



If you have questions, please contact me at (520) 584-1684.

Sincerely,

Marjorie E. Blaine  
Senior Project Manager  
Arizona Branch, Regulatory Division

Enclosure(s)

**PROJECT SPECIFIC SPECIAL CONDITIONS  
FILE NUMBER SPL-2010-00031-MB**

- a. Should cultural resources or archaeological remains be encountered during construction/excavation, work shall immediately cease in the area of discovery. The permittee shall promptly notify the State Historic Preservation Office at (602) 542-7137 and the Corps at (520) 584-4486.
- b. The permittee shall not divert flows outside of the ordinary high water mark of the Colorado River unless specifically authorized within this letter of verification (description of Scope of Work).
- c. The permittee shall remove all excess fill and/or construction debris/equipment from the site immediately upon completion of construction.
- d. Prior to onset of construction/excavation, the permittee shall provide the contractor(s) with a copy of this permit. The contractor shall read and agree to comply with all conditions herein. A copy of this permit shall be posted on site at all times.

**Revegetation and weed maintenance** - After initial flooding to condition soils and test the wetland cells, the project will be planted with native marsh and riparian plants. The planting plan calls for dense plantings of native plants to form distinct habitat bands based on elevations above water surface elevation. Key habitat components will be planted with containerized plantings, with seeding and wetland plugs utilized for ground cover species. Planting zones will range from deep marsh (bulrush and cattail), shallow marsh (three square and salt grass), riparian forest (willows and cottonwoods) to mesquite and saltbush. Plantings will be irrigated by manipulating water surface elevations with the exception of mesquites planted on high spoil areas which will require a limited amount of temporary irrigation for establishment. Planting will begin in 2014 and will continue through 2016.

Maintenance of weed species will begin immediately following the initiation of earthwork in 2011 and continue for at least three years following planting. Weed maintenance will consist of both mechanical and herbicide treatments depending on the extent and species of weed in question.

**Total excavation within the project area is approximately 1.4 million cubic yards.**

**Total excavation within jurisdictional wetlands is approximately 764,691 cubic yards over 175.21 acres.**

**Total discharge within the project area is approximately 1.4 million cubic yards.**

**Total discharge within jurisdictional wetlands is 905,956 cubic yards over 113.3 acres.**

**Total wetland created is approximately 880 acres, compared to 804 acres of delineated wetlands within the project area.**

**Block 21. Type and Amount of Material Being Discharged and Surface Area of Wetlands or Other Waters Filled**

**Table 1. Discharge Amount and Type Associated with the Water Delivery System: Pipeline Installation**

PIPE INSTALL IN JURISDICTIONAL AREAS	TYPE OF MATERIAL	AMOUNT OF EXCAVATION IN JURISDICTIONAL AREAS		AMOUNT OF DISCHARGE IN JURISDICTIONAL AREAS	
		CUT QUANTITY (CY)*	SURFACE AREA CUT (AC)	FILL QUANTITY (CY)**	SURFACE AREA FILLED (AC)
<b>CONSTRUCT INVERTED SIPHON AT PIPELINE STATION 36+23 TO 37+30</b>					
CONSTRUCT TRENCH FOR PIPELINE	NATIVE SOIL	1,824	0.16	0	0
PLACE 48-IN DR 32.5 IPS HIGH DENSITY POLYETHYLENE PIPE (HDPE)	HIGH DENSITY POLYETHYLENE PIPE (HDPE)	0	0	6	0
INITIAL BACKFILL OF PIPELINE WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM)	CONTROLLED LOW STRENGTH MATERIAL (CLSM)	0	0	440	0
FINAL BACKFILL OF PIPELINE WITH NATIVE MATERIAL	NATIVE SOIL	0	0	1,378	0.16
<b>TOTAL</b>		<b>1,824</b>	<b>0.16</b>	<b>1,824</b>	<b>0.16</b>

**Table 2. Discharge Amount and Type Associated with Wetland Restoration: Grading and Water Control Plan**

GRADING & WATER CONTROL IN JURISDICTIONAL AREAS	TYPE OF MATERIAL	AMOUNT OF EXCAVATION IN JURISDICTIONAL AREAS		AMOUNT OF DISCHARGE IN JURISDICTIONAL AREAS	
		CUT QUANTITY (CY)*	SURFACE AREA CUT (AC)	FILL QUANTITY (CY)**	SURFACE AREA FILLED (AC)
<b>REACH 1</b>					
CONSTRUCT TRENCH FOR NON-NATIVE VEGETATION BURIAL	NATIVE SOIL	65,658	4.90	0	0
PLACE CLEARED & GRUBBED NON-NATIVE VEGETATION IN TRENCH	CLEARED & GRUBBED NON-NATIVE VEGETATION	0	0	43,919	0
PLACE SOIL CAP OVER BURIED NON-NATIVE VEGETATION	NATIVE SOIL	0	0	21,740	4.90
CONSTRUCT WETLAND CHANNELS	NATIVE SOIL	75,398	22.80	40,329***	6.00
CONSTRUCT DEEP POT MESQUITE AREAS	NATIVE SOIL	3,642	2.70	0	0
CONSTRUCT IRRIGATED MESQUITE AREAS	NATIVE SOIL	0	0	0	0
CONSTRUCT PERIMETER MAINTENANCE ROADS	NATIVE SOIL	0	0	109,236	13.47
CONSTRUCT WATER CONTROL STRUCTURES (x3)	STRUCTURAL CONCRETE	0	0	531	0.15
PLACE EROSION PROTECTION ROCK FOR WATER CONTROL STRUCTURES (x3)	RIP-RAP	0	0	105	0.03
<b>REACH 2</b>					
CONSTRUCT TRENCH FOR NON-NATIVE VEGETATION BURIAL	NATIVE SOIL	210,479	15.71	0	0
PLACE CLEARED & GRUBBED NON-NATIVE VEGETATION IN TRENCH	CLEARED & GRUBBED NON-NATIVE VEGETATION	0	0	140,788	0
PLACE SOIL CAP OVER BURIED NON-NATIVE VEGETATION	NATIVE SOIL	0	0	69,650	15.71
CONSTRUCT WETLAND CHANNELS	NATIVE SOIL	318,905	92.00	2,171	3.10
CONSTRUCT DEEP POT MESQUITE AREAS	NATIVE SOIL	6,833	7.20	0	0
CONSTRUCT IRRIGATED MESQUITE AREAS	NATIVE SOIL	0	0	0	0
CONSTRUCT PERIMETER MAINTENANCE ROADS	NATIVE SOIL	0	0	517,564	69.88
CONSTRUCT WATER CONTROL STRUCTURES (x1)	STRUCTURAL CONCRETE	0	0	177	0.05
PLACE EROSION PROTECTION ROCK FOR WATER CONTROL STRUCTURES (x1)	RIP-RAP	0	0	35	0.01
<b>HISTORIC CHANNEL REACH</b>					
CONSTRUCT WETLAND CHANNELS	NATIVE SOIL	83,775	29.90	0	0.00
<b>TOTAL</b>		<b>764,661</b>	<b>175.21</b>	<b>905,966</b>	<b>113.30</b>

\* Bank Run Quantity

\*\* In Place (Compacted) Quantity

\*\*\* Wetland channel construction in Reach 2 includes regrading/filling two existing deep, open water pockets to create additional marsh habitat for MSCP target threatened and endangered species (Yuma Clapper Rail and Black Rail)