















HANDOUT 9A - TOPOCK REMEDIATION PROJECT SCHEDULE (REV. 41) AUGUST 7, 2019 CWG MEETING

ID	Task Name	Duration	Forecasted Start	Forecasted Finish	Actual Start	Actual Finish	2018				2019				2020				2021				2022				2023							
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
999	DTSC review/approve	1 mon	Thu 10/31/19	Fri 11/29/19	NA	NA																												
1000	DOI review/approve	1 mon	Thu 10/31/19	Fri 11/29/19	NA	NA																												
1001	RFI/RI Volume 3	748.05 days	Fri 7/28/17	Tue 6/9/20	Fri 7/28/17	NA	[Gantt bar from Q4 2018 to Q4 2020]																											
1002	Prepare Draft RFI/RI Vol 3 Report	28.05 mons	Fri 7/28/17	Wed 10/30/19	Fri 7/28/17	NA	[Gantt bar from Q4 2018 to Q4 2019]																											
1003	DTSC sends report to CWG/TWG and Tribes	3 days	Wed 10/30/19	Mon 11/4/19	NA	NA																												
1004	CWG/TWG review/comment	30 edays	Mon 11/4/19	Wed 12/4/19	NA	NA																												
1005	Tribes review/comment	30 edays	Mon 11/4/19	Wed 12/4/19	NA	NA																												
1006	DTSC review/comment	45 edays	Mon 11/4/19	Thu 12/19/19	NA	NA																												
1007	DOI review/comment	45 edays	Mon 11/4/19	Thu 12/19/19	NA	NA																												
1008	Review/compile Comment Table (duration will be verified after receipt of comments and directives)	31 edays	Fri 12/20/19	Mon 1/20/20	NA	NA																												
1009	DTSC/DOI/PG&E hold comment clarification meeting (date is tentative)	0 days	Mon 12/23/19	Mon 12/23/19	NA	NA																												
1010	Prepare/send RTC Table (duration will be verified after receipt of comments)	4 wks	Tue 1/21/20	Tue 2/18/20	NA	NA																												
1011	RTC Meeting	10 days	Tue 2/25/20	Tue 3/10/20	NA	NA																												
1012	Send agenda (2 wks prior to meeting)	0 days	Tue 2/25/20	Tue 2/25/20	NA	NA																												
1013	Hold Meeting	0 days	Tue 3/10/20	Tue 3/10/20	NA	NA																												
1014	Prepare Revised RFI Volume 3 with RTC Table (duration is estimated, to be verified after completion of RTCs)	2 mons	Wed 3/11/20	Fri 5/8/20	NA	NA																												
1015	DTSC review/approve Revised RFI/RI Vol. 3 Report	1 mon	Mon 5/11/20	Tue 6/9/20	NA	NA																												
1016	DOI review/approve Revised RFI/RI Vol. 3 Report	1 mon	Mon 5/11/20	Tue 6/9/20	NA	NA																												
1017	GROUNDWATER CORRECTIVE MEASURES/REMEDIAL ALTERNATIVE DEVELOPMENT	2835 days	Mon 3/29/04	Wed 12/31/14	Mon 3/29/04	Wed 12/31/14	[Gantt bar from Q4 2018 to Q4 2020]																											
1165	CORRECTIVE MEASURE STUDY/FEASIBILITY STUDY (CMS/FS) AND RISK ASSESSMENT	4821.05 days	Mon 12/16/02	Tue 4/27/21	Mon 12/16/02	NA	[Gantt bar from Q4 2018 to Q4 2020]																											
1347	STATEMENT OF BASIS	3067 days	Mon 1/4/10	Sun 9/26/21	Mon 1/4/10	NA	[Gantt bar from Q4 2018 to Q4 2020]																											
1362	RECORD OF DECISION	3169 days	Fri 12/18/09	Mon 1/31/22	Fri 12/18/09	NA	[Gantt bar from Q4 2018 to Q4 2020]																											
1385	Section 106 Programmatic Agreement (PA)	1858 days	Fri 10/10/08	Wed 11/18/15	Fri 10/10/08	NA	[Gantt bar from Q4 2018 to Q4 2020]																											
1418	EIR DOCUMENTATION	1449 days	Thu 9/1/05	Wed 3/2/11	Thu 9/1/05	Wed 3/2/11	[Gantt bar from Q4 2018 to Q4 2020]																											
1491	DESIGN, PERMITTING, AND CONSTRUCTION OF GROUNDWATER REMEDY	1889 days	Mon 1/31/11	Tue 4/24/18	Mon 1/31/11	Tue 4/24/18	[Gantt bar from Q4 2018 to Q4 2020]																											
1492	Corrective Measure Implementation/Remedial Design (CMI/RD) Workplan	199 days	Mon 1/31/11	Thu 11/3/11	Mon 1/31/11	Thu 11/3/11	[Gantt bar from Q4 2018 to Q4 2020]																											
1506	Remedial Design (Preliminary, Intermediate, and Pre-Final/Final)	1723 days	Tue 9/20/11	Tue 4/24/18	Tue 9/20/11	Tue 4/24/18	[Gantt bar from Q4 2018 to Q4 2020]																											
1507	Preliminary Design	174 days	Tue 9/20/11	Thu 5/17/12	Tue 9/20/11	Thu 5/17/12	[Gantt bar from Q4 2018 to Q4 2020]																											
1519	Intermediate Design	501 days	Fri 5/18/12	Fri 4/18/14	Fri 5/18/12	Fri 4/18/14	[Gantt bar from Q4 2018 to Q4 2020]																											
1548	Implementation Plan for Evaluation of Alternative Freshwater Sources	422 days	Fri 11/16/12	Mon 6/30/14	Fri 11/16/12	Mon 6/30/14	[Gantt bar from Q4 2018 to Q4 2020]																											
1587	Field Verification of Archaeological/Historical Sites in Groundwater Remedy Footprint	4 days	Tue 9/9/14	Fri 9/12/14	Tue 9/9/14	Fri 9/12/14	[Gantt bar from Q4 2018 to Q4 2020]																											
1588	Prepare/submit Field Verification Report	28 days	Mon 9/15/14	Wed 10/22/14	Mon 9/15/14	Wed 10/22/14	[Gantt bar from Q4 2018 to Q4 2020]																											
1589	Survey of Archaeological/Historical Sites in Expanded Area at Park Moabi	1 day	Tue 12/2/14	Tue 12/2/14	Tue 12/2/14	Tue 12/2/14	[Gantt bar from Q4 2018 to Q4 2020]																											
1590	Survey of Biological Resources in Expanded Area at Park Moabi	3 days	Wed 11/19/14	Fri 11/21/14	Wed 11/19/14	Fri 11/21/14	[Gantt bar from Q4 2018 to Q4 2020]																											
1591	Annual archeological monitoring and site condition assessments	7 days	Thu 12/11/14	Fri 12/19/14	Thu 12/11/14	Fri 12/19/14	[Gantt bar from Q4 2018 to Q4 2020]																											
1592	Pre-Final/Final Design (include plan for decommissioning, removal, and restoration of IM3 facility)	423 days	Mon 4/7/14	Wed 11/18/15	Mon 4/7/14	Wed 11/18/15	[Gantt bar from Q4 2018 to Q4 2020]																											
1641	Construction/Remedial Action Work Plan	423 days	Mon 4/7/14	Wed 11/18/15	Mon 4/7/14	Wed 11/18/15	[Gantt bar from Q4 2018 to Q4 2020]																											
1651	State CEQA Evaluation	793 days	Mon 4/13/15	Tue 4/24/18	Mon 4/13/15	Tue 4/24/18	[Gantt bar from Q4 2018 to Q4 2020]																											
1679	Community Outreach	1710 days	Fri 10/7/11	Tue 4/24/18	Fri 10/7/11	Tue 4/24/18	[Gantt bar from Q4 2018 to Q4 2020]																											
1689	Project Contracting	2.9 mons	Wed 4/4/18	Wed 6/27/18	Wed 4/4/18	NA	[Gantt bar from Q4 2018 to Q4 2020]																											
1690	Construction (this is a preliminary construction schedule for planning purposes)	1839 days	Wed 6/27/18	Thu 7/10/25	Wed 6/27/18	NA	[Gantt bar from Q4 2018 to Q4 2020]																											

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Date: Fri 8/2/19

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Tasks Not Started/In Progress		Overall Task Duration		Manual Task		Start-only	
Tasks Finished		Inactive Task		Duration-only		Finish-only	
Baseline Schedule		Inactive Milestone		Manual Summary Rollup			
Milestone		Inactive Summary		Manual Summary			

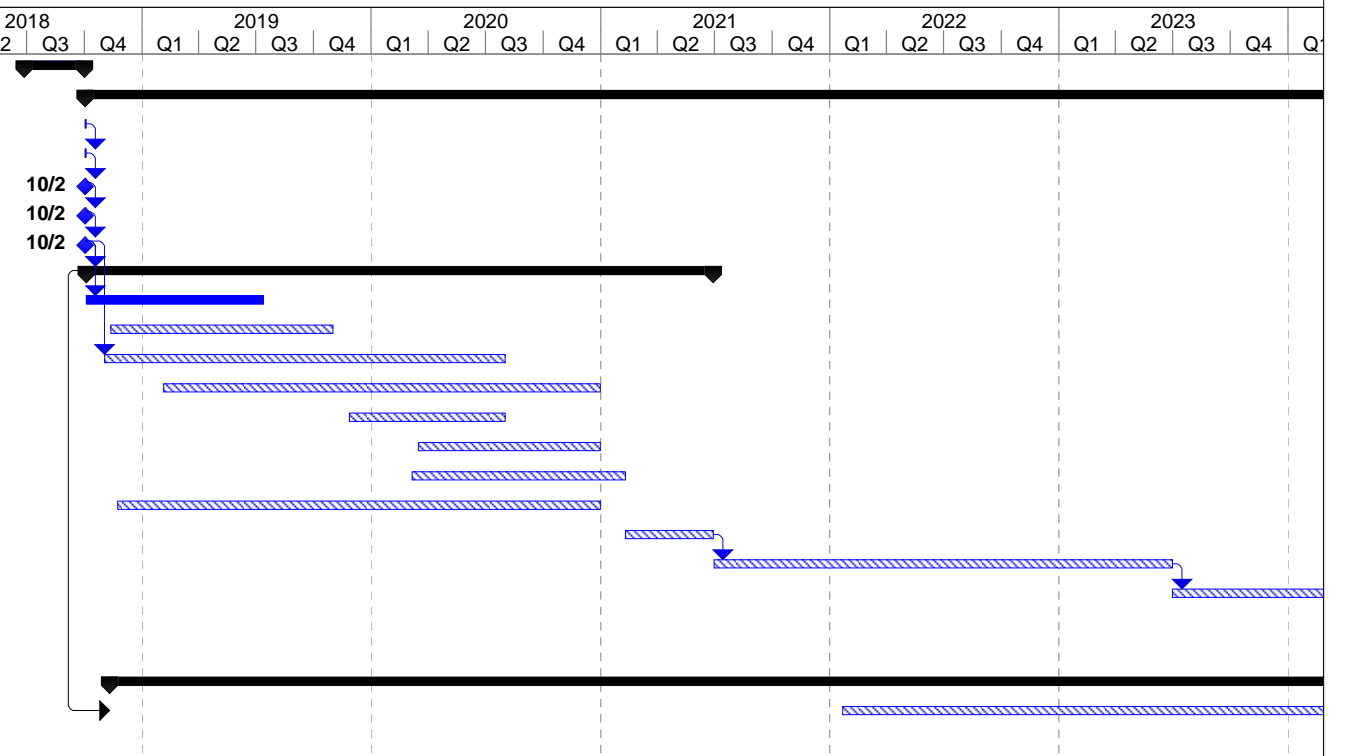
edays = calendar days; days = work days
Baseline Schedule is the 8/15/07 CWG Schedule (rev 1, 12/12/07).
*Timeframes shown are for planning purpose. Actual timeframes may vary.

Color Coding:
PG&E Federal Agencies CWG/TWG Public
DTSC Tribes/SHPO Other CA Agencies AZ Agencies

Major Assumptions
 - Permits, CWG/ stakeholder review, and DTSC review & approvals are estimated.
 - Actual dates may vary depending on field conditions.

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1691	Pre-Construction	68 days	Wed 6/27/18	Sun 9/30/18	Wed 6/27/18	Sun 9/30/18																								
1698	Construction and Start-up Activities	1763.8 days	Tue 10/2/18	Wed 7/2/25	Tue 10/2/18	NA																								
1699	Stakeholder Attending Construction Kick-Off Meeting at Site	1 day	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18																								
1700	Stakeholder Attending Construction Kick-Off Meeting at Site	1 day	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18																								
1701	Stakeholder Attending Construction Kick-Off Meeting at Site	0 days	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18																								
1702	Stakeholder Attending Construction Kick-Off Meeting at Site	0 days	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18																								
1703	Stakeholder Attending Construction Kick-Off Meeting at Site	0 days	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18	Tue 10/2/18																								
1704	Major Phase 1 Construction Activities	715 days	Thu 10/4/18	Mon 6/28/21	Thu 10/4/18	NA																								
1705	Build Construction Headquarters	9.67 mons	Thu 10/4/18	Fri 7/12/19	Thu 10/4/18	Fri 7/12/19																								
1706	Build Soil Processing Yard	12.14 mons	Mon 11/12/18	Thu 10/31/19	Mon 11/12/18	NA																								
1707	Install Pilot Borings, Monitoring Wells, and Remediation Wells	21.76 mons	Fri 11/2/18	Fri 7/31/20	Fri 11/2/18	NA																								
1708	Install Remedy Pipelines	23.71 mons	Mon 2/4/19	Wed 12/30/20	Mon 2/4/19	NA																								
1709	Install Remedy Facilities at MW-20 Bench	8.48 mons	Wed 11/27/19	Fri 7/31/20	NA	NA																								
1710	Install Remedy Facilities at TCS	9.9 mons	Mon 3/16/20	Wed 12/30/20	NA	NA																								
1711	Install Electrical and Control System	11.57 mons	Fri 3/6/20	Mon 2/8/21	NA	NA																								
1712	Site Stabilization/Revegetation	26.19 mons	Fri 11/23/18	Wed 12/30/20	NA	NA																								
1713	System Integration and Functional Testing	139.38 edays	Tue 2/9/21	Mon 6/28/21	NA	NA																								
1714	Shut down IM, Start-up, and Initial Operation of NTH IRZ	24.9 mons	Wed 6/30/21	Fri 6/30/23	NA	NA																								
1715	Phase 2 Construction	12.4 mons	Fri 6/30/23	Mon 7/1/24	NA	NA																								
1716	Commissioning and Start-up Phase 2 Components	12.5 mons	Mon 7/1/24	Wed 7/2/25	NA	NA																								
1717	Construction Close-out	12.5 mons	Mon 7/1/24	Wed 7/2/25	NA	NA																								
1718	Reporting	1741 days	Sat 11/10/18	Thu 7/10/25	Sat 11/10/18	NA																								
1719	Prepare/submit monthly construction progress reports	43.1 mons	Sat 11/10/18	Thu 7/10/25	Sat 11/10/18	NA																								
1720	Start Operation and Maintenance	0 days	Wed 7/2/25	Wed 7/2/25	NA	NA																								



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