

# TOPOCK REMEDIATION PROJECT SCHEDULE

## APRIL 18, 2012 CWG MEETING (REV.15)

ID	Task Name	Duration	Forecasted Start	Forecasted Finish	Actual Start	Actual Finish	2012				2013				2014						
							tr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4				
							M	J	J	A	S	O	N	D	J	F	M	A	M	J	J
1	IM Installation (Note that IM3 is currently in operation and will remain in operation until directed otherwise by agencies)	512 days	Thu 1/22/04	Tue 12/20/05	Thu 1/22/04	Tue 12/20/05															
32	IM3 Cultural Resources Management Plan (IM3 CRMP)	986 days	Thu 7/1/04	Mon 3/10/08	Thu 7/1/04	Mon 3/10/08															
37	Extraction Well PE-1/Facilities	230 days	Mon 3/21/05	Fri 1/27/06	Mon 3/21/05	Fri 1/27/06															
47	Supplemental Extraction Well and Facilities	127 days	Fri 7/29/05	Thu 1/19/06	Fri 7/29/05	Thu 1/19/06															
55	Decommissioning of IM2 Batch Treatment	1182 days	Fri 8/5/05	Fri 1/29/10	Fri 8/5/05	Fri 1/29/10															
66	Interim Measures and Treated Water Management	751 days	Mon 5/3/04	Fri 2/16/07	Mon 5/3/04	Fri 2/16/07															
210	Public Participation Plan	578 days	Mon 12/20/04	Fri 2/9/07	Mon 12/20/04	Fri 2/9/07															
219	Baseline Resources Assessments	897 days	Mon 11/1/04	Mon 3/10/08	Mon 11/1/04	Mon 3/10/08															
233	Sitewide CEQA Documentation	586 days	Wed 5/17/06	Fri 8/1/08	Wed 5/17/06	Fri 8/1/08															
237	Programmatic Biological Assessment (PBA)	1659.35 days	Tue 12/19/06	Tue 4/16/13	Tue 12/19/06	NA	[Gantt bar from 12/19/06 to 4/16/13]														
253	REMEDIAL FACILITY INVESTIGATION/REMEDIAL INVESTIGATION (RFI/RI)	4820 days	Sat 2/24/96	Tue 7/8/14	Sat 2/24/96	NA	[Gantt bar from 2/24/96 to 7/8/14]														
254	Historical RFI/RI Reports (Feb. 2005 and Prior Versions)	2455 days	Sat 2/24/96	Fri 7/8/05	Sat 2/24/96	Fri 7/8/05															
272	Prepare Site History Report (Vol 1)	466 days	Tue 11/15/05	Wed 8/15/07	Tue 11/15/05	Wed 8/15/07															
287	Prepare RFI/RI Vol 1 Addendum	1271 days	Wed 7/11/07	Wed 5/16/12	Wed 7/11/07	NA	[Gantt bar from 7/11/07 to 5/16/12]														
311	Prepare Final Groundwater RFI/RI (Vol 2)	1888 days	Mon 6/27/05	Fri 8/24/12	Mon 6/27/05	NA	[Gantt bar from 6/27/05 to 8/24/12]														
312	Response to comments on Feb. 2005 RFI/RI Report	258 days	Tue 10/3/06	Wed 9/19/07	Tue 10/3/06	Wed 9/19/07															
319	Floodplain Data Gap Investigation	93 days	Fri 1/6/06	Fri 5/12/06	Fri 1/6/06	Fri 5/12/06															
322	Pore Water and Seepage Study	151 days	Mon 6/27/05	Tue 1/17/06	Mon 6/27/05	Tue 1/17/06															
335	Additional Plume Characterization Investigation	1551 days	Fri 9/29/06	Fri 8/24/12	Fri 9/29/06	NA	[Gantt bar from 9/29/06 to 8/24/12]														
336	CA Slant Drilling	305 days	Fri 9/29/06	Wed 11/21/07	Fri 9/29/06	Wed 11/21/07															
384	AZ Groundwater Investigation	657 days	Fri 12/1/06	Fri 5/29/09	Fri 12/1/06	NA	[Gantt bar from 12/1/06 to 5/29/09]														
454	Additional Investigation	1536 days	Fri 10/20/06	Fri 8/24/12	Fri 10/20/06	NA	[Gantt bar from 10/20/06 to 8/24/12]														
455	PGE-7/PGE-8 Hydraulic Test and PGE-6 Decommissioning	393 days	Fri 10/20/06	Mon 4/14/08	Fri 10/20/06	Mon 4/14/08															
518	East Ravine Groundwater Investigation	516 days	Mon 10/29/07	Mon 10/19/09	Mon 10/29/07	Mon 10/19/09															
556	East Ravine Groundwater Investigation Phase 2/TCS wells	264 days	Thu 2/25/10	Thu 2/24/11	Thu 2/25/10	Thu 2/24/11															
574	Field Implementation/Reporting	380 days	Tue 3/15/11	Fri 8/24/12	Tue 3/15/11	NA	[Gantt bar from 3/15/11 to 8/24/12]														
575	Stakeholder Attending Kick-Off Meeting at Site	1 day	Tue 3/15/11	Tue 3/15/11	Tue 3/15/11	Tue 3/15/11															
576	Stakeholder Attending Kick-Off Meeting at Site	1 day	Tue 3/15/11	Tue 3/15/11	Tue 3/15/11	Tue 3/15/11															
577	Stakeholder Attending Kick-Off Meeting at Site	1 day	Tue 3/15/11	Tue 3/15/11	Tue 3/15/11	Tue 3/15/11															
578	Stakeholder Attending Kick-Off Meeting at Site	1 day	Tue 3/15/11	Tue 3/15/11	Tue 3/15/11	Tue 3/15/11															
579	Stakeholder Attending Kick-Off Meeting at Site	1 day	Tue 3/15/11	Tue 3/15/11	Tue 3/15/11	Tue 3/15/11															
580	Field Implementation/Screen and Data Calls/Reporting (Summary Report target for inclusion in 60% design)	75.8 wks	Wed 3/16/11	Fri 8/24/12	Wed 3/16/11	NA	[Gantt bar from 3/16/11 to 8/24/12]														
581	Prepare and Submit Final GW RFI/RI	387 days	Mon 8/20/07	Mon 2/9/09	Mon 8/20/07	Mon 2/9/09															
602	Prepare and Submit GW RFI/RI Addendum	229 days	Wed 8/13/08	Mon 6/29/09	Wed 8/13/08	Mon 6/29/09															
626	Prepare Final Soil RFI/RI (Vol 3)	2093 days	Sat 7/15/06	Tue 7/8/14	Sat 7/15/06	NA	[Gantt bar from 7/15/06 to 7/8/14]														
627	Implementation of Off-site Soil Sampling (Part A Phase 1) and Data Gaps Evaluation	1215 days	Sat 7/15/06	Fri 2/25/11	Sat 7/15/06	Fri 2/25/11															
776	Draft On-site Soil Sampling (Part B) DQOs	1122 days	Wed 12/6/06	Fri 3/11/11	Wed 12/6/06	NA	[Gantt bar from 12/6/06 to 3/11/11]														
831	Soil RFI/RI Work Plan	438.5 days	Tue 1/4/11	Thu 9/6/12	Tue 1/4/11	NA	[Gantt bar from 1/4/11 to 9/6/12]														
832	Receive DTSC's direction to combine Soil Part A and Part B into one Work Plan	1 day	Tue 1/4/11	Tue 1/4/11	Tue 1/4/11	Tue 1/4/11															
833	Receive additional directions from agencies on Part A data gaps evaluation	1 day	Fri 2/25/11	Fri 2/25/11	Fri 2/25/11	Fri 2/25/11															
834	Prepare/submit Soil Work Plan (assumes no pre-meeting with agencies/Tribes)	50 days	Mon 2/28/11	Fri 5/6/11	Mon 2/28/11	Fri 5/6/11															
835	DTSC forward to CWG/TWG	2 days	Mon 5/9/11	Tue 5/10/11	Mon 5/9/11	Tue 5/10/11															
836	DTSC review/comment on Soil Work Plan	101.38 edays	Tue 5/10/11	Fri 8/19/11	Tue 5/10/11	Fri 8/19/11															
837	DOI review/comment on Soil Work Plan	98.38 edays	Tue 5/10/11	Tue 8/16/11	Tue 5/10/11	Tue 8/16/11															
838	CWG/TWG review/comment on Soil Work Plan	83.38 edays	Tue 5/10/11	Mon 8/1/11	Tue 5/10/11	Mon 8/1/11															
839	Tribal Consultation	66.38 edays	Fri 5/27/11	Mon 8/1/11	Fri 5/27/11	Mon 8/1/11															

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 Date: Thu 4/12/12  
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Tasks Not Started/In Progress Baseline Schedule Overall Task Duration   
 Tasks Finished Milestone

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

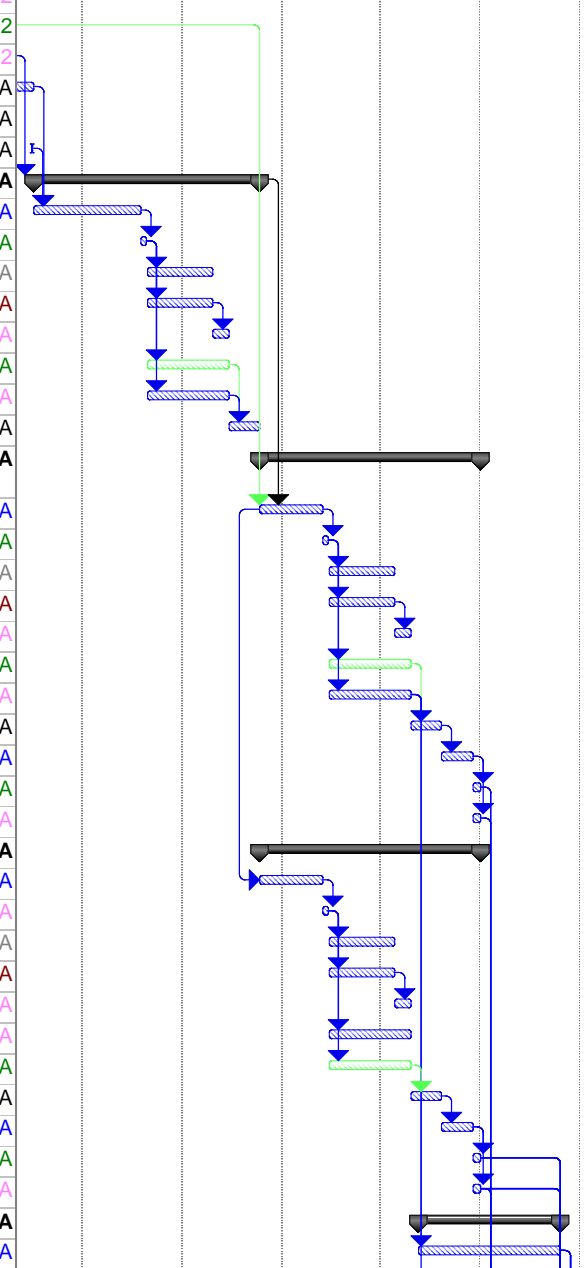
Major Assumptions  
 - Permits, CWG/ stakeholder review, and DTSC review & approvals are estimated.  
 - Actual dates may vary depending on field conditions.



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							tr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4					
							M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
1382	Prepare/submit Prelim Design Package	2.1 mons	Tue 9/20/11	Fri 11/18/11	Tue 9/20/11	Fri 11/18/11																
1383	DTSC forward to CWG/TWG	2 days	Fri 11/18/11	Mon 11/21/11	Fri 11/18/11	Mon 11/21/11																
1384	Site visits to view Hinkley IRZ/walk pipeline alignment at Topock	2 days	Tue 12/13/11	Wed 12/14/11	Tue 12/13/11	Wed 12/14/11																
1385	CWG/TWG review/comment on Prelim Design Package	80.38 edays	Tue 11/22/11	Fri 2/10/12	Tue 11/22/11	Fri 2/10/12																
1386	Tribes consultation	66.38 edays	Tue 11/22/11	Fri 1/27/12	Tue 11/22/11	Fri 1/27/12																
1387	BLM process after close of comment period	12.38 edays	Fri 1/27/12	Wed 2/8/12	Fri 1/27/12	Wed 2/8/12																
1388	DTSC review/comment on Prelim Design Package	87.38 edays	Tue 11/22/11	Fri 2/17/12	Tue 11/22/11	Fri 2/17/12																
1389	DOI review/comment on Prelim Design Package	78.38 edays	Tue 11/22/11	Wed 2/8/12	Tue 11/22/11	Wed 2/8/12																
1390	Comments resolution	12.8 wks	Mon 2/20/12	Thu 5/17/12	Mon 2/20/12	NA																
1391	TWG meeting to discuss response to comments (1st meeting)	1 day	Thu 4/19/12	Thu 4/19/12	NA	NA																
1392	TWG meeting to discuss response to comments (2nd meeting)	1 day	Wed 5/16/12	Thu 5/16/12	NA	NA																
1393	<b>Intermediate Design</b>	<b>147.35 days</b>	<b>Fri 5/18/12</b>	<b>Tue 12/11/12</b>	<b>NA</b>	<b>NA</b>																
1394	Prepare/submit Intermediate Design Package	3.35 mons	Fri 5/18/12	Fri 8/24/12	NA	NA																
1395	DTSC forward to CWG/TWG	3 days	Fri 8/24/12	Wed 8/29/12	NA	NA																
1396	CWG/TWG review/comment on Intermediate Design Package	60 edays	Thu 8/30/12	Mon 10/29/12	NA	NA																
1397	Tribes Consultation	60 edays	Thu 8/30/12	Mon 10/29/12	NA	NA																
1398	BLM process after close of comment period	15 edays	Mon 10/29/12	Tue 11/13/12	NA	NA																
1399	DTSC review/comment on Intermediate Design Package	75 edays	Thu 8/30/12	Tue 11/13/12	NA	NA																
1400	DOI review/comment on Intermediate Design Package	75 edays	Thu 8/30/12	Tue 11/13/12	NA	NA																
1401	Comments resolution	4 wks	Tue 11/13/12	Tue 12/11/12	NA	NA																
1402	<b>Pre-Final/Final Design (include plan for decommissioning, removal, and restoration of IM3 facility)</b>	<b>145 days</b>	<b>Tue 12/11/12</b>	<b>Tue 7/2/13</b>	<b>NA</b>	<b>NA</b>																
1403	Prepare/submit Pre-Final Design Package (duration to be confirmed after receipt of comments)	2 mons	Tue 12/11/12	Thu 2/7/13	NA	NA																
1404	DTSC forward to CWG/TWG	3 days	Thu 2/7/13	Tue 2/12/13	NA	NA																
1405	CWG/TWG review/comment on Final Design Package	60 edays	Wed 2/13/13	Sun 4/14/13	NA	NA																
1406	Tribal Consultation	60 edays	Wed 2/13/13	Sun 4/14/13	NA	NA																
1407	BLM process after close of comment period	15 edays	Sun 4/14/13	Mon 4/29/13	NA	NA																
1408	DTSC review/comment on Final Design Package	75 edays	Wed 2/13/13	Mon 4/29/13	NA	NA																
1409	DOI review/comment on Final Design Package	75 edays	Wed 2/13/13	Mon 4/29/13	NA	NA																
1410	Comments resolution	4 wks	Mon 4/29/13	Mon 5/27/13	NA	NA																
1411	Prepare/submit Final Design Package (duration to be confirmed after receipt of comments)	1 mon	Mon 5/27/13	Tue 6/25/13	NA	NA																
1412	DTSC approves design	5 days	Tue 6/25/13	Tue 7/2/13	NA	NA																
1413	DOI approves design	5 days	Tue 6/25/13	Tue 7/2/13	NA	NA																
1414	<b>Construction/Remedial Action Work Plan</b>	<b>145 days</b>	<b>Tue 12/11/12</b>	<b>Tue 7/2/13</b>	<b>NA</b>	<b>NA</b>																
1415	Prepare/submit Draft Work Plan	2 mons	Tue 12/11/12	Thu 2/7/13	NA	NA																
1416	DOI forward to DTSC/CWG/TWG	3 days	Thu 2/7/13	Tue 2/12/13	NA	NA																
1417	CWG/TWG review/comment on Draft Work Plan	60 edays	Wed 2/13/13	Sun 4/14/13	NA	NA																
1418	Tribal Consultation on Draft Work Plan	60 edays	Wed 2/13/13	Sun 4/14/13	NA	NA																
1419	BLM process after close of comment period	15 edays	Sun 4/14/13	Mon 4/29/13	NA	NA																
1420	DOI review/comment on Draft Work Plan	75 edays	Wed 2/13/13	Mon 4/29/13	NA	NA																
1421	DTSC review/comment on Draft Work Plan	75 edays	Wed 2/13/13	Mon 4/29/13	NA	NA																
1422	Comments resolution	4 wks	Mon 4/29/13	Mon 5/27/13	NA	NA																
1423	Prepare/submit Final Work Plan (duration to be confirmed after receipt of comments)	1 mon	Mon 5/27/13	Tue 6/25/13	NA	NA																
1424	DTSC approves Final Work Plan	5 days	Tue 6/25/13	Tue 7/2/13	NA	NA																
1425	DOI approves Final Work Plan	5 days	Tue 6/25/13	Tue 7/2/13	NA	NA																
1426	<b>ROWS/Easements/Landowner Agreements/Approvals/Compliance</b>	<b>94.5 days</b>	<b>Mon 5/6/13</b>	<b>Fri 9/13/13</b>	<b>NA</b>	<b>NA</b>																
1427	Other Approvals and Compliance	4.5 mons	Mon 5/6/13	Fri 9/13/13	NA	NA																



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Tasks Not Started/In Progress Baseline Schedule Overall Task Duration

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							tr 2		Qtr 3		Qtr 4		Qtr 1		Qtr 2		Qtr 3		Qtr 4		Qtr 1		Qtr 2		Qtr 3		Qtr 4							
							M	J	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
1428	Landowner Agreements/Leasing/ROW Agreements	4.5 mons	Mon 5/6/13	Fri 9/13/13	NA	NA																												
1429	<b>Community Outreach</b>	<b>477.35 days</b>	<b>Fri 10/7/11</b>	<b>Mon 8/5/13</b>	<b>Fri 10/7/11</b>	<b>NA</b>																												
1430	Prepare/Issue Project Update Factsheet	4 mons	Fri 10/7/11	Tue 1/31/12	Fri 10/7/11	Tue 1/31/12																												
1431	<b>Prepare/Issue Outreach Plan</b>	<b>476.35 days</b>	<b>Fri 10/7/11</b>	<b>Fri 8/2/13</b>	<b>Fri 10/7/11</b>	<b>NA</b>																												
1432	Update mailing list	2.95 mons	Fri 10/7/11	Fri 12/30/11	Fri 10/7/11	Fri 12/30/11																												
1433	Conduct Community Survey	1.62 mons	Tue 1/31/12	Fri 3/16/12	Tue 1/31/12	Fri 3/16/12																												
1434	Conduct Community Interview	1 day	Wed 4/25/12	Wed 4/25/12	NA	NA																												
1435	Prepare/Issue Outreach Plan	6.65 mons	Mon 3/19/12	Fri 9/28/12	Mon 3/19/12	NA																												
1436	Prepare/Issue factsheet for Corrective Measures Implementation	30 edays	Wed 7/3/13	Fri 8/2/13	NA	NA																												
1437	<b>Outreach/Public Participation</b>	<b>23 days</b>	<b>Wed 7/3/13</b>	<b>Mon 8/5/13</b>	<b>NA</b>	<b>NA</b>																												
1438	Prepare/issue factsheet for Remedy Implementation	30 edays	Wed 7/3/13	Fri 8/2/13	NA	NA																												
1439	Open house	1 day	Fri 8/2/13	Mon 8/5/13	NA	NA																												
1440	<b>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)</b>	<b>471 days</b>	<b>Fri 9/13/13</b>	<b>Mon 7/6/15</b>	<b>NA</b>	<b>NA</b>																												
1441	Stakeholder Attending Kick-Off Meeting at Site	1 day	Fri 9/13/13	Mon 9/16/13	NA	NA																												
1442	Stakeholder Attending Kick-Off Meeting at Site	1 day	Fri 9/13/13	Mon 9/16/13	NA	NA																												
1443	Stakeholder Attending Kick-Off Meeting at Site	1 day	Fri 9/13/13	Mon 9/16/13	NA	NA																												
1444	Stakeholder Attending Kick-Off Meeting at Site	1 day	Fri 9/13/13	Mon 9/16/13	NA	NA																												
1445	Stakeholder Attending Kick-Off Meeting at Site	1 day	Fri 9/13/13	Mon 9/16/13	NA	NA																												
1446	Construction	18 mons	Mon 9/16/13	Thu 2/26/15	NA	NA																												
1447	Prepare/submit monthly construction progress reports	16 mons	Fri 11/15/13	Mon 3/2/15	NA	NA																												
1448	Prepare/submit Construction Completion Report	60 days	Mon 3/2/15	Mon 5/25/15	NA	NA																												
1449	DOI review and approval of Construction Completion Report	30 days	Mon 5/25/15	Mon 7/6/15	NA	NA																												
1450	DTSC review and approval of Construction Completion Report	30 days	Mon 5/25/15	Mon 7/6/15	NA	NA																												
1451	<b>Startup (the sequence/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)</b>	<b>379 days</b>	<b>Thu 2/26/15</b>	<b>Wed 8/10/16</b>	<b>NA</b>	<b>NA</b>																												
1452	Shutdown IM extraction/treatment/injection	1 day	Thu 2/26/15	Fri 2/27/15	NA	NA																												
1453	Inject carbon/build NTH IRZ (6-12mons)	12 mons	Fri 2/27/15	Tue 2/16/16	NA	NA																												
1454	Inject freshwater(3-6mons)	6 mons	Mon 8/24/15	Tue 2/16/16	NA	NA																												
1455	Activate Inner recirculation loop (3-6mons)	6 mons	Thu 11/19/15	Fri 5/13/16	NA	NA																												
1456	Activate TCS recirculation loop (3-6mons)	6 mons	Thu 11/19/15	Fri 5/13/16	NA	NA																												
1457	Prepare/submit quarterly progress reports	15 mons	Wed 5/27/15	Wed 8/10/16	NA	NA																												
1458	Startup complete/start full remedy operations	0 days	Fri 5/13/16	Fri 5/13/16	NA	NA																												