



ID	Task Name	Duration	Start	Finish	May		June		July		August		September		October		November		December		January		February		March		April		May		Jun	
					B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M		E
39	USACE Review Disposal Plan	22 days	Mon 9/17/12	Tue 10/16/12																												
40	Prepare/Submit Accident Prevention Plan	22 days	Tue 8/21/12	Wed 9/19/12																												
41	USACE Review Accident Prevention Plan	22 days	Thu 9/20/12	Fri 10/19/12																												
42	Prepare/Submit Scaffolding Plan	22 days	Fri 8/24/12	Mon 9/24/12																												
43	USACE Review Scaffolding Plan	22 days	Tue 9/25/12	Tue 10/24/12																												
44	Prepare/Submit Quality Control Plan	22 days	Wed 8/29/12	Thu 9/27/12																												
45	USACE Review Quality Control Plan	22 days	Fri 9/28/12	Mon 10/29/12																												
46	Prepare/Submit Environmental Protection Plan	22 days	Mon 9/3/12	Tue 10/2/12																												
47	USACE Review Environmental Protection Plan	22 days	Wed 10/3/12	Thu 11/1/12																												
48	Prepare/Submit Erosion and Sediment Control Plan	22 days	Thu 9/6/12	Fri 10/5/12																												
49	USACE Review Erosion and Sediment Control Plan	22 days	Mon 10/8/12	Tue 11/6/12																												
50	Prepare/Submit Welding Procedures	22 days	Tue 9/11/12	Tue 10/10/12																												
51	USACE Review Welding Procedures	21 days	Thu 10/11/12	Thu 11/8/12																												
52																																
53	<b>Diving Submittals</b>	<b>60 days?</b>	<b>Wed 7/25/12</b>	<b>Tue 10/16/12</b>																												
54	Prepare Dive Team Personnel	30 days	Wed 7/25/12	Tue 9/4/12																												
55	USACE Review Dive Team Personnel	30 days	Wed 9/5/12	Tue 10/16/12																												
56	Prepare Dive Plan and Schedule	30 days	Wed 7/25/12	Tue 9/4/12																												
57	USACE Review Dive Plan and Schedule	30 days	Wed 9/5/12	Tue 10/16/12																												
58	Prepare Equipment Certification	30 days	Wed 7/25/12	Tue 9/4/12																												
59	USACE Review Equipment Certification	30 days	Wed 9/5/12	Tue 10/16/12																												
60	Prepare Emergency Management Plan	30 days	Wed 7/25/12	Tue 9/4/12																												
61	USACE Review Emergency Management Plan	30 days	Wed 9/5/12	Tue 10/16/12																												
62	Prepare Activity Hazard Analysis	30 days	Wed 7/25/12	Tue 9/4/12																												
63	USACE Review Activity Hazard Analysis	30 days	Wed 9/5/12	Tue 10/16/12																												
64																																
65	<b>Equipment and Material Shop Drawings</b>	<b>42 days?</b>	<b>Wed 7/18/12</b>	<b>Thu 9/13/12</b>																												
66	Prepare/Submit Water Collection Trough and Trough Transition Drawings	21 days	Wed 7/18/12	Wed 8/15/12																												
67	USACE Review Water Collection Trough and Trough Transition Drawings	21 days	Thu 8/16/12	Thu 9/13/12																												
68	Prepare/Submit Trough Transition Knife Gate Valve and Actuator	21 days	Wed 7/18/12	Wed 8/15/12																												
69	USACE Review Trough Transition Knife Gate Valve and Actuator	21 days	Thu 8/16/12	Thu 9/13/12																												
70	Prepare/Submit 36-inch Pipe Drawings	21 days	Wed 7/18/12	Wed 8/15/12																												
71	USACE Review 36-inch Pipe Drawings	21 days	Thu 8/16/12	Thu 9/13/12																												
72	Prepare/Submit Work Platform Drawings	21 days	Wed 7/18/12	Wed 8/15/12																												
73	USACE Review Work Platform Drawings	21 days	Thu 8/16/12	Thu 9/13/12																												
74	Prepare/Submit Coating Plan	20 days	Wed 7/18/12	Tue 8/14/12																												

Critical Split ..... Task  Milestone  Summary  Critical 

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					B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E
75	USACE Review Coating Plan	20 days	Wed 8/15/12	Tue 9/11/12																														USACE Review Coating Plan
76	Prepare/Submit 36" Dia Pipe Air Vents	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit 36" Dia Pipe Air Vents
77	USACE Review 36" Dia Pipe Air Vents	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review 36" Dia Pipe Air Vents
78	Prepare/Submit 36" Dia Butterfly Valve w/ Modulating Actuator	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit 36" Dia Butterfly Valve w/ Modulating Actuator
79	USACE Review 36" Dia Butterfly Valve w/ Modulating Actuator	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review 36" Dia Butterfly Valve w/ Modulating Actuator
80	Prepare/Submit Ultra Sonic Flow Meter	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Ultra Sonic Flow Meter
81	USACE Review Ultra Sonic Flow Meter	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review Ultra Sonic Flow Meter
82	Prepare/Submit Flume Support Structure Brackets	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Flume Support Structure Brackets
83	USACE Review Flume Support Structure Brackets	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review Flume Support Structure Brackets
84	Prepare/Submit Temp Bulkhead Support Brackets	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Temp Bulkhead Support Brackets
85	USACE Review Temp Bulkhead Support Brackets	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review Temp Bulkhead Support Brackets
86	Prepare/Submit Caisson Shop Drawings	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Caisson Shop Drawings
87	USACE Review Caisson Shop Drawings	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review Caisson Shop Drawings
88	Prepare/Submit Lower Entrance Shop Drawings	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Lower Entrance Shop Drawings
89	USACE Review Lower Entrance Shop Drawings	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review Lower Entrance Shop Drawings
90	Prepare/Submit Upper Entrance/Thimble Shop Drawings	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Upper Entrance/Thimble Shop Drawings
91	USACE Review Upper Entrance/Thimble Shop Drawings	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review Upper Entrance/Thimble Shop Drawings
92	Prepare/Submit Flow Splitter Shop Drawings	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Flow Splitter Shop Drawings
93	USACE Review Flow Splitter Shop Drawings	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review Flow Splitter Shop Drawings
94	Prepare/Submit Lower and Upper Flume Shop Drawings	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Lower and Upper Flume Shop Drawings
95	USACE Review Lower and Upper Flume Shop Drawings	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review Lower and Upper Flume Shop Drawings
96	Prepare/Submit Misc. Metals Shop Drawings	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Misc. Metals Shop Drawings
97	USACE Review Misc. Metals Shop Drawings	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review Misc. Metals Shop Drawings
98	Prepare/Submit Water Supply Header Shop Drawings	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Water Supply Header Shop Drawings
99	USACE Review Water Supply Header Shop Drawings	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review Water Supply Header Shop Drawings
100	Prepare/Submit Electrical and Controls Package	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Electrical and Controls Package
101	USACE Review Electrical and Controls Package	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review Electrical and Controls Package
102	Prepare/Submit Controls Testing Submittal	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit Controls Testing Submittal
103	USACE Review and Approve Controls Testing Submittal	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review and Approve Controls Testing Submittal
104	Prepare/Submit AWS Joint Repair System	21 days	Wed 7/18/12	Wed 8/15/12																														Prepare/Submit AWS Joint Repair System
105	USACE Review AWS Joint Repair System	21 days	Thu 8/16/12	Thu 9/13/12																														USACE Review AWS Joint Repair System
106																																		
107	<b>Procurement and Delivery of Fabricated Features</b>	<b>80 days</b>	<b>Fri 9/14/12</b>	<b>Thu 1/3/13</b>																													<b>Procurement and Delivery of Fabricated Features</b>	
108	Fabricate Water Collection Trough and Trough Transition	75 days	Fri 9/14/12	Thu 12/27/12																													Fabricate Water Collection Trough and Trough Transition	
109	Fabricate Trough Transition Knife Gate Valve and Actuator	75 days	Fri 9/14/12	Thu 12/27/12																													Fabricate Trough Transition Knife Gate Valve and Actuator	
110	Fabricate 36-inch Pipe	60 days	Fri 9/14/12	Thu 12/6/12																													Fabricate 36-inch Pipe	
111	Fabricate Work Platforms	80 days	Fri 9/14/12	Thu 1/3/13																													Fabricate Work Platforms	
112	Fabricate 36" Dia Pipe Air Vents	80 days	Fri 9/14/12	Thu 1/3/13																													Fabricate 36" Dia Pipe Air Vents	

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					B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B
150	Excavate and Place Shoring at Buried Pipe Sec 3	2 days	Wed 1/2/13	Thu 1/3/13																												Excavate and Place Shoring at Buried Pipe Sec 3
151	Install and Backfill Pipe Sec 3	2 days	Fri 1/4/13	Mon 1/7/13																												Install and Backfill Pipe Sec 3
152	Request Electrical Conduit be De Energized	2 days	Tue 1/8/13	Wed 1/9/13																												Request Electrical Conduit be De Energized
153	Excavate and Place Shoring at Buried Pipe Sec 4	2 days	Thu 1/10/13	Fri 1/11/13																												Excavate and Place Shoring at Buried Pipe Sec 4
154	Install and Backfill Pipe Sec 4	1 day	Mon 1/14/13	Mon 1/14/13																												Install and Backfill Pipe Sec 4
155	Excavate and Place Shoring at Buried Pipe Sec 5	1 day	Wed 1/16/13	Wed 1/16/13																												Excavate and Place Shoring at Buried Pipe Sec 5
156	Install and Backfill Pipe Sec 5	1 day	Fri 1/18/13	Fri 1/18/13																												Install and Backfill Pipe Sec 5
157	Excavate and Place Shoring at Buried Pipe Sec 6	1 day	Tue 1/22/13	Tue 1/22/13																												Excavate and Place Shoring at Buried Pipe Sec 6
158	Install and Backfill Pipe Sec 6	1 day	Thu 1/24/13	Thu 1/24/13																												Install and Backfill Pipe Sec 6
159	Saw Cut Existing Concrete Placement	1 day	Mon 1/28/13	Mon 1/28/13																												Saw Cut Existing Concrete Placement
160	Construct Access Road Temporary Detour Bypass	1 day	Tue 1/29/13	Tue 1/29/13																												Construct Access Road Temporary Detour Bypass
161	Excavate Under Access Road	1 day	Wed 1/30/13	Wed 1/30/13																												Excavate Under Access Road
162	Install and Backfill Pipe Under Access Road Location	1 day	Thu 1/31/13	Thu 1/31/13																												Install and Backfill Pipe Under Access Road Location
163	Construct Core Drill Access Pit	1 day	Fri 2/1/13	Fri 2/1/13																												Construct Core Drill Access Pit
164	Construct Site Work Improvements	10 days	Mon 2/4/13	Fri 2/15/13																												Construct Site Work Improvements
165																																
166	<b>Install Pipe in Upper Fish Ladder</b>	<b>9 days?</b>	<b>Mon 2/4/13</b>	<b>Thu 2/14/13</b>																												Install Pipe in Upper Fish Ladder
167	Core Drill 40-inch Diameter Opening Through 21-foot thick Monolith	5 days	Mon 2/4/13	Fri 2/8/13																												Core Drill 40-inch Diameter Opening Through 21-foot thick Monolith
168	Install Work Platform Pipe Bridge 1 and 2	2 days	Mon 2/11/13	Tue 2/12/13																												Install Work Platform Pipe Bridge 1 and 2
169	Install 36-inch Dia Pipe Through Core Opening Onto Work Platform	2 days	Wed 2/13/13	Thu 2/14/13																												Install 36-inch Dia Pipe Through Core Opening Onto Work Platform
170																																
171	<b>Avian Lines</b>	<b>60 days</b>	<b>Mon 11/26/12</b>	<b>Fri 2/15/13</b>																												Avian Lines
172	Temporarily Remove Avian Lines	2 days	Mon 11/26/12	Tue 11/27/12																												Temporarily Remove Avian Lines
173	Reinstall Avian Lines	2 days	Thu 2/14/13	Fri 2/15/13																												Reinstall Avian Lines
174																																
175	<b>Install Upper Entrance</b>	<b>50 days?</b>	<b>Mon 11/26/12</b>	<b>Fri 2/1/13</b>																												Install Upper Entrance
176	Install Temporary Caisson	5 days	Wed 11/28/12	Tue 12/4/12																												Install Temporary Caisson
177	Install Backup AWS Pumps	50 days	Mon 11/26/12	Fri 2/1/13																												Install Backup AWS Pumps
178	Dewater Fish Ladder	1 day	Wed 12/5/12	Wed 12/5/12																												Dewater Fish Ladder
179	Install Temporary Bulkhead Bracing Support	2 days	Fri 12/7/12	Mon 12/10/12																												Install Temporary Bulkhead Bracing Support
180	Cut 3' X 6.5' X 9' Thick Opening at Upper Entrance on Fish Ladder	7 days	Tue 12/11/12	Wed 12/19/12																												Cut 3' X 6.5' X 9' Thick Opening at Upper Entrance on Fish Ladder
181	Install Thimble	2 days	Fri 12/21/12	Mon 12/24/12																												Install Thimble
182	Install Upper Entrance Gate Valve	2 days	Tue 12/25/12	Wed 12/26/12																												Install Upper Entrance Gate Valve
183	Install Gate Elbow Support Structure	1 day	Thu 12/27/12	Thu 12/27/12																												Install Gate Elbow Support Structure
184	Flood Fish Ladder	1 day	Fri 12/28/12	Fri 12/28/12																												Flood Fish Ladder
185	Close Upper Entrance Gate Valve	1 day	Fri 12/28/12	Fri 12/28/12																												Close Upper Entrance Gate Valve
186	Remove Temporary Caisson	3 days	Mon 12/31/12	Wed 1/2/13																												Remove Temporary Caisson
187																																

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