

**Remedial Design, Permitting, and Construction Schedule**  
**Source Area Operable Unit, Rockets, Fireworks, and Flares Superfund Site**  
**Rialto-Colton Basin, California**

ID	Task Name	Duration	Start	Finish	Predecessors	1st Half				1st Half				1st Half				1st Half			
						1st Quarter		3rd Quarter		1st Quarter		3rd Quarter		1st Quarter		3rd Quarter		1st Quarter			
						Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	
1	<b>Remedial Design Schedule - B.F. Goodrich Superfund Site</b>	<b>1340 days?</b>	<b>Wed 10/10/12</b>	<b>Fri 6/10/16</b>																	
2	<i>Emhart Commences Project Work</i>	<i>1 day</i>	<i>Wed 10/10/12</i>	<i>Wed 10/10/12</i>																	
3	<i>Lodging of Consent Decree (CD)</i>	<i>1 day</i>	<i>Tue 12/4/12</i>	<i>Tue 12/4/12</i>																	
4	<b>Project Management</b>	<b>1284 days</b>	<b>Wed 12/5/12</b>	<b>Fri 6/10/16</b>																	
5	<i>Administrative Tasks/Project Kick-Off</i>	<i>146 days</i>	<i>Wed 12/5/12</i>	<i>Mon 4/29/13</i>																	
15	<b>Communication and Reporting</b>	<b>1234 days</b>	<b>Thu 1/24/13</b>	<b>Fri 6/10/16</b>																	
16	<b>Monthly Progress Reports</b>	<b>1234 days</b>	<b>Thu 1/24/13</b>	<b>Fri 6/10/16</b>																	
59	<b>Implementation Agreements</b>																				
60	Implementation Agreements with City of Rialto and Colton - TBD																				
61	Final County Implementation Agreement - TBD																				
62	<b>Remedial Design Activities</b>	<b>612 days</b>	<b>Mon 10/15/12</b>	<b>Wed 6/18/14</b>																	
63	<i>Remedial Design Work Plan</i>	<i>116 days</i>	<i>Tue 1/8/13</i>	<i>Fri 5/3/13</i>																	
72	<i>Groundwater Flow Modeling</i>	<i>285 days</i>	<i>Mon 10/15/12</i>	<i>Fri 7/26/13</i>																	
105	<i>Remedial Design Investigation (RDI)</i>	<i>262 days</i>	<i>Tue 1/8/13</i>	<i>Thu 9/26/13</i>																	
133	<i>Preliminary Design</i>	<i>144 days</i>	<i>Sat 6/29/13</i>	<i>Tue 11/19/13</i>																	
143	<i>Prefinal Design</i>	<i>181 days</i>	<i>Wed 11/20/13</i>	<i>Mon 5/19/14</i>																	
152	<b>Final Design</b>	<b>30 days</b>	<b>Tue 5/20/14</b>	<b>Wed 6/18/14</b>																	
153	Final Design: Preparation	30 days	Tue 5/20/14	Wed 6/18/14	151																
154	Final Design: Submit to EPA	0 days	Wed 6/18/14	Wed 6/18/14	153																
155	<b>Remedial Action Planning</b>	<b>703 days</b>	<b>Fri 1/10/14</b>	<b>Mon 12/14/15</b>																	
156	<b>Operation and Maintenance (O&amp;M) Plan (Issue Concurrently with Prefinal Design)</b>	<b>703 days</b>	<b>Fri 1/10/14</b>	<b>Mon 12/14/15</b>																	
157	<i>Draft O&amp;M Plan: Preparation</i>	<i>40 days</i>	<i>Fri 1/10/14</i>	<i>Tue 2/18/14</i>	158SS-40 days																
158	<i>Draft O&amp;M Plan: Submit to EPA</i>	<i>0 days</i>	<i>Tue 2/18/14</i>	<i>Tue 2/18/14</i>	145SS																
159	<i>Draft O&amp;M Plan: EPA Review</i>	<i>58 days</i>	<i>Wed 2/19/14</i>	<i>Thu 4/17/14</i>	158																
160	<i>Draft O&amp;M Plan: EPA Submit Comments</i>	<i>0 days</i>	<i>Thu 4/17/14</i>	<i>Thu 4/17/14</i>	159																
161	<i>Draft O&amp;M Plan: Response to EPA Comments</i>	<i>28 days</i>	<i>Fri 4/18/14</i>	<i>Thu 5/15/14</i>	160																
162	EPA Review of Response to Comments	35 days	Fri 5/16/14	Thu 6/19/14	161																
163	Final O&M Plan: Preparation	30 days	Sat 11/14/15	Sun 12/13/15	164SS-30 days																
164	Final O&M Plan: Submit to EPA (concurrent with Final Construction Inspection)	0 days	Mon 12/14/15	Mon 12/14/15	343SS																
165	<b>Compliance Monitoring Plan (CMP) (Issue Concurrently with Prefinal Design)</b>	<b>182 days</b>	<b>Fri 1/10/14</b>	<b>Thu 7/10/14</b>																	
166	<i>Draft CMP: Preparation</i>	<i>40 days</i>	<i>Fri 1/10/14</i>	<i>Tue 2/18/14</i>	167SS-40 days																
167	<i>Draft CMP: Submit to EPA</i>	<i>0 days</i>	<i>Tue 2/18/14</i>	<i>Tue 2/18/14</i>	145SS																
168	<i>Draft CMP: EPA Review</i>	<i>58 days</i>	<i>Wed 2/19/14</i>	<i>Thu 4/17/14</i>	167																
169	<i>Draft CMP Plan: Response to EPA Comments</i>	<i>28 days</i>	<i>Fri 4/18/14</i>	<i>Thu 5/15/14</i>	168																
170	EPA Review of Response to Comments	35 days	Fri 5/16/14	Thu 6/19/14	169																
171	EPA Approval of CMP	0 days	Thu 6/19/14	Thu 6/19/14	170																
172	Final CMP: Preparation	21 days	Fri 6/20/14	Thu 7/10/14	171																
173	Final CMP: Submit to EPA	0 days	Thu 7/10/14	Thu 7/10/14	172																
174	<b>Sampling &amp; Analysis Plan (SAP) (Placeholder - schedule will be defined in O&amp;M Plan &amp; CMP)</b>	<b>84 days</b>	<b>Tue 1/27/15</b>	<b>Mon 4/20/15</b>																	
175	<i>Draft SAP: Preparation</i>	<i>40 days</i>	<i>Tue 1/27/15</i>	<i>Sat 3/7/15</i>	332SS																
176	<i>Draft SAP: Submit to EPA</i>	<i>0 days</i>	<i>Sat 3/7/15</i>	<i>Sat 3/7/15</i>	175																
177	<i>Draft SAP: EPA Review</i>	<i>30 days</i>	<i>Sun 3/8/15</i>	<i>Mon 4/6/15</i>	176																
178	EPA Approval of SAP	0 days	Mon 4/6/15	Mon 4/6/15	177																
179	Final SAP: Preparation	14 days	Tue 4/7/15	Mon 4/20/15	178																
180	Final SAP: Submit to EPA	0 days	Mon 4/20/15	Mon 4/20/15	179																

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ID	Task Name	Duration	Start	Finish	Predecessors	1st Half				1st Half				1st Half				1st Half	
						1st Quarter		3rd Quarter		1st Quarter		3rd Quarter		1st Quarter		3rd Quarter		1st Quarter	
						Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan
181	<b>Health and Safety Plan (HASP) (Placeholder - schedule will be defined in O&amp;M Plan &amp; CMP)</b>	<b>70 days</b>	<b>Tue 1/27/15</b>	<b>Mon 4/6/15</b>															
182	Draft HASP: Preparation	40 days	Tue 1/27/15	Sat 3/7/15	332SS														
183	Draft HASP: Submit to EPA	0 days	Sat 3/7/15	Sat 3/7/15	182														
184	EPA Review of HASP (EPA will review but neither approve or disapprove)	30 days	Sun 3/8/15	Mon 4/6/15	183														
185	<b>Construction Quality Assurance Plan (CQAP) (Issue Concurrently with Prefinal Design)</b>	<b>160 days</b>	<b>Fri 1/10/14</b>	<b>Wed 6/18/14</b>															
186	<i>Draft CQAP</i>	<i>40 days</i>	<i>Fri 1/10/14</i>	<i>Tue 2/18/14</i>	<i>187SS-40 days</i>														
187	<i>Draft CQAP: Submit to EPA</i>	<i>0 days</i>	<i>Tue 2/18/14</i>	<i>Tue 2/18/14</i>	<i>145SS</i>														
188	<i>Draft CQAP: EPA Review</i>	<i>58 days</i>	<i>Wed 2/19/14</i>	<i>Thu 4/17/14</i>	<i>187</i>														
189	<i>Draft CQAP: Response to Comments</i>	<i>14 days</i>	<i>Fri 4/18/14</i>	<i>Thu 5/1/14</i>	<i>188</i>														
190	<i>USEPA Review of Response to Comments</i>	<i>18 days</i>	<i>Fri 5/2/14</i>	<i>Mon 5/19/14</i>	<i>189</i>														
191	<i>EPA Approval of CQAP</i>	<i>0 days</i>	<i>Mon 5/19/14</i>	<i>Mon 5/19/14</i>	<i>190</i>														
192	Final CQAP: Preparation	30 days	Tue 5/20/14	Wed 6/18/14	191														
193	Final CQAP: Submit to EPA	0 days	Wed 6/18/14	Wed 6/18/14	192														
194	<b>Construction Health and Safety Plan (Issue Concurrently with Prefinal Design)</b>	<b>10 days</b>	<b>Sat 9/13/14</b>	<b>Tue 9/23/14</b>	<b>324FS+10 days</b>														
195	<i>Construction HASP: Preparation</i>	<i>40 days</i>	<i>Sun 9/14/14</i>	<i>Thu 10/23/14</i>	<i>196SS-40 days</i>														
196	<i>Construction HASP: Submit to EPA</i>	<i>0 days</i>	<i>Sat 9/13/14</i>	<i>Sat 9/13/14</i>	<i>145SS</i>														
197	<i>EPA Review of HASP (EPA will review but neither approve or disapprove)</i>	<i>58 days</i>	<i>Sun 9/14/14</i>	<i>Mon 11/10/14</i>	<i>196</i>														
198	Final Construction HASP	1 day?	Sun 9/14/14	Sun 9/14/14															
199	<b>Remedial Action Work Plan</b>	<b>74 days</b>	<b>Tue 5/20/14</b>	<b>Fri 8/1/14</b>															
200	Draft Workplan: Preparation	30 days	Tue 5/20/14	Wed 6/18/14	151														
201	Draft Workplan: Submit to EPA	0 days	Wed 6/18/14	Wed 6/18/14	200														
202	Draft Workplan: EPA Review Period	30 days	Thu 6/19/14	Fri 7/18/14	201														
203	EPA Approval of Remedial Action Work Plan	0 days	Fri 7/18/14	Fri 7/18/14	202														
204	Final Workplan: Preparation	14 days	Sat 7/19/14	Fri 8/1/14	203														
205	Final Workplan: Submit to EPA	0 days	Fri 8/1/14	Fri 8/1/14	204														
206	<b>Remedial Action</b>	<b>1182 days</b>	<b>Fri 11/16/12</b>	<b>Wed 2/10/16</b>															
207	<b>Monitoring Wells</b>	<b>957 days</b>	<b>Sat 6/29/13</b>	<b>Wed 2/10/16</b>															
208	<i>Work Plan Preparation/Approval</i>	<i>126 days</i>	<i>Sat 6/29/13</i>	<i>Fri 11/1/13</i>															
219	<b>Installation of EMW-1, -3, -4, and -5</b>	<b>294 days</b>	<b>Fri 10/18/13</b>	<b>Thu 8/7/14</b>															
220	<b>Field Implementation (EMW-1, -3, -4, and -5)</b>	<b>294 days</b>	<b>Fri 10/18/13</b>	<b>Thu 8/7/14</b>															
221	<i>Permit and Install Monitoring Wells</i>	<i>158 days</i>	<i>Fri 10/18/13</i>	<i>Mon 3/24/14</i>	<i>215</i>														
222	<i>Well Development</i>	<i>55 days</i>	<i>Mon 2/3/14</i>	<i>Sat 3/29/14</i>	<i>221SS+108 days</i>														
223	<i>Monitoring Well Sampling</i>	<i>41 days</i>	<i>Sun 3/30/14</i>	<i>Fri 5/9/14</i>	<i>222</i>														
224	<i>Laboratory Analysis of Samples</i>	<i>13 days</i>	<i>Sat 5/10/14</i>	<i>Thu 5/22/14</i>	<i>223</i>														
225	<i>Submit Laboratory Analytical Data (14 days after receipt of analytical results)</i>	<i>14 days</i>	<i>Fri 5/23/14</i>	<i>Thu 6/5/14</i>	<i>224</i>														
226	Submit Validated Analytical Data (90 days after sample shipment)	90 days	Sat 5/10/14	Thu 8/7/14	223														
227	<b>Well Construction Summary Report</b>	<b>121 days</b>	<b>Tue 3/25/14</b>	<b>Wed 7/23/14</b>															
228	Well Construction Summary Report: Preparation	91 days	Tue 3/25/14	Mon 6/23/14	221														
229	Well Construction Summary Report: Submit to EPA	0 days	Mon 6/23/14	Mon 6/23/14	228														
230	Well Construction Summary Report: EPA Review	30 days	Tue 6/24/14	Wed 7/23/14	229														
231	Well Construction Summary Report: EPA Approval	0 days	Wed 7/23/14	Wed 7/23/14	230														

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ID	Task Name	Duration	Start	Finish	Predecessors	1st Half															
						1st Quarter				3rd Quarter				1st Quarter				3rd Quarter			
						Oct	Jan	Apr	Jul												
232	<b>Installation of EMW-2</b>	<b>813 days</b>	<b>Wed 11/20/13</b>	<b>Wed 2/10/16</b>																	
233	<b>Field Implementation (EMW-2)</b>	<b>813 days</b>	<b>Wed 11/20/13</b>	<b>Wed 2/10/16</b>																	
234	<b>Permit and Access Agreement</b>	<b>668 days</b>	<b>Wed 11/20/13</b>	<b>Fri 9/18/15</b>																	
235	Permitting and Access Agreement (Placeholder Data Current Date is unknown)	90 days	Sun 6/21/15	Fri 9/18/15	251SS																
236	Meeting with City of Rialto and Developer	0 days	Wed 11/20/13	Wed 11/20/13		◆ 11/20															
237	Meeting with City of Rialto and Developer	0 days	Wed 4/23/14	Wed 4/23/14		◆ 4/23															
238	Install Monitoring Well	15 days	Sat 9/19/15	Sat 10/3/15	234																
239	Well Development/Install Westbay/Purge	30 days	Sun 10/4/15	Mon 11/2/15	238																
240	Monitoring Well Sampling	10 days	Tue 11/3/15	Thu 11/12/15	239																
241	Laboratory Analysis of Samples	21 days	Fri 11/13/15	Thu 12/3/15	240																
242	Submit Laboratory Analytical Data (14 days after receipt of analytical results)	14 days	Fri 12/4/15	Thu 12/17/15	241																
243	Submit Validated Analytical Data (90 days after sample shipment)	90 days	Fri 11/13/15	Wed 2/10/16	240																
244	<b>Well Construction Summary Report</b>	<b>120 days</b>	<b>Sun 10/4/15</b>	<b>Sun 1/31/16</b>																	
245	Well Construction Summary Report: Preparation	90 days	Sun 10/4/15	Fri 1/1/16	238																
246	Well Construction Summary Report: Submit to EPA	0 days	Fri 1/1/16	Fri 1/1/16	245	◆ 1/1															
247	Well Construction Summary Report: EPA Review	30 days	Sat 1/2/16	Sun 1/31/16	246																
248	Well Construction Summary Report: EPA Approval	0 days	Sun 1/31/16	Sun 1/31/16	247	◆ 1/31															
249	<b>Installation of EMW-6 and EMW-7</b>	<b>210 days</b>	<b>Sun 6/21/15</b>	<b>Sat 1/16/16</b>																	
250	<b>Field Implementation (EMW-6 and EMW-7)</b>	<b>210 days</b>	<b>Sun 6/21/15</b>	<b>Sat 1/16/16</b>																	
251	Permit and Install Monitoring Wells	90 days	Sun 6/21/15	Fri 9/18/15	252SS-90 days																
252	Well Development	15 days	Sat 9/19/15	Sat 10/3/15	253SS-15 days																
253	Monitoring Well Sampling	15 days	Sun 10/4/15	Sun 10/18/15	314FS-3.5 mons																
254	Laboratory Analysis of Samples	21 days	Mon 10/19/15	Sun 11/8/15	253																
255	Submit Laboratory Analytical Data (14 days after receipt of analytical results)	14 days	Mon 11/9/15	Sun 11/22/15	254																
256	Submit Validated Analytical Data (90 days after sample shipment)	90 days	Mon 10/19/15	Sat 1/16/16	253																
257	<b>Well Construction Summary Report</b>	<b>120 days</b>	<b>Sat 9/19/15</b>	<b>Sat 1/16/16</b>																	
258	Well Construction Summary Report: Preparation	90 days	Sat 9/19/15	Thu 12/17/15	251																
259	Well Construction Summary Report: Submit to EPA	0 days	Thu 12/17/15	Thu 12/17/15	258	◆ 12/17															
260	Well Construction Summary Report: EPA Review	30 days	Fri 12/18/15	Sat 1/16/16	259																
261	Well Construction Summary Report: EPA Approval	0 days	Sat 1/16/16	Sat 1/16/16	260	◆ 1/16															



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Version - Wed 6/18/14

ID	Task Name	Duration	Start	Finish	Predecessors	1st Half				1st Half				1st Half				1st Half	
						1st Quarter		3rd Quarter		1st Quarter		3rd Quarter		1st Quarter		3rd Quarter		1st Quarter	
						Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan
295	<b>97-005 Evaluation Process for Documentation</b>	<b>300 days</b>	<b>Mon 2/3/14</b>	<b>Sat 11/29/14</b>															
296	<b>Development and Evaluation Activities</b>	<b>230 days</b>	<b>Mon 2/3/14</b>	<b>Sat 9/20/14</b>															
297	Section 2. Source Water Assessment	150 days	Mon 2/3/14	Wed 7/2/14															
298	Section 3. Raw Water Quality Characterization (need CDPH concurrence on sampling prior to collection)	120 days	Sat 5/10/14	Sat 9/6/14	223														
299	Section 4. Source Water Protection	150 days	Mon 2/3/14	Wed 7/2/14	138FS+93 days														
300	Section 5. Treatment and Monitoring	40 days	Mon 6/23/14	Fri 8/1/14	299FS-10 days														
301	Section 6. Health Risk Assessment	40 days	Sat 8/2/14	Wed 9/10/14	300														
302	Section 7. Alternatives Identification	40 days	Tue 8/12/14	Sat 9/20/14	300FS+10 days														
303	<b>97-005 Guidance Evaluation Process and Documentation for EW-1 and Expanded System</b>	<b>70 days</b>	<b>Sun 9/21/14</b>	<b>Sat 11/29/14</b>															
304	Draft Document: Preparation	20 days	Sun 9/21/14	Fri 10/10/14	296														
305	Draft Document: Submit to CDPH	0 days	Fri 10/10/14	Fri 10/10/14	304														
306	Draft Document: CDPH review and comments	30 days	Sat 10/11/14	Sun 11/9/14	305														
307	Finalize 97-005 Document	20 days	Mon 11/10/14	Sat 11/29/14	306														
308	<b>Permit Amendment Application for CR-3 System</b>	<b>45 days</b>	<b>Thu 12/3/15</b>	<b>Sat 1/16/16</b>															
309	<b>Permit Amendment Application</b>	<b>45 days</b>	<b>Thu 12/3/15</b>	<b>Sat 1/16/16</b>															
310	Permit Amendment Application: Preparation	15 days	Thu 12/3/15	Thu 12/17/15	294,291,307														
311	Permit Amendment Application: Submit to CDPH	0 days	Thu 12/17/15	Thu 12/17/15	310														
312	Permit Amendment Application: CDPH Review	30 days	Fri 12/18/15	Sat 1/16/16	311														
313	<b>Permit Amendment Application: Approval</b>	<b>0 days</b>	<b>Sat 1/16/16</b>	<b>Sat 1/16/16</b>	<b>312</b>														
314	<b>System Startup</b>	<b>0 days</b>	<b>Sat 1/16/16</b>	<b>Sat 1/16/16</b>	<b>313</b>														
315	<b>Contractor Selection</b>	<b>92 days</b>	<b>Wed 6/11/14</b>	<b>Wed 9/10/14</b>															
316	Bid Package: Qualification	9 days	Wed 6/11/14	Thu 6/19/14	151FS+22 days														
317	Bid Package: Preparation	12 days	Thu 6/19/14	Mon 6/30/14	154														
318	Bid Package: Submit to Bidders	0 days	Mon 6/30/14	Mon 6/30/14	317														
319	Bid Package: Review by Bidders	21 days	Tue 7/1/14	Mon 7/21/14	318														
320	Bid Walk	1 day	Tue 7/8/14	Tue 7/8/14	319SS+7 days														
321	Bids Due	1 day	Tue 7/22/14	Tue 7/22/14	319														
322	Contractor Selection	14 days	Wed 7/23/14	Tue 8/5/14	321														
323	Contracting	28 days	Wed 8/6/14	Tue 9/2/14	322														
324	Selected Construction Contractor: EPA Notification	1 day	Wed 9/3/14	Wed 9/3/14	323														
325	Selected Construction Contractor: EPA Review Period	7 days	Thu 9/4/14	Wed 9/10/14	324														
326	<b>READY FOR SYSTEM CONSTRUCTION (Placeholder; Schedule will be defined further during design)</b>	<b>0 days</b>	<b>Sun 9/28/14</b>	<b>Sun 9/28/14</b>	<b>205,325,277,267,27</b>														

