5:12	21:10	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/6/2025	5:30	0.62	5:13	21:10	Potential Work Window
7/6/2025	6:00	2.01	5:13	21:10	Potential Work Window
7/6/2025	6:30	3.55	5:13	21:10	Potential Work Window
7/6/2025	7:00	5.01	5:13	21:10	Potential Work Window
7/6/2025	7:30	6.26	5:13	21:10	Potential Work Window
7/6/2025	8:00	7.17	5:13	21:10	Potential Work Window
7/6/2025	8:30	7.64	5:13	21:10	Potential Work Window
7/6/2025	9:00	7.70	5:13	21:10	Potential Work Window
7/6/2025	9:30	7.51	5:13	21:10	Potential Work Window
7/6/2025	10:00	7.32	5:13	21:10	Potential Work Window
7/6/2025	10:30	7.18	5:13	21:10	Potential Work Window
7/6/2025	11:00	7.11	5:13	21:10	Potential Work Window
7/6/2025	11:30	7.20	5:13	21:10	Potential Work Window
7/7/2025	12:00	7.46	5:14	21:09	Potential Work Window
7/7/2025	12:30	7.63	5:14	21:09	Potential Work Window
7/7/2025	13:00	7.49	5:14	21:09	Potential Work Window
7/7/2025	13:30	7.00	5:14	21:09	Potential Work Window
7/7/2025	14:00	6.14	5:14	21:09	Potential Work Window
7/7/2025	14:30	4.88	5:14	21:09	Potential Work Window
7/7/2025	15:00	3.31	5:14	21:09	Potential Work Window
7/7/2025	15:30	1.64	5:14	21:09	Potential Work Window
7/7/2025	16:00	0.23	5:14	21:09	Potential Work Window
7/7/2025	16:30	-0.64	5:14	21:09	Potential Work Window
7/7/2025	17:00	-0.90	5:14	21:09	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/8/2025	5:30	-1.19	5:15	21:09	Potential Work Window
7/8/2025	6:00	-0.39	5:15	21:09	Potential Work Window
7/8/2025	6:30	1.15	5:15	21:09	Potential Work Window
7/8/2025	7:00	3.08	5:15	21:09	Potential Work Window
7/8/2025	7:30	4.96	5:15	21:09	Potential Work Window
7/8/2025	8:00	6.57	5:15	21:09	Potential Work Window
7/8/2025	8:30	7.79	5:15	21:09	Potential Work Window
7/8/2025	10:30	7.93	5:15	21:09	Potential Work Window
7/8/2025	11:00	7.57	5:15	21:09	Potential Work Window
7/8/2025	11:30	7.32	5:15	21:09	Potential Work Window
7/9/2025	12:00	7.20	5:16	21:08	Potential Work Window
7/9/2025	12:30	7.30	5:16	21:08	Potential Work Window
7/9/2025	13:00	7.50	5:16	21:08	Potential Work Window
7/9/2025	13:30	7.48	5:16	21:08	Potential Work Window
7/9/2025	14:00	7.09	5:16	21:08	Potential Work Window
7/9/2025	14:30	6.30	5:16	21:08	Potential Work Window
7/9/2025	15:00	5.09	5:16	21:08	Potential Work Window
7/9/2025	15:30	3.50	5:16	21:08	Potential Work Window
7/9/2025	16:00	1.68	5:16	21:08	Potential Work Window
7/9/2025	16:30	-0.02	5:16	21:08	Potential Work Window
7/9/2025	17:00	-1.20	5:16	21:08	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/10/2025	5:30	-1.70	5:16	21:07	Potential Work Window
7/10/2025	6:00	-1.84	5:16	21:07	Potential Work Window
7/10/2025	6:30	-1.15	5:16	21:07	Potential Work Window
7/10/2025	7:00	0.35	5:16	21:07	Potential Work Window
7/10/2025	7:30	2.44	5:16	21:07	Potential Work Window
7/10/2025	8:00	4.63	5:16	21:07	Potential Work Window
7/10/2025	8:30	6.50	5:16	21:07	Potential Work Window
7/10/2025	9:00	7.90	5:16	21:07	Potential Work Window
7/10/2025	11:30	7.48	5:16	21:07	Potential Work Window
7/11/2025	12:00	7.17	5:17	21:07	Potential Work Window
7/11/2025	12:30	7.07	5:17	21:07	Potential Work Window
7/11/2025	13:00	7.17	5:17	21:07	Potential Work Window
7/11/2025	13:30	7.47	5:17	21:07	Potential Work Window
7/11/2025	14:00	7.69	5:17	21:07	Potential Work Window
7/11/2025	14:30	7.52	5:17	21:07	Potential Work Window
7/11/2025	15:00	6.84	5:17	21:07	Potential Work Window
7/11/2025	15:30	5.69	5:17	21:07	Potential Work Window
7/11/2025	16:00	4.09	5:17	21:07	Potential Work Window
7/11/2025	16:30	2.18	5:17	21:07	Potential Work Window
7/11/2025	17:00	0.24	5:17	21:07	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/12/2025	5:30	-0.32	5:18	21:06	Potential Work Window
7/12/2025	6:00	-1.62	5:18	21:06	Potential Work Window
7/12/2025	6:30	-2.01	5:18	21:06	Potential Work Window
7/12/2025	7:00	-1.47	5:18	21:06	Potential Work Window
7/12/2025	7:30	-0.09	5:18	21:06	Potential Work Window
7/12/2025	8:00	1.96	5:18	21:06	Potential Work Window
7/12/2025	8:30	4.31	5:18	21:06	Potential Work Window
7/12/2025	9:00	6.40	5:18	21:06	Potential Work Window
7/12/2025	9:30	7.93	5:18	21:06	Potential Work Window
7/12/2025	11:30	7.93	5:18	21:06	Potential Work Window
7/13/2025	12:00	7.12	5:19	21:05	Potential Work Window
7/13/2025	12:30	6.59	5:19	21:05	Potential Work Window
7/13/2025	13:00	6.42	5:19	21:05	Potential Work Window
7/13/2025	13:30	6.53	5:19	21:05	Potential Work Window
7/13/2025	14:00	6.87	5:19	21:05	Potential Work Window
7/13/2025	14:30	7.30	5:19	21:05	Potential Work Window
7/13/2025	15:00	7.46	5:19	21:05	Potential Work Window
7/13/2025	15:30	7.09	5:19	21:05	Potential Work Window
7/13/2025	16:00	6.17	5:19	21:05	Potential Work Window
7/13/2025	16:30	4.76	5:19	21:05	Potential Work Window
7/13/2025	17:00	2.98	5:19	21:05	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/14/2025	5:30	2.62	5:20	21:04	Potential Work Window
7/14/2025	6:00	0.92	5:20	21:04	Potential Work Window
7/14/2025	6:30	-0.44	5:20	21:04	Potential Work Window
7/14/2025	7:00	-1.03	5:20	21:04	Potential Work Window
7/14/2025	7:30	-0.67	5:20	21:04	Potential Work Window
7/14/2025	8:00	0.51	5:20	21:04	Potential Work Window
7/14/2025	8:30	2.33	5:20	21:04	Potential Work Window
7/14/2025	9:00	4.54	5:20	21:04	Potential Work Window
7/14/2025	9:30	6.65	5:20	21:04	Potential Work Window
7/15/2025	12:00	7.63	5:21	21:03	Potential Work Window
7/15/2025	12:30	6.45	5:21	21:03	Potential Work Window
7/15/2025	13:00	5.46	5:21	21:03	Potential Work Window
7/15/2025	13:30	4.92	5:21	21:03	Potential Work Window
7/15/2025	14:00	4.83	5:21	21:03	Potential Work Window
7/15/2025	14:30	5.07	5:21	21:03	Potential Work Window
7/15/2025	15:00	5.59	5:21	21:03	Potential Work Window
7/15/2025	15:30	6.13	5:21	21:03	Potential Work Window
7/15/2025	16:00	6.33	5:21	21:03	Potential Work Window
7/15/2025	16:30	6.00	5:21	21:03	Potential Work Window
7/15/2025	17:00	5.20	5:21	21:03	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/16/2025	5:30	4.95	5:23	21:03	Potential Work Window
7/16/2025	6:00	4.08	5:23	21:03	Potential Work Window
7/16/2025	6:30	3.03	5:23	21:03	Potential Work Window
7/16/2025	7:00	2.05	5:23	21:03	Potential Work Window
7/16/2025	7:30	1.47	5:23	21:03	Potential Work Window
7/16/2025	8:00	1.60	5:23	21:03	Potential Work Window
7/16/2025	8:30	2.44	5:23	21:03	Potential Work Window
7/16/2025	9:00	3.79	5:23	21:03	Potential Work Window
7/16/2025	9:30	5.47	5:23	21:03	Potential Work Window
7/16/2025	10:00	7.23	5:23	21:03	Potential Work Window
7/17/2025	12:30	7.15	5:24	21:02	Potential Work Window
7/17/2025	13:00	5.61	5:24	21:02	Potential Work Window
7/17/2025	13:30	4.07	5:24	21:02	Potential Work Window
7/17/2025	14:00	2.92	5:24	21:02	Potential Work Window
7/17/2025	14:30	2.35	5:24	21:02	Potential Work Window
7/17/2025	15:00	2.30	5:24	21:02	Potential Work Window
7/17/2025	15:30	2.72	5:24	21:02	Potential Work Window
7/17/2025	16:00	3.52	5:24	21:02	Potential Work Window
7/17/2025	16:30	4.40	5:24	21:02	Potential Work Window
7/17/2025	17:00	4.99	5:24	21:02	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/18/2025	5:30	4.62	5:25	21:01	Potential Work Window
7/18/2025	6:00	5.21	5:25	21:01	Potential Work Window
7/18/2025	6:30	5.46	5:25	21:01	Potential Work Window
7/18/2025	7:00	5.40	5:25	21:01	Potential Work Window
7/18/2025	7:30	5.11	5:25	21:01	Potential Work Window
7/18/2025	8:00	4.78	5:25	21:01	Potential Work Window
7/18/2025	8:30	4.69	5:25	21:01	Potential Work Window
7/18/2025	9:00	5.04	5:25	21:01	Potential Work Window
7/18/2025	9:30	5.74	5:25	21:01	Potential Work Window
7/18/2025	10:00	6.67	5:25	21:01	Potential Work Window
7/18/2025	10:30	7.74	5:25	21:01	Potential Work Window
7/19/2025	13:00	6.84	5:26	21:00	Potential Work Window
7/19/2025	13:30	5.14	5:26	21:00	Potential Work Window
7/19/2025	14:00	3.25	5:26	21:00	Potential Work Window
7/19/2025	14:30	1.50	5:26	21:00	Potential Work Window
7/19/2025	15:00	0.27	5:26	21:00	Potential Work Window
7/19/2025	15:30	-0.30	5:26	21:00	Potential Work Window
7/19/2025	16:00	-0.22	5:26	21:00	Potential Work Window
7/19/2025	16:30	0.52	5:26	21:00	Potential Work Window
7/19/2025	17:00	1.82	5:26	21:00	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/20/2025	5:30	1.41	5:27	20:59	Potential Work Window
7/20/2025	6:00	3.18	5:27	20:59	Potential Work Window
7/20/2025	6:30	4.79	5:27	20:59	Potential Work Window
7/20/2025	7:00	6.11	5:27	20:59	Potential Work Window
7/20/2025	7:30	7.03	5:27	20:59	Potential Work Window
7/20/2025	8:00	7.49	5:27	20:59	Potential Work Window
7/20/2025	8:30	7.54	5:27	20:59	Potential Work Window
7/20/2025	9:00	7.35	5:27	20:59	Potential Work Window
7/20/2025	9:30	7.20	5:27	20:59	Potential Work Window
7/20/2025	10:00	7.25	5:27	20:59	Potential Work Window
7/20/2025	10:30	7.46	5:27	20:59	Potential Work Window
7/20/2025	11:00	7.83	5:27	20:59	Potential Work Window
7/21/2025	13:30	7.05	5:28	20:57	Potential Work Window
7/21/2025	14:00	5.52	5:28	20:57	Potential Work Window
7/21/2025	14:30	3.60	5:28	20:57	Potential Work Window
7/21/2025	15:00	1.53	5:28	20:57	Potential Work Window
7/21/2025	15:30	-0.32	5:28	20:57	Potential Work Window
7/21/2025	16:00	-1.58	5:28	20:57	Potential Work Window
7/21/2025	16:30	-2.07	5:28	20:57	Potential Work Window
7/21/2025	17:00	-1.74	5:28	20:57	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/22/2025	5:30	-1.99	5:29	20:56	Potential Work Window
7/22/2025	6:00	-0.54	5:29	20:56	Potential Work Window
7/22/2025	6:30	1.56	5:29	20:56	Potential Work Window
7/22/2025	7:00	3.80	5:29	20:56	Potential Work Window
7/22/2025	7:30	5.82	5:29	20:56	Potential Work Window
7/22/2025	8:00	7.44	5:29	20:56	Potential Work Window
7/22/2025	10:30	7.85	5:29	20:56	Potential Work Window
7/22/2025	11:00	7.55	5:29	20:56	Potential Work Window
7/22/2025	11:30	7.45	5:29	20:56	Potential Work Window
7/23/2025	12:00	7.64	5:31	20:55	Potential Work Window
7/23/2025	14:00	7.62	5:31	20:55	Potential Work Window
7/23/2025	14:30	6.51	5:31	20:55	Potential Work Window
7/23/2025	15:00	4.87	5:31	20:55	Potential Work Window
7/23/2025	15:30	2.81	5:31	20:55	Potential Work Window
7/23/2025	16:00	0.62	5:31	20:55	Potential Work Window
7/23/2025	16:30	-1.24	5:31	20:55	Potential Work Window
7/23/2025	17:00	-2.38	5:31	20:55	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/24/2025	6:00	-2.48	5:32	20:54	Potential Work Window
7/24/2025	6:30	-1.51	5:32	20:54	Potential Work Window
7/24/2025	7:00	0.39	5:32	20:54	Potential Work Window
7/24/2025	7:30	2.79	5:32	20:54	Potential Work Window
7/24/2025	8:00	5.12	5:32	20:54	Potential Work Window
7/24/2025	8:30	7.08	5:32	20:54	Potential Work Window
7/24/2025	11:00	7.78	5:32	20:54	Potential Work Window
7/24/2025	11:30	7.13	5:32	20:54	Potential Work Window
7/25/2025	12:00	6.76	5:33	20:53	Potential Work Window
7/25/2025	12:30	6.71	5:33	20:53	Potential Work Window
7/25/2025	13:00	7.06	5:33	20:53	Potential Work Window
7/25/2025	13:30	7.63	5:33	20:53	Potential Work Window
7/25/2025	14:00	7.99	5:33	20:53	Potential Work Window
7/25/2025	14:30	7.91	5:33	20:53	Potential Work Window
7/25/2025	15:00	7.29	5:33	20:53	Potential Work Window
7/25/2025	15:30	6.10	5:33	20:53	Potential Work Window
7/25/2025	16:00	4.34	5:33	20:53	Potential Work Window
7/25/2025	16:30	2.22	5:33	20:53	Potential Work Window
7/25/2025	17:00	0.12	5:33	20:53	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/26/2025	6:00	-1.24	5:34	20:51	Potential Work Window
7/26/2025	6:30	-1.65	5:34	20:51	Potential Work Window
7/26/2025	7:00	-1.14	5:34	20:51	Potential Work Window
7/26/2025	7:30	0.31	5:34	20:51	Potential Work Window
7/26/2025	8:00	2.47	5:34	20:51	Potential Work Window
7/26/2025	8:30	4.80	5:34	20:51	Potential Work Window
7/26/2025	9:00	6.80	5:34	20:51	Potential Work Window
7/26/2025	11:30	7.41	5:34	20:51	Potential Work Window
7/27/2025	12:00	6.45	5:36	20:50	Potential Work Window
7/27/2025	12:30	5.81	5:36	20:50	Potential Work Window
7/27/2025	13:00	5.55	5:36	20:50	Potential Work Window
7/27/2025	13:30	5.70	5:36	20:50	Potential Work Window
7/27/2025	14:00	6.26	5:36	20:50	Potential Work Window
7/27/2025	14:30	6.92	5:36	20:50	Potential Work Window
7/27/2025	15:00	7.28	5:36	20:50	Potential Work Window
7/27/2025	15:30	7.15	5:36	20:50	Potential Work Window
7/27/2025	16:00	6.49	5:36	20:50	Potential Work Window
7/27/2025	16:30	5.29	5:36	20:50	Potential Work Window
7/27/2025	17:00	3.63	5:36	20:50	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/28/2025	6:00	1.91	5:37	20:49	Potential Work Window
7/28/2025	6:30	0.74	5:37	20:49	Potential Work Window
7/28/2025	7:00	0.26	5:37	20:49	Potential Work Window
7/28/2025	7:30	0.55	5:37	20:49	Potential Work Window
7/28/2025	8:00	1.56	5:37	20:49	Potential Work Window
7/28/2025	8:30	3.22	5:37	20:49	Potential Work Window
7/28/2025	9:00	5.20	5:37	20:49	Potential Work Window
7/28/2025	9:30	6.96	5:37	20:49	Potential Work Window
7/28/2025	11:30	8.00	5:37	20:49	Potential Work Window
7/29/2025	12:00	6.86	5:38	20:47	Potential Work Window
7/29/2025	12:30	5.62	5:38	20:47	Potential Work Window
7/29/2025	13:00	4.64	5:38	20:47	Potential Work Window
7/29/2025	13:30	4.11	5:38	20:47	Potential Work Window
7/29/2025	14:00	4.00	5:38	20:47	Potential Work Window
7/29/2025	14:30	4.34	5:38	20:47	Potential Work Window
7/29/2025	15:00	5.04	5:38	20:47	Potential Work Window
7/29/2025	15:30	5.73	5:38	20:47	Potential Work Window
7/29/2025	16:00	6.08	5:38	20:47	Potential Work Window
7/29/2025	16:30	6.02	5:38	20:47	Potential Work Window
7/29/2025	17:00	5.53	5:38	20:47	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
7/30/2025	6:00	4.71	5:39	20:46	Potential Work Window
7/30/2025	6:30	3.92	5:39	20:46	Potential Work Window
7/30/2025	7:00	3.19	5:39	20:46	Potential Work Window
7/30/2025	7:30	2.84	5:39	20:46	Potential Work Window
7/30/2025	8:00	3.03	5:39	20:46	Potential Work Window
7/30/2025	8:30	3.66	5:39	20:46	Potential Work Window
7/30/2025	9:00	4.68	5:39	20:46	Potential Work Window
7/30/2025	9:30	6.00	5:39	20:46	Potential Work Window
7/30/2025	10:00	7.28	5:39	20:46	Potential Work Window
7/31/2025	12:00	7.34	5:41	20:45	Potential Work Window
7/31/2025	12:30	6.14	5:41	20:45	Potential Work Window
7/31/2025	13:00	4.75	5:41	20:45	Potential Work Window
7/31/2025	13:30	3.50	5:41	20:45	Potential Work Window
7/31/2025	14:00	2.68	5:41	20:45	Potential Work Window
7/31/2025	14:30	2.32	5:41	20:45	Potential Work Window
7/31/2025	15:00	2.39	5:41	20:45	Potential Work Window
7/31/2025	15:30	2.94	5:41	20:45	Potential Work Window
7/31/2025	16:00	3.80	5:41	20:45	Potential Work Window
7/31/2025	16:30	4.61	5:41	20:45	Potential Work Window
7/31/2025	17:00	5.17	5:41	20:45	Potential Work Window

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PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/1/2025	6:00	5.55	5:42	20:43	Potential Work Window
8/1/2025	6:30	5.79	5:42	20:43	Potential Work Window
8/1/2025	7:00	5.77	5:42	20:43	Potential Work Window
8/1/2025	7:30	5.57	5:42	20:43	Potential Work Window
8/1/2025	8:00	5.40	5:42	20:43	Potential Work Window
8/1/2025	8:30	5.45	5:42	20:43	Potential Work Window
8/1/2025	9:00	5.72	5:42	20:43	Potential Work Window
8/1/2025	9:30	6.13	5:42	20:43	Potential Work Window
8/1/2025	10:00	6.68	5:42	20:43	Potential Work Window
8/1/2025	10:30	7.31	5:42	20:43	Potential Work Window
8/1/2025	11:00	7.75	5:42	20:43	Potential Work Window
8/1/2025	11:30	7.77	5:42	20:43	Potential Work Window
8/2/2025	12:00	7.38	5:43	20:42	Potential Work Window
8/2/2025	12:30	6.62	5:43	20:42	Potential Work Window
8/2/2025	13:00	5.53	5:43	20:42	Potential Work Window
8/2/2025	13:30	4.20	5:43	20:42	Potential Work Window
8/2/2025	14:00	2.84	5:43	20:42	Potential Work Window
8/2/2025	14:30	1.75	5:43	20:42	Potential Work Window
8/2/2025	15:00	1.11	5:43	20:42	Potential Work Window
8/2/2025	15:30	0.93	5:43	20:42	Potential Work Window
8/2/2025	16:00	1.23	5:43	20:42	Potential Work Window
8/2/2025	16:30	2.06	5:43	20:42	Potential Work Window
8/2/2025	17:00	3.18	5:43	20:42	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/3/2025	6:00	4.45	5:45	20:40	Potential Work Window
8/3/2025	6:30	5.56	5:45	20:40	Potential Work Window
8/3/2025	7:00	6.46	5:45	20:40	Potential Work Window
8/3/2025	7:30	7.05	5:45	20:40	Potential Work Window
8/3/2025	8:00	7.29	5:45	20:40	Potential Work Window
8/3/2025	8:30	7.26	5:45	20:40	Potential Work Window
8/3/2025	9:00	7.13	5:45	20:40	Potential Work Window
8/3/2025	9:30	7.06	5:45	20:40	Potential Work Window
8/3/2025	10:00	7.01	5:45	20:40	Potential Work Window
8/3/2025	10:30	6.99	5:45	20:40	Potential Work Window
8/3/2025	11:00	7.09	5:45	20:40	Potential Work Window
8/3/2025	11:30	7.26	5:45	20:40	Potential Work Window
8/4/2025	12:00	7.25	5:46	20:39	Potential Work Window
8/4/2025	12:30	6.93	5:46	20:39	Potential Work Window
8/4/2025	13:00	6.34	5:46	20:39	Potential Work Window
8/4/2025	13:30	5.46	5:46	20:39	Potential Work Window
8/4/2025	14:00	4.28	5:46	20:39	Potential Work Window
8/4/2025	14:30	2.91	5:46	20:39	Potential Work Window
8/4/2025	15:00	1.56	5:46	20:39	Potential Work Window
8/4/2025	15:30	0.55	5:46	20:39	Potential Work Window
8/4/2025	16:00	0.03	5:46	20:39	Potential Work Window
8/4/2025	16:30	0.04	5:46	20:39	Potential Work Window
8/4/2025	17:00	0.65	5:46	20:39	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/5/2025	6:00	1.98	5:47	20:37	Potential Work Window
8/5/2025	6:30	3.66	5:47	20:37	Potential Work Window
8/5/2025	7:00	5.24	5:47	20:37	Potential Work Window
8/5/2025	7:30	6.59	5:47	20:37	Potential Work Window
8/5/2025	8:00	7.59	5:47	20:37	Potential Work Window
8/5/2025	9:30	7.94	5:47	20:37	Potential Work Window
8/5/2025	10:00	7.58	5:47	20:37	Potential Work Window
8/5/2025	10:30	7.27	5:47	20:37	Potential Work Window
8/5/2025	11:00	7.02	5:47	20:37	Potential Work Window
8/5/2025	11:30	6.91	5:47	20:37	Potential Work Window
8/6/2025	12:00	7.02	5:49	20:36	Potential Work Window
8/6/2025	12:30	7.18	5:49	20:36	Potential Work Window
8/6/2025	13:00	7.13	5:49	20:36	Potential Work Window
8/6/2025	13:30	6.77	5:49	20:36	Potential Work Window
8/6/2025	14:00	6.07	5:49	20:36	Potential Work Window
8/6/2025	14:30	4.99	5:49	20:36	Potential Work Window
8/6/2025	15:00	3.56	5:49	20:36	Potential Work Window
8/6/2025	15:30	1.92	5:49	20:36	Potential Work Window
8/6/2025	16:00	0.43	5:49	20:36	Potential Work Window
8/6/2025	16:30	-0.56	5:49	20:36	Potential Work Window
8/6/2025	17:00	-0.90	5:49	20:36	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/7/2025	6:00	-0.61	5:50	20:34	Potential Work Window
8/7/2025	6:30	0.83	5:50	20:34	Potential Work Window
8/7/2025	7:00	2.79	5:50	20:34	Potential Work Window
8/7/2025	7:30	4.77	5:50	20:34	Potential Work Window
8/7/2025	8:00	6.46	5:50	20:34	Potential Work Window
8/7/2025	8:30	7.72	5:50	20:34	Potential Work Window
8/7/2025	10:30	7.56	5:50	20:34	Potential Work Window
8/7/2025	11:00	7.03	5:50	20:34	Potential Work Window
8/7/2025	11:30	6.73	5:50	20:34	Potential Work Window
8/8/2025	12:00	6.65	5:51	20:32	Potential Work Window
8/8/2025	12:30	6.84	5:51	20:32	Potential Work Window
8/8/2025	13:00	7.26	5:51	20:32	Potential Work Window
8/8/2025	13:30	7.58	5:51	20:32	Potential Work Window
8/8/2025	14:00	7.51	5:51	20:32	Potential Work Window
8/8/2025	14:30	6.98	5:51	20:32	Potential Work Window
8/8/2025	15:00	5.96	5:51	20:32	Potential Work Window
8/8/2025	15:30	4.44	5:51	20:32	Potential Work Window
8/8/2025	16:00	2.58	5:51	20:32	Potential Work Window
8/8/2025	16:30	0.68	5:51	20:32	Potential Work Window
8/8/2025	17:00	-0.80	5:51	20:32	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/9/2025	6:00	-1.57	5:53	20:31	Potential Work Window
8/9/2025	6:30	-1.05	5:53	20:31	Potential Work Window
8/9/2025	7:00	0.31	5:53	20:31	Potential Work Window
8/9/2025	7:30	2.36	5:53	20:31	Potential Work Window
8/9/2025	8:00	4.61	5:53	20:31	Potential Work Window
8/9/2025	8:30	6.54	5:53	20:31	Potential Work Window
8/9/2025	9:00	7.91	5:53	20:31	Potential Work Window
8/9/2025	11:00	7.19	5:53	20:31	Potential Work Window
8/9/2025	11:30	6.31	5:53	20:31	Potential Work Window
8/10/2025	12:00	5.80	5:54	20:29	Potential Work Window
8/10/2025	12:30	5.71	5:54	20:29	Potential Work Window
8/10/2025	13:00	5.98	5:54	20:29	Potential Work Window
8/10/2025	13:30	6.59	5:54	20:29	Potential Work Window
8/10/2025	14:00	7.29	5:54	20:29	Potential Work Window
8/10/2025	14:30	7.67	5:54	20:29	Potential Work Window
8/10/2025	15:00	7.48	5:54	20:29	Potential Work Window
8/10/2025	15:30	6.69	5:54	20:29	Potential Work Window
8/10/2025	16:00	5.33	5:54	20:29	Potential Work Window
8/10/2025	16:30	3.52	5:54	20:29	Potential Work Window
8/10/2025	17:00	1.55	5:54	20:29	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/11/2025	6:00	0.01	5:56	20:27	Potential Work Window
8/11/2025	6:30	-0.56	5:56	20:27	Potential Work Window
8/11/2025	7:00	-0.17	5:56	20:27	Potential Work Window
8/11/2025	7:30	1.05	5:56	20:27	Potential Work Window
8/11/2025	8:00	2.91	5:56	20:27	Potential Work Window
8/11/2025	8:30	5.10	5:56	20:27	Potential Work Window
8/11/2025	9:00	7.05	5:56	20:27	Potential Work Window
8/11/2025	11:00	7.80	5:56	20:27	Potential Work Window
8/11/2025	11:30	6.51	5:56	20:27	Potential Work Window
8/12/2025	12:00	5.16	5:57	20:25	Potential Work Window
8/12/2025	12:30	4.17	5:57	20:25	Potential Work Window
8/12/2025	13:00	3.80	5:57	20:25	Potential Work Window
8/12/2025	13:30	3.98	5:57	20:25	Potential Work Window
8/12/2025	14:00	4.62	5:57	20:25	Potential Work Window
8/12/2025	14:30	5.58	5:57	20:25	Potential Work Window
8/12/2025	15:00	6.51	5:57	20:25	Potential Work Window
8/12/2025	15:30	6.96	5:57	20:25	Potential Work Window
8/12/2025	16:00	6.78	5:57	20:25	Potential Work Window
8/12/2025	16:30	6.03	5:57	20:25	Potential Work Window
8/12/2025	17:00	4.78	5:57	20:25	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/13/2025	6:00	3.65	5:58	20:24	Potential Work Window
8/13/2025	6:30	2.54	5:58	20:24	Potential Work Window
8/13/2025	7:00	1.94	5:58	20:24	Potential Work Window
8/13/2025	7:30	2.12	5:58	20:24	Potential Work Window
8/13/2025	8:00	3.00	5:58	20:24	Potential Work Window
8/13/2025	8:30	4.39	5:58	20:24	Potential Work Window
8/13/2025	9:00	6.08	5:58	20:24	Potential Work Window
8/13/2025	9:30	7.69	5:58	20:24	Potential Work Window
8/13/2025	11:30	7.40	5:58	20:24	Potential Work Window
8/14/2025	12:00	5.83	6:00	20:22	Potential Work Window
8/14/2025	12:30	4.08	6:00	20:22	Potential Work Window
8/14/2025	13:00	2.56	6:00	20:22	Potential Work Window
8/14/2025	13:30	1.64	6:00	20:22	Potential Work Window
8/14/2025	14:00	1.45	6:00	20:22	Potential Work Window
8/14/2025	14:30	1.88	6:00	20:22	Potential Work Window
8/14/2025	15:00	2.83	6:00	20:22	Potential Work Window
8/14/2025	15:30	4.11	6:00	20:22	Potential Work Window
8/14/2025	16:00	5.28	6:00	20:22	Potential Work Window
8/14/2025	16:30	6.00	6:00	20:22	Potential Work Window
8/14/2025	17:00	6.20	6:00	20:22	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/15/2025	6:30	5.95	6:01	20:20	Potential Work Window
8/15/2025	7:00	5.46	6:01	20:20	Potential Work Window
8/15/2025	7:30	5.04	6:01	20:20	Potential Work Window
8/15/2025	8:00	4.96	6:01	20:20	Potential Work Window
8/15/2025	8:30	5.36	6:01	20:20	Potential Work Window
8/15/2025	9:00	6.08	6:01	20:20	Potential Work Window
8/15/2025	9:30	6.99	6:01	20:20	Potential Work Window
8/15/2025	10:00	7.96	6:01	20:20	Potential Work Window
8/16/2025	12:00	7.16	6:02	20:18	Potential Work Window
8/16/2025	12:30	5.64	6:02	20:18	Potential Work Window
8/16/2025	13:00	3.85	6:02	20:18	Potential Work Window
8/16/2025	13:30	2.05	6:02	20:18	Potential Work Window
8/16/2025	14:00	0.59	6:02	20:18	Potential Work Window
8/16/2025	14:30	-0.22	6:02	20:18	Potential Work Window
8/16/2025	15:00	-0.33	6:02	20:18	Potential Work Window
8/16/2025	15:30	0.21	6:02	20:18	Potential Work Window
8/16/2025	16:00	1.35	6:02	20:18	Potential Work Window
8/16/2025	16:30	2.88	6:02	20:18	Potential Work Window
8/16/2025	17:00	4.36	6:02	20:18	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/17/2025	6:30	6.60	6:04	20:17	Potential Work Window
8/17/2025	7:00	7.28	6:04	20:17	Potential Work Window
8/17/2025	7:30	7.53	6:04	20:17	Potential Work Window
8/17/2025	8:00	7.45	6:04	20:17	Potential Work Window
8/17/2025	8:30	7.23	6:04	20:17	Potential Work Window
8/17/2025	9:00	7.12	6:04	20:17	Potential Work Window
8/17/2025	9:30	7.19	6:04	20:17	Potential Work Window
8/17/2025	10:00	7.36	6:04	20:17	Potential Work Window
8/17/2025	10:30	7.66	6:04	20:17	Potential Work Window
8/18/2025	12:00	7.96	6:05	20:15	Potential Work Window
8/18/2025	12:30	7.28	6:05	20:15	Potential Work Window
8/18/2025	13:00	6.21	6:05	20:15	Potential Work Window
8/18/2025	13:30	4.77	6:05	20:15	Potential Work Window
8/18/2025	14:00	3.06	6:05	20:15	Potential Work Window
8/18/2025	14:30	1.29	6:05	20:15	Potential Work Window
8/18/2025	15:00	-0.18	6:05	20:15	Potential Work Window
8/18/2025	15:30	-1.05	6:05	20:15	Potential Work Window
8/18/2025	16:00	-1.25	6:05	20:15	Potential Work Window
8/18/2025	16:30	-0.72	6:05	20:15	Potential Work Window
8/18/2025	17:00	0.56	6:05	20:15	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/19/2025	6:30	4.29	6:07	20:13	Potential Work Window
8/19/2025	7:00	6.02	6:07	20:13	Potential Work Window
8/19/2025	7:30	7.41	6:07	20:13	Potential Work Window
8/19/2025	9:30	7.91	6:07	20:13	Potential Work Window
8/19/2025	10:00	7.45	6:07	20:13	Potential Work Window
8/19/2025	10:30	7.10	6:07	20:13	Potential Work Window
8/19/2025	11:00	6.93	6:07	20:13	Potential Work Window
8/19/2025	11:30	7.05	6:07	20:13	Potential Work Window
8/20/2025	12:00	7.39	6:08	20:11	Potential Work Window
8/20/2025	12:30	7.63	6:08	20:11	Potential Work Window
8/20/2025	13:00	7.55	6:08	20:11	Potential Work Window
8/20/2025	13:30	7.12	6:08	20:11	Potential Work Window
8/20/2025	14:00	6.24	6:08	20:11	Potential Work Window
8/20/2025	14:30	4.88	6:08	20:11	Potential Work Window
8/20/2025	15:00	3.11	6:08	20:11	Potential Work Window
8/20/2025	15:30	1.22	6:08	20:11	Potential Work Window
8/20/2025	16:00	-0.36	6:08	20:11	Potential Work Window
8/20/2025	16:30	-1.34	6:08	20:11	Potential Work Window
8/20/2025	17:00	-1.56	6:08	20:11	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/21/2025	6:30	1.14	6:09	20:09	Potential Work Window
8/21/2025	7:00	3.26	6:09	20:09	Potential Work Window
8/21/2025	7:30	5.31	6:09	20:09	Potential Work Window
8/21/2025	8:00	7.03	6:09	20:09	Potential Work Window
8/21/2025	10:00	7.94	6:09	20:09	Potential Work Window
8/21/2025	10:30	7.11	6:09	20:09	Potential Work Window
8/21/2025	11:00	6.41	6:09	20:09	Potential Work Window
8/21/2025	11:30	5.97	6:09	20:09	Potential Work Window
8/22/2025	12:00	5.91	6:11	20:07	Potential Work Window
8/22/2025	12:30	6.32	6:11	20:07	Potential Work Window
8/22/2025	13:00	6.96	6:11	20:07	Potential Work Window
8/22/2025	13:30	7.46	6:11	20:07	Potential Work Window
8/22/2025	14:00	7.59	6:11	20:07	Potential Work Window
8/22/2025	14:30	7.26	6:11	20:07	Potential Work Window
8/22/2025	15:00	6.34	6:11	20:07	Potential Work Window
8/22/2025	15:30	4.84	6:11	20:07	Potential Work Window
8/22/2025	16:00	2.93	6:11	20:07	Potential Work Window
8/22/2025	16:30	1.01	6:11	20:07	Potential Work Window
8/22/2025	17:00	-0.45	6:11	20:07	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/23/2025	6:30	-0.22	6:12	20:05	Potential Work Window
8/23/2025	7:00	1.16	6:12	20:05	Potential Work Window
8/23/2025	7:30	3.16	6:12	20:05	Potential Work Window
8/23/2025	8:00	5.23	6:12	20:05	Potential Work Window
8/23/2025	8:30	6.96	6:12	20:05	Potential Work Window
8/23/2025	10:30	7.57	6:12	20:05	Potential Work Window
8/23/2025	11:00	6.43	6:12	20:05	Potential Work Window
8/23/2025	11:30	5.41	6:12	20:05	Potential Work Window
8/24/2025	12:00	4.76	6:14	20:03	Potential Work Window
8/24/2025	12:30	4.56	6:14	20:03	Potential Work Window
8/24/2025	13:00	4.89	6:14	20:03	Potential Work Window
8/24/2025	13:30	5.70	6:14	20:03	Potential Work Window
8/24/2025	14:00	6.60	6:14	20:03	Potential Work Window
8/24/2025	14:30	7.20	6:14	20:03	Potential Work Window
8/24/2025	15:00	7.32	6:14	20:03	Potential Work Window
8/24/2025	15:30	6.88	6:14	20:03	Potential Work Window
8/24/2025	16:00	5.83	6:14	20:03	Potential Work Window
8/24/2025	16:30	4.29	6:14	20:03	Potential Work Window
8/24/2025	17:00	2.54	6:14	20:03	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/25/2025	6:30	1.06	6:15	20:01	Potential Work Window
8/25/2025	7:00	1.36	6:15	20:01	Potential Work Window
8/25/2025	7:30	2.39	6:15	20:01	Potential Work Window
8/25/2025	8:00	4.01	6:15	20:01	Potential Work Window
8/25/2025	8:30	5.82	6:15	20:01	Potential Work Window
8/25/2025	9:00	7.30	6:15	20:01	Potential Work Window
8/25/2025	10:30	7.96	6:15	20:01	Potential Work Window
8/25/2025	11:00	6.91	6:15	20:01	Potential Work Window
8/25/2025	11:30	5.53	6:15	20:01	Potential Work Window
8/26/2025	12:00	4.22	6:16	19:59	Potential Work Window
8/26/2025	12:30	3.34	6:16	19:59	Potential Work Window
8/26/2025	13:00	3.02	6:16	19:59	Potential Work Window
8/26/2025	13:30	3.25	6:16	19:59	Potential Work Window
8/26/2025	14:00	4.02	6:16	19:59	Potential Work Window
8/26/2025	14:30	5.12	6:16	19:59	Potential Work Window
8/26/2025	15:00	6.11	6:16	19:59	Potential Work Window
8/26/2025	15:30	6.67	6:16	19:59	Potential Work Window
8/26/2025	16:00	6.73	6:16	19:59	Potential Work Window
8/26/2025	16:30	6.27	6:16	19:59	Potential Work Window
8/26/2025	17:00	5.33	6:16	19:59	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/27/2025	6:30	3.61	6:18	19:57	Potential Work Window
8/27/2025	7:00	3.28	6:18	19:57	Potential Work Window
8/27/2025	7:30	3.50	6:18	19:57	Potential Work Window
8/27/2025	8:00	4.18	6:18	19:57	Potential Work Window
8/27/2025	8:30	5.23	6:18	19:57	Potential Work Window
8/27/2025	9:00	6.48	6:18	19:57	Potential Work Window
8/27/2025	9:30	7.52	6:18	19:57	Potential Work Window
8/27/2025	10:30	7.90	6:18	19:57	Potential Work Window
8/27/2025	11:00	7.22	6:18	19:57	Potential Work Window
8/27/2025	11:30	6.07	6:18	19:57	Potential Work Window
8/28/2025	12:00	4.62	6:19	19:55	Potential Work Window
8/28/2025	12:30	3.19	6:19	19:55	Potential Work Window
8/28/2025	13:00	2.13	6:19	19:55	Potential Work Window
8/28/2025	13:30	1.68	6:19	19:55	Potential Work Window
8/28/2025	14:00	1.81	6:19	19:55	Potential Work Window
8/28/2025	14:30	2.45	6:19	19:55	Potential Work Window
8/28/2025	15:00	3.54	6:19	19:55	Potential Work Window
8/28/2025	15:30	4.78	6:19	19:55	Potential Work Window
8/28/2025	16:00	5.77	6:19	19:55	Potential Work Window
8/28/2025	16:30	6.33	6:19	19:55	Potential Work Window
8/28/2025	17:00	6.47	6:19	19:55	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/29/2025	6:30	6.08	6:21	19:53	Potential Work Window
8/29/2025	7:00	5.64	6:21	19:53	Potential Work Window
8/29/2025	7:30	5.37	6:21	19:53	Potential Work Window
8/29/2025	8:00	5.43	6:21	19:53	Potential Work Window
8/29/2025	8:30	5.75	6:21	19:53	Potential Work Window
8/29/2025	9:00	6.20	6:21	19:53	Potential Work Window
8/29/2025	9:30	6.77	6:21	19:53	Potential Work Window
8/29/2025	10:00	7.29	6:21	19:53	Potential Work Window
8/29/2025	10:30	7.46	6:21	19:53	Potential Work Window
8/29/2025	11:00	7.15	6:21	19:53	Potential Work Window
8/29/2025	11:30	6.43	6:21	19:53	Potential Work Window
8/30/2025	12:00	5.39	6:22	19:51	Potential Work Window
8/30/2025	12:30	4.12	6:22	19:51	Potential Work Window
8/30/2025	13:00	2.80	6:22	19:51	Potential Work Window
8/30/2025	13:30	1.68	6:22	19:51	Potential Work Window
8/30/2025	14:00	1.04	6:22	19:51	Potential Work Window
8/30/2025	14:30	0.98	6:22	19:51	Potential Work Window
8/30/2025	15:00	1.39	6:22	19:51	Potential Work Window
8/30/2025	15:30	2.24	6:22	19:51	Potential Work Window
8/30/2025	16:00	3.46	6:22	19:51	Potential Work Window
8/30/2025	16:30	4.72	6:22	19:51	Potential Work Window
8/30/2025	17:00	5.71	6:22	19:51	Potential Work Window

APPENDIX TABLE XX

PREDICTED POTENTIAL SHORELINE WORK WINDOWS AT MARCH POINT LANDFILL

(APRIL 1, 2024 TO OCTOBER 31, 2024) [1]

Date	Time	Tide Elevation (ft MLLW)	Predicted Sunrise Time	Predicted Sunset Time	Work Window?
8/31/2025	6:30	6.99	6:23	19:49	Potential Work Window
8/31/2025	7:00	7.17	6:23	19:49	Potential Work Window
8/31/2025	7:30	7.10	6:23	19:49	Potential Work Window
8/31/2025	8:00	6.89	6:23	19:49	Potential Work Window
8/31/2025	8:30	6.74	6:23	19:49	Potential Work Window
8/31/2025	9:00	6.72	6:23	19:49	Potential Work Window
8/31/2025	9:30	6.72	6:23	19:49	Potential Work Window
8/31/2025	10:00	6.73	6:23	19:49	Potential Work Window
8/31/2025	10:30	6.83	6:23	19:49	Potential Work Window
8/31/2025	11:00	6.86	6:23	19:49	Potential Work Window
8/31/2025	11:30	6.62	6:23	19:49	Potential Work Window