

## Mitigation Plan

The City of League City and Texas Department of Transportation (TxDOT) propose the extension of Landing Boulevard and the NASA Road 1 Bypass (NASA 1) from FM 518 (West Main Street) in League City, Galveston County, to Interstate Highway 45 (I-45) in Webster, Harris County. Landing Boulevard is an existing arterial, north-south roadway that distributes traffic from southern League City to FM 518. The existing roadway typically consist of two, 12-foot lanes in each direction with a 15-foot grassy median. The proposed Landing Boulevard extension would extend Landing Boulevard from just north of FM 518 to connect to NASA 1 Bypass. The proposed project would include a bridge over Clear Creek with a length of 2,772 feet from approach-to-approach and a width of 77 feet. The proposed roadway and bridge would typically consist of two, 12-foot lanes in each direction; one, 10-foot shared use path to the west; and one, 5-foot sidewalk to the east. For the proposed project layout see above plan and profile exhibits.

Delineated and impacted acreages of jurisdictional Waters of the U.S., including wetlands, for the proposed project are summarized in Attachment A.

In accordance with the stated preference of Transportation Equity Act (TEA-21), COLC proposes to compensate for these losses through banking credits from the approved mitigation banks. COLC is proposing to mitigate for impacts through the purchase of credits at Gulf Coastal Plains Mitigation Bank, Katy Prairie Stream Mitigation Bank, and/or Mill Creek Mitigation Bank. Five herbaceous wetlands, five forested wetlands, two tidally influenced wetlands, and three streams were identified to be impacted with the proposed project.

The wetlands were assessed using the Interim Hydrogeomorphic Approach for Assessing Wetland Function (iHGM), specifically for Riverine Forested and Tidal Fringe. The streams were assessed using the Stream Condition Assessment – Level 1. Level 1 was used, due to right of entry access to some of the stream areas. The Functional Capacity Units (FCUs) calculated for the wetlands and waters within the project area are listed Table 1, below:

Table 1 - Functional Assessment Totals

Name:	Biota FCUs	Biological/Botanical FCUs	Physical FCUs	Chemical FCUs
<b>Herbaceous</b>				
Wetland 8	N/A	0.274	0.000	0.123
Wetland 9	N/A	0.005	0.000	0.003
Wetland 11	N/A	0.023	0.000	0.012
Wetland 12	N/A	0.011	0.000	0.005
Wetland 13	N/A	0.012	0.000	0.006
<b>Forested</b>				
Wetland 3	N/A	0.005	0.006	0.005
Wetland 4	N/A	0.002	0.003	0.003
Wetland 6	N/A	0.152	0.191	0.193
Wetland 7	N/A	0.006	0.007	0.006
Wetland 10	N/A	0.191	0.000	0.146
<b>Tidal Fringe</b>				
Wetland 1	0.001	0.000	0.001	0.001
Wetland 5	0.219	0.129	0.264	0.204
<b>Stream</b>				
	<b>Linear Feet of Impact</b>		<b>Conditional Index</b>	<b>Compensation</b>
Clear Creek	22		4.81	529
Tributary 2	295		1.68	991
Tributary 4	15		2.78	209

COLC proposes to mitigate for the potential loses of function at the approved mitigation banks: Gulf Coastal Plains Mitigation Bank, Katy Prairie Stream Mitigation Bank, and/or Mill Creek Mitigation Bank. The total proposed mitigation is summarized in Table 2.

Table 2 - Proposed Mitigation Credit Totals

Type:	Biota Credits:	Biological/Botanical Credits:	Physical Credits:	Chemical Credits:
Herbaceous	N/A	0.325	0.000	0.149
Forested	N/A	0.356	0.207	0.353
Tidal Fringe	0.220	0.129	0.265	0.205
	<b>Linear Feet of Impact</b>		<b>Compensation</b>	
Stream	332		1,729	