

Lower Susquehanna River Watershed Assessment

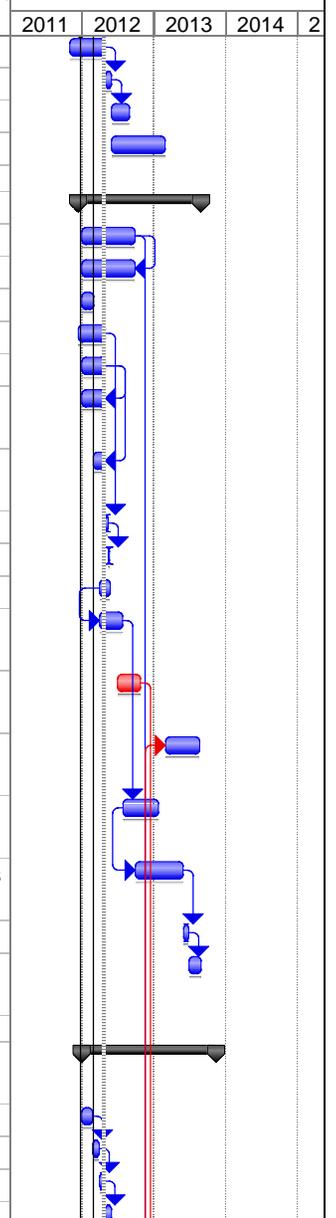
Schedule is dependent upon receipt of adequate funding

ID	Task Name	Resource Names	Duration	Start	Finish	Predecessors	Year				
							2011	2012	2013	2014	2
1	Lower Susquehanna River Watershed Assessment		156.2 wks	9/23/11	9/19/14						
2	Execute Assessment Cost-Sharing Agreement		0 wks	9/23/11	9/23/11						
3	Assessment Kick-Off Meeting	Team	0 wks	11/2/11	11/2/11						
4	Project Coordination		25.6 wks	11/2/11	4/30/12	3					
5	Develop project website	MDNR	21 wks	11/2/11	3/27/12	3					
6	Presentation to CBP modeling subcommittee	MGS	0 wks	11/30/11	11/30/11						
7	Presentation to DMMP citizens advisory group	MGS	0 wks	1/11/12	1/11/12						
8	January 2012 team meeting	Team	0 wks	1/23/12	1/23/12						
9	May 2012 team meeting	Team	0 wks	4/30/12	4/30/12						
10											
11	Data Collection		69 wks	11/2/11	2/26/13	3					
12	Provide schedule of lower Susquehanna flow recommendations	TNC	4 wks	11/2/11	11/29/11						
13	Summarize Exelon report	MDNR	4 wks	11/2/11	11/29/11						
14	Year 2 Exelon licensing report	Exelon	0 wks	1/23/12	1/23/12						
15	Licensing report -- sediment addendum	Exelon	1.2 wks	1/23/12	1/30/12	14					
16	Water Year 2011 water quality report	MDNR	8 wks	1/2/12	2/24/12						
17	Water Year 2012 water quality report	MDNR	8 wks	1/2/13	2/26/13						
18	Collect sediment grab samples	MGS	17.4 wks	2/1/12	5/31/12						
19	Sampling/analysis of suspended sediments at Conowingo outflow	USGS	57 wks	11/2/11	12/4/12						
20	Collect sediment cores in Conowingo and do initial analysis with SEDflume	ERDC	8 wks	4/9/12	6/1/12						
21	Do remaining analysis with SEDflume	ERDC	4 wks	5/7/12	6/1/12	20FF					
22	Complete and summarize literature search on reservoir sedimentation management	NAB	13 wks	11/2/11	1/31/12						
23	Review of literature search summary	Team	1 wk	2/1/12	2/7/12	22					
24											
25	Modeling and Documentation of Modeling		106.6 wks	11/2/11	11/15/13	3					
26	Complete literature search to compile data for boundary conditions	ERDC	4 wks	1/2/12	1/27/12						
27	Use available information to build model boundary conditions	ERDC	6 wks	1/23/12	3/2/12	26FS-1 wk					
28	Sediment Deposition and Transport Simulation	USGS	69.4 wks	11/2/11	2/28/13						
29	Develop and process interagency agreement	USGS	15 wks	11/2/11	2/14/12	2					
30	Execute interagency agreement	USGS	1 wk	2/15/12	2/21/12	29					
31	Locate sediment cores	USGS	9 wks	12/1/11	2/1/12						
32	Additional bathymetry is not needed	USGS	0 wks	3/23/12	3/23/12						

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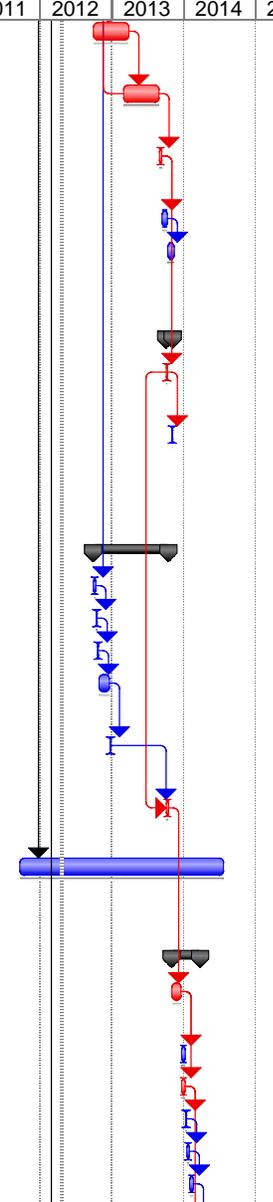
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							2011	2012	2013	2014	2
33	Complete initial HEC-RAS hydraulic model	USGS	25.8 wks	11/2/11	4/30/12	2					
34	Refine HEC-RAS hydraulic model	USGS-HEC	4.6 wks	5/1/12	5/31/12	33					
35	Validate 1D HEC-RAS model	USGS	13.2 wks	6/1/12	8/31/12	34					
36	Draft modeling report and finalize	USGS	39 wks	6/1/12	2/28/13						
37											
38	1D/2D/3D Reservoir Model Development	ERDC	89.4 wks	12/15/11	8/30/13						
39	Decide on initial modeling scenarios	Team	39 wks	1/2/12	9/28/12						
40	Selects management measures to be modeled	Team	39 wks	1/2/12	9/28/12	39FF					
41	Gather model input data	ERDC	9 wks	1/2/12	3/2/12						
42	Prepare 2D vs. 3D model comparison draft report	ERDC	19.6 wks	12/15/11	4/30/12						
43	Construct 2D/3D reservoir numerical model	ERDC	17.2 wks	1/2/12	4/30/12						
44	Modify codes for gate release scenarios for 2D/3D reservoir numerical model	ERDC	17.2 wks	1/2/12	4/30/12	43FF					
45	Develop initial 2D/3D hydrodynamic model and proofs mesh	ERDC	8.8 wks	2/29/12	4/30/12	43FF					
46	Review 2D vs. 3D comparison report	Team	2 wks	5/1/12	5/14/12	42					
47	Make decision on 2D vs. 3D	Team	1 wk	5/15/12	5/21/12	46					
48	Validate hydrodynamics of reservoir model	ERDC	8 wks	4/2/12	5/25/12						
49	Construct sediment reservoir model and proofs mesh	ERDC	17 wks	4/2/12	7/27/12	48SS					
50	Validate sediment model (model vs. SEDflume data) to assess risk	ERDC	17 wks	7/2/12	10/26/12						
51	Conduct CBEMP model simulations of scenarios and prepare draft report	ERDC-USGS	25 wks	3/4/13	8/23/13	63SS					
52	Conduct sediment transport simulations to input CBEMP model	ERDC-USGS	26 wks	7/30/12	1/25/13	49					
53	Conduct watershed / reservoir sediment transport simulations, prepare draft report	ERDC	35 wks	10/1/12	5/31/13	52SS+9 wks					
54	Review watershed / reservoir modeling report	Team	4 wks	6/3/13	6/28/13	53					
55	Technical review of watershed / reservoir modeling report	ECO-PCX	9 wks	7/1/13	8/30/13	54					
56											
57	Chesapeake Bay Environmental Model Package (CBEMP) -- Model Development		98 wks	1/2/12	11/15/13						
58	Assemble data for CBEMP model	ERDC	8 wks	1/2/12	2/24/12						
59	Prepare CBEMP data report	ERDC	5 wks	2/27/12	3/30/12	58					
60	Team review of CBEMP data report	ERDC	4 wks	4/2/12	4/27/12	59					
61	Finalize CBEMP data report	ERDC	4.8 wks	4/30/12	5/31/12	60					



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							2011	2012	2013	2014	2
62	CBEMP set-up; refine with sediment and water quality data; coordinate with reservoir modeling	ERDC	26 wks	10/1/12	3/29/13	50FS-4 wks					
63	Conduct CBEMP model simulations of scenarios, prepare draft report	ERDC	26 wks	3/4/13	8/30/13	62FS-4 wks					
64	Review draft CBEMP model simulations of scenarios report	Team	2 wks	9/2/13	9/13/13	63					
65	Agency technical review of CBEMP	ECO-PCX	4 wks	9/16/13	10/11/13	64					
66	Address/resolve ATR comments	Team	5 wks	10/14/13	11/15/13	65					
67											
68	Development of Recommendations		5 wks	10/7/13	11/8/13						
69	Meeting to view model results and determine preliminary recommendations	Team	1 wk	10/7/13	10/11/13	64FS+3 wks					
70	Agency coordination meeting to discuss model results and recommendations	Team	1 wk	11/4/13	11/8/13	69FS+3 wks					
71											
72	Dredging Placement Site Evaluation		55 wks	10/1/12	10/18/13						
73	Complete dredging placement desktop site evaluation	EN-OP	2 wks	10/1/12	10/12/12	39					
74	Site visit to potential placement sites	EN-OP	1 wk	10/15/12	10/19/12	73					
75	Develop dredging plan and bypassing options	EN-OP	1 wk	10/22/12	10/26/12	74					
76	Develop schematics and cost estimates for dredging and bypassing options	EN-OP	8 wks	10/29/12	12/21/12	75					
77	Review dredging plan and bypassing options, schematics, and cost estimates	Team	1 wk	12/24/12	12/28/12	76					
78	Refine schematics and cost estimates using model results	EN-OP	2 wks	10/7/13	10/18/13	77,69SS					
79											
80	Technical Integration and Coordination with Exelon, TMDLs, and WIPs	Team	148 wks	9/23/11	7/24/14	2					
81	Draft Report Preparation		21 wks	11/4/13	3/28/14						
82	Prepare draft report containing team's tentative recommendations	PL	7 wks	11/4/13	12/20/13	78FS+2 wks					
83	Review draft report	Team	3 wks	12/23/13	1/10/14	82					
84	Resolve comments and incorporate into report	Team	3 wks	12/23/13	1/10/14	82					
85	Finalize draft report for upper management review	PL	1 wk	1/13/14	1/17/14	84					
86	Upper management review of draft report	Team	2 wks	1/20/14	1/31/14	85					
87	Finalize draft report for agency technical review	PL	3 wks	2/3/14	2/21/14	86					



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88	Agency technical review of draft report	ECO-PCX	5 wks	2/24/14	3/28/14	87					
89											
90	Quality Assurance / Quality Control Activities		123.2 wks	3/2/12	7/11/14						
91	Coordinate agency technical review for initial in-progress review meeting	PL	4 wks	3/2/12	3/29/12	2FS+23 wks					
92	Prepare read-ahead materials for initial in-progress review meeting	PL	8 wks	7/6/12	8/30/12	91FS+14 wks					
93	Review initial in-progress review read-ahead materials	Team	2 wks	8/31/12	9/13/12	92					
94	Agency technical review of read-ahead materials	ECO-PCX	4 wks	9/14/12	10/11/12	93					
95	Resolve comments and incorporate into read-ahead materials	Team	5 wks	10/12/12	11/15/12	94					
96	Initial in-progress review meeting with CENAD and HQUSACE	Team	1 wk	12/28/12	1/3/13	95FS+6 wks					
97	Prepare read-ahead materials for final in-progress review meeting	PL	8 wks	1/13/14	3/7/14	84					
98	Review final in-progress review read-ahead materials	Team	2 wks	3/10/14	3/21/14	97					
99	Agency technical review of read-ahead materials	ECO-PCX	4 wks	3/24/14	4/18/14	98					
100	Resolve comments and incorporate into read-ahead materials	Team	5 wks	4/21/14	5/23/14	99					
101	Final in-progress review meeting with CENAD and HQUSACE	Team	1 wk	7/7/14	7/11/14	100FS+6 wks					
102	Secure concurrence to release draft report with recommendations	Team	0 wks	7/11/14	7/11/14	101					
103											
104	Final Report Preparation		9 wks	7/21/14	9/19/14						
105	Public review of draft final report	PL	4 wks	7/21/14	8/15/14	102FS+1 wk					
106	Public meeting for draft final report	PL	1 wk	8/4/14	8/8/14	105FF-1 wk					
107	Prepare final report after public review	PL	2 wks	8/18/14	8/29/14	105					
108	Route to Baltimore District Engineer for signature	PM	1 wk	9/1/14	9/5/14	107					
109	Transmit report to CENAD	PM	2 wks	9/8/14	9/19/14	108					

