

HANDOUT 9A

TOPOCK REMEDIATION PROJECT SCHEDULE

JULY 17, 2013 CWG MEETING (REV. 19)

ID	Task Name	Duration	Forecasted Start	Forecasted Finish	Actual Start	Actual Finish	2013												2014												2015											
							Qtr 3			Qtr 4			Qtr 1			Qtr 2			Qtr 3			Qtr 4			Qtr 1			Qtr 2			Qtr 3			Qtr 4								
							J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D						
1094	Soil/Groundwater Risk Assessment Workplan (RAWP)	1761.5 days	Mon 10/29/07	Wed 7/23/14	Mon 10/29/07	NA	[Gantt bar from 10/29/07 to 7/23/14]																																			
1095	RAWP	334 days	Mon 10/29/07	Thu 2/5/09	Mon 10/29/07	Thu 2/5/09	[Gantt bar from 10/29/07 to 2/5/09]																																			
1121	RAWP Addendum II	388.5 days	Fri 1/25/13	Wed 7/23/14	Fri 1/25/13	NA	[Gantt bar from 1/25/13 to 7/23/14]																																			
1122	PG&E submits Revised Arrowweed TM and RAWP Addendum II TM (Proposed Changes)	1 day	Fri 1/25/13	Fri 1/25/13	Fri 1/25/13	Fri 1/25/13	[Gantt bar from 1/25/13 to 1/25/13]																																			
1123	DTSC forward to CWG/TWG	2 days	Mon 1/28/13	Tue 1/29/13	Mon 1/28/13	Tue 1/29/13	[Gantt bar from 1/28/13 to 1/29/13]																																			
1124	Tribal review/comment	91.38 edays	Tue 1/29/13	Tue 4/30/13	Tue 1/29/13	Tue 4/30/13	[Gantt bar from 1/29/13 to 4/30/13]																																			
1125	CWG/TWG review on TMs	91.38 edays	Tue 1/29/13	Tue 4/30/13	Tue 1/29/13	Tue 4/30/13	[Gantt bar from 1/29/13 to 4/30/13]																																			
1126	DTSC review/comment on the TMs	91.38 edays	Tue 1/29/13	Tue 4/30/13	Tue 1/29/13	Tue 4/30/13	[Gantt bar from 1/29/13 to 4/30/13]																																			
1127	DOI review/comment on the TMs	91.38 edays	Tue 1/29/13	Tue 4/30/13	Tue 1/29/13	Tue 4/30/13	[Gantt bar from 1/29/13 to 4/30/13]																																			
1128	PG&E prepares/submits Response to Comments	31 days	Wed 5/1/13	Wed 6/12/13	Wed 5/1/13	Wed 6/12/13	[Gantt bar from 5/1/13 to 6/12/13]																																			
1129	DTSC sent RTCs to Tribes	1 day	Mon 6/24/13	Mon 6/24/13	Mon 6/24/13	Mon 6/24/13	[Gantt bar from 6/24/13 to 6/24/13]																																			
1130	Scoping Meetings for RAWP Addendum II (Dates to be confirmed)	2.2 mons	Tue 6/25/13	Wed 8/28/13	Tue 6/25/13	NA	[Gantt bar from 6/25/13 to 8/28/13]																																			
1131	Prepare/submit RAWP Addendum II	4.5 mons	Thu 8/29/13	Wed 1/8/14	NA	NA	[Gantt bar from 8/29/13 to 1/8/14]																																			
1132	CWG/TWG review	30 edays	Wed 1/8/14	Fri 2/7/14	NA	NA	[Gantt bar from 1/8/14 to 2/7/14]																																			
1133	DTSC review/comment	45 edays	Wed 1/8/14	Sat 2/22/14	NA	NA	[Gantt bar from 1/8/14 to 2/22/14]																																			
1134	DOI review/comment	45 edays	Wed 1/8/14	Sat 2/22/14	NA	NA	[Gantt bar from 1/8/14 to 2/22/14]																																			
1135	Prepare Response to Comments	1 mon	Mon 2/24/14	Mon 3/24/14	NA	NA	[Gantt bar from 2/24/14 to 3/24/14]																																			
1136	DTSC review/comment	45 edays	Mon 3/24/14	Thu 5/8/14	NA	NA	[Gantt bar from 3/24/14 to 5/8/14]																																			
1137	DOI review/comment	45 edays	Mon 3/24/14	Thu 5/8/14	NA	NA	[Gantt bar from 3/24/14 to 5/8/14]																																			
1138	CWG/TWG review/comment	30 edays	Mon 3/24/14	Wed 4/23/14	NA	NA	[Gantt bar from 3/24/14 to 4/23/14]																																			
1139	Tribal review/comment	30 edays	Mon 3/24/14	Wed 4/23/14	NA	NA	[Gantt bar from 3/24/14 to 4/23/14]																																			
1140	Meeting to discuss response to comments (approx. 2 wks after review by CWG/TWG/Trib)	0 days	Mon 4/7/14	Mon 4/7/14	NA	NA	[Gantt bar from 4/7/14 to 4/7/14]																																			
1141	Submit Final RAWP Addendum II	1.5 mons	Fri 5/9/14	Mon 6/23/14	NA	NA	[Gantt bar from 5/9/14 to 6/23/14]																																			
1142	DTSC review/approve	30 edays	Mon 6/23/14	Wed 7/23/14	NA	NA	[Gantt bar from 6/23/14 to 7/23/14]																																			
1143	DOI review/approve	30 edays	Mon 6/23/14	Wed 7/23/14	NA	NA	[Gantt bar from 6/23/14 to 7/23/14]																																			
1144	Groundwater Evaluation	330 days	Wed 9/10/08	Tue 12/15/09	Wed 9/10/08	Tue 12/15/09	[Gantt bar from 9/10/08 to 12/15/09]																																			
1161	Soil Evaluation	210 days	Wed 12/30/15	Tue 10/18/16	NA	NA	[Gantt bar from 12/30/15 to 10/18/16]																																			
1177	CMS/FS Report	2367 days	Mon 8/18/08	Wed 9/6/17	Mon 8/18/08	NA	[Gantt bar from 8/18/08 to 9/6/17]																																			
1255	STATEMENT OF BASIS	2115.6 days	Mon 1/4/10	Tue 2/6/18	Mon 1/4/10	NA	[Gantt bar from 1/4/10 to 2/6/18]																																			
1270	RECORD OF DECISION	2216 days	Fri 12/18/09	Mon 6/11/18	Fri 12/18/09	NA	[Gantt bar from 12/18/09 to 6/11/18]																																			
1293	Section 106 Programmatic Agreement (PA)	1561.5 days	Fri 10/10/08	Tue 9/30/14	Fri 10/10/08	NA	[Gantt bar from 10/10/08 to 9/30/14]																																			
1326	EIR DOCUMENTATION	3267 days	Thu 9/1/05	Sun 2/18/18	Thu 9/1/05	NA	[Gantt bar from 9/1/05 to 2/18/18]																																			
1412	DESIGN, PERMITTING, AND CONSTRUCTION OF GROUNDWATER REMEDY	1870.5 days	Mon 1/31/11	Fri 3/30/18	Mon 1/31/11	NA	[Gantt bar from 1/31/11 to 3/30/18]																																			
1413	Corrective Measure Implementation/Remedial Design (CMI/RD) Workplan	199 days	Mon 1/31/11	Thu 11/3/11	Mon 1/31/11	NA	[Gantt bar from 1/31/11 to 11/3/11]																																			
1427	Remedial Design (Preliminary, Intermediate, and Pre-Final/Final)	796.5 days	Tue 9/20/11	Tue 10/7/14	Tue 9/20/11	NA	[Gantt bar from 9/20/11 to 10/7/14]																																			
1428	Preliminary Design	174 days	Tue 9/20/11	Thu 5/17/12	Tue 9/20/11	Thu 5/17/12	[Gantt bar from 9/20/11 to 5/17/12]																																			
1440	Intermediate Design	413.5 days	Fri 5/18/12	Wed 12/18/13	Fri 5/18/12	NA	[Gantt bar from 5/18/12 to 12/18/13]																																			
1441	Prepare/submit Intermediate Design Package	11 mons	Fri 5/18/12	Fri 4/5/13	Fri 5/18/12	Fri 4/5/13	[Gantt bar from 5/18/12 to 4/5/13]																																			
1442	DTSC forward to CWG/TWG	1 day	Mon 4/8/13	Mon 4/8/13	Mon 4/8/13	Mon 4/8/13	[Gantt bar from 4/8/13 to 4/8/13]																																			
1443	CWG/TWG review/comment on Intermediate Design Package	122 edays	Mon 4/8/13	Thu 8/8/13	Mon 4/8/13	NA	[Gantt bar from 4/8/13 to 8/8/13]																																			
1444	Tribes Consultation	105 edays	Thu 4/25/13	Thu 8/8/13	Thu 4/25/13	NA	[Gantt bar from 4/25/13 to 8/8/13]																																			
1445	BLM process after close of comment period	15 edays	Thu 8/8/13	Fri 8/23/13	NA	NA	[Gantt bar from 8/8/13 to 8/23/13]																																			
1446	DTSC review/comment on Intermediate Design Package	137 edays	Mon 4/8/13	Fri 8/23/13	Mon 4/8/13	NA	[Gantt bar from 4/8/13 to 8/23/13]																																			
1447	DOI review/comment on Intermediate Design Package	137 edays	Mon 4/8/13	Fri 8/23/13	Mon 4/8/13	NA	[Gantt bar from 4/8/13 to 8/23/13]																																			
1448	Response to Comments (RTCs)/Comments Resolution	94.5 days	Thu 8/8/13	Wed 12/18/13	NA	NA	[Gantt bar from 8/8/13 to 12/18/13]																																			

Project: PG&E Topock Remediation Project
Date: Mon 7/15/13

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Tasks Not Started/In Progress [Blue hatched bar] Baseline Schedule [Blue solid bar] Overall Task Duration [Black arrow bar]

Tasks Finished [Red solid bar] Milestone [Blue diamond]

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.

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.

**HANDOUT 9A
TOPOCK REMEDIATION PROJECT SCHEDULE
JULY 17, 2013 CWG MEETING (REV. 19)**

ID	Task Name	Duration	Forecasted Start	Forecasted Finish	Actual Start	Actual Finish	13	2014												2015											
							Qtr 3				Qtr 4				Qtr 1				Qtr 2				Qtr 3				Qtr 4				
							J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J
1493	DTSC review/comment on Final Design Package	75 edays	Wed 5/21/14	Mon 8/4/14	NA	NA																									
1494	DOI review/comment on Final Design Package	75 edays	Wed 5/21/14	Mon 8/4/14	NA	NA																									
1495	Comments resolution	4 wks	Mon 8/4/14	Mon 9/1/14	NA	NA																									
1496	Prepare/submit Final Design Package (duration to be confirmed after receipt of comments)	1 mon	Mon 9/1/14	Tue 9/30/14	NA	NA																									
1497	DTSC approves design	5 days	Tue 9/30/14	Tue 10/7/14	NA	NA																									
1498	DOI approves design	5 days	Tue 9/30/14	Tue 10/7/14	NA	NA																									
1499	Construction/Remedial Action Work Plan	208 days	Thu 12/19/13	Tue 10/7/14	NA	NA																									
1500	Prepare/submit Draft Work Plan	5 mons	Thu 12/19/13	Thu 5/15/14	NA	NA																									
1501	DOI forward to DTSC/CWG/TWG	3 days	Thu 5/15/14	Tue 5/20/14	NA	NA																									
1502	CWG/TWG review/comment on Draft Work Plan	60 edays	Wed 5/21/14	Sun 7/20/14	NA	NA																									
1503	Tribal Consultation on Draft Work Plan	60 edays	Wed 5/21/14	Sun 7/20/14	NA	NA																									
1504	BLM process after close of comment period	15 edays	Sun 7/20/14	Mon 8/4/14	NA	NA																									
1505	DOI review/comment on Draft Work Plan	75 edays	Wed 5/21/14	Mon 8/4/14	NA	NA																									
1506	DTSC review/comment on Draft Work Plan	75 edays	Wed 5/21/14	Mon 8/4/14	NA	NA																									
1507	Comments resolution	4 wks	Mon 8/4/14	Mon 9/1/14	NA	NA																									
1508	Prepare/submit Final Work Plan (duration to be confirmed after receipt of comments)	1 mon	Mon 9/1/14	Tue 9/30/14	NA	NA																									
1509	DTSC approves Final Work Plan	5 days	Tue 9/30/14	Tue 10/7/14	NA	NA																									
1510	DOI approves Final Work Plan	5 days	Tue 9/30/14	Tue 10/7/14	NA	NA																									
1511	ROWS/Easements/Landowner Agreements/Approvals/Compliance	63 days	Mon 8/11/14	Thu 11/6/14	NA	NA																									
1512	Other Approvals and Compliance	3 mons	Mon 8/11/14	Thu 11/6/14	NA	NA																									
1513	Landowner Agreements/Leasing/ROW Agreements	3 mons	Mon 8/11/14	Thu 11/6/14	NA	NA																									
1514	Community Outreach	807.5 days	Fri 10/7/11	Mon 11/10/14	Fri 10/7/11	NA																									
1528	Construction (the duration shown below is preliminary and will be adjusted as the design progresses; a detailed construction/remedial action implementation schedule will be included in the Construction/Remedial Action Work Plan)	627.5 days	Tue 11/18/14	Thu 4/13/17	NA	NA																									
1529	Stakeholder Attending Kick-Off Meeting at Site	0 days	Tue 11/18/14	Tue 11/18/14	NA	NA																									
1530	Stakeholder Attending Kick-Off Meeting at Site	0 days	Tue 11/18/14	Tue 11/18/14	NA	NA																									
1531	Stakeholder Attending Kick-Off Meeting at Site	0 days	Tue 11/18/14	Tue 11/18/14	NA	NA																									
1532	Stakeholder Attending Kick-Off Meeting at Site	0 days	Tue 11/18/14	Tue 11/18/14	NA	NA																									
1533	Stakeholder Attending Kick-Off Meeting at Site	0 days	Tue 11/18/14	Tue 11/18/14	NA	NA																									
1534	Construction Activities	626.5 days	Wed 11/19/14	Thu 4/13/17	NA	NA																									
1535	Field Preparation (including new well survey)	100 days	Wed 11/19/14	Wed 4/8/15	NA	NA																									
1536	Well Installation/Development/Testing	398 days	Wed 3/4/15	Mon 9/12/16	NA	NA																									
1537	Pilot Boring Data Collection	140 days	Wed 3/4/15	Wed 9/16/15	NA	NA																									
1538	Refine Well Design and Installation Program	30 days	Wed 9/16/15	Wed 10/28/15	NA	NA																									
1539	Remediation Wells Installation/Development/Testing	228 days	Wed 10/28/15	Mon 9/12/16	NA	NA																									
1540	Monitoring Wells Installation/Development	94 days	Mon 1/11/16	Fri 5/20/16	NA	NA																									
1541	Install New Pipeline	403 days	Wed 2/25/15	Mon 9/12/16	NA	NA																									
1542	Carbon Amendment/Supporting Facilities	314 days	Wed 2/25/15	Tue 5/10/16	NA	NA																									
1543	Commissioning/Shakedown	398 days	Wed 4/8/15	Mon 10/17/16	NA	NA																									
1544	Reporting	594 days	Mon 1/5/15	Thu 4/13/17	NA	NA																									
1545	Prepare/submit monthly construction progress reports	24 mons	Mon 1/5/15	Thu 12/8/16	NA	NA																									
1546	Prepare/submit Construction Completion Report	60 days	Fri 12/9/16	Thu 3/2/17	NA	NA																									
1547	DOI review and approval of Construction Completion Report	30 days	Fri 3/3/17	Thu 4/13/17	NA	NA																									
1548	DTSC review and approval of Construction Completion Report	30 days	Fri 3/3/17	Thu 4/13/17	NA	NA																									

Project: PG&E Topock Remediation Project
Date: Mon 7/15/13

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Tasks Not Started/In Progress
Tasks Finished

Baseline Schedule
Milestone ◆

Overall Task Duration

edays = calendar days; days = work days
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*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

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