

**Lower Duwamish Waterway Upper Reach
Remedial Action**

Contract KC001065

King County

Construction Time Determination Schedule

LDWBaseline_Rev9.xer

Data Date: October 8, 2024

October 27, 2024

Table of Contents

1.	Executive Summary.....	3
2.	Milestones	3
3.	General Work Sequence	3
3.1	Calendars.....	5
3.2	Resource and Cost Loading.....	6
4.	Assumptions	6
5.	Production Rate Tables	8
5.1	WBS	10
6.	Exhibits.....	11

1. Executive Summary

The purpose of this Construction Time Determination Schedule is to develop a common understanding of scope, sequencing of work, verification of milestone dates, and recognition of project constraints, coordination and de-confliction of potential time and space conflicts, as well as identification and potential mitigation of risks.

The objective with the sequence of work is to start at the upstream end of the upper reach and work downstream to reduce risk of contamination of cleaned up areas. The general sequence of the construction activities will begin with the debris removal of contaminated areas, followed by the excavation and dredging. Capping, backfill and ENR will occur after dredging is completed at a given SMA.

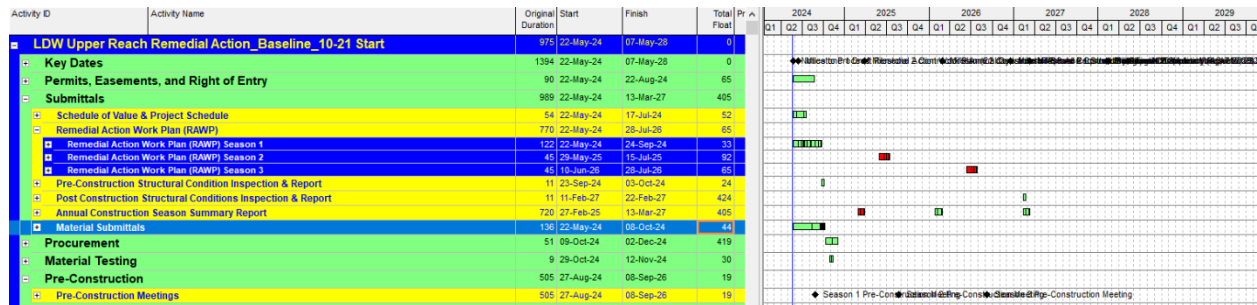
2. Milestones

The following key milestones are in the schedule. These milestones are established specifically to help mark integration points between seasons and to track contractual milestones.

Activity ID	Activity Name	Original Duration	Start	Finish
LDW Upper Reach Remedial Action_Baseline_10-21 Start				
Key Dates				
MILE-01	Milestone 1 Draft Remedial Action Work Plan (21 days from NTP)	0		12-Jun-24
MILE-02-1	Milestone 2 Contractor's Annual Construction Season 1 Summary Report	0		29-Mar-25
MILE-02-2	Milestone 2 Contractor's Annual Construction Season 2 Summary Report	0		27-Feb-26
MILE-02-3	Milestone 2 Contractor's Annual Construction Season 3 Summary Report	0		13-Mar-27
MILE-03	Milestone 3 All Required Dredging Activities	0		17-Dec-26
MILE-04	Milestone 4 In-Water Work Activities	0		07-Feb-28
MILE-05	Substantial Completion (April 15, 2027)	0		14-Feb-28
MILE-06	Final Completion (May, 7 2028)	0		07-May-28
MILE-NTP	Notice to Proceed	0	22-May-24	

3. General Work Sequence

The Construction NTP occurred on May 22, 2024, the preconstruction effort begins with submittals and permits that will allow the Contractor to mobilize; followed by material submittals, procurement and pre-construction testing. The assumption made in the schedule is that mobilization will happen before October 1st each season and work will commence on October 1st with the exception of season 1 which is forecasting a mobilization of October 21st, 2024.

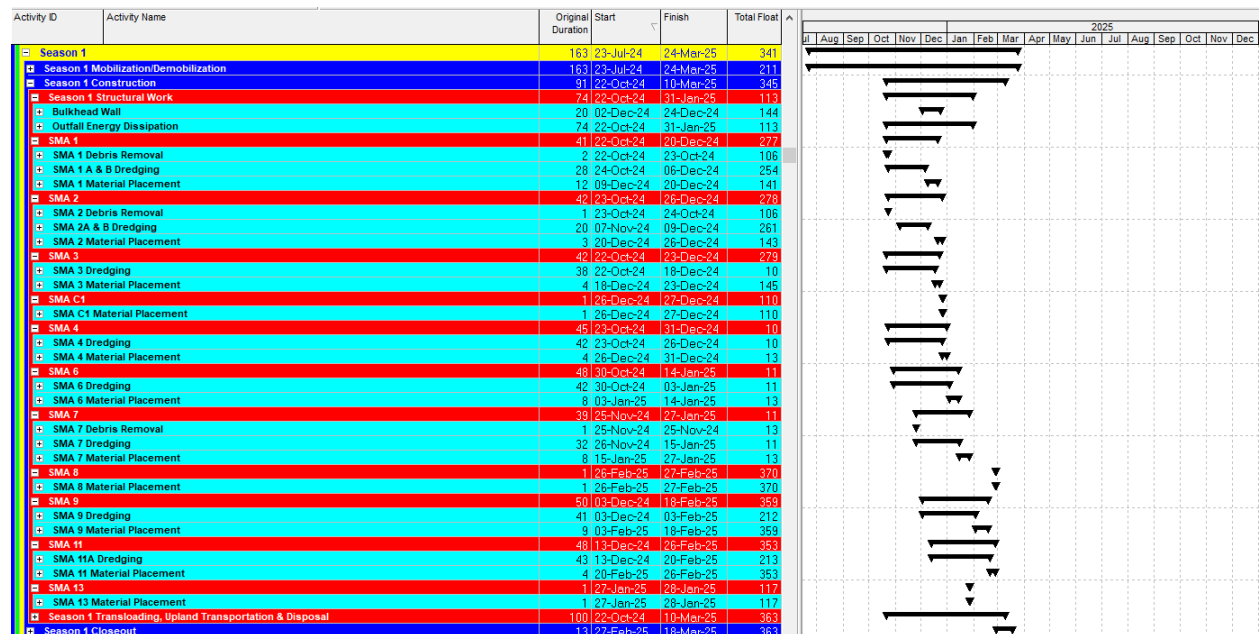


Construction Season 1

Construction will not begin until the pre-construction surveys are performed in the SMAs for Season 1. Immediately after mobilization, it is anticipated that the work for temporary outlet protection and debris removal will take place. Followed by the dredging of SMA 1A, 1B, 2A, 2B which is concurrent with the dredging of SMA 3, 4, 6, 7, 8, 9 and 11A. Once the dredging work is complete at each SMA, post dredge survey will follow with a 15 working day period for the project representative to determine via test lab test results if re-dredging is necessary. The schedule assumes a re-dredge period at each dredge SMA. Followed by material placement, which is Backfill, Required RMC, Inner Perimeter RMC, Outer Perimeter RMC, ENR and/or Amended Cover at each SMA as specified in Contract Drawings, this work is performed sequentially which is then followed by a post placement survey.

During the season 1 construction, there will be work performed at the energy dissipation structures outfall 2093 which is associated to SMA 1A and 2073 which is associated to SMA 7. This work will be performed after the completion of the material placement of SMA 1A, 1B and 7.

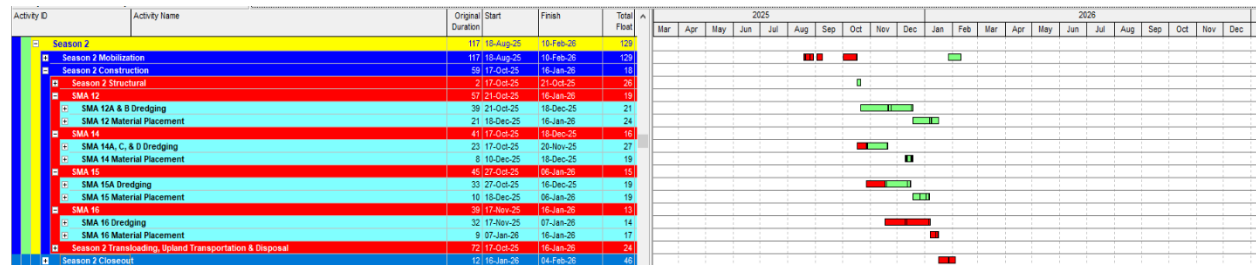
Finally, the season 1 ends with the closeout documentation.



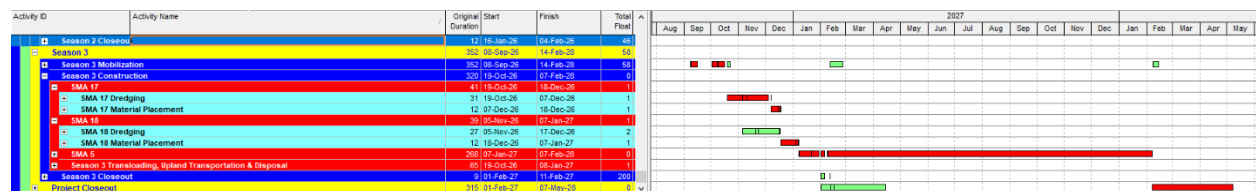
Construction Season 2

The season 2 construction begins with the mobilization, pre-construction surveys, and temporary facilities. Followed by the protection of the existing outfalls and dredging of SMA 12A and 12B. Once the dredging work is complete at SMA 12A and 12B, post dredge survey will follow with a 15 working day period for the project representative to determine via test lab test results if re-dredging is necessary. The same equipment will place the material for backfill on SMA 12B, RMC inner perimeter on SMA 12A and 12B, RMC outer perimeter on SMA 12A and 12B, and Engineering Cap at SMA 12B which is then followed by a post placement survey. Concurrently, SMA 14A, 14C, and 14D will begin dredging, and while the Project Representative determines if re-dredging is needed at SMA14A, 14C, and 14D, the equipment will be moved to start dredging SMA 15A and 16. While the process of determining if SMA 15A and 16 require re-dredging is under way, the equipment will be moved to SMA 14A, 14B, 14C and 14D to start the material placement, followed by material placement in SMA 15A, 15B and 16 and post placement surveys. Finally, the season 2 ends with closeout documentation.

Construction Season 3



The season 3 construction begins with the mobilization, pre-construction surveys, and temporary facilities. Followed by the dredging work of SMA 17 and SMA 18, post dredge surveys will follow with a 15 working day period for the project representative to determine via test lab test results if re-dredging is necessary at each SMA. Then the material placement will start on SMA 17 followed by the material placement of SMA18 and the post placement surveys. Once SMA 18 is complete, the work SMA 5 will begin with the debris removal, bank excavation and transportation and material disposal. SMA 5 work continues with material placement, planting and landscaping. Finally, the season 3 ends with closeout documentation



3.1 Calendars

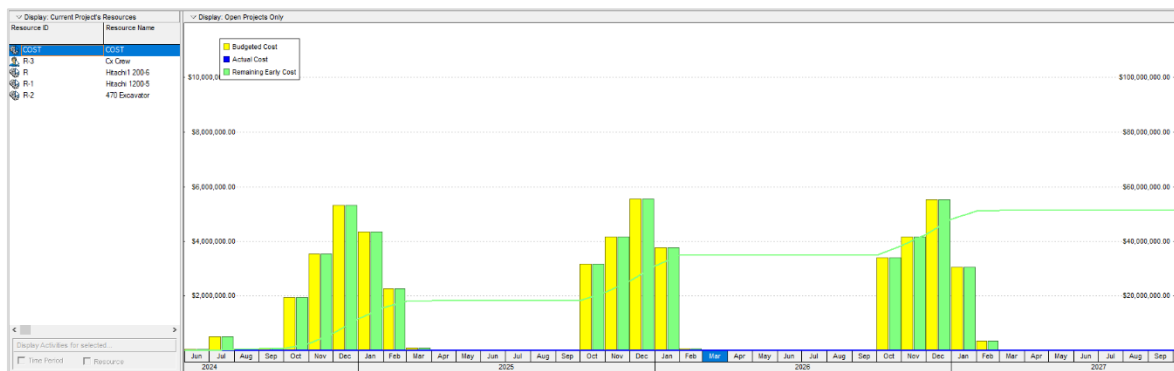
The following Calendars have been utilized at the Project Level:

- “LDW - 5 day Work Week w/ Holidays (through 2028)” is utilized for cleanup activities that are not in water and project closeout activities.
- “LDW - In-Water Work Window 5 day -10 Hrs./day Work Week w/ Holidays (through 2028)” is utilized in all 3 construction seasons
- “LDW - In-Water Work Window 6 day -10 Hrs./day Work Week w/ Holidays (through 2028)” is utilized in all 3 construction seasons where needed.
- “LDW - 7 day Work Week w/ Holidays (through 2028)” is utilized on all preconstruction activities and milestones.
- For all in water activities a work window has been assigned from October 1 through February 15.
- For all in water activities, 12 working days are assumed as non-working days each season:
 - The first 12 working days, Monday-Friday, of October
- The following federal holidays were assigned to each calendar:
 - January 1st New Year’s Day,
 - Martin Luther King’s Day
 - Memorial Day.

- July 4th,
- Labor Day,
- Thanksgiving Day,
- Day after Thanksgiving,
- Christmas Day
- New Year’s Day

3.2 Resource and Cost Loading

The schedule has been cost loaded to match the bidding schedule.



The following resources for the three major equipment were loaded to the schedule:

Resource ID	Resource Name	Resource Type
COST	COST	Nonlabor
R-3	Cx Crew	Labor
R	Hitachi 200-6	Nonlabor
R-1	Hitachi 1200-5	Nonlabor
R-2	470 Excavator	Nonlabor

4. Assumptions

The following assumptions are made within the schedule:

1. The schedule does not include delays in approval of submittals.
2. The schedule assumes that if any permits or demonstration of meeting the substantive requirements are needed, the process will be addressed early in the project and permits or the demonstration of meeting the substantive requirements will not be the drivers to the start of the cleanup work.
3. It is anticipated that three major equipment will be utilized across the length of the project (two Hitachi 1200 and one 470 excavator).
4. An exception is requested for SMA 2 per Section 01 01 400 1.10 D18.a of the specifications, as the SMA 2 would remain open for 19 days instead of the maximum allowable 12 days, from the acceptance of dredging completion to the commencement of clean material placement. This approach was chosen to avoid alternating between contaminated dredging and clean material placement across SMA 1 and SMA 2. By completing all dredging and re-dredging activities in both SMA 1 and SMA 2 before starting clean material placement, the process is streamlined, reducing the risk of cross-contamination.

5. The sequence in the schedule shows that for the most part, the work will be performed from upstream to downstream,
6. The schedule assumes that at each in-water season, 12 working days will not be available and work will be paused due to the tribal fishing activities. The “In-Water” calendars in the schedule have 12 days as “Non-working days” occurring during the months of October – November each year.
7. At the end of each construction season during the in-water work window, an activity labeled “Standby Time (Bid Time 20)” with a duration of 6.3 days was added to the schedule.
The currently proposed schedule would extend beyond Season 1’s February 15th fish window by 4 days (or up to 13 days with potential tribal fishing delays). To recover these days, the plan includes shortened sampling times, working on Saturdays during material placement, and utilizing the FlexiFloat barge and 470 Excavator to perform re-dredging activities in SMA 3 and SMA 4.

5. Production Rate Tables

The following manhours and quantities from the estimate were utilized to produce the durations in the schedule.

Required Dredging & In-Water Transportation				
	Man Hours	Shifts	Total CY	Dredging Production Rate of CY Per Shift
SMA 1	260	6.5	1300	200
SMA 2	40	1	300	300
SMA 3	80	2	600	300
SMA 4	120	3	1000	333
SMA 6	700	14	12900	921
SMA 7	200	4	3500	875
SMA 9	500	10	8900	890
SMA11	100	2	1800	900
SMA 12	1350	27	24300	900
SMA 14	350	7	6000	857
SMA 15	900	18	16300	906
SMA 16	900	18	16300	906
SMA 17	800	16	14000	875
SMA 18	600	12	11000	917
			Average	720

Contingency Re- Dredging & In-Water Transportation				
	Man Hours	Shifts	Total CY	Dredging Production Rate of CY Per Shift
SMA 1	80	2	420	210
SMA 2	20	0.5	70	140
SMA 3	20	0.5	130	260
SMA 4	40	1	170	170
SMA 6	100	2	1830	915
SMA 7	50	1	520	520
SMA 9	50	1	660	660
SMA11	40	1	210	210
SMA 12	5	0.1	90	900
SMA 14	2.79	0.1	50	500
SMA 15	100	2	1700	850
SMA 16	100	2	1700	850
SMA 17	50	1	975	975
SMA 18	50	1	975	975
			Average	581

Transloading, Upland Transportation & Disposal				
	Man Hours	Shifts	Total TN	Production Rate of TN Per Shift
All SMAs	5963.08	149.1	193700	1299

Purchase & Placement of Backfill Material				
	Man Hours	Shifts	Total CY	Production Rate of CY Per Shift
SMA 1	318	8	1589	199
SMA 2	40	1	389	389
SMA 3	80	2	688	344
SMA 6	800	16	14404	900
SMA 7	222	4	3991	998
SMA 9	477	10	8579	858
SMA11	110	2	1969	985

Purchase & Placement of Backfill Material				
SMA 12	544	11	9791	890
SMA 14	6	0.1	102	1020
SMA 15	484	9.7	8707	898
SMA 17	389	8	7000	875
Average				760

Purchase & Placement of Requirement RMC Material & Inner Perimeter				
	Man Hours	Shifts	Total CY	Production Rate of CY Per Shift
SMA 1	69	1.7	394	232
SMA 2	34	0.9	292	324
SMA 3	34	0.8	288	360
SMA 4	102	2.5	707	283
SMA 6	31	0.6	558	930
SMA 7	21	0.4	373	933
SMA 9	60	1.2	1082	902
SMA 11	20	0.4	358	895
SMA 12	106	2.1	1908	909
SMA 14	515	10.3	9267	900
SMA 17	241	4.8	4328	902
Average				688

Purchase & Placement of Outer Perimeter RMC				
	Man Hours	Shifts	Total CY	Production Rate of CY Per Shift
SMA 1	31	0.8	92	115
SMA 2	15	0.4	95	238
SMA 3	15	0.4	69	173
SMA 4	15	0.4	82	205
SMA 6	7	0.4	132	330
SMA 7	5	0.1	92	920
SMA 9	10	0.2	179	895
SMA 11	6	0.1	99	990
SMA 12	17	0.3	312	1040
SMA 14	2	0.1	41	410
SMA 14, 15, 16	2	0.5	416	832
SMA 17 - 18	241	0.3	230	767
Average				576

Purchase & Placement of ENR				
	Man Hours	Shifts	Production Rate of CY Per Shift	
SMA 1	18	0.4	89	
SMA 8	5	0.1	94	
SMA 11	5	0.1	75	
SMA 14	5	0.1	58	
SMA 15	5	1	44	
Average				72

5.1 WBS

A WBS exists within the schedule and is as follows:

WBS Code	WBS Name	Start	Finish
LDWBaseline_Rev7	LDW Upper Reach Remedial Action_Baseline_10-21 Start	22-May-24	7-May-28
LDWBaseline_Rev7.1	Key Dates	22-May-24	7-May-28
LDWBaseline_Rev7.7	Permits, Easements, and Right of Entry	22-May-24	22-Aug-24
LDWBaseline_Rev7.2	Submittals	22-May-24	13-Mar-27
LDWBaseline_Rev7.2.4	Schedule of Value & Project Schedule	22-May-24	17-Jul-24
LDWBaseline_Rev7.2.5	Remedial Action Work Plan (RAWP)	22-May-24	28-Jul-26
LDWBaseline_Rev7.2.5.1	Remedial Action Work Plan (RAWP) Season 1	22-May-24	24-Sep-24
LDWBaseline_Rev7.2.5.2	Remedial Action Work Plan (RAWP) Season 2	29-May-25	15-Jul-25
LDWBaseline_Rev7.2.5.3	Remedial Action Work Plan (RAWP) Season 3	10-Jun-26	28-Jul-26
LDWBaseline_Rev7.2.6	Pre-Construction Structural Condition Inspection & Report	23-Sep-24	3-Oct-24
LDWBaseline_Rev7.2.7	Post Construction Structural Conditions Inspection & Report	11-Feb-27	2-Feb-27
LDWBaseline_Rev7.2.8	Annual Construction Season Summary Report	27-Feb-25	13-Mar-27
LDWBaseline_Rev7.2.1	Material Submittals	22-May-24	8-Oct-24
LDWBaseline_Rev7.6	Procurement	9-Oct-24	2-Dec-24
LDWBaseline_Rev7.5	Material Testing	29-Oct-24	12-Nov-24
LDWBaseline_Rev7.3	Pre-Construction	27-Aug-24	8-Sep-26
LDWBaseline_Rev7.3.2	Pre-Construction Meetings	27-Aug-24	8-Sep-26
LDWBaseline_Rev7.4	Construction	23-Jul-24	7-May-28
LDWBaseline_Rev7.4.1	Season 1	23-Jul-24	13-Mar-25
LDWBaseline_Rev7.4.1.6	Season 1 Mobilization/Demobilization	23-Jul-24	13-Mar-25
LDWBaseline_Rev7.4.1.1	Season 1 Construction	21-Oct-24	27-Feb-25
LDWBaseline_Rev7.4.1.1.1	Season 1 Structural Work	21-Oct-24	23-Jan-25
LDWBaseline_Rev7.4.1.1.1.4	Bulkhead Wall	2-Dec-24	26-Dec-24
LDWBaseline_Rev7.4.1.1.1.6	Outfall Energy Dissipation	21-Oct-24	23-Jan-25
LDWBaseline_Rev7.4.1.1.6	SMA 1	21-Oct-24	13-Dec-24
LDWBaseline_Rev7.4.1.1.6.2	SMA 1 Debris Removal	21-Oct-24	23-Oct-24
LDWBaseline_Rev7.4.1.1.6.1	SMA 1 A & B Dredging	24-Oct-24	2-Dec-24
LDWBaseline_Rev7.4.1.1.6.3	SMA 1 Material Placement	2-Dec-24	13-Dec-24
LDWBaseline_Rev7.4.1.1.7	SMA 2	23-Oct-24	18-Dec-24
LDWBaseline_Rev7.4.1.1.7.1	SMA 2 Debris Removal	23-Oct-24	24-Oct-24
LDWBaseline_Rev7.4.1.1.7.2	SMA 2A & B Dredging	31-Oct-24	2-Dec-24
LDWBaseline_Rev7.4.1.1.7.3	SMA 2 Material Placement	13-Dec-24	18-Dec-24
LDWBaseline_Rev7.4.1.1.8	SMA 3	21-Oct-24	11-Dec-24
LDWBaseline_Rev7.4.1.1.8.3	SMA 3 Dredging	21-Oct-24	6-Dec-24
LDWBaseline_Rev7.4.1.1.8.1	SMA 3 Material Placement	6-Dec-24	11-Dec-24
LDWBaseline_Rev7.4.1.1.5	SMA C1	18-Dec-24	19-Dec-24
LDWBaseline_Rev7.4.1.1.5.1	SMA C1 Material Placement	18-Dec-24	19-Dec-24
LDWBaseline_Rev7.4.1.1.9	SMA 4	23-Oct-24	18-Dec-24
LDWBaseline_Rev7.4.1.1.9.4	SMA 4 Dredging	23-Oct-24	13-Dec-24
LDWBaseline_Rev7.4.1.1.9.1	SMA 4 Material Placement	13-Dec-24	18-Dec-24
LDWBaseline_Rev7.4.1.1.10	SMA 6	25-Oct-24	6-Jan-25
LDWBaseline_Rev7.4.1.1.10.5	SMA 6 Dredging	25-Oct-24	20-Dec-24
LDWBaseline_Rev7.4.1.1.10.1	SMA 6 Material Placement	20-Dec-24	6-Jan-25
LDWBaseline_Rev7.4.1.1.11	SMA 7	13-Nov-24	16-Jan-25
LDWBaseline_Rev7.4.1.1.11.3	SMA 7 Debris Removal	13-Nov-24	13-Nov-24
LDWBaseline_Rev7.4.1.1.11.6	SMA 7 Dredging	13-Nov-24	7-Jan-25
LDWBaseline_Rev7.4.1.1.11.1	SMA 7 Material Placement	7-Jan-25	16-Jan-25
LDWBaseline_Rev7.4.1.1.3	SMA 8	17-Feb-25	18-Feb-25
LDWBaseline_Rev7.4.1.1.3.1	SMA 8 Material Placement	17-Feb-25	18-Feb-25
LDWBaseline_Rev7.4.1.1.12	SMA 9	19-Nov-24	7-Feb-25
LDWBaseline_Rev7.4.1.1.12.7	SMA 9 Dredging	19-Nov-24	24-Jan-25
LDWBaseline_Rev7.4.1.1.12.1	SMA 9 Material Placement	24-Jan-25	7-Feb-25
LDWBaseline_Rev7.4.1.1.13	SMA 11	3-Dec-24	17-Feb-25
LDWBaseline_Rev7.4.1.1.13.8	SMA 11A Dredging	3-Dec-24	11-Feb-25
LDWBaseline_Rev7.4.1.1.13.1	SMA 11 Material Placement	11-Feb-25	17-Feb-25
LDWBaseline_Rev7.4.1.1.2	SMA 13	16-Jan-25	16-Jan-25
LDWBaseline_Rev7.4.1.1.2.1	SMA 13 Material Placement	16-Jan-25	16-Jan-25
LDWBaseline_Rev7.4.1.1.4	Season 1 Transloading, Upland Transportation & Disposal	21-Oct-24	27-Feb-25
LDWBaseline_Rev7.4.1.3	Season 1 Closeout	18-Feb-25	7-Mar-25

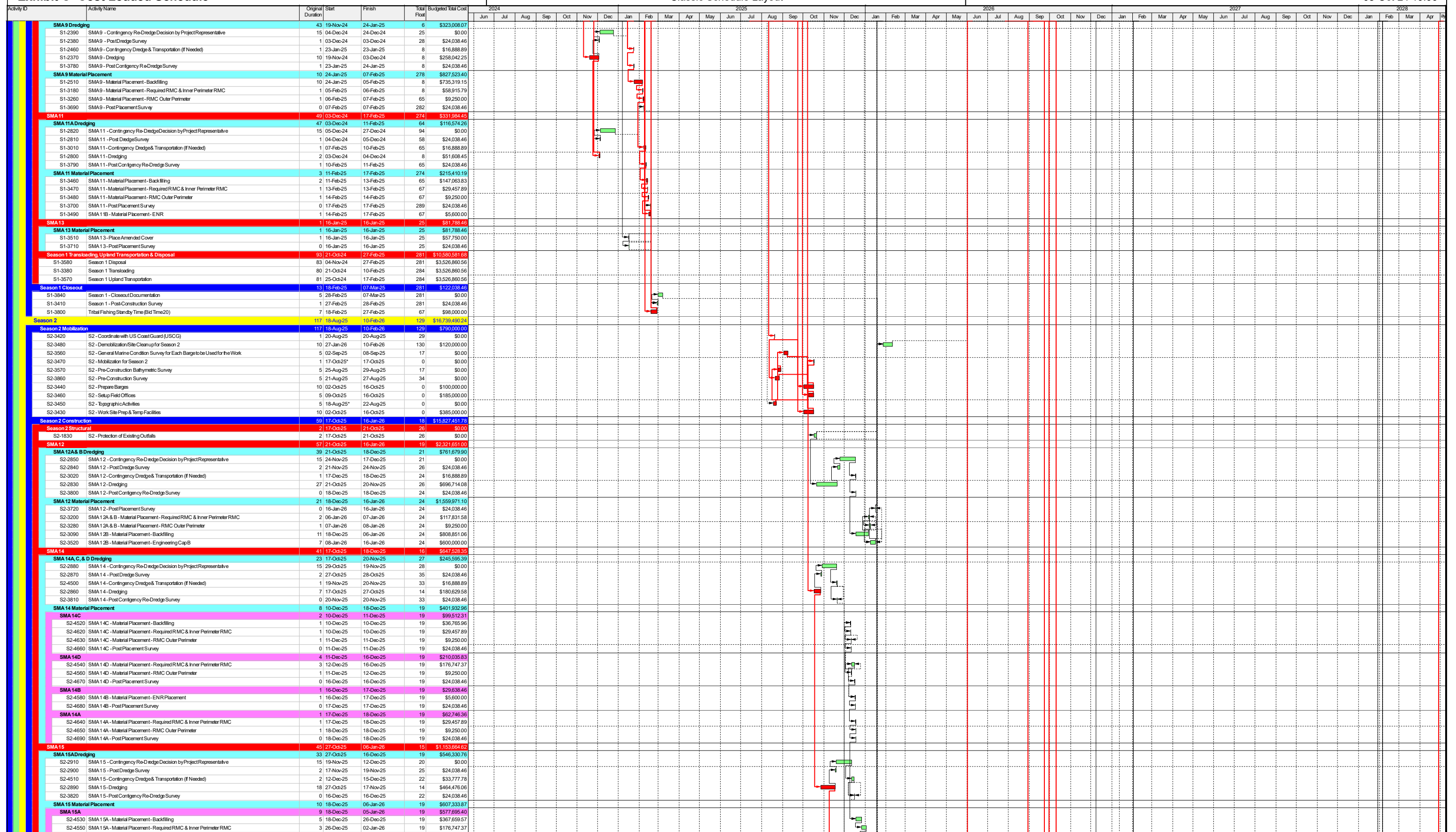
WBS Code	WBS Name	Start	Finish
LDWBaseline_Rev7.4.2	Season 2	18-Aug-25	10-Feb-26
LDWBaseline_Rev7.4.2.6	Season 2 Mobilization	18-Aug-25	10-Feb-26
LDWBaseline_Rev7.4.2.4	Season 2 Construction	17-Oct-25	16-Jan-26
LDWBaseline_Rev7.4.2.4.5	Season 2 Structural	17-Oct-25	21-Oct-25
LDWBaseline_Rev7.4.2.4.1	SMA 12	21-Oct-25	16-Jan-26
LDWBaseline_Rev7.4.2.4.1.9	SMA 12A & B Dredging	21-Oct-25	18-Dec-25
LDWBaseline_Rev7.4.2.4.1.1	SMA 12 Material Placement	18-Dec-25	16-Jan-26
LDWBaseline_Rev7.4.2.4.8	SMA 14	17-Oct-25	18-Dec-25
LDWBaseline_Rev7.4.2.4.8.10	SMA 14A, C, & D Dredging	17-Oct-25	20-Nov-25
LDWBaseline_Rev7.4.2.4.8.1	SMA 14 Material Placement	10-Dec-25	18-Dec-25
LDWBaseline_Rev7.4.2.4.8.1.4	SMA 14C	10-Dec-25	11-Dec-25
LDWBaseline_Rev7.4.2.4.8.1.1	SMA 14D	11-Dec-25	16-Dec-25
LDWBaseline_Rev7.4.2.4.8.1.3	SMA 14B	16-Dec-25	17-Dec-25
LDWBaseline_Rev7.4.2.4.8.1.2	SMA 14A	17-Dec-25	18-Dec-25
LDWBaseline_Rev7.4.2.4.9	SMA 15	27-Oct-25	6-Jan-26
LDWBaseline_Rev7.4.2.4.9.11	SMA 15A Dredging	27-Oct-25	16-Dec-25
LDWBaseline_Rev7.4.2.4.9.1	SMA 15 Material Placement	18-Dec-25	6-Jan-26
LDWBaseline_Rev7.4.2.4.9.1.1	SMA 15A	18-Dec-25	5-Jan-26
LDWBaseline_Rev7.4.2.4.9.1.2	SMA 15B	5-Jan-26	6-Jan-26
LDWBaseline_Rev7.4.2.4.10	SMA 16	17-Nov-25	16-Jan-26
LDWBaseline_Rev7.4.2.4.10.12	SMA 16 Dredging	17-Nov-25	7-Jan-26
LDWBaseline_Rev7.4.2.4.10.1	SMA 16 Material Placement	7-Jan-26	16-Jan-26
LDWBaseline_Rev7.4.2.4.2	Season 2 Transloading, Upland Transportation & Disposal	17-Oct-25	16-Jan-26
LDWBaseline_Rev7.4.2.7	Season 2 Closeout	16-Jan-26	4-Feb-26
LDWBaseline_Rev7.4.3	Season 3	8-Sep-26	14-Feb-28
LDWBaseline_Rev7.4.3.6	Season 3 Mobilization	8-Sep-26	14-Feb-28
LDWBaseline_Rev7.4.3.4	Season 3 Construction	19-Oct-26	7-Feb-28
LDWBaseline_Rev7.4.3.4.1	SMA 17	19-Oct-26	18-Dec-26
LDWBaseline_Rev7.4.3.4.1.13	SMA 17 Dredging	19-Oct-26	7-Dec-26
LDWBaseline_Rev7.4.3.4.1.1	SMA 17 Material Placement	7-Dec-26	18-Dec-26
LDWBaseline_Rev7.4.3.4.2	SMA 18	5-Nov-26	7-Jan-27
LDWBaseline_Rev7.4.3.4.2.14	SMA 18 Dredging	5-Nov-26	17-Dec-26
LDWBaseline_Rev7.4.3.4.2.1	SMA 18 Material Placement	18-Dec-26	7-Jan-27
LDWBaseline_Rev7.4.3.4.3	SMA 5	7-Jan-27	7-Feb-28
LDWBaseline_Rev7.4.3.4.5	Season 3 Transloading, Upland Transportation & Disposal	19-Oct-26	8-Jan-27
LDWBaseline_Rev7.4.3.7	Season 3 Closeout	1-Feb-27	11-Feb-27
LDWBaseline_Rev7.4.4	Project Closeout	1-Feb-27	7-May-28

6. Exhibits

- Exhibit A – Whole Schedule
- Exhibit B – Critical Path
- Exhibit C – Cost Loaded Schedule
- Exhibit D – Milestone Report
- Exhibit E – Summary Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	Early Start	Late Start	Early Finish	Late Finish	Total Float	Predecessor	Successors	2024				2025				2026				2027				2028										
												Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
S3-4445	SMA 18 - Material Placement - Backfilling	8	18-Dec-26	04-Jan-27	18-Dec-26	21-Dec-26	04-Jan-27	04-Jan-27	0	S3-3070, S3-3250	S3-3250, S3-3330																											
S3-3250	SMA 18 - Material Placement - Required RMC & Inner Perimeter RMC	3	04-Jan-27	06-Jan-27	04-Jan-27	04-Jan-27	06-Jan-27	07-Jan-27	0	S3-4445	S3-3330																											
S3-3330	SMA 18 - Material Placement - RMC Outer Perimeter	1	06-Jan-27	07-Jan-27	06-Jan-27	06-Jan-27	07-Jan-27	08-Jan-27	0	S3-3250	PC-4580																											
S3-4740	SMA 18 - Post Placement Survey	0	07-Jan-27	07-Jan-27	07-Jan-27	07-Jan-27	07-Jan-27	08-Jan-27	0	S3-3330	PC-4580																											
SMA5		268	07-Jan-27	07-Feb-28	07-Jan-27	08-Jan-27	07-Feb-28	07-Feb-28	0																													
S3-4510	SMA5 - Bank Excavation	10	08-Jan-27	21-Jan-27	08-Jan-27	11-Jan-27	21-Jan-27	22-Jan-27	1	S3-4540, S3-4550	S3-4550																											
S3-4530	SMA5 - Debris Removal	1	07-Jan-27	08-Jan-27	07-Jan-27	08-Jan-27	08-Jan-27	11-Jan-27	1	S3-4050, S3-4540, S3-4580																												
S3-4570	SMA5 - Inspection	1	08-Feb-27	08-Feb-27	08-Feb-27	08-Feb-27	08-Feb-27	08-Feb-27	0	S3-4560	S3-4580																											
S3-4580	SMA5 - Landscaping (Maintenance)	248	09-Feb-27	07-Feb-28	09-Feb-27	09-Feb-27	07-Feb-28	08-Feb-27	0	S3-4570	S3-4620, S3-4550																											
S3-4550	SMA5 - Material Placement - Engineering Cap A	10	21-Jan-27	30-Jan-27	21-Jan-27	22-Jan-27	30-Jan-27	01-Feb-27	1	S3-4510, S3-4570	PC-4580																											
S3-4560	SMA5 - Planting Preparation	5	01-Feb-27	05-Feb-27	01-Feb-27	01-Feb-27	05-Feb-27	05-Feb-27	0		S3-4570																											
S3-4540	SMA5 - Transportation and Disposal of Material	11	07-Jan-27	21-Jan-27	07-Jan-27	08-Jan-27	21-Jan-27	22-Jan-27	1	S3-4530	S3-4510																											
Season 3 Transloading, Upland Transportation & Disposal		65	19-Oct-26	08-Jan-27	19-Oct-26	20-Oct-26	08-Jan-27	11-Jan-27	1																													
S3-4640	Season 3 Disposal	65	19-Oct-26	08-Jan-27	19-Oct-26	20-Oct-26	08-Jan-27	11-Jan-27	1	S3-4465	S3-4530																											
S3-4050	Season 3 Transloading	65	19-Oct-26	08-Jan-27	19-Oct-26	20-Oct-26	08-Jan-27	11-Jan-27	1	S3-4465	S3-4530																											
S3-4630	Season 3 Upland Transportation	65	19-Oct-26	08-Jan-27	19-Oct-26	20-Oct-26	08-Jan-27	11-Jan-27	1	S3-4465	S3-4530																											
Season 3 Closeout		0							0																													
Project Closeout		90	07-Feb-28	07-May-28	07-Feb-28	07-Feb-28	07-May-28	07-May-28	0																													
PC-4610	Final Acceptance	90	07-Feb-28	07-May-28	07-Feb-28	07-Feb-28	07-May-28	07-May-28	0	PC-4600	MLE-06																											

Actual Work Remaining Work
 Critical Remaining Work Milestone



Actual Work
 Critical Remaining Work
 Remaining Work
 ◆ Milestone

Exhibit D-- Milestone Report

Classic Schedule Layout

08-Oct-24 10:09

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2024												2025												2026												2027												2028			
						Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr																	
LDW Upper Reach Remedial Action_Baseline_10-21 Start						975	22-May-24	07-May-28	0																																																
Key Dates						1394	22-May-24	07-May-28	0																																																
MLE-06	Final Completion (July 15, 2027)	0	07-May-28	07-May-28	0																																																				
MLE-01	Milestone 1 Draft Remedial Action Work Plan (21 days from NTP)	0	12-Jun-24	07-May-28	134	◆ Milestone 1 Draft Remedial Action Work Plan (21 days from NTP)																																																			
MLE-02-1	Milestone 2 Contractor's Annual Construction Season 1 Summary Report	0	29-Mar-25	07-May-28	92																																																				
MLE-02-2	Milestone 2 Contractor's Annual Construction Season 2 Summary Report	0	27-Feb-26	07-May-28	167	◆ Milestone 2 Contractor's Annual Construction Season 1 Summary Report																																																			
MLE-02-3	Milestone 2 Contractor's Annual Construction Season 3 Summary Report	0	13-Mar-27	07-May-28	405	◆ Milestone 2 Contractor's Annual Construction Season 2 Summary Report																																																			
MLE-03	Milestone 3 All Required Dredging Activities	0	17-Dec-26	07-May-28	487	◆ Milestone 2 Contractor's Annual Construction Season 3 Summary Report																																																			
MLE-04	Milestone 4 In-Water Work Activities	0	07-Feb-28	07-May-28	89	◆ Milestone 3 All Required Dredging Activities																																																			
MLE-NTP	Notice to Proceed	0	22-May-24	07-May-28	12	◆ Milestone 4 In-Water Work Activities																																																			
MLE-05	Substantial Completion (April 15, 2027)	0	14-Feb-28	07-May-28	82	◆ Substantial Completion (Apr																																																			
Permits, Easements, and Right of Entry						0																																																			
Submittals						0																																																			
Schedule of Value & Project Schedule						0																																																			
Remedial Action Work Plan (RAWP)						0																																																			
Remedial Action Work Plan (RAWP) Season 1						0																																																			
Remedial Action Work Plan (RAWP) Season 2						0																																																			
Remedial Action Work Plan (RAWP) Season 3						0																																																			
Pre-Construction Structural Condition Inspection & Report						0																																																			
Post Construction Structural Conditions Inspection & Report						0																																																			
Annual Construction Season Summary Report						0																																																			
Material Submittals						0																																																			
Procurement						0																																																			
Material Testing						0																																																			
Pre-Construction						505	27-Aug-24	08-Sep-26	19																																																
Pre-Construction Meetings						505	27-Aug-24	08-Sep-26	19																																																
PRECON-1260	Season 1 Pre-Construction Meeting	0	27-Aug-24	08-Sep-26	8	◆ Season 1 Pre-Construction Meeting																																																			
PRECON-1270	Season 2 Pre-Construction Meeting	0	20-Aug-25*	08-Sep-26	8	◆ Season 2 Pre-Construction Meeting																																																			
PRECON-1280	Season 3 Pre-Construction Meeting	0	08-Sep-26*	08-Sep-26	19	◆ Season 3 Pre-Construction Meeting																																																			
Construction						0																																																			
Season 1						0																																																			
Season 1 Mobilization/De-mobilization						0																																																			
Season 1 Construction						0																																																			
Season 1 Structural Work						0																																																			
Bulkhead Wall						0																																																			
Outlet Energy Dissipation						0																																																			
SMA 1						0																																																			
SMA 1 Debris Removal						0																																																			
SMA 1A & B Dredging						0																																																			
SMA 1 Material Placement						0																																																			
SMA 2						0																																																			
SMA 2 Debris Removal						0																																																			
SMA 2A & B Dredging						0																																																			
SMA 2 Material Placement						0																																																			
SMA 3						0																																																			
SMA 3 Dredging						0																																																			
SMA 3 Material Placement						0																																																			
SMA C1						0																																																			
SMA C1 Material Placement						0																																																			
SMA 4						0																																																			
SMA 4 Dredging						0																																																			
SMA 4 Material Placement						0																																																			
SMA 6						0																																																			
SMA 6 Dredging						0																																																			
SMA 6 Material Placement						0																																																			
SMA 7						0																																																			
SMA 7 Debris Removal						0																																																			
SMA 7 Dredging						0																																																			
SMA 7 Material Placement						0																																																			
SMA 8						0																																																			
SMA 8 Material Placement						0																																																			
SMA 9						0																																																			
SMA 9 Dredging						0																																																			
SMA 9 Material Placement						0																																																			
SMA 11						0																																																			
SMA 11A Dredging						0																																																			
SMA 11 Material Placement						0																																																			
SMA 13						0																																																			
SMA 13 Material Placement						0																																																			
Season 1 Transloading, Upland Transportation & Disposal						0																																																			
Season 1 Closeout						0																																																			
Season 2						0																																																			
Season 2 Mobilization						0																																																			
Season 2 Construction						0																																																			
Season 2 Structural						0																																																			
SMA 12						0																																																			
SMA 12A & B Dredging						0																																																			
SMA 12 Material Placement						0																																																			
SMA 14						0																																																			
SMA 14A, C, & D Dredging						0																																																			
SMA 14 Material Placement						0																																																			
SMA 14C						0																																																			
SMA 14D						0																																																			
SMA 14B						0																																																			
SMA 14A						0																																																			
SMA 15						0																																																			
SMA 15A Dredging						0																																																			
SMA 15 Material Placement						0																																																			
SMA 15A						0																																																			
SMA 15B						0																																																			
SMA 16						0																																																			
SMA 16 Dredging						0																																																			
SMA 16 Material Placement						0																																																			
Season 2 Transloading, Upland Transportation & Disposal						0																																																			
Season 2 Closeout						0																																																			
Season 3						0																																																			
Season 3 Mobilization						0																																																			
Season 3 Construction						0																																																			
SMA 17						0																																																			
SMA 17 Dredging						0																																																			
SMA 17 Material Placement						0																																																			
SMA 18						0																																																			
SMA 18						0																																																			

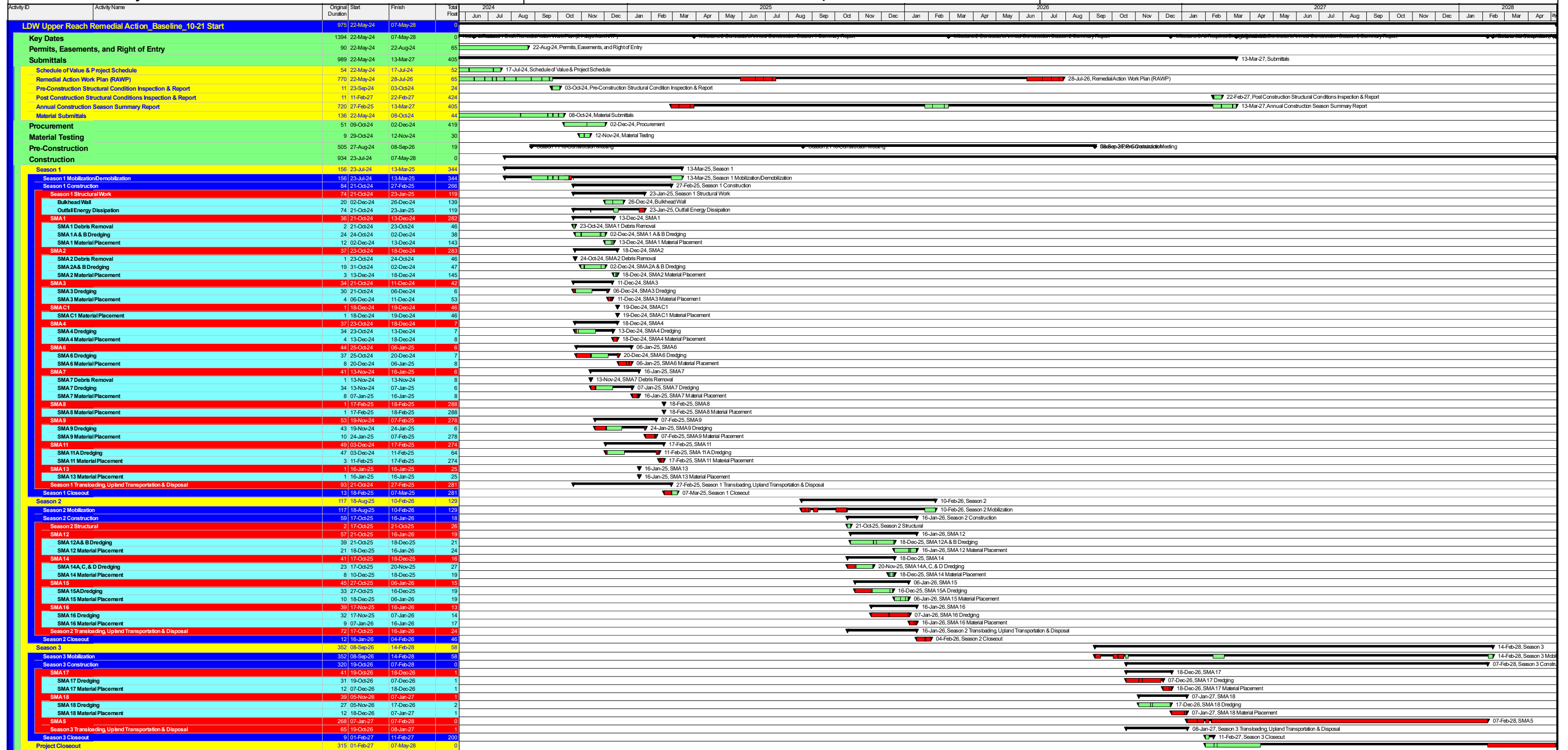
Actual Work Critical Remaining Work
 Remaining Work ◆ Milestone

TASK filter: Milestone.

Exhibit E- Summary Schedule

Classic Schedule Layout

08-Oct-24 10:16



Actual Work Remaining Work Critical Remaining Work Milestone Summary