

Handout 5B
Schedule Highlights
Summary of Key Schedule Changes

Consultative Work Group Meeting
January 16, 2013

Schedule Highlights

Groundwater Remedy Design

- Continue to discuss with the State Board on the use of HNWR-1 water without arsenic treatment
- Intermediate (60%) Design
 - ✓ PG&E submits intermediate design (including draft O&M Manual) – 4/5/13
 - ✓ Site visits to facilitate review – April/May
 - ✓ Stakeholders review – 4/11 to 6/10/13
 - ✓ Tribal consultation - 4/11 to 6/10/13
 - ✓ Agencies provide comments/direction to PG&E – 6/25/13
 - ✓ Comments resolution – 6/13 through 10/1/13

Groundwater Remedy Design

- **Alternative Fresh Water Source Implementation Plan**
 - ✓ PG&E submitted to agencies – 11/20/12
 - ✓ Tribal Consultation – 11/21/12 to 1/9/13
 - ✓ **Review/Comment**
 - CWG/TWG – 11/21 to 12/17/12
 - DTSC review/comment – 11/21 to 12/21/12
 - DOI review/comment – 11/21/12 to 1/9/13
 - ✓ **Response to Comments (RTCs)/Comment Resolution**
 - Agencies/PG&E resolve comments – 1/3 to 1/11/13
 - Agencies review RTCs – 1/15/13
 - PG&E submits Revised Implementation Plan including RTCs – 1/28/13
 - Meeting to discuss RTCs – Target 1/30/13
 - Completion of Comment Resolution – anticipated 2/1/13
 - ✓ **Groundwater EIR Addendum** – 11/16/12 to 2/11/13
 - ✓ **DTSC/DOI approve Implementation Plan** – anticipated 2/11/13

Groundwater Remedy Design

- Implementation of Alternative Fresh Water Source Evaluation
 - ✓ Project Initiation Meeting - 2/26/13
 - ✓ Field Implementation – 2/26 through 6/7/13
- Addendum to Intermediate (60%) Design
 - ✓ PG&E submits addendum to the intermediate design – 7/22/13
 - ✓ Stakeholders review – 7/25 to 8/24/13
 - ✓ Tribal consultation - 7/25 to 8/24/13
 - ✓ Agencies provide comments/direction to PG&E – 9/9/13
 - ✓ Comments resolution – 9/9 through 10/29/13
 - Meeting to discuss RTCs – Target 10/21/13 (approximate)

Soil Activities

- Soil RFI/RI work plan
 - ✓ PG&E submitted revised work plan to Agencies – 9/17/12
 - ✓ DTSC provided comments – 10/19/12
 - ✓ PG&E submits final work plan – 1/14/13
 - ✓ Soil EIR/CEQA evaluation – 11/12/12 to 9/13/13
 - See Handout 9A for details
 - ✓ Agencies approve Soil Work Plan – anticipated 9/13/13
- Work Plan Implementation
 - ✓ Project Initiation Meeting – 12/9/13
 - ✓ Field Implementation/Data Analysis – Dec 2013 through Sept 2014
- Reporting
 - ✓ RFI/RI Volume 3 - Target start September 2014
 - ✓ Soil Risk Assessment – Target start August 2015

Risk Assessment Work Plan (RAWP) Addendum II

- Submit Revised Arrow weed TM and RAWP Addendum II
TM: 1/25/13
 - ✓ CWG/TWG/Agencies review TMs: 1/30 – 3/1/13
 - ✓ Meetings to finalize scope for RAWP Addendum II: 3/5 – 4/16/13
- Submit Draft RAWP Addendum II: 8/30/13
 - ✓ CWG/TWG/Tribes review: 8/30 – 9/29/13
 - ✓ Agencies review: 8/30 – 10/14/13
- Submit Response to Comments (RTCs): 11/12/13
 - ✓ CWG/TWG/Tribes review: 11/12 – 12/12/13
 - ✓ Agencies review: 11/12 – 12/27/13
 - ✓ Meeting to discuss RTCs – 11/26/13 (approx. 2 weeks after receipt of RTCs submittal)

Risk Assessment Work Plan (RAWP) Addendum II (Continued)

- Submit Final RAWP Addendum II: 2/10/14
 - ✓ Agencies approval – anticipated 3/12/14

Summary of Key Schedule Changes

Handout 5B

Summary of Key Schedule Changes since August 15, 2007 (Rev. 17)

January 16, 2013 changes highlighted in Yellow – changes are from October 17, 2012

Activities	Forecast Schedule Deviation	Key Reasons
Groundwater		
East Ravine Groundwater Investigation Phase 2/ Compressor Station Wells Field Implementation (Lines 551-575)	<ul style="list-style-type: none"> • FF 12/2/2011 (Rev. 9) • FF 1/27/2012 (Rev. 10) • FF 10/31/2011 (Rev. 11) • FF 12/12/2011 (Rev. 12) • FF 1/30/2012 (Rev. 13) • FF 5/23/2012 (Rev. 14) • FF 8/24/2012 (Rev. 15) • FF 11/16/2012 (Rev. 16) • AF 11/16/2012 (Rev. 17) 	<ul style="list-style-type: none"> • Duration of field work will be verified after receipt of work plan approval. • Adjusted schedule to reflect installation of contingency sites I and J. • Adjusted schedule to reflect the Addendum to the East Ravine-TCS Summary Report will be included in the 60% Basis of Design Report. • Adjusted schedule to reflect the Addendum to the East Ravine-TCS Summary Report will be submitted ahead of the Intermediate (60%) Design.
Intermediate (60%) Design (through Comment Resolution) (Lines 1438-1452)	<ul style="list-style-type: none"> • FF 3/30/2011 (Rev. 11) • FF 4/9/2011 (Rev. 12) • FF 6/14/2012 (Rev. 13) • FF 8/9/2012 (Rev. 14) • FF 12/11/12 (Rev. 15) • FF 06/28/2013 (Rev. 16) • FF 10/1/2013 (Rev. 17) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Additional time to incorporate comments and prepare 60% Design. • Extend duration for CWG/TWG review from 30 to 60 calendar days. • Extend duration for Tribal Consultation from 30 to 60 calendar days. • Extend duration of DTSC/DOI review from 45 to 75 calendar days. • Adjusted schedule to allow for additional time to evaluate freshwater options that do not require arsenic treatment. • Schedule reflected DTSC's directive in the 12/31/2012 letter. • Updated the RTC process per the 10/16/12 meeting.
NEW - Addendum to Intermediate (60%) Design (through Comment Resolution) (Lines 1453-1499)	<ul style="list-style-type: none"> • FF 10/29/2013 (Rev. 17) 	<ul style="list-style-type: none"> • Schedule reflected DTSC's directive in the 12/31/2012 letter • Schedule reflected implementation of the Alternative Freshwater Source Evaluation Plan, including the Groundwater EIR Addendum.
Pre-Final (90%)/Final (100%) Design (through Approvals) (Lines 1500-1511)	<ul style="list-style-type: none"> • FF 9/24/2012 (Rev. 11) • FF 10/2/2012 (Rev. 12) • FF 11/30/2012 (Rev. 13) • FF 1/29/2013 (Rev. 14) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Extend duration for CWG/TWG review from 30 to 60 calendar days. • Extend duration for Tribal Consultation from 30 to 60 calendar days. • Extend duration of DTSC/DOI review from 45 to 75 calendar days.

	<ul style="list-style-type: none"> • FF 7/2/2013 (Rev. 15) • FF 1/20/2014 (Rev. 16) • FF 5/22/2014 (Rev. 17) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Intermediate (60%) Design.
<p>Construction/Remedial Action Work Plan (through Approvals)</p> <p>(Lines 1512-1523)</p>	<ul style="list-style-type: none"> • FF 9/24/2012 (Rev. 11) • FF 10/2/2012 (Rev. 12) • FF 11/30/2012 (Rev. 13) • FF 1/29/2013 (Rev. 14) • FF 7/2/2013 (Rev. 15) • FF 1/20/2014 (Rev. 16) • FF 5/22/2014 (Rev. 17) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Extend duration for CWG/TWG review from 30 to 60 calendar days. • Extend duration for Tribal Consultation from 30 to 60 calendar days. • Extend duration of DTSC/DOI review from 45 to 75 calendar days. • Cascading extension of schedule from Intermediate (60%) Design.
<p>Right of Ways/ Easements/Landowner Agreements/Other Approvals/Compliance/Community Outreach</p> <p>(Lines 1524-1540)</p>	<ul style="list-style-type: none"> • FF 12/28/2012 (Rev. 11) • FF 1/7/2013 (Rev. 12) • FF 2/27/2013 (Rev. 13) • FF 4/15/2013 (Rev. 14) • FF 9/13/2013 (Rev. 15) • FF 2/21/2014 (Rev. 16) • FF 6/23/2014 (Rev. 17) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Cascading extension of schedule from Intermediate (60%) Design. • Added details on community outreach activities – State/Federal.
<p>Construction</p> <p>(Lines 1541-1547)</p>	<p>FF for completion of construction</p> <ul style="list-style-type: none"> • 6/18/2014 (Rev. 11) • 6/26/2014 (Rev. 12) • 8/18/2014 (Rev. 13) • 9/29/2014 (Rev. 14) • 2/26/2015 (Rev. 15) • 9/17/2015 (Rev. 16) • 12/4/2015 (Rev. 17) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Cascading extension of schedule from Intermediate (60%) Design.
<p>Start-up</p> <p>(Lines 1552-1559)</p>	<p>FF for completion of startup</p> <ul style="list-style-type: none"> • 12/14/2015 (Rev. 14) • 5/13/2016 (Rev. 15) • 12/2/2016 (Rev. 16) • 2/20/2017 (Rev. 17) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Intermediate (60%) Design.
<p>Soil</p>		
<p>Soil RFI/RI Work Plan (Draft, Final, and Work Plan Approvals including NEW Soil EIR)</p> <p>(Lines 826-885)</p>	<ul style="list-style-type: none"> • Extend FF by 1.5 mos. • Extend FF by 2 weeks • Submitted RTCs on 5/5/08 • Submitted letter on Part B phasing on 7/17/08. In agencies review (Rev. 4) 	<ul style="list-style-type: none"> • 1 month due to DQO discussion and past data evaluation. • 0.5 month due to incorporation of perimeter sampling walk/verification. • Additional time for agency review of Part B Work Plan. • DTSC completed review of Part B Phase 1 proposal (7/2/09), issued request letter to PG&E. • PG&E responded to DTSC's 7/2/09 letter (8/14/09).

	<ul style="list-style-type: none"> Submitted details on approach to Part B Phase 1 on 9/30/08. In agencies review (Rev. 5). Part B is on hold until agencies complete this review (Rev. 6) Extend FF to 12/1/2011 (Rev. 7) Reduce FF to 1/19/2011 (Rev. 8) Extend FF to 5/25/2011 (Rev. 9) Extend FF to 7/28/2011 (Rev. 10) FF 8/31/2011 (Rev. 11) FF 12/6/2011 (Rev. 12) FF 3/1/2012 (Rev. 13) FF 5/11/2012 (Rev. 14) FF 9/6/2012 (Rev. 15) FF 10/31/2012 (Rev. 16) FF 9/13/2013 (Rev. 17) 	<ul style="list-style-type: none"> PG&E received DTSC's final direction on Part B (10/5/09), to resume Part B activities in February 2010. Added time for agency review and direct on conflicting comments on Draft Part B Work Plan. Adjusted schedule to reflect State of CA furlough ending 6/1/2010. Align the start of Section 106 Consultation with the start of stakeholders/agencies review of Final Part B Work Plan. Added time for preparation/submittal/concurrence with Draft DQO TM. Added time for preparation/submittal of Draft DQO TM. Adjusted time for revision of Draft Part B DQO TM, combination of Part A and Part B into one Work Plan, and reflection of PA consultation (55 calendar days). Adjusted schedule to reflect additional time for Tribal consultation (total of 55 calendar days), followed by SHPO consultation (assume 30 calendar days). Adjusted schedule to reflect the comment resolution period, including time for site visits requested by DTSC and the Tribes. Schedule extension reflected additional time for comment resolution. Schedule extension also reflected additional time for revising work plan to incorporate responses to comments. Additional two weeks for CWG/TWG/Tribes to review responses to comments. TWG meeting to discuss responses to comments. Added approx. 4 weeks for comment resolution. The current anticipated approval date for the Final Soil RFI/RI Work Plan is an estimate and is pending CEQA review. Adjusted schedule to reflect additional time required to respond to DTSC's comments on the September 2012 Work Plan and to revise the Work Plan. Adjusted schedule to include the Soil EIR and to reflect the new agency approval date for the Soil Work Plan.
<p>Work Plan Implementation/ Data Analysis (Lines 886 - 894)</p>	<ul style="list-style-type: none"> FF 8/16/2013 (Rev. 15) FF 10/24/2013 (Rev. 16) FF 9/8/2014 (Rev. 17) 	<ul style="list-style-type: none"> Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan.
<p>RFI/RI Vol. 3 Reporting (Draft, RTCs, Final, Approvals)</p>	<ul style="list-style-type: none"> FF 7/8/2014 (Rev. 15) FF 10/1/2014 (Rev. 16) FF 8/18/2015 (Rev. 17) 	<ul style="list-style-type: none"> Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan.

(Lines 895 - 910)		
Risk Assessment Work Plan Addendum II (through Approvals) (Lines 1122-1141)	<ul style="list-style-type: none"> • FF 1/24/2014 (Rev. 16) • FF 3/12/2014 (Rev. 17) 	
Risk Assessment (through Approvals) (Lines 1159 - 1174)	<ul style="list-style-type: none"> • FF 7/22/2015 (Rev. 16) • FF 6/7/2016 (Rev. 17) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect current anticipated schedule for approval of Soil RFI/RI Work Plan, Work Plan Implementation/Data Analysis, and RFI/RI Vol. 3 Reporting.
CMS/FS Report (through Approvals) (Lines 1235 - 1252)	<p>FF for approval of CMS/FS</p> <ul style="list-style-type: none"> • 2/21/12 (Rev. 2) • 7/3/2012 (Rev. 3) • 8/21/2012 (Rev. 5) • 2/15/2013 (Rev. 6) • 12/4/2013 (Rev. 7) • 5/16/2014 (Rev. 8) • 5/14/2014 (Rev. 9) • 5/23/2014 (Rev. 10) • 5/21/2014 (Rev. 11) • 8/27/2014 (Rev. 12) • 11/19/2014 (Rev. 13) • 1/29/2015 (Rev. 14) • 5/27/2015 (Rev. 15) • 6/9/2016 (Rev. 16) • 4/26/2017 (Rev. 17) 	<ul style="list-style-type: none"> • Approx. 2 months due to cascading delay from Part A Phase 1 workplan/ approval/permitting. • 1 month from adding a link between tribal review of CMS/FS and PG&E response to comments. • Cascading delay from Part A approval. • Cascading delay from Part A Phase 1 data gaps evaluation. • Revise the Soil CMS/FS steps to mirror the Groundwater CMS/FS steps <ul style="list-style-type: none"> • E.g., discussion draft, draft, resolution to comments, final. • Use the duration of the Groundwater CMS/FS steps as placeholders. • Keep the sequential order of RFI/RI and Risk before CMS/FS. • Reflect revised Part A and B schedule. • Added time for “Prepare Response to Comments” before CMS/FS comments resolution. • Added a hard link between the completion of the risk assessment and the start of the CMS/FS. • Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan.
Statement of Basis (Lines 1261 - 1267) Public Notice/Supplemental EIR (Lines 1397 - 1407)	<p>Extend NOD filing to:</p> <ul style="list-style-type: none"> • FF 12/7/2012 (Rev. 3) • FF 1/25/2013 (Rev. 5) • FF 7/22/2013 (Rev. 6) • FF 5/8/2014 (Rev. 7) • FF 11/20/2014 (Rev. 8) • FF 11/16/2014 (Rev. 9) • FF 10/27/2014 (Rev. 10) • FF 10/2/2014 (Rev. 11) • FF 1/8/2015 (Rev. 12) 	<ul style="list-style-type: none"> • Cascading delay from CMS/FS Soil • Addition of links from a) Supplemental EIR public comment to Statement of Basis public comment and b) Supplemental EIR certification to DTSC approval of Soil Remedy. • Cascading delay from CMS/FS Soil. • Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan.

	<ul style="list-style-type: none"> • FF 4/2/2015 (Rev. 13) • FF 7/13/2015 (Rev. 14) • FF 11/8/2015 (Rev. 15) • FF 10/21/2016 (Rev. 16) • FF 9/26/2017 (Rev. 17) 	
<p>Proposed Plan/ROD (Lines 1280 - 1290)</p>	<p>Extend ROD issuance to:</p> <ul style="list-style-type: none"> • FF 9/6/2012 (Rev. 3) • FF 1/17/ 2013 (Rev. 4) • FF 3/7/2013 (Rev. 5) • FF 11/20/2013 (Rev. 6) • FF 9/8/2014 (Rev. 7) • FF 2/18/2015 (Rev. 8) • FF 2/16/2015 (Rev. 9) • FF 2/25/2015 (Rev. 10) • FF 2/23/2015 (Rev. 11) • FF 6/1/2015 (Rev. 12) • FF 8/24/2015 (Rev. 13) • FF 11/3/2015 (Rev. 14) • FF 2/29/2016 (Rev. 15) • FF 3/14/2017 (Rev. 16) • FF 1/29/2018 (Rev. 17) 	<ul style="list-style-type: none"> • Cascading delay from CMS/FS Soil. • Increased the duration of DOI Approval Process for ROD from 60 to 90edays. • Added a hard link (similar to the Groundwater ROD) between approval of the CMS/FS and the start of the Proposed Plan. • Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan.