RI/FS DOCUMENT / MEETING SUMMARY
Updated through July 17, 2017
Leviathan Mine Site
Alpine County, California

Date	Date Submitted by Atlantic Richfield	Date Submitted by EPA	EPA Requested Due Date	Atlantic Richfield Estimated Submittal Date	Work Plan / Document	Amendment / Addendum / Revision No. or Topic	Author	Recipient	Item	Atlantic Richfield Status	US EPA Status	US EPA Comment	Atlantic Richfield Comment
Administrative Order													
Data Quality Objectives													
Program Work Plan													
07/10/17	07/10/17				Program	QAPP	Atlantic Richfield	US EPA	Leviathan Mine Site - 2017 PE Sample Results, Groundwater	Submitted			Email to provide results of EPA's PE samples.
06/13/17	06/13/17				Program	QAPP	Atlantic Richfield	US EPA	Leviathan Mine Site - 2017 PE Sample Results, Surface Water	Submitted			Email to provide results of EPA's PE samples.
06/12/17	06/12/17				Program	QAPP	Atlantic Richfield	US EPA	Leviathan Mine Site - PE Stormwater/Snowmelt 2017	Submitted			Email to provide results of EPA's PE samples.
06/06/17	06/06/17				Program	QAPP	Atlantic Richfield	US EPA	Results for surface water testing - Leviathan Mine - Work Order 1604061	Submitted			Email to provide results of EPA's split samples for Storm Water/Snowmelt Monitoring
05/30/17	05/30/17				Program	QAPP	US EPA	Atlantic Richfield	EPA Comments on QAPP and Data Validation	Received; response in progress		Transmits concern that ARC is doing more review than necessary and attaches excerpt from QAOO that describes levels of validation. Requests clarifying information and suggests a call with ARC and laboratory to discuss how EPA can assist in streamlining the process. "We'd hate to think ARC is doing more review than is necessary."	
5/8/2017		5/8/2017			Program	QAPP	US EPA	Atlantic Richfield	EPA Approval of Atlantic Richfield Company (ARC) Final Revised RI/FS Quality Assurance Plan (QAPP); revision 2 for the Leviathan Mine Site in Alpine County, California; dated January 27, 2017	Received		EPA directs ARC to implement the quality control procedures identified in the QAPP for all data. Further, ARC shall ensure, at a minimum, that each annual QAPP update includes any necessary revisions to the Data Quality Objectives and the CSM with a clear written statement that these have been reviewed and updated or remains unchanged. That shall be explicitly identified in the annual QAPP update.	
1/27/2017	1/27/2017				Program	QAPP	Atlantic Richfield	US EPA	RI/FS Quality Assurance Project Plan Revision No. 2 [Final]	Submitted	Approved on 5/8/17		Submitted with line-by-line response to U.S. EPA's comments dated 11/21/16
On-Property Work Plan (also includes Off-Property Surface Water Monitoring; Off-Property and Reference Plant and Fish Sampling; and Off-Property and Reference Bioaccessibility Testing)													
03/27/17		03/27/17							Email - RE: Lab Method For Fish	Received		In EPA comments dated August 12, 2016; EPA requested: : "Please provide a written report to EPA within 90 days of completion of field work" EPA would like a summary and to receive the results of the fish sampling data collected in 2016.	Reporting will be conducted as stated in the January 17, 2017 management meeting and as reiterated in Atlantic Richfield's March 3, 2017 and June 19, 2017 letters.
03/21/17		03/21/17			On-Property, Off-Property, and Reference	Plant/Soil TSAP	US EPA	Atlantic Richfield	EPA Approval of the Final On-Property, Off-Property, and Reference Area Focused Remedial Investigation (FRI) Work Plan – Plant and Habitat-Related Soil Investigations, Leviathan Mine Site, Alpine County, California; dated April 8, 2016	Received		EPA approved the April 8, 2016 response to comments and Final work plan and finds that ARC has adequately addressed EPA comments. On or before May 30 2017; EPA directed ARC to prepare a plant sampling data summary that fully identifies the plants sampled, sample locations, and associated analytical results.	Reporting will be conducted as stated in the January 17, 2017 management meeting and as reiterated in Atlantic Richfield's March 3, 2017 and June 19, 2017 letters.
04/18/17		04/18/17			On-Property	Optimization	US EPA	Atlantic Richfield	EPA comments on Atlantic Richfield (ARC) Proposed 2017 Snowmelt Runoff Monitoring program and requested Modifications to the Evaporation Pan Monitoring Program; Leviathan Mine Site, Alpine County, California, dated April 6, 2017	Received		EPA approves the ARC snowmelt monitoring plan, and concurs with removal of the evaporation pan, and requests that ARC access the site and install the sampling equipment as early in April as possible.	
04/06/17	04/06/17				On-Property	Optimization	Atlantic Richfield	US EPA	Proposed 2017 Snowmelt Runoff Monitoring and Modifications to Evaporation Pan Monitoring Program	Submitted	Approved on 4/18/17		Requested expedited approval of the recommended modifications. Based on current long range forecast, equipment re-installation and snowmelt monitoring would begin in approximately late April or early May 2017.
03/28/17		03/28/17			On-Property	Optimization	US EPA	Atlantic Richfield	Email: Surface water and Storm water Monitoring	Received		EPA requests that ARC provide a summary table of samples to be collected, figure showing sample locations, and to implement snowmelt monitoring at the locations indicated within 14 days or by April 11 and surface water monitoring within the next 40 days or by May 10.	
05/26/17		05/26/17			On-Property	Amendment 12, Supplement 0	US EPA	Atlantic Richfield	EPA comments on Amend 12 TPH Investigation	Received		Email indicating ARC has completed request for assessing area of disturbed soil in Camp Isbell area.	
05/25/17	05/25/17				On-Property	Amendment 12, Supplement 1	Atlantic Richfield	US EPA	EPA comments on Amend 12 TPH Investigation	Submitted			Email from Tony Brown in response to request for assessment of disturbed area of soil in Camp Isbell area that indicates US EPA is mistaken about the excavation.

	05/24/17		05/24/17			On-Property	Amendment 12, Supplement 1	US EPA	Atlantic Richfield	EPA conditional approval of Atlantic Richfield's On-Property Focused Remedial Investigation Work Plan Amendment No. 12 Supplement No. 1 – Task Sampling and Analysis Plan for Camp Isbell Hydrocarbon Investigation, Leviathan Mine Site, Alpine County, California, dated May 1, 2017	Received		In advance of sampling, or during sampling, please provide for EPA and Waterboard review of the proposed sampling locations. In addition, EPA requests that ARC assess the area of disturbed soil. As discussed during our in person meeting on May 23, 2015: EPA was conducting a site visit to the Isabel Camp area on May 19, 2017 when we identified a disturbed area of soil that appears to be a shallow excavation at the former Camp Isbell area. Photo in Attachment 2. Please provide a full assessment, including historical sample concentrations of the soils in this area, and final placement of these disturbed soils within the next thirty (30) days or by June 24, 2017.	
	05/01/17	05/01/17				On-Property	Amendment 12, Supplement 1	Atlantic Richfield	US EPA	On-Property Focused Remedial Investigation Work Plan Amendment No. 12 Supplement No. 1 – Task Sampling and Analysis Plan for Camp Isbell Hydrocarbon Investigation	Submitted	Conditional approval received 5/24/17		Supplement No. 1 was prepared in response to U.S. EPA's comment letter dated March 19, 2017. Supplement No. 1 describes the hydrocarbon investigation to be performed near four former buildings in the former Camp Isbell area of the site to the east of the Aspen Seep Bioreactor. In addition, responses to the U.S. EPA's March 19, 2017 comments were provided.