Appendix C

TXRAM Functional Analysis

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TXRAM FUNCTIONAL ANALYSIS

1.0 BACKGROUND

The U.S. Army Corps of Engineers, Fort Worth and Tulsa Districts (USACE) have developed a wetland and stream conditional assessment model, referred to as the Texas Rapid Assessment Method (TXRAM); the method is described in *The Texas Rapid Assessment Method (TXRAM), Wetlands and Streams Modules* (TXRAM Manual) (USACE 2010a). TXRAM provides a rapid, repeatable, field-based conditional assessment methodology for evaluating the ecological condition of wetlands and streams located within each District's area of responsibility in the state of Texas. This method generates a single overall score of wetland or stream integrity. As such, TXRAM does not focus on specific ecologic functions or societal values provided by wetlands and streams. The output from TXRAM will be used for calculating baseline conditions as well as post-project conditions associated with actions subject to Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act of 1899. The TXRAM Manual contains two separate modules, one for wetlands and one for streams, each of which describe the intended use, scope, background, procedures, and guidelines (*Note*: the assessment model does not apply to other open waters).

As part of this effort, the USACE has also developed an Aquatic Resource Compensation Calculator (ARCC) that has been used to perform the functional analysis on impacts from the Dallas Floodway Project to wetlands and the Trinity River.

2.0 EXISTING CONDITIONS

2.1 JURISDICTIONAL WETLANDS

A TXRAM assessment was performed by Halff Associates (Halff) for most of the emergent wetlands located in the Dallas Floodway Project area (Halff 2011). However, the emergent wetlands listed in Table C-1 did not receive a TXRAM field assessment in 2011. The TXRAM scores indicated in Table C-1 were inferred from other nearby wetlands, based on guidance provided in Section 2.2.7.2 of the TXRAM Manual (USACE 2010a). The nearby representative wetlands used to infer TXRAM scores are listed in Table C-2. Tables 6 and 7 of the 404(b)(1) Analysis list existing TXRAM scores and total areas for each of the impacted wetlands.

2.1 TRINITY RIVER

The existing Trinity River channel that would be impacted by river relocation (i.e., from the confluence of the Elm and West Forks to the Commerce Street Bridge) is 38,232 linear feet/134.2 acres and is classified as riverine. A TXRAM assessment performed for this reach of the Trinity River determined a score of 68.52 for the existing channel (Halff 2011).

Table C-1. Wetlands with Inferred TXRAM Scores

Wetland Number	Total Area (acres)	Inferred TXRAM Score	Wetlands Used to Infer TXRAM Scores
1	2.09	58.01	14, 15, 16, 19, 21, 22
2	0.52	58.01	14, 15, 16, 19, 21, 22
10	0.20	58.01	14, 15, 16, 19, 21, 22
11	0.55	58.01	14, 15, 16, 19, 21, 22
12	0.76	58.01	14, 15, 16, 19, 21, 22
13	0.50	58.01	14, 15, 16, 19, 21, 22
84	0.97	58.01	14, 15, 16, 19, 21, 22
86	0.48	60.59	60
87	0.14	58.77	50, 52
88	0.07	58.83	44
89	0.07	57.76	29
189	0.43	58.01	14, 15, 16, 19, 21, 22
188	0.16	58.01	14, 15, 16, 19, 21, 22
181	0.03	58.01	14, 15, 16, 19, 21, 22

Table C-2. Wetlands Used to Infer TXRAM Scores

Wetland Number	Area (acres)	TXRAM Score
Group 1*		
14	1.00	58.25
15	1.07	57.78
16	0.60	58.26
19	1.66	57.87
21	0.08	58.46
22	1.42	57.44
	Minimum	**57.44**
	Maximum	**58.46**
	Average	**58.01**
Group 2		
50	0.15	59.60
52	2.42	57.93
	Average	**58.77**

Note: * Nearby wetland numbers 4, 17, and 18 were not used because their TXRAM scores differed by more than 2 points for the Landscape Core Element score; nearby wetland numbers 5 and 20 were not used because their TXRAM scores differed by more than 5 points for the overall score (based on guidance in Section 2.2.7.2 of the TXRAM Manual [USACE 2010a]).

3.0 FUNCTIONAL ANALYSIS

3.1 ALTERNATIVE 2: PROPOSED ACTION WITH THE TRINITY PARKWAY

3.1.1 Jurisdictional Wetlands

3.1.1.1 Wetlands Enhanced/Restored Under the BVP

As described in Section 3.3.2.3 of the 404(b)(1) analysis, the BVP component of the Dallas Floodway Project would restore or enhance 178.53 acres of emergent and forested wetlands. The details for each of the enhanced/restored wetlands under the BVP Component of the Dallas Floodway Project are provided in Table C-3.

Future TXRAM Scores

For each enhanced/restored wetland, future TXRAM scores for "Release of Monitoring" and "At Maturity" are needed to perform the TXRAM functional analysis using the ARCC. "Release of Monitoring" is the year that the construction of the enhanced/restored wetland is complete based on the anticipated construction schedule for the Dallas Floodway Project, and "At Maturity" is 1 year after construction for emergent wetlands and 30 years are construction for forested wetlands.

TXRAM assessments were conducted for each wetland based on anticipated future conditions, as identified in the 35% designs (City of Dallas 2009b,c) and the Dallas Floodway Project Draft EIS. Specifically, the 35% designs and the Dallas Floodway Project Draft EIS provided details used to assess the Metric Scores for several of the Core Elements, including the surrounding landscape (connectivity and buffer), hydrology physical structure and biotic structure. Based on design and construction measures identified below under *Failure Risk*, the soils metric scores assumed that the future soils would be similar to soils in existing wetlands in the floodway. Guidelines in the TXRAM Manual (USACE 2010a) for assessing the created wetlands were followed, when available. The "At Release" and "At Maturity" scores are provided for each enhanced/restored wetland in Table C-3; the metric scores used to determine the TXRAM scores are provided in Attachment C-1.

Failure Risk

A *Failure Risk* was needed for each enhanced/restored wetland to perform the TXRAM functional analysis using the ARCC. Failure risk for constructed wetlands is associated with the hydrology, vegetation, and soils of the enhanced/restored wetland. To ensure that the enhanced/restored wetland would properly function, the design/construction plans and post project monitoring would include the following measures:

- Hydrology
  - The wetland would be designed to achieve the minimum requirement to meet the hydrology criteria as defined in the 1987 Wetland Delineation Manual and the Great Plains Regional Supplement (USACE 2010b). This would be achieved through either (1) locating the wetland at an elevation where it would receive sufficient inundation/saturation from the Trinity River or (2) designing the wetland as a depressional basin that would receive stormwater runoff from surrounding areas, overbank flows from the Trinity River and drainage sumps, or water from other artificial sources (e.g., pumped from the created lakes or Trinity River).
  - After grading is complete, the permittee would complete an "as built" survey to verify the target elevations identified in the designs were established and then install and monitor

groundwater piezometers (for minimum of 1 year of normal rainfall conditions) to identify and document that sufficient wetland hydrology is present, as required.

- Vegetation
  - The design would utilize a mixture of agency recommended native plants, as well as other native plants that are more common early successional species and easy to establish vegetative cover, to help ensure plant survival.
  - No plants would be installed until soils and hydrology criteria are met.
  - Ongoing maintenance would monitor and control invasives and monitor and replant native wetland plants, as needed.
- Soils
  - During construction, soils would be collected from wetland impact locations and stockpiled to be spread on the enhanced/restored areas. By using soils from the impact sites, there would be the added benefit of an incredible seed source as well as organic material.
  - The soils to be used for enhancement/restoration would be tested for nutrient, organics, and percolation and if they do not meet the minimum standards, additional organics/soil amendments/ripping would be added/completed until the standard is met.

By following the above measures, the *Failure Risk* would be low. The hydrology is the most difficult to achieve, while suitable soils can be developed and healthy plants can be planted. Without sufficient hydrology, the wetland would fail.

Most of the proposed wetlands would be designed as depressions, capable of storing water. For these wetlands, the source of water would be from either stormwater runoff from nearby urban areas, the Trinity Parkway, or BVP features; inundation when the flow in the Trinity River reaches 15,000 cfs (i.e., flow with an approximately 1.5 year return interval); or other artificial sources (e.g., pumped from the created lakes or Trinity River). These depressional wetlands are estimated to have a *Failure Risk* of 15%. The Lacustrine Fringe wetlands would be transitional and are designed to be at an elevation that receives partial inundation and saturation from fluctuating lake levels; these wetlands are estimated to have a *Failure Risk* of 15%. The River Terraces would be designed to be at an elevation completely inundated by Trinity River flows for at least 10-consecutive days during the growing season (i.e., from February 22 to December 11) for greater than 50% of the years (e.g., greater than 25 years out of 50 years). Due to some uncertainty and variations in climate, these wetlands are estimated to have a *Failure Risk* of 20%. The estimated *Failure Risk* for each of wetlands to be enhanced/restored under the BVP Component of the Dallas Floodway Project is provided in Table C-3.

Use of Forested Wetlands to Compensate for Impacts to Emergent Wetlands

A review of a 1928 aerial photograph (refer to Figure 2 in the *404(b)(1) Analysis*) identified large forested areas present in the current project area. The forested areas were located on floodplain areas adjacent to the Trinity River. Much of these areas have been converted to uplands or other wetland types such as emergent or open water.

Numerous studies have concluded that bottomland hardwood forests have been disappearing rapidly since the turn of this century in Texas as well as throughout the southeast, where they are most common. Most of the losses in Texas were from conversion to agriculture, water supply features, and other upland land uses (Moulton et al. 1997). Bottomland hardwood forests play an important role in controlling soil erosion, maintaining water quality by removing nutrients and toxicants, recharging groundwater,

floodwater storage, and flood attenuation. Bottomland hardwood areas are considered among the most important habitats for wildlife and are also rich in plant and animal species diversity (Wear and Gre2002).

Based on the historic extent of bottomland hardwood forests in the Study Area, the important functions and values that they provide, and the magnitude of the losses of this habitat to date, the habitat goal for a portion of the enhanced/restored wetland areas was to create forested wetlands, specifically bottomland hardwood forests.

3.1.1.2 Impact Determination

Methodology and Input Data

A functional analysis was performed using ARCC developed by the USACE. The inputs for the ARCC are summarized in Tables C-3 and C-4. Existing wetland areas that would also be wetland areas under Alternative 2 are identified as "Enhanced" in Table C-3 and as temporary impacts in Table C-4. Existing wetland areas that would be converted to upland or other WOUS (i.e., river, lakes, drainage sumps, etc.) are identified as permanent impacts in Table C-4. Wetland areas that would be created in existing wetland areas or other WOUS (i.e., river, lakes, drainage sumps, etc.) are identified as "Restored" in Table C-3.

Each wetland was categorized by which project component and feature would impact the wetland. A year of impact was assigned based on the anticipated construction schedule for the Dallas Floodway Project (Table C-4). Wetlands enhanced/restored under the BVP Component were also assigned a year started (i.e., year that construction of the wetland would be complete) based on the anticipated construction schedule for the Dallas Floodway Project (Table C-3). Impacted wetlands were sorted by project component and year of impact and then consecutively run through the ARCC (*Note*: wetlands with the same TXRAM score and impact timing were combined together into a single impact acreage and ARCC calculation). The functional analysis attempted to utilize the BVP wetland(s) with the closest year started to compensate for a given impact. The *Alternative 2 Wetland Impact and Compensation Matrix* in Attachment C-2 outlines the step by step process of compensation for impacts to each wetland/group of wetlands (starting in the upper left corner of the matric); each individual ARCC calculation sheet is also provided in Attachment C-2.

Results

Overall, 166.37 acres of emergent wetlands would be impacted under Alternative 2. The BVP Component of Alternative 2 would result in the enhancement/restoration of 178.53 acres of emergent and forested wetlands for a predicted net gain in wetland area of 12.16 acres. However, after compensating for all project impacts to jurisdictional wetlands (i.e., 166.37 acres) there would be an additional 40.82 acres of enhanced/restored wetlands predicted to be remaining (Table C-4 and Attachment C-2). Assuming a compensation ratio of 0.80 for this remaining area, a predicted net functional gain of 50.35 acres of wetlands would be expected under Alternative 2.

Table C-3. Wetlands Enhanced or Restored under the Alternative 2 BVP Component of the Dallas Floodway Project

BVP Wetland #[1]	Wetland Type[2]	Year Started[3]	Year Matured[3]	Failure Risk[4]	TXRAM Scores[5]			Wetland Area (acres)		
					Baseline	Future		Enhanced	Restored	Total
						At Release	At Maturity			
Flex Field Wetlands										
16	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21	0.01	2.28	2.29
21	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21		3.46	3.46
22	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21	0.01	2.31	2.32
23	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21		2.52	2.52
24	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21	0.55	2.27	2.82
25	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21	0.31	3.42	3.73
26	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21	0.19	1.27	1.46
27	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21		1.49	1.49
Meadow Wetlands										
11	Depressional/Emergent	2020	2021	15%	0.00	66.32	71.79	0.42		0.42
17	Riverine/Emergent	2024	2025	15%	0.00	70.65	79.46	1.84	1.56	3.40
18	Depressional/Emergent	2024	2025	15%	0.00	71.57	77.04	2.05	15.90	17.95
35	Riverine/Emergent	2025	2026	15%	0.00	67.15	72.63	0.77		0.77
Crow Lake Wetland										
31	Depressional/Emergent	2028	2029	15%	0.00	59.19	66.33	0.05	3.44	3.49
Corinth Wetlands										
59	Riverine/Emergent	2029	2030	15%	0.00	67.61	74.75	4.70	1.34	6.04
60	Riverine/Emergent	2029	2030	15%	0.00	67.82	74.96	38.27	39.47	77.74
Urban Lake Promenade Forested Ponds										
38	Depressional/Forested	2018	2048	15%	0.00	38.10	46.67		0.17	0.17
39	Depressional/Forested	2018	2048	15%	0.00	38.10	46.67		0.25	0.25
40	Depressional/Forested	2018	2048	15%	0.00	38.10	46.67		0.47	0.47
44	Depressional/Forested	2018	2048	15%	0.00	38.10	46.67		0.87	0.87
45	Depressional/Forested	2018	2048	15%	0.00	38.10	46.67		1.33	1.33

Table C-3. Wetlands Enhanced or Restored under the Alternative 2 BVP Component of the Dallas Floodway Project (cont.)

BVP Wetland #[1]	Wetland Type[2]	Year Started[3]	Year Matured[3]	Failure Risk[4]	TXRAM Scores[5]			Wetland Area (acres)		
					Baseline	Future		Enhanced	Restored	Total
						At Release	At Maturity			
Natural Lake Forested Pond										
58	Depressional/Forested	2017	2047	15%	0.00	44.35	52.92		6.68	6.68
West Dallas Lake Marshlands										
5	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41	0.25	0.83	1.08
6	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41		0.42	0.42
7	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41		0.21	0.21
8	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41		1.21	1.21
9	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41	0.11	0.63	0.74
10	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41		0.65	0.65
12	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41		0.83	0.83
13	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41	0.03	0.75	0.78
14	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41	0.04	1.11	1.15
Urban Lake Marshlands										
36	Lacustrine Fringe/Emergent	2018	2019	15%	0.00	57.18	64.33		0.05	0.05
37	Lacustrine Fringe/Emergent	2018	2019	15%	0.00	57.18	64.33		0.59	0.59
41	Lacustrine Fringe/Emergent	2018	2019	15%	0.00	57.18	64.33	0.10	0.12	0.22
42	Lacustrine Fringe/Emergent	2018	2019	15%	0.00	57.18	64.33	0.05	1.00	1.05
46	Lacustrine Fringe/Emergent	2018	2019	15%	0.00	57.18	64.33		0.10	0.10
Natural Lake Marshlands										
47	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66	0.05	0.46	0.51
48	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66		1.14	1.14
49	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66		2.14	2.14
52	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66		0.63	0.63
53	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66	0.03	0.45	0.48
54	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66	0.81	0.82	1.63

Table C-3. Wetlands Enhanced or Restored under the Alternative 2 BVP Component of the Dallas Floodway Project (cont.)

BVP Wetland #[1]	Wetland Type[2]	Year Started[3]	Year Matured[3]	Failure Risk[4]	TXRAM Scores[5]			Wetland Area (acres)		
					Baseline	Future		Enhanced	Restored	Total
						At Release	At Maturity			
River Terrace										
1	Riverine/Forested	2020	2050	20%	0.00	71.21	80.97		1.61	1.61
2	Riverine/Forested	2020	2050	20%	0.00	71.21	80.97		1.77	1.77
3	Riverine/Forested	2020	2050	20%	0.00	71.21	80.97	1.00	3.03	4.03
4	Riverine/Forested	2020	2050	20%	0.00	71.21	80.97	0.15	0.97	1.12
15	Riverine/Forested	2022	2052	20%	0.00	71.21	80.97		1.79	1.79
19	Riverine/Forested	2024	2054	20%	0.00	73.71	83.47	0.64	2.83	3.47
20	Riverine/Forested	2024	2054	20%	0.00	73.71	83.47	0.00	2.00	2.00
30	Riverine/Forested	2025	2055	20%	0.00	71.21	80.97		0.35	0.35
32	Riverine/Forested	2025	2055	20%	0.00	73.71	83.47		2.27	2.27
43	Riverine/Forested	2025	2055	20%	0.00	71.21	80.97	0.23	1.81	2.04
50	Riverine/Forested	2027	2057	20%	0.00	71.21	80.97	0.00	0.44	0.44
51	Riverine/Forested	2027	2057	20%	0.00	71.21	80.97		0.71	0.71
55	Riverine/Forested	2027	2057	20%	0.00	71.21	80.97	0.01	0.58	0.59
56	Riverine/Forested	2027	2057	20%	0.00	71.21	80.97	0.10	0.30	0.40
57	Riverine/Forested	2027	2057	20%	0.00	71.21	80.97	0.23	0.43	0.66
							Total	**53.00**	**125.53**	**178.53**

Notes

[1] Refer to figures in Appendix A for location of BVP Wetlands.

[2] Wetland type is based on definition in TXRAM Manual (USACE 2010a) and the type of vegetation to be used (emergent = herbaceous cover; forested = bottomland hardwood).

[3] *Year Started* is based on the anticipated construction schedule for the Dallas Floodway Project; *Year Matured* is based on *Year Started* plus 1 year for emergent wetlands and 30 years for forested wetlands to reach maturity.

[4] Refer to text for description of *Failure Risk.*

[5] Future TXRAM scores were based on the TXRAM assessments presented in Attachment C-1.

Table C-4. Jurisdictional Wetland Impacts and Compensation under Alternative 2

Existing Wetland Number	Total Area (acres)	TXRAM Score	Impacts (acres)			Year of Impact[1]	Impacting Feature	BVP Wetland Used to Compensate for Impacts	
			Temp	Perm	Total			BVP #(s)	Area Used (acres)[2]
FRM									
1, 188, and 189	2.68	58.01[3]		0.03	0.03	2017	Elm Fork Levee and West Fork Levee	47	0.03
9	4.17	59.50		0.02	0.02	2017	East Levee	47	0.02
16	0.6	58.26		0.01	0.01	2017	Borrow Pit	47	0.01
19	1.66	57.87	0.09	0.03	0.12	2017	Borrow Pit	47	0.11
20	3.73	60.97	0.18	0.50	0.68	2017	Borrow Pit	47, 48	0.62
44	23.82	58.33		0.08	0.08	2017	West Levee	48	0.07
IDP									
65	6.8	58.18		0.16	0.16	2017	Charlie Pumping Plant	48	0.14
9	4.17	59.5		0.11	0.11	2020	Hampton Pumping Plant	18	0.09
Ecosystem Other									
59	2.03	60.73		0.25	0.25	2017	Natural Lake	48	0.23
67	6.3	56.98	0.07	0.97	1.04	2017	Natural Lake	48, 49	0.89
68	8.88	56.63	0.26	0.18	0.44	2017	Natural Lake	49	0.38
48	2.61	55.46		0.36	0.36	2017	Urban Lake	49	0.34
52	2.42	57.93	0.10	0.10	0.20	2017	Urban Lake	49	0.17
54	7.95	58.96		0.86	0.86	2017	Urban Lake	49	0.76
29	7.9	57.76	0.01	1.41	1.42	2019	Flex Field	1, 2	1.07
36	20.85	60.38		11.31	11.31	2019	Flex Field	2, 3, 4, 15, 16	9.01
89	0.07	57.76[3]		0.07	0.07	2019	Flex Field	16	0.06
71	0.86	54.82		0.20	0.20	2024	Park Lands	24	0.14
69	57.13	59.26	34.26	2.27	36.53	2025	Corinth Wetland	24	30.9
4	11.83	58.91		6.16	6.16	2025	Horse Meadow	25, 26	4.64
5	0.2	55.91		0.20	0.20	2025	Horse Meadow	26	0.14
6	7.03	53.94		6.47	6.47	2025	Horse Meadow	26, 27, 19	4.37
32	6.49	55.27	0.56	2.14	2.70	2025	Horse Meadow	19, 20	1.84
15	1.07	57.78		0.39	0.39	2025	West Dallas Lake	20	0.28
16	0.6	58.26		0.02	0.02	2025	West Dallas Lake	20	0.01
19	1.66	57.87	0.02	0.05	0.07	2025	West Dallas Lake	20	0.05
22	1.42	57.44		1.08	1.08	2025	West Dallas Lake	20	0.77
26	1.29	55.63	0.02		0.02	2025	West Dallas Lake	20	0.01
27	3.98	57.52	0.04	2.74	2.78	2025	West Dallas Lake	20, 35, 30, 32	2.09
44	23.82	58.33		1.84	1.84	2026	Oak Cliff Parkland	60	1.51
53	4.24	58.07		0.11	0.11	2026	Oak Cliff Parkland	60	0.09

Table C-4. Jurisdictional Wetland Impacts and Compensation under Alternative 2 (cont.)

Existing Wetland Number	Total Area (acres)	TXRAM Score	Impacts (acres)			Year of Impact[1]	Impacting Feature	BVP Wetland Used to Compensate for Impacts	
			Temp	Perm	Total			BVP #(s)	Area Used (acres)[2]
Ecosystem Other (cont.)									
1, 2, 10, and 11	3.36	58.01[3]		0.86	0.86	2026	Confluence Fields	60	0.7
46	3.28	57.49	0.05		0.05	2027	Crow Park	60	0.04
Ecosystem River									
4	11.83	58.91	1.00	4.58	5.58	2018	River Relocation Phase 3a	58, 37	6.4
6	7.03	53.94		0.55	0.55	2018	River Relocation Phase 3a	58	0.59
14	1	58.25		0.01	0.01	2018	River Relocation Phase 3a	40	0.01
20	3.73	60.97	0.22	1.93	2.15	2018	River Relocation Phase 3a	40, 44, 45, 11	2.87
10, 11, 12, and 13	2.01	58.01[3]		1.83	1.83	2018	River Relocation Phase 3a	52, 58, 41, 42, 46, 38, 39	1.81
84 and 181	0.97	58.01[3]		1.00	1.00	2018	River Relocation Phase 3a	11, 1	0.79
9	4.17	59.5	0.42		0.42	2020	River Relocation Phase 3b	18	0.35
25	2.74	53.16		1.09	1.09	2020	River Relocation Phase 3b	18	0.8
26	1.29	55.63	0.01	0.01	0.01	2020	River Relocation Phase 3b	18	0.01
27	3.98	57.52		0.43	0.43	2020	River Relocation Phase 3b	18	0.34
29	7.9	57.76		0.80	0.80	2020	River Relocation Phase 3b	18	0.64
31	11.64	53.95	2.44	0.29	2.73	2022	River Relocation Phase 4a	18	1.98
32	6.49	55.27	0.49	0.63	1.12	2022	River Relocation Phase 4a	18	0.85
33	5.19	58.09	2.06	2.45	4.51	2022	River Relocation Phase 4a	18	3.53
36	20.85	60.38	0.04	0.43	0.47	2022	River Relocation Phase 4a	18	0.39
44	23.82	58.33	1.00	12.35	13.35	2023	River Relocation Phase 4b	18, 21, 22, 23	10.27
46	3.28	57.49		1.47	1.47	2023	River Relocation Phase 4b	23, 24	1.11
48	2.61	55.46		1.26	1.26	2023	River Relocation Phase 4b	24	0.92
52	2.42	57.93		0.90	0.90	2023	River Relocation Phase 4b	24	0.69
53	4.24	58.07		4.13	4.13	2025	River Relocation Phase 5	32, 43	3.05
56	0.95	56.26		0.95	0.95	2025	River Relocation Phase 5	43, 5	0.78
59	2.03	60.73	0.05	0.30	0.35	2025	River Relocation Phase 5	5	0.34
60	1.7	60.59		1.70	1.70	2025	River Relocation Phase 5	5, 6, 7, 8	1.65
65	6.8	58.18	0.14	6.17	6.31	2025	River Relocation Phase 5	8, 9, 10, 12, 13, 14, 50, 51	5.66
66	8.2	58.26		0.23	0.23	2025	River Relocation Phase 5	51, 55	0.18
67	6.3	56.98	0.67	1.37	2.04	2025	River Relocation Phase 5	55, 56, 57	1.54
68	8.88	56.63	2.02	2.16	4.18	2025	River Relocation Phase 5	57, 31, 59	3.76
69	57.13	59.26	6.73	3.49	10.22	2025	River Relocation Phase 5	59, 60	8.68

Table C-4. Jurisdictional Wetland Impacts and Compensation under Alternative 2 (cont.)

Existing Wetland Number	Total Area (acres)	TXRAM Score	Impacts (acres)			Year of Impact[1]	Impacting Feature	BVP Wetland Used to Compensate for Impacts	
			Temp	Perm	Total			BVP #(s)	Area Used (acres)[2]
Ecosystem River (cont.)									
71	0.86	54.82		0.15	0.15	2025	River Relocation Phase 5	60	0.12
85	1.82	56.23	0.05	1.05	1.10	2025	River Relocation Phase 5	60	0.88
86	0.48	60.59[3]		0.48	0.48	2025	River Relocation Phase 5	60	0.42
Recreation									
27	3.98	57.52		0.66	0.66	2017	Park Road	49, 52	0.56
59	2.03	60.73		0.09	0.09	2017	Natural Lake	52	0.08
48	2.61	55.46		0.71	0.71	2017	Urban Lake	53, 54	0.59
52	2.42	57.93		0.12	0.12	2017	Urban Lake	54	0.14
54	7.95	58.96		1.72	1.72	2017	Urban Lake	54, 36, 37	1.57
87	0.14	58.77[3]		0.14	0.14	2017	Urban Lake	37	0.13
12	0.76	58.01[3]		0.03	0.03	2019	Flex Field	16	0.02
14	1	58.25		0.98	0.98	2019	Flex Field	16	0.8
15	1.07	57.78		0.68	0.68	2019	Flex Field	16	0.55
29	7.9	57.76		5.45	5.45	2019	Flex Field	16, 17, 18	4.41
36	20.85	60.38		6.36	6.36	2019	Flex Field	18	5.41
4	11.83	58.91		0.08	0.08	2024	Primary Path	24	0.06
68	8.88	56.63		0.08	0.08	2024	Primary Path	24	0.06
69	57.13	59.26		0.27	0.27	2024	Primary Path	24	0.21
16	0.6	58.26		0.01	0.01	2025	West Dallas Lake	60	0.01
19	1.66	57.87		0.02	0.02	2025	West Dallas Lake	60	0.02
1	2.09	58.01[3]		0.07	0.07	2027	Service Drive	60	0.06
32	6.49	55.27		0.14	0.14	2027	Service Drive	60	0.11
46	3.28	57.49		0.20	0.20	2027	Crow Park	60	0.16
22	1.42	57.44		0.33	0.33	2029	Equestrian Trail	60	0.26
44	23.82	58.33		0.06	0.06	2029	Equestrian Trail	60	0.05
Total Impacts			**53.00**	**1**	**166.37**				
Remaining Area and Net Functional Gain									
Left over acreage from BVP-60[4]									**40.82**
Net Functional Gain[5]									**50.35**

Notes
[1] *Year of Impact* is based on the anticipated construction schedule for the Dallas Floodway Project.
[2] *Area Used* is the area of the BVP wetland used to compensate for the lost function of the impacted existing wetland.
[3] TXRAM scores are inferred from other sites as described in Appendix C, Section 2.1.
[4] This is the area left over area of BVP wetlands after all project impacts have been compensated for; refer to *Impact and Compensation Matrix* in Attachment C-2.
[5] The *Net Functional Gain* is determined by dividing the left over 40.82 acres by 0.80 (i.e., the approximate Compensation Ratio for BVP wetlands).

3.1.2 Trinity River

3.1.2.1 River Relocation

The relocation of the Trinity River would impact 38,232 linear feet/134.2 acres of the existing Trinity River channel. As described in Section 1.2 of the 404(b)(1) Analysis and shown in Table C-5, the Trinity River relocation would occur in five sequential phases starting from the confluence of the Elm and West Forks in 2019 and ending at the Corinth Street Bridge in 2026. The more sinuous configuration of the river would result in the river channel in the impacted area increasing to 39,967 linear feet/209.7 acres.

Future TXRAM Scores

TXRAM assessments were conducted for each of the five stream assessment reaches (SARs) (Table C-5) based on anticipated future conditions, as identified in the 35% designs (City of Dallas 2009b,c) and the Dallas Floodway Project Draft EIS. Specifically, the 35% designs and the Dallas Floodway Project Draft EIS provided details used to assess the Metric Scores for several of the Core Elements, including the channel condition, riparian buffer condition, and in-stream condition. It was assumed that the Metric Scores for hydrologic condition would be the same as existing conditions. The "At Release" and "At Maturity" scores are provided for each of the five SARs in Table C-5; the detailed metric scores used to determine the TXRAM scores are provided in Attachment C-1. The design of the relocated river channel and other BVP ecosystem restoration/enhancement components (including planting of native woodland/riparian habitats) are anticipated to result in an increase of TXRAM scores by 9.7 to 15.7 from existing scores (Table C-5).

Failure Risk

Failure risk for each of the five SARs was determined to be 15%. This was based on extensive engineering used to develop the design of the river relocation. Extensive analysis, including independent review, associated with the channel design in relation to these specific constraints is detailed in the *Trinity River Corridor Project: Fluvial Geomorphic Assessment and Basis of River Realignment Design* (City of Dallas 2009b) which guided the ultimate channel plan, profile, dimension and location. Further consideration was also given to ensure the river channel would be stable.

3.1.2.1 Impact Determination

Methodology and Input Data

A functional analysis was performed using ARCC developed by the USACE. Impacts to each of the individual impacted SARs was compensated with the corresponding restored river segment (Table C-5).

Results

Overall, 38,232 linear feet/134.2 acres of emergent would be impacted from the relocation of the Trinity River under Alternative 2. However, the new Trinity River channel under Alternative 2 would result in the enhancement/restoration of 39,967 linear feet/209.7 acres of riverine habitat for a predicted net functional gain of 6,938 linear feet (*Note*: the functional analysis only considered impacts/compensation to linear feet for a riverine system).

Table C-5. Summary of Impacts and Functional Analysis for the Trinity River

SAR[1]	Stream Segment	Impact Year	Year Started	TXRAM Scores[2]			Impact to Existing (linear feet/acres)	Required Restoration/ Enhancement (linear feet)[3]	Proposed Restoration (linear feet/acres)	Net Functional Gain/Loss (linear feet)
				Existing	Future					
					At Release	At Maturity				
24-1	Confluence of the Elm and West Forks to the North Westmoreland Bridge	2019	2020	68.52	78.08	82.33	7,439/ 22.6	6,394	7,657/ 43.0	+1,263
24-2	North Westmoreland Bridge to the Hampton/Inwood Bridge	2020	2021	68.52	78.83	83.33	5,893/ 16.6	5,009	6,269/ 33.7	+1,260
24-3	Hampton/Inwood Bridge to the Sylvan Bridge	2022	2024	68.52	79.58	84.08	6,844/ 18.2	6,130	7,179/ 36.6	+1,049
24-4	Sylvan Bridge to the Commerce Street Bridge	2024	2025	68.52	74.71	78.21	7,268/ 23.7	6,512	7,558/ 38.2	+1,046
24-5	Commerce Street Bridge to the Corinth Street Bridge	2026	2027	68.52	79.58	84.21	10,788/ 53.1	8,985	11,305/ 58.2	+2,320
						Total	**38,232/ 134.2**	**33,030**	**39,967/ 209.7**	**+6,938**

Notes: [1] Refer to figures in Appendix A.
[2] Existing TXRAM Scores are from Halff 2011. Future TXRAM Scores are based on future conditions outlined in the 35% design plans; refer to Attachment C-1 for the data used to determine these TXRAM scores.
[3] The required restoration/enhancement is based on results from the ARCC; refer to Attachment C-2 for results for each SAR.

3.2 ALTERNATIVE 3: PROPOSED ACTION WITHOUT THE TRINITY PARKWAY

3.2.1 Jurisdictional Wetlands

3.2.1.1 Wetlands Enhanced/Restored Under the BVP

As described in Section 3.3.2.4 of the 404(b)(1) Analysis, the BVP component of the Dallas Floodway Project would enhance or restore 182.46 acres of emergent and forested wetlands. The details for each of the enhanced/restored wetlands under the BVP Component of the Dallas Floodway Project are provided in Table C-6.

Future TXRAM Scores

The "At Release" and "At Maturity" future TXRAM scores were assessed as described for Alternative 2 (Section 3.1.1.1) and are provided for each enhanced/restored wetland in Table C-6; the detailed metric scores used to determine the TXRAM scores are provided in Attachment C-1.

Failure Risk

The estimated *Failure Risk* for each of wetlands to be enhanced/restored under the BVP Component of the Dallas Floodway Project was determined as described for Alternative 2 (Section 3.1.1.1) and is provided in Table C-6.

3.2.1.2 Impact Determination

Methodology and Input Data

The methodology for the Alternative 3 functional analysis is the same as described for Alternative 2 (Section 3.1.1.2) and the input data used for analysis is provided in Tables C-6 and C-7. The *Alternative 3 Wetland Impact and Compensation Matrix* in Attachment C-3 outlines the step by step process of compensation for impacts to each wetland/group of wetlands; each individual ARCC calculation sheet is also provided in Attachment C-3.

Results

Overall, 214.50 acres of emergent wetlands would be impacted under Alternative 3. The BVP Component of Alternative 3 would result in the enhancement/restoration of 182.46 acres of emergent and forested wetlands for a predicted net loss in wetland area of 32.09 acres. However, after compensating for all project impacts to jurisdictional wetlands (i.e., 214.50 acres) there would be an additional 2.95 acres predicted to be remaining (Table C-7 and Attachment C-3). Assuming a compensation ratio of 0.80 for this remaining area, a predicted net functional gain of 3.69 acres of wetlands would be expected under Alternative 3.

Table C-6. Wetlands Enhanced or Restored under the Alternative 3 BVP Component of the Dallas Floodway Project

BVP Wetland #[1]	Wetland Type[2]	Year Started[3]	Year Matured[3]	Failure Risk[4]	TXRAM Scores[5]			Wetland Area (acres)		
					Baseline	Future		Enhanced	Restored	Total
						At Release	At Maturity			
Flex Field Wetlands										
16	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21	0.01	2.28	2.29
21	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21		3.44	3.44
22	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21	0.07	2.23	2.30
23	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21		2.51	2.51
24	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21	0.59	2.21	2.80
25	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21	0.33	3.39	3.72
26	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21	0.20	1.25	1.45
27	Depressional/Emergent	2024	2025	15%	0.00	71.07	78.21		1.49	1.49
Meadow Wetlands										
11	Depressional/Emergent	2020	2021	15%	0.00	66.32	71.79	0.41		0.41
17	Riverine/Emergent	2024	2025	15%	0.00	70.65	79.46	1.81		1.81
18	Depressional/Emergent	2024	2025	15%	0.00	71.57	77.04	2.78	22.90	25.68
35	Riverine/Emergent	2025	2026	15%	0.00	67.15	72.63	0.77		0.77
Corinth Wetlands										
59	Riverine/Emergent	2029	2030	15%	0.00	67.61	74.75	5.54	0.47	6.01
60	Riverine/Emergent	2029	2030	15%	0.00	67.82	74.96	42.03	37.10	79.13
Urban Lake Promenade Forested Ponds										
40	Depressional/Forested	2018	2048	15%	0.00	38.10	46.67		1.88	1.88
44	Depressional/Forested	2018	2048	15%	0.00	38.10	46.67		0.90	0.90
45	Depressional/Forested	2018	2048	15%	0.00	38.10	46.67		0.90	0.90
Natural Lake Forested Pond										
58	Depressional/Forested	2017	2047	15%	0.00	44.35	52.92		6.62	6.62

Table C-6. Wetlands Enhanced or Restored under the Alternative 3 BVP Component of the Dallas Floodway Project (cont.)

BVP Wetland #[1]	Wetland Type[2]	Year Started[3]	Year Matured[3]	Failure Risk[4]	TXRAM Scores[5]			Wetland Area (acres)		
					Baseline	Future		Enhanced	Restored	Total
						At Release	At Maturity			
West Dallas Lake Marshlands										
5	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41	0.28	0.77	1.05
6	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41		0.43	0.43
7	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41		0.20	0.20
8	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41		1.20	1.20
9	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41	0.13	0.62	0.75
10	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41		0.64	0.64
12	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41		0.82	0.82
13	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41	0.03	0.76	0.79
14	Lacustrine Fringe/Emergent	2027	2028	15%	0.00	58.27	65.41	0.04	1.10	1.14
Urban Lake Marshlands										
36	Lacustrine Fringe/Emergent	2018	2019	15%	0.00	57.18	64.33		0.05	0.05
37	Lacustrine Fringe/Emergent	2018	2019	15%	0.00	57.18	64.33		0.59	0.59
42	Lacustrine Fringe/Emergent	2018	2019	15%	0.00	57.18	64.33	0.08	0.94	1.02
46	Lacustrine Fringe/Emergent	2018	2019	15%	0.00	57.18	64.33	0.04	0.15	0.19
Natural Lake Marshlands										
47	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66	0.11	0.39	0.50
48	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66		0.67	0.67
49	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66		2.14	2.14
52	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66		0.87	0.87
53	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66		0.48	0.48
54	Lacustrine Fringe/Emergent	2017	2018	15%	0.00	60.52	67.66	0.69	0.92	1.61

Table C-6. Wetlands Enhanced or Restored under the Alternative 3 BVP Component of the Dallas Floodway Project (cont.)

BVP Wetland #[1]	Wetland Type[2]	Year Started[3]	Year Matured[3]	Failure Risk[4]	TXRAM Scores[5]			Wetland Area (acres)		
					Baseline	Future		Enhanced	Restored	Total
						At Release	At Maturity			
River Terrace										
1	Riverine/Forested	2020	2050	20%	0.00	71.21	80.97		1.62	1.62
2	Riverine/Forested	2020	2050	20%	0.00	71.21	80.97		1.77	1.77
3	Riverine/Forested	2020	2050	20%	0.00	71.21	80.97	1.03	2.98	4.01
4	Riverine/Forested	2020	2050	20%	0.00	71.21	80.97	0.12	1.00	1.12
15	Riverine/Forested	2022	2052	20%	0.00	71.21	80.97		1.80	1.80
19	Riverine/Forested	2024	2054	20%	0.00	73.71	83.47	0.69	2.76	3.45
20	Riverine/Forested	2024	2054	20%	0.00	73.71	83.47		2.00	2.00
30	Riverine/Forested	2025	2055	20%	0.00	71.21	80.97		0.35	0.35
32	Riverine/Forested	2025	2055	20%	0.00	73.71	83.47		2.27	2.27
43	Riverine/Forested	2025	2055	20%	0.00	71.21	80.97	0.45	1.58	2.03
50	Riverine/Forested	2027	2057	20%	0.00	71.21	80.97	0.02	0.42	0.44
51	Riverine/Forested	2027	2057	20%	0.00	71.21	80.97		0.70	0.70
55	Riverine/Forested	2027	2057	20%	0.00	71.21	80.97	0.06	0.52	0.58
56	Riverine/Forested	2027	2057	20%	0.00	71.21	80.97	0.23	0.17	0.40
57	Riverine/Forested	2027	2057	20%	0.00	71.21	80.97	0.48	0.19	0.67
							Total	**59.02**	**123.44**	**182.46**

Notes

[1] Refer to figures in Appendix A for location of BVP Wetlands.

[2] Wetland type is based on definition in TXRAM Manual (USACE 2010a) and the type of vegetation to be used (emergent = herbaceous cover; forested = bottomland hardwood).

[3] *Year Started* is based on the anticipated construction schedule for the Dallas Floodway Project; *Year Matured* is based on *Year Started* plus 1 year for emergent wetlands and 30 years for forested wetlands to reach maturity.

[4] Refer to text for description of *Failure Risk.*

[5] Future TXRAM scores were based on the TXRAM assessments presented in Attachment C-1.

Table C-7. Jurisdictional Wetland Impacts and Compensation under Alternative 3

Existing Wetland Number	Total Area (acres)	TXRAM Score	Impacts (acres)			Year of Impact[1]	Impacting Feature	BVP Wetland Used to Compensate for Impacts	
			Temp	Perm	Total			BVP #(s)	Area Used (acres)[2]
FRM									
1, 188, and 189	2.68	58.01[3]		0.03	0.03	2017	Elm Fork Levee and West Fork Levee	54, 58	0.03
9	4.17	59.50		0.02	0.02	2017	East Levee	47	0.02
16	0.60	58.26		0.58	0.58	2017	Borrow Pit	47, 48	0.51
17	10.63	56.97		0.04	0.04	2017	Borrow Pit	48	0.03
18	25.68	60.56		1.45	1.45	2017	Borrow Pit	48, 49	1.32
19	1.66	57.87	0.12	1.45	1.57	2017	Borrow Pit	49	1.37
20	3.73	60.97	0.22	1.22	1.44	2017	Borrow Pit	49, 52, 53	1.32
21	3.44	58.46		0.08	0.08	2017	Borrow Pit	53	0.07
25	2.74	53.16		1.60	1.60	2017	Borrow Pit	53, 54	1.28
26	1.29	55.63		0.10	0.10	2017	Borrow Pit	54	0.08
44	23.82	58.33		0.08	0.08	2017	West Levee	54	0.07
66	8.20	58.26		0.24	0.24	2017	East Levee	54	0.21
IDP									
65	6.8	58.18		0.16	0.16	2017	Charlie Pumping Plant	58	0.19
9	4.17	59.5		0.11	0.11	2020	Hampton Pumping Plant	18	0.09
Ecosystem Other									
59	2.03	60.73	0.11	1.32	1.43	2017	Natural Lake	58	1.73
65	6.80	58.18		0.01	0.01	2017	Natural Lake	58	0.01
66	8.20	58.26		3.46	3.46	2017	Natural Lake	58	4.02
67	6.30	56.98	0.14	0.76	0.90	2017	Natural Lake	58, 36, 37	1.13
68	8.88	56.63	0.71	0.09	0.80	2017	Natural Lake	37, 42	0.73
48	2.61	55.46		0.62	0.62	2017	Urban Lake	42, 46	0.55
52	2.42	57.93		0.14	0.14	2017	Urban Lake	46, 40	0.76
54	7.95	58.96	0.04	1.96	2.00	2017	Urban Lake	40, 44, 45	2.72
29	7.9	57.76	0.01	1.57	1.58	2019	Flex Field	21, 22	1.25
36	20.85	60.38		11.80	11.80	2019	Flex Field	22, 23, 24, 25	9.9
89	0.07	57.76[3]		0.07	0.07	2019	Flex Field	25	0.06
71	0.86	54.82		0.41	0.41	2024	Park Lands	20	0.28
69	57.13	59.26	37.67	6.65	44.32	2025	Corinth Wetland	18, 20, 60	37.3
4	11.83	58.91		6.17	6.17	2025	Horse Meadow	35, 30, 32, 43	4.68
5	0.2	55.91		0.20	0.20	2025	Horse Meadow	43	0.14
6	7.03	53.94		6.47	6.47	2025	Horse Meadow	43, 5, 6, 7, 8, 9, 10, 12	5.43

Table C-7. Jurisdictional Wetland Impacts and Compensation under Alternative 3 (cont.)

Existing Wetland Number	Total Area (acres)	TXRAM Score	Impacts (acres)			Year of Impact[1]	Impacting Feature	BVP Wetland Used to Compensate for Impacts	
			Temp	Perm	Total			BVP #(s)	Area Used (acres)[2]
Ecosystem Other (cont.)									
32	6.49	55.27	0.52	4.42	4.94	2025	Horse Meadow	12, 13, 14, 50, 51, 55, 56	3.94
33	5.19	58.09	0.14		0.14	2025	Horse Meadow	56	0.11
15	1.07	57.78		0.32	0.32	2025	West Dallas Lake	56	0.25
16	0.6	58.26		0.02	0.02	2025	West Dallas Lake	56, 57	0.02
19	1.66	57.87	0.01	0.06	0.07	2025	West Dallas Lake	57	0.05
22	1.42	57.44		1.06	1.06	2025	West Dallas Lake	57, 59	0.82
26	1.29	55.63	0.02		0.02	2025	West Dallas Lake	59	0.02
27	3.98	57.52	0.04	2.83	2.87	2025	West Dallas Lake	59	2.37
42	1.02	53.74		0.02	0.02	2026	Oak Cliff Parkland	60	0.02
44	23.82	58.33		2.45	2.45	2026	Oak Cliff Parkland	60	2.02
53	4.24	58.07		0.12	0.12	2026	Oak Cliff Parkland	60	0.1
1, 2, 10, and 11	3.36	58.01[3]		0.86	0.86	2026	Confluence Fields	60	0.7
46	3.28	57.49		0.22	0.22	2027	Crow Park	60	0.18
Ecosystem River									
4	11.83	58.91	1.03	4.56	5.59	2018	River Relocation Phase 3a	3, 4, 15, 16	4.46
6	7.03	53.94		0.55	0.55	2018	River Relocation Phase 3a	16	0.42
9	4.17	59.5	0.41		0.41	2020	River Relocation Phase 3b	18	0.34
14	1.00	58.25		0.01	0.01	2018	River Relocation Phase 3a	16	0.01
20	3.73	60.97	0.18	2.11	2.29	2018	River Relocation Phase 3a	16, 21	1.97
25	2.74	53.16		1.12	1.12	2020	River Relocation Phase 3b	18	0.83
26	1.29	55.63	0.01	0.55	0.56	2020	River Relocation Phase 3b	18	0.43
27	3.98	57.52		0.38	0.38	2020	River Relocation Phase 3b	18	0.3
29	7.90	57.76		0.82	0.82	2020	River Relocation Phase 3b	18	0.66
31	11.64	53.95	2.44	0.37	2.81	2022	River Relocation Phase 4a	18	2.04
32	6.49	55.27	0.69	0.56	1.25	2022	River Relocation Phase 4a	18	0.93
33	5.19	58.09	2.64	2.40	5.04	2022	River Relocation Phase 4a	18	3.95
36	20.85	60.38	0.04	0.44	0.48	2022	River Relocation Phase 4a	18	0.39
44	23.82	58.33	1.22	11.42	12.64	2023	River Relocation Phase 4b	18, 19	9.78
46	3.28	57.49		1.56	1.56	2023	River Relocation Phase 4b	19	1.14
48	2.61	55.46		1.26	1.26	2023	River Relocation Phase 4b	19	0.89
52	2.42	57.93	0.03	1.23	1.26	2023	River Relocation Phase 4b	19, 20	0.93
53	4.24	58.07		4.12	4.12	2025	River Relocation Phase 5	59, 60	3.43

Table C-7. Jurisdictional Wetland Impacts and Compensation under Alternative 3 (cont.)

Existing Wetland Number	Total Area (acres)	TXRAM Score	Impacts (acres)			Year of Impact[1]	Impacting Feature	BVP Wetland Used to Compensate for Impacts	
			Temp	Perm	Total			BVP #(s)	Area Used (acres)[2]
Ecosystem River (cont.)									
54	7.95	58.96		0.25	0.25	2025	River Relocation Phase 5	60	0.24
56	0.95	56.26		0.95	0.95	2025	River Relocation Phase 5	60	0.76
59	2.03	60.73		0.45	0.45	2025	River Relocation Phase 5	60	0.39
60	1.70	60.59		1.70	1.70	2025	River Relocation Phase 5	60	1.47
65	6.80	58.18	0.30	6.33	6.63	2025	River Relocation Phase 5	60	5.52
66	8.20	58.26		4.10	4.10	2025	River Relocation Phase 5	60	3.42
67	6.30	56.98	0.54	4.86	5.40	2025	River Relocation Phase 5	60	4.4
68	8.88	56.63	2.88	5.19	8.07	2025	River Relocation Phase 5	60	6.54
69	57.13	59.26	6.79	5.89	12.68	2025	River Relocation Phase 5	60	10.75
71	0.86	54.82		0.26	0.26	2025	River Relocation Phase 5	60	0.2
85	1.82	56.23	0.05	1.77	1.82	2025	River Relocation Phase 5	60	1.46
86	0.48	60.59[3]	0.02	0.46	0.48	2025	River Relocation Phase 5	60	0.42
10, 11, 12, 13, 84, and 181	2.01	58.01[3]		2.83	2.83	2018	River Relocation Phase 3a	21	2.31
Recreation									
1	2.09	58.01[3]		0.06	0.06	2027	Service Drive	60	0.05
4	11.83	58.91		0.07	0.07	2024	Primary Path	20	0.05
12	0.76	58.01[3]		0.03	0.03	2019	Flex Field	25	0.02
14	1	58.25		0.99	0.99	2019	Flex Field	25, 26	0.8
15	1.07	57.78		0.75	0.75	2019	Flex Field	26	0.6
19	1.66	57.87		0.01	0.01	2025	West Dallas Lake	60	0.01
22	1.42	57.44		0.36	0.36	2029	Equestrian Trail	60	0.28
25	2.74	53.16		0.01	0.01	2025	West Dallas Lake	60	0.01
26	1.29	55.63		0.62	0.62	2025	West Dallas Lake	60	0.49
27	3.98	57.52		0.73	0.73	2017	Park Road	45, 11, 1	0.71
29	7.9	57.76		5.59	5.59	2019	Flex Field	26, 27, 17, 18	4.47
32	6.49	55.27		0.30	0.30	2027	Service Drive	60	0.23
36	20.85	60.38		5.87	5.87	2019	Flex Field	18	4.98
44	23.82	58.33		0.21	0.21	2029	Equestrian Trail	60	0.17
46	3.28	57.49		1.49	1.49	2027	Crow Park	60	1.19
48	2.61	55.46		0.73	0.73	2017	Urban Lake	1	0.54
50	0.04	59.60		0.15	0.15	2017	Urban Lake	1	0.12
52	2.42	57.93		1.02	1.02	2017	Urban Lake	1, 2	0.8

Table C-7. Jurisdictional Wetland Impacts and Compensation under Alternative 3 (cont.)

Existing Wetland Number	Total Area (acres)	TXRAM Score	Impacts (acres)			Year of Impact[1]	Impacting Feature	BVP Wetland Used to Compensate for Impacts	
			Temp	Perm	Total			BVP #(s)	Area Used (acres)[2]
Recreation (cont.)									
54	7.95	58.96		5.70	5.70	2017	Urban Lake	2, 3	4.52
59	2.03	60.73		0.15	0.15	2017	Natural Lake	1	0.12
66	8.20	58.26		0.40	0.40	2017	Natural Lake	1	0.31
68	8.88	56.63		0.03	0.03	2024	Primary Path	20	0.02
69	57.13	59.26		0.13	0.13	2024	Primary Path	20	0.1
71	0.86	54.82		0.20	0.20	2024	Park Lands	20	0.15
87	0.14	58.77[3]		0.14	0.14	2017	Urban Lake	3	0.11
Total Impacts			**59.02**	**155.48**	**214.50**				
Remaining Area and Net Functional Gain									
Left over acreage from BVP-60[4]									**2.95**
Net Functional Gain[5]									**3.69**

Notes

[1] *Year of Impact* is based on the anticipated construction schedule for the Dallas Floodway Project.

[2] *Area Used* is the area of the BVP wetland used to compensate for the lost function of the impacted existing wetland.

[3] TXRAM scores are inferred from other sites as described in Appendix C, Section 2.1.

[4] This is the area left over area of BVP wetlands after all project impacts have been compensated for; refer to *Impact and Compensation Matrix* in Attachment C-2.

[5] The *Net Functional Gain* is determined by dividing the left over 40.82 acres by 0.80 (i.e., the approximate Compensation Ratio for BVP wetlands).

3.2.2 Trinity River

The functional analysis for impacts to the Trinity River under Alternative 3 would be the same as described under Alternative 2.

4.0 REFERENCES

City of Dallas. 2009b. Trinity River Corridor Project: Fluvial Geomorphic Assessment and Basis of River Realignment Design. Prepared by CH2M HILL. September.

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Attachment C-1

TXRAM Assessments for Anticipated Future Conditions

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TXRAM Assessments for Anticipated Future Conditions of Wetlands to be Enhanced/Restored under the BVP Component of the Dallas Floodway Project

Wetland Name		Corinth Wetlands		Corinth Island		River Terrace		River Terrace		Flex Field Wetlands		Meadow Wetlands		Meadow Wetlands		Meadow Wetlands		Meadow Wetlands	
Wetland Type		Riverine/Emergent		Riverine/Emergent		Riverine/Forested		Riverine/Forested		Depressional/ Emergent		Depressional/ Emergent		Riverine/Emergent		Depressional/ Emergent		Riverine/Emergent	
WAA		BVP-60		BVP-59		BVP-1, 2, 3, 4, 15, 30, 43, 50, 51, 55, 56, 57		BVP-19, 20, 32		BVP-21, 22, 23, 24, 25, 26, 27		BVP-11		BVP-17		BVP-18		BVP-35	
Time Frame		Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity
Landscape																			
Connectivity		4	4	3	3	3	3	4	4	4	4	4	4	4	4	4	4	3	3
Data Entry Connection to Aquatic Resources		6	6	5	5	4	4	7	7	6	6	7	7	7	7	8	8	4	4
Buffer (types below)	Score	2.65	2.65	2.90	2.90	2.15	2.15	2.15	2.15	1.95	1.95	2.05	2.05	2.45	2.45	2.15	2.15	2.05	2.05
Data Entry Woodlands/Riparian	4	25%	25%	5%	5%	10%	10%	10%	10%	5%	5%			10%	10%	5%	5%	5%	5%
Data Entry Wetlands/Riverine	3	50%	50%	90%	90%	35%	35%	35%	35%	25%	25%	20%	20%	35%	35%	25%	25%	50%	50%
Data Entry Meadow	2					35%	35%	35%	35%	50%	50%	70%	70%	50%	50%	55%	55%	10%	10%
Data Entry Grassland	1	15%	15%									5%	5%			10%	10%	15%	15%
Data Entry Urban	0	10%	10%	5%	5%	10%	10%	10%	10%	10%	10%	5%	5%	5%	5%	5%	5%	20%	20%
Data Entry Turf	0					10%	10%	10%	10%	10%	10%								
Core Element Score		**16.63**	**16.63**	**14.75**	**14.75**	**12.88**	**12.88**	**15.38**	**15.38**	**14.88**	**14.88**	**15.13**	**15.13**	**16.13**	**16.13**	**15.38**	**15.38**	**12.63**	**12.63**
Hydrology																			
Water Source		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Hydroperiod		2	2	2	2	3	3	3	3	3	3	2	2	3	3	3	3	3	3
Hydrologic Flow		3	3	4	4	4	4	4	4	4	4	3	3	4	4	4	4	4	4
Core Element Score		**13.33**	**13.33**	**15.00**	**15.00**	**16.67**	**16.67**	**16.67**	**16.67**	**16.67**	**16.67**	**13.33**	**13.33**	**16.67**	**16.67**	**16.67**	**16.67**	**16.67**	**16.67**
Soils																			
Organic Matter		2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3
Sedimentation		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Soil Modification		2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3
Core Element Score		**13.33**	**16.67**	**13.33**	**16.67**	**13.33**	**16.67**	**13.33**	**16.67**	**13.33**	**16.67**	**13.33**	**16.67**	**13.33**	**16.67**	**13.33**	**16.67**	**13.33**	**16.67**
Physical Structure																			
Topographic Complexity		2	2	2	2	3	4	3	4	3	3	3	3	3	3	3	3	3	3
Edge Complexity (P/A)		2	2	2	2	3	3	3	3	3	3	3	3	2	2	2	2	2	2
Data Entry (perimeter)		11562	11562	3005	3005							13028	13028	9857	9857	7218	7218		
Data Entry (area)		3386248	3386248	262785	262785							176276	176276	468611	468611	781992	781992		
Physical Habitat Richness		3	4	3	4	2	4	2	4	2	3	1	1	2	4	3	3	2	2
Physical Habitat Types		A,C,D,F,J,K,L	A,C,D,F,J,K,L,N	A,C,D,F,J,K,L	A,C,D,F,J,K,L,N	K,L,N,Q	I,K,L,M,N,O,Q,R	K,L,N,Q	I,K,L,M,N,O,Q,R	A,D,J,K,L	A,D,J,K,L,N	C,K,L	C,I,K,L	C,F,K,L,N	C,F,I,K,L,N,O,R	A,C,D,J,K,L	A,C,D,J,K,L,N	C,F,K,L,N	C,F,I,K,L,N
Core Element Score		**11.7**	**13.3**	**11.7**	**13.3**	**13.3**	**18.3**	**13.3**	**18.3**	**13.3**	**15.0**	**11.7**	**11.7**	**11.7**	**15.0**	**13.3**	**13.3**	**11.7**	**11.7**
Biotic Structure																			
Plant Strata		2	2	2	2	4	4	4	4	2	2	2	2	2	2	2	2	2	2
Species Richness		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Invasives		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Interspersion		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Strata Overlap		2	3	2	3	3	4	3	4	2	3	2	3	2	3	2	3	2	3
Herbaceous Cover		3	4	3	4	3	3	3	3	3	4	3	4	3	4	3	4	3	4
Vegetation Alteration		2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3
Core Element Score		**12.86**	**15.00**	**12.86**	**15.00**	**15.00**	**16.43**	**15.00**	**16.43**	**12.86**	**15.00**	**12.86**	**15.00**	**12.86**	**15.00**	**12.86**	**15.00**	**12.86**	**15.00**
Total Overall TXRAM Score		**67.82**	**74.96**	**67.61**	**74.75**	**71.21**	**80.97**	**73.71**	**83.47**	**71.07**	**78.21**	**66.32**	**71.79**	**70.65**	**79.46**	**71.57**	**77.04**	**67.15**	**72.63**

Notes: The Core Element Scores are based on future conditions outlined in the 35% design plans (i.e., City of Dallas 2009b,c) and the Dallas Floodway Project Draft EIS.

TXRAM Assessments for Anticipated Future Conditions of Wetlands to be Enhanced/Restored under the BVP Component of the Dallas Floodway Project (cont.)

Wetland Name		Crow Lake Wetland		West Dallas Lake Marshlands		Urban Lake Marshlands		Natural Lake Marshlands		Urban Lake Forested Ponds		Natural Lake Forested Pond	
Wetland Type		Depressional/ Emergent		Lacustrine Fringe/ Emergent		Lacustrine Fringe/ Emergent		Lacustrine Fringe/ Emergent		Depressional/ Forested		Depressional/ Forested	
WAA		BVP-31		BVP- 5, 4, 6, 7, 8, 9, 10, 12, 13, 14		BVP-36, 37, 41, 42		BVP-47, 48, 49, 52, 53, 54		BVP-38, 39, 40, 44, 45		BVP-58	
Time Frame		Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity
Landscape													
Connectivity		2	2	3	3	2	2	3	3	0	0	0	0
Data Entry Connection to Aquatic Resources		2	2	5	5	3	3	4	4	0	0	0	0
Buffer (types below)	Score	1.20	1.20	1.45	1.45	1.35	1.35	2.35	2.35	0.00	0.00	2.50	2.50
Data Entry Woodlands/Riparian	4			5%	5%							40%	40%
Data Entry Wetlands/Riverine	3	5%	5%	10%	10%	25%	25%	70%	70%			30%	30%
Data Entry Meadow	2	45%	45%	40%	40%	20%	20%	10%	10%				
Data Entry Grassland	1	15%	15%	15%	15%	20%	20%	5%	5%				
Data Entry Urban	0	5%	5%	5%	5%	10%	10%	10%	10%	100%	100%	30%	30%
Data Entry Turf	0	30%	30%	25%	25%	25%	25%	5%	5%				
Core Element Score		**8.00**	**8.00**	**11.13**	**11.13**	**8.38**	**8.38**	**13.38**	**13.38**	**0.00**	**0.00**	**6.25**	**6.25**
Hydrology													
Water Source		2	2	2	2	2	2	2	2	1	1	1	1
Hydroperiod		3	3	2	2	2	2	2	2	1	1	1	1
Hydrologic Flow		3	3	3	3	3	3	3	3	1	1	1	1
Core Element Score		**13.33**	**13.33**	**11.67**	**11.67**	**11.67**	**11.67**	**11.67**	**11.67**	**5.00**	**5.00**	**5.00**	**5.00**
Soils													
Organic Matter		2	3	2	3	2	3	2	3	2	2	2	2
Sedimentation		4	4	4	4	4	4	4	4	4	4	4	4
Soil Modification		2	3	2	3	2	3	2	3	2	3	2	3
Core Element Score		**13.33**	**16.67**	**13.33**	**16.67**	**13.33**	**16.67**	**13.33**	**16.67**	**13.33**	**15.00**	**13.33**	**15.00**
Physical Structure													
Topographic Complexity		3	3	2	2	2	2	2	2	2	2	2	2
Edge Complexity (P/A)		2	2	3	3	4	4	3	3	2	2	2	2
Data Entry (perimeter)		3355	3355									5142	5142
Data Entry (area)		151898	151898									291319	291319
Physical Habitat Richness		2	3	1	2	1	2	1	2	1	3	1	3
Physical Habitat Types		A,D,J,K,L	A,D,J,K, L	I,J,K,N	I,J,K,N, O,R	I,J,K,N	I,J,K,N, O,R	I,J,K,N	I,J,K,N, O,R	A,D,J	A,D,J,M, Q,R	A,D,J	A,D,J,M,Q,R
Core Element Score		**11.7**	**13.3**	**10.0**	**11.7**	**11.7**	**13.3**	**10.0**	**11.7**	**8.3**	**11.7**	**8.3**	**11.7**
Biotic Structure													
Plant Strata		2	2	1	1	1	1	1	1	2	3	2	3
Species Richness		3	3	3	3	3	3	3	3	3	3	3	3
Invasives		3	3	3	3	3	3	3	3	4	4	4	4
Interspersion		3	3	3	3	3	3	3	3	2	3	2	3
Strata Overlap		2	3	2	3	2	3	2	3	2	3	2	3
Herbaceous Cover		3	4	3	4	3	4	3	4	1	2	1	2
Vegetation Alteration		2	3	2	3	2	3	2	3	2	3	2	3
Core Element Score		**12.86**	**15.00**	**12.14**	**14.29**	**12.14**	**14.29**	**12.14**	**14.29**	**11.43**	**15.00**	**11.43**	**15.00**
Total Overall TXRAM Score		**59.19**	**66.33**	**58.27**	**65.41**	**57.18**	**64.33**	**60.52**	**67.66**	**38.10**	**46.67**	**44.35**	**52.92**

Notes: The Core Element Scores are based on future conditions outlined in the 35% design plans (i.e., City of Dallas 2009b,c) and the Dallas Floodway Project Draft EIS.

TXRAM Assessments for Anticipated Future Conditions of the Relocated Trinity River Channel under the BVP Component of the Dallas Floodway Project

SAR		24-1	24-1	24-2	24-2	24-3	24-3	24-4	24-4	24-5	24-5
Time Frame		Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity	Release of Monitoring	At Maturity
Segment Length		7,657	7,657	6,269	6,269	7,179	7,179	7,558	7,558	11,305	11,305
Channel Condition											
Floodplain Connectivity		4	4	4	4	4	4	4	4	4	4
Bank Condition		5	5	5	5	5	5	5	5	5	5
Sediment Deposition		5	5	5	5	5	5	5	5	5	5
Core Element Score		**23.33**	**23.33**	**23.33**	**23.33**	**23.33**	**23.33**	**23.33**	**23.33**	**23.33**	**23.33**
Riparian Buffer Condition											
Riparian Buffer (left bank)	Score	3.70	4.20	3.60	4.00	3.80	4.20	1.85	2.00	2.90	3.40
Meadow (20% Canopy; Low Use)	3	40%	40%	50%	50%	40%	40%			15%	15%
Meadow (20% Canopy; Mod/High Use)	2							70%	70%	20%	20%
Woodlands/Riparian (40% Canopy; Low Use)	4	50%		40%		40%				30%	
Woodlands/Riparian (40% Canopy; Med Use)	3									20%	
Woodlands/Riparian (40% Canopy; High Use)	2							15%			
Woodlands/Riparian (80% Canopy; Low Use)	5	10%	60%	10%	50%	10%	50%			5%	35%
Woodlands/Riparian (80% Canopy; Med Use)	4										20%
Woodlands/Riparian (80% Canopy; High Use)	3							5%	20%		
Turf	0							10%	10%	5%	5%
Urban	0									5%	5%
Open Water	3										
Wetlands	5					10%	10%				
Riparian Buffer (right bank)	Score	2.20	2.40	2.60	3.00	2.70	3.10	2.70	2.95	3.60	3.95
Meadow (20% Canopy; Low Use)	3							30%	30%	25%	25%
Meadow (20% Canopy; Mod/High Use)	2	60%	60%	50%	50%	50%	50%	10%	10%	10%	10%
Woodlands/Riparian (40% Canopy; Low Use)	4							15%		35%	
Woodlands/Riparian (40% Canopy; Med Use)	3	20%		40%		40%		10%			
Woodlands/Riparian (40% Canopy; High Use)	2										
Woodlands/Riparian (80% Canopy; Low Use)	5					10%	10%	5%	20%	10%	45%
Woodlands/Riparian (80% Canopy; Med Use)	4	10%	30%	10%	50%		40%	5%	15%		
Woodlands/Riparian (80% Canopy; High Use)	3										
Turf	0	10%	10%					20%	20%		
Urban	0									5%	5%
Open Water	3										
Wetlands	5							5%	5%	15%	15%
Core Element Score		**14.75**	**16.50**	**15.50**	**17.50**	**16.25**	**18.25**	**11.38**	**12.38**	**16.25**	**18.38**
In-Stream Condition											
Substrate Composition		2	2	2	2	2	2	2	2	2	2
Instream Habitat		4	5	4	5	4	5	4	5	4	5
undercut banks											
overhanging vegetation		1	1	1	1	1	1	1	1	1	1
rootmats		1	1	1	1	1	1	1	1	1	1
rootwads			1		1		1		1		1
woody/leafy debris		1	1	1	1	1	1	1	1	1	1
boulders/cobbles											
aquatic macrophytes											
riffle/pool sequence											
artificial habitat enhancement		1	1	1	1	1	1	1	1	1	1
other											
Total Number Present		4	5	4	5	4	5	4	5	4	5
Core Element Score		**15.00**	**17.50**	**15.00**	**17.50**	**15.00**	**17.50**	**15.00**	**17.50**	**15.00**	**17.50**
Hydrologic Condition											
Flow Regime		4	4	4	4	4	4	4	4	4	4
Channel Flow Status		4	4	4	4	4	4	4	4	4	4
Core Element Score		**25.00**	**25.00**	**25.00**	**25.00**	**25.00**	**25.00**	**25.00**	**25.00**	**25.00**	**25.00**
Total Overall TXRAM Score		**78.08**	**82.33**	**78.83**	**83.33**	**79.58**	**84.08**	**74.71**	**78.21**	**79.58**	**84.21**

Notes : The Core Element Scores are based on future conditions outlined in the 35% design plans (i.e., City of Dallas 2009b,c) and the Dallas Floodway Project Draft EIS; the primary difference between TXRAM Scores for *Release of Monitoring* (5 years after completion of construction) and *At Maturity* (30 years after completion of construction) is the filling out of tree canopy cover and increased Instream Habitat types.

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Attachment C-2

Alternative 2 Wetland Impact and Compensation Matrix and ARCC Calculation Sheets

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Alternative 2 Wetland Impact and Compensation Matrix

*Refer to attached Aquatic Resource Compensation Calculator sheets for details on each site.

		BVP Wetland #	**47**	48	49	52	53	54	58	36	37	41	42	46	38	39	40	44	45	11	1	2	3	4	15	16	17	18	21	22	23	24	25	26	27	19	20	35	30	32	43	5	6	7	8	9	10	12	13	14	50	51	55	56	57	31	59	60
		Acreage	**0.51**	1.14	2.14	0.63	0.48	1.63	6.68	0.05	0.59	0.22	1.05	0.10	0.17	0.25	0.47	0.87	1.33	0.42	1.61	1.77	4.03	1.12	1.79	2.29	3.40	17.95	3.46	2.32	2.52	2.82	3.73	1.46	1.49	3.47	2.00	0.77	0.35	2.27	2.04	1.08	0.42	0.21	1.21	0.74	0.65	0.83	0.78	1.15	0.44	0.71	0.59	0.40	0.66	3.49	6.04	77.74
Component	Wetland #	Area Used																																																									
FRM	1, 188, 189	0.03	**0.03**																																																						
FRM	9	0.02	**0.02**																																																					
FRM	16	0.01	**0.01**																																																					
FRM	19	0.11	**0.11**																																																					
FRM	20	0.62	**0.34**	0.28																																																				
FRM	44	0.07		0.07																																																					
IDP	65	0.14		0.14																																																					
Eco Oth	59	0.23		0.23																																																					
Eco Oth	67	0.89		0.42	0.47																																																				
Eco Oth	68	0.38			0.38																																																			
Eco Oth	48	0.34			0.34																																																			
Eco Oth	52	0.17			0.17																																																			
Eco Oth	54	0.76			0.76																																																			
Rec	27	0.56			0.02	0.54																																																		
Rec	59	0.08				0.08																																																		
Rec	48	0.59					0.48	0.11																																																
Rec	52	0.14						0.14																																																
Rec	54	1.57						1.38		0.05	0.14																																															
Rec	87	0.13									0.13																																													
Eco Riv	4	6.4							6.08		0.32																																													
Eco Riv	6	0.59							0.59																																														
Eco Riv	10, 11, 12, 13	1.81				0.01			0.01			0.22	1.05	0.10	0.17	0.25																																								
Eco Riv	14	0.01															0.01																																							
Eco Riv	20	2.87															0.46	0.87	1.33	0.21																																				
Eco Riv	84 and 181	0.79																		0.21	0.58																																				
Eco Oth	29	1.07																			1.03	0.04																																			
Eco Oth	36	9.01																				1.73	4.03	1.12	1.79	0.34																														
Eco Oth	89	0.06																								0.06																													
Rec	12	0.02																								0.02																													
Rec	14	0.8																								0.80																													
Rec	15	0.55																								0.55																													
Rec	29	4.41																								0.52	3.40	0.49																											
Rec	36	5.41																										5.41																											
IDP	9	0.09																										0.09																											
Eco Riv	9	0.35																										0.35																											
Eco Riv	25	0.8																										0.80																											
Eco Riv	26	0.01																										0.01																											
Eco Riv	27	0.34																										0.34																											
Eco Riv	29	0.64																										0.64																											
Eco Riv	31	1.98																										1.98																											
Eco Riv	32	0.85																										0.85																											
Eco Riv	33	3.53																										3.53																											
Eco Riv	36	0.39																										0.39																											
Eco Riv	44	10.27																										3.07	3.46	2.32	1.42																										
Eco Riv	46	1.11																													1.10	0.01																										
Eco Riv	48	0.92																														0.92																									
Eco Riv	52	0.69																														0.69																									
Eco Oth	71	0.14																														0.14																									
Rec	4	0.06																														0.06																									
Rec	68	0.06																														0.06																									
Rec	69	0.21																														0.21																									
Eco Oth	69	30.9																														0.73																									30.17
Eco Oth	4	4.64																					3.73	0.91																																		
Eco Oth	5	0.14																						0.14																																
Eco Oth	6	4.37																						0.41	1.49	2.47																																
Eco Oth	32	1.84																								1.00	0.84																														
Eco Oth	15	0.28																									0.28																												
Eco Oth	16	0.01																									0.01																												
Eco Oth	19	0.05																									0.05																												
Eco Oth	22	0.77																									0.77																												
Eco Oth	26	0.01																									0.01																												
Eco Oth	27	2.09																									0.04	0.77	0.35	0.93																										
Eco Riv	53	3.05																													1.34	1.71																										
Eco Riv	56	0.78																															0.33	0.45																								
Eco Riv	59	0.34																																0.34																							
Eco Riv	60	1.65																																0.29	0.42	0.21	0.73																		
Eco Riv	65	5.66																																			0.48	0.74	0.65	0.83	0.78	1.15	0.44	0.59									
Eco Riv	66	0.18																																												0.12	0.06									
Eco Riv	67	1.54																																														0.53	0.40	0.61					
Eco Riv	68	3.76																																																0.05	3.49	0.22		
Eco Riv	69	8.68																																																		5.82	2.86
Eco Riv	71	0.12																																																			0.12
Eco Riv	85	0.88																																																			0.88
Eco Riv	86	0.42																																																			0.42
Rec	16	0.01																																																			0.01
Rec	19	0.02																																																			0.02
Eco Oth	44	1.51																																																			1.51
Eco Oth	53	0.09																																																			0.09
Eco Oth	1,2,10, 11	0.7																																																			0.70
Eco Oth	46	0.04																																																			0.04
Rec	1	0.06																																																			0.06
Rec	32	0.11																																																			0.11
Rec	46	0.16																																																			0.16
Rec	22	0.26																																																			0.26
Rec	44	0.05																																																			0.05
																																																							Acreage Not Used for Compensation	**40.28**

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Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-1, 188, and 189 FRM

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance
Baseline Condition	Post-Impact	Ac or LF	Units Ac or LF
0.58	0.00	0.03	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 47	2017	2018	15%	0.00	0.61	0.68	0.03	0.03

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.87

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-9 FRM

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance
Baseline Condition	Post-Impact	Ac or LF	Units Ac or LF
0.60	0.00	0.02	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 47	2017	2018	15%	0.00	0.61	0.68	0.02	0.02

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.89

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-16 FRM

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.01	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation	Mitigation
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Required	Proposed (Ac or LF)
Restoration BVP 47	2017	2018	15 %	0.00	0.61	0.68	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.88

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-19 FRM	0.58	0.00	0.12	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 47	2017	2018	15 %	0.00	0.61	0.68	0.10	0.11

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.87

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-20 FRM	0.61	0.00	0.68	
Reach Continued	0.61	0.00		0.31
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 47	2017	2018	15 %	0.00	0.61	0.68	0.62	0.34
Restoration BVP 48	2017	2018	15	0.00	0.61	0.68	0.28	0.28

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.92
IR vs MR2	>=	0.92

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-44 FRM	0.58	0.00	0.08	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 48	2017	2018	15 %	0.00	0.61	0.68	0.07	0.07

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio	
M vs I (1)	>=	0.88

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-9 IDP

Proposed Impact Site

Impact Year: 2020

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.60	0.00	0.11	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation Required	Mitigation Proposed (Ac or LF)
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity		
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.09	0.09

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-65 IDP

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.16	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 48	2017	2018	15%	0.00	0.61	0.68	0.14	0.14

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.87

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2018

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-4 Ecosystem River	0.59	0.00	5.58	
Reach Continued	0.59	0.00		5.24
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 37	2018	2019	15 %	0.00	0.57	0.64	5.20	0.32
Restoration BVP 58	2017	2048	15	0.00	0.44	0.53	6.07	6.08

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.93
IR vs MR2	>=	1.16

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2018

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-6 Ecosystem River	0.54	0.00	0.55	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 58	2017	2047	15 %	0.00	0.44	0.53	0.58	0.59

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	1.06

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-9 Ecosystem River	0.60	0.00	0.42	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15%	0.00	0.72	0.77	0.35	0.35

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

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d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2018

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-10, 11, 12, and 13 Ecosystem River	0.58	0.00	1.83	
Reach Continued	0.58	0.00		1.59
Reach Continued	0.58	0.00		0.45
Reach Continued	0.58	0.00		0.34
Reach Continued	0.58	0.00		0.21
Reach Continued	0.58	0.00		0.02
Reach Continued	0.58	0.00		0.01
				0

Proposed Mitigation Site

Mitigation Area & Type	Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100 Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 41	2018	2019	15 %	0.00	0.57	0.64	1.68	0.22
Restoration BVP 42	2018	2019	15	0.00	0.57	0.64	1.46	1.05
Restoration BVP 46	2018	2019	15	0.00	0.57	0.64	0.41	0.10
Restoration BVP 38	2018	2048	15	0.00	0.38	0.47	0.45	0.17
Restoration BVP 39	2018	2048	15	0.00	0.38	0.47	0.28	0.25
Restoration BVP 52	2017	2018	15	0.00	0.61	0.68	0.02	0.01
Restoration BVP 58	2017	2047	17	0.00	0.44	0.53	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.92
IR vs MR2	>=	0.92
IR vs MR3	>=	0.92
IR vs MR4	>=	1.32
IR vs MR5	>=	1.32
IR vs MR6	>=	0.86
IR vs MR7	>=	1.14

Instructions

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c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

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d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2018

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-14 Ecosystem River	0.58	0.00	0.01	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 40	2018	2048	15%	0.00	0.38	0.47	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	1.33

Instructions

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c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2018

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-20 Ecosystem River	0.61	0.00	2.15	
Reach Continued	0.61	0.00		1.82
Reach Continued	0.61	0.00		1.19
Reach Continued	0.61	0.00		0.23
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 40	2018	2048	15 %	0.00	0.38	0.47	2.98	0.46
Restoration BVP 44	2018	2048	15	0.00	0.38	0.47	2.52	0.87
Restoration BVP 45	2018	2048	15	0.00	0.38	0.47	1.65	1.33
Restoration BVP 11	2020	2021	15	0.00	0.66	0.72	0.21	0.21

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	1.39
IR vs MR2	>=	1.39
IR vs MR3	>=	1.39
IR vs MR4	>=	0.88

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-25 Ecosystem River	0.53	0.00	1.09	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.80	0.80

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.74

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-26 Ecosystem River	0.56	0.00	0.01	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-27 Ecosystem River	0.58	0.00	0.43	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.34	0.34

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-29 Ecosystem River	0.58	0.00	0.80	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15%	0.00	0.72	0.77	0.64	0.64

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio	
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2022

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-31 Ecosystem River	0.54	0.00	2.72	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15%	0.00	0.72	0.77	1.98	1.98

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.73

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2022

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-32 Ecosystem River	0.55	0.00	1.12	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15%	0.00	0.72	0.77	0.83	0.85

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio	
M vs I (1)	>=	0.75

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2022

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-33 Ecosystem River	0.58	0.00	4.50	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15%	0.00	0.72	0.77	3.53	3.53

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.78

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2022

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-36 Ecosystem River	0.60	0.00	0.48	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.39	0.39

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2023

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-44 Ecosystem River	0.58	0.00	13.35	
Reach Continued	0.58	0.00		9.39
Reach Continued	0.58	0.00		4.88
Reach Continued	0.58	0.00		1.86
				0

Proposed Mitigation Site

Mitigation Area & Type	Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100 Baseline	TXRAM Score Divided by 100 Release of Monitoring	TXRAM Score Divided by 100 At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	10.36	3.07
Restoration BVP 21	2024	2025	15	0.00	0.71	0.78	7.20	3.46
Restoration BVP 22	2024	2025	15	0.00	0.71	0.78	3.74	2.32
Restoration BVP 23	2024	2025	15	0.00	0.71	0.78	1.42	1.42

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.78
IR vs MR2	>=	0.77
IR vs MR3	>=	0.77
IR vs MR4	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2023

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-46 Ecosystem River	0.57	0.00	1.47	
Reach Continued	0.57	0.00		0.01
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 23	2024	2025	15 %	0.00	0.71	0.78	1.11	1.10
Restoration BVP 24	2024	2025	15	0.00	0.71	0.78	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.76
IR vs MR2	>=	0.76

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2023

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-48 Ecosystem River	0.55	0.00	1.26	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 24	2024	2025	15 %	0.00	0.71	0.78	0.92	0.92

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.73

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2023

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-52 Ecosystem River	0.58	0.00	0.90	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 24	2024	2025	15 %	0.00	0.71	0.78	0.69	0.69

Outputs

Mitigation : / Impact	Compensation Ratios	Ratio
M vs I (1)	>=	0.76

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

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d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-53 Ecosystem River	0.58	0.00	4.13	
Reach Continued	0.58	0.00		2.28
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 32	2025	2055	20 %	0.00	0.74	0.83	3.00	1.34
Restoration BVP 43	2025	2055	20	0.00	0.71	0.81	1.71	1.71

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.73
IR vs MR2	>=	0.75

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-56 Ecosystem River	0.56	0.00	0.95	
Reach Continued	0.56	0.00		0.50
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 43	2025	2055	20 %	0.00	0.71	0.81	0.69	0.33
Restoration BVP 5	2027	2028	15	0.00	0.58	0.65	0.45	0.45

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.73
IR vs MR2	>=	0.90

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-59 Ecosystem River	0.61	0.00	0.35	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 5	2027	2028	15%	0.00	0.58	0.65	0.34	0.34

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.97

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-60 Ecosystem River	0.61	0.00	1.70	
Reach Continued	0.61	0.00		1.40
Reach Continued	0.61	0.00		0.97
Reach Continued	0.61	0.00		0.75
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 5	2027	2028	15 %	0.00	0.58	0.65	1.65	0.29
Restoration BVP 6	2027	2028	15	0.00	0.58	0.65	1.36	0.42
Restoration BVP 7	2027	2028	15	0.00	0.58	0.65	0.94	0.21
Restoration BVP 8	2027	2028	15	0.00	0.58	0.65	0.73	0.73

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.97
IR vs MR2	>=	0.97
IR vs MR3	>=	0.97
IR vs MR4	>=	0.97

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-65 Ecosystem River	0.58	0.00	6.31	
Reach Continued	0.58	0.00		5.79
Reach Continued	0.58	0.00		5.00
Reach Continued	0.58	0.00		4.30
Reach Continued	0.58	0.00		3.41
Reach Continued	0.58	0.00		2.57
Reach Continued	0.58	0.00		1.33
Reach Continued	0.58	0.00		0.76
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 8	2027	2028	15 %	0.00	0.58	0.65	5.87	0.48
Restoration BVP 9	2027	2028	15	0.00	0.58	0.65	5.39	0.74
Restoration BVP 10	2027	2028	15	0.00	0.58	0.65	4.65	0.65
Restoration BVP 12	2027	2028	15	0.00	0.58	0.65	4.00	0.83
Restoration BVP 13	2027	2028	15	0.00	0.58	0.65	3.17	0.78
Restoration BVP 14	2027	2028	15	0.00	0.58	0.65	2.39	1.15
Restoration BVP 50	2027	2057	20	0.00	0.71	0.81	1.03	0.44
Restoration BVP 51	2027	2057	20	0.00	0.71	0.81	0.59	0.59

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.93
IR vs MR2	>=	0.93
IR vs MR3	>=	0.93
IR vs MR4	>=	0.93
IR vs MR5	>=	0.93
IR vs MR6	>=	0.93
IR vs MR7	>=	0.77
IR vs MR8	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-66 Ecosystem River	0.58	0.00	0.23	
Reach Continued	0.58	0.00		0.07
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 51	2027	2057	20 %	0.00	0.71	0.81	0.18	0.12
Restoration BVP 55	2027	2057	20	0.00	0.71	0.81	0.06	0.06

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.77
IR vs MR2	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-67 Ecosystem River	0.57	0.00	2.04	
Reach Continued	0.57	0.00		1.34
Reach Continued	0.57	0.00		0.81
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 55	2027	2057	20 %	0.00	0.71	0.81	1.54	0.53
Restoration BVP 56	2027	2057	20	0.00	0.71	0.81	1.01	0.40
Restoration BVP 57	2027	2057	20	0.00	0.71	0.81	0.61	0.61

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.76
IR vs MR2	>=	0.76
IR vs MR3	>=	0.76

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-68 Ecosystem River	0.57	0.00	4.19	
Reach Continued	0.57	0.00		4.12
Reach Continued	0.57	0.00		0.27
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 57	2027	2057	20 %	0.00	0.71	0.81	3.15	0.05
Restoration BVP 31	2028	2029	15	0.00	0.59	0.66	3.73	3.49
Restoration BVP 59	2029	2030	15	0.00	0.68	0.75	0.22	0.22

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.75
IR vs MR2	>=	0.90
IR vs MR3	>=	0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-69 Ecosystem River	0.59	0.00	10.22	
Reach Continued	0.59	0.00		3.37
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 59	2029	2030	15 %	0.00	0.68	0.75	8.69	5.82
Restoration BVP 60	2029	2030	15	0.00	0.68	0.75	2.86	2.86

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.85
IR vs MR2	>=	0.85

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-71 Ecosystem River	0.55	0.00	0.15	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.12	0.12

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.78

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2018

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-84 and 181 Ecosystem River	0.58	0.00	1.00	
Reach Continued	0.58	0.00		0.75
				0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure: Mitigation Area & Type	Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 11	2020	2021	15 %	0.00	0.66	0.72	0.84	0.21
Restoration BVP 1	2020	2050	20	0.00	0.71	0.81	0.58	0.58

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.84
IR vs MR2	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

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b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-85 Ecosystem River	0.56	0.00	1.09	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.88	0.88

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-86 Ecosystem River	0.61	0.00	0.48	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.42	0.42

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.87

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2026

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-1, 2, 10, and 11 Ecosystem Other	0.58	0.00	0.86	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.70	0.70

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-4 Ecosystem Other	0.59	0.00	6.16	
Reach Continued	0.59	0.00		1.21
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 25	2024	2025	15 %	0.00	0.71	0.78	4.64	3.73
Restoration BVP 26	2024	2025	15	0.00	0.71	0.78	0.91	0.91

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.75
IR vs MR2	>=	0.75

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-5 Ecosystem Other	0.56	0.00	0.20	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 26	2024	2025	15 %	0.00	0.71	0.78	0.14	0.14

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.72

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-6 Ecosystem Other	0.54	0.00	6.47	
Reach Continued	0.54	0.00		5.88
Reach Continued	0.54	0.00		3.72
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 26	2024	2025	15 %	0.00	0.71	0.78	4.47	0.41
Restoration BVP 27	2024	2025	15	0.00	0.71	0.78	4.06	1.49
Restoration BVP 19	2024	2054	20	0.00	0.74	0.83	2.47	2.47

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.69
IR vs MR2	>=	0.69
IR vs MR3	>=	0.67

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-15 Ecosystem Other	0.58	0.00	0.39	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	0.28	0.28

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.71

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-16 Ecosystem Other

Proposed Impact Site

Impact Year: 2025

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.02	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation Required	Mitigation Proposed (Ac or LF)
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity		
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.72

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-19 Ecosystem Other

Proposed Impact Site

Impact Year: 2025

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.07	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	0.05	0.05

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.71

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-22 Ecosystem Other	0.57	0.00	1.08	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	0.77	0.77

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.71

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-26 Ecosystem Other	0.56	0.00	0.02	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio	
M vs I (1)	>=	0.69

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-27 Ecosystem Other	0.58	0.00	2.78	
Reach Continued	0.58	0.00		2.72
Reach Continued	0.58	0.00		1.76
Reach Continued	0.58	0.00		1.29
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	1.97	0.04
Restoration BVP 35	2025	2026	15	0.00	0.67	0.73	2.18	0.77
Restoration BVP 30	2025	2055	20	0.00	0.71	0.81	1.31	0.35
Restoration BVP 32	2025	2055	20	0.00	0.74	0.83	0.93	0.93

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.71
IR vs MR2	>=	0.80
IR vs MR3	>=	0.74
IR vs MR4	>=	0.72

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-29 Ecosystem Other	0.58	0.00	1.42	
Reach Continued	0.58	0.00		0.06
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 1	2020	2050	20%	0.00	0.71	0.81	1.07	1.03
Restoration BVP 2	2020	2050	20	0.00	0.71	0.81	0.04	0.04

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.76
IR vs MR2	>=	0.76

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-32 Ecosystem Other	0.55	0.00	2.70	
Reach Continued	0.55	0.00		1.23
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 19	2024	2054	20 %	0.00	0.74	0.83	1.84	1.00
Restoration BVP 20	2024	2054	20	0.00	0.74	0.83	0.84	0.84

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.68
IR vs MR2	>=	0.68

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-36 Ecosystem Other	0.60	0.00	11.31	
Reach Continued	0.60	0.00		9.12
Reach Continued	0.60	0.00		4.02
Reach Continued	0.60	0.00		2.60
Reach Continued	0.60	0.00		0.40
				0

Proposed Mitigation Site

Mitigation Area & Type	Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100 Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 2	2020	2050	20 %	0.00	0.71	0.81	8.94	1.73
Restoration BVP 3	2020	2050	20	0.00	0.71	0.81	7.21	4.03
Restoration BVP 4	2020	2050	20	0.00	0.71	0.81	3.18	1.12
Restoration BVP 15	2022	2052	20	0.00	0.71	0.81	2.12	1.79
Restoration BVP 16	2024	2025	15	0.00	0.71	0.78	0.34	0.34

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.79
IR vs MR2	>=	0.79
IR vs MR3	>=	0.79
IR vs MR4	>=	0.81
IR vs MR5	>=	0.84

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2026

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-44 Ecosystem Other	0.58	0.00	1.84	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	1.51	1.51

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-46 Ecosystem Other

Proposed Impact Site

Impact Year: 2027

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.57	0.00	0.05	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation Required	Mitigation Proposed (Ac or LF)
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity		
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.04	0.04

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-48 Ecosystem Other	0.55	0.00	0.36	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 49	2017	2018	15%	0.00	0.61	0.68	0.30	0.34

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.83

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-52 Ecosystem Other	0.58	0.00	0.20	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 49	2017	2018	15%	0.00	0.61	0.68	0.17	0.17

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.87

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2026

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-53 Ecosystem Other	0.58	0.00	0.11	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.09	0.09

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-54 Ecosystem Other	0.59	0.00	0.86	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 49	2017	2018	15%	0.00	0.61	0.68	0.76	0.76

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.89

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-59 Ecosystem Other	0.61	0.00	0.25	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 48	2017	2018	15%	0.00	0.61	0.68	0.23	0.23

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.91

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-67 Ecosystem Other	0.57	0.00	1.04	
Reach Continued	0.57	0.00		0.55
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 48	2017	2018	15%	0.00	0.61	0.68	0.89	0.42
Restoration BVP 49	2017	2018	15	0.00	0.61	0.68	0.47	0.47

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.86
IR vs MR2	>=	0.86

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-68 Ecosystem Other	0.57	0.00	0.44	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 49	2017	2018	15%	0.00	0.61	0.68	0.37	0.38

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.85

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-69 Ecosystem Other	0.59	0.00	36.53	
Reach Continued	0.59	0.00		35.57
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 24	2024	2025	15 %	0.00	0.71	0.78	27.70	0.73
Restoration BVP 60	2029	2030	15	0.00	0.68	0.75	30.17	30.17

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.76
IR vs MR2	>=	0.85

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2024

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-71 Ecosystem Other	0.55	0.00	0.20	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 24	2024	2025	15 %	0.00	0.71	0.78	0.14	0.14

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.71

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-89 Ecosystem Other	0.58	0.00	0.07	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 16	2024	2025	15%	0.00	0.71	0.78	0.06	0.06

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio	
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-1 Recreation

Proposed Impact Site

Impact Year: 2027

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.07	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.06	0.06

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-4 Recreation

Proposed Impact Site

Impact Year: 2024

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.59	0.00	0.08	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation Required	Mitigation Proposed (Ac or LF)
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity		
Restoration BVP 24	2024	2025	15 %	0.00	0.71	0.78	0.06	0.06

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.76

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-12 Recreation

Proposed Impact Site

Impact Year: 2019

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.03	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation Required	Mitigation Proposed (Ac or LF)
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity		
Restoration BVP 16	2024	2025	15%	0.00	0.71	0.78	0.02	0.02

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-14 Recreation	0.58	0.00	0.99	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 16	2024	2025	15%	0.00	0.71	0.78	0.80	0.80

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-15 Recreation	0.58	0.00	0.68	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 16	2024	2025	15%	0.00	0.71	0.78	0.55	0.55

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio	
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-16 Recreation

Proposed Impact Site

Impact Year: 2025

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.01	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.83

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-19 Recreation

Proposed Impact Site

Impact Year: 2025

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.02	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.02	0.02

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.83

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-22 Recreation

Proposed Impact Site

Impact Year: 2029

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.57	0.00	0.33	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation Required	Mitigation Proposed (Ac or LF)
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity		
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.26	0.26

Outputs

Mitigation : / Impact	Compensation Ratios	Ratio
M vs I (1)	>=	0.78

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-27 Recreation	0.58	0.00	0.65	
Reach Continued	0.58	0.00		0.63
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 49	2017	2018	15 %	0.00	0.61	0.68	0.56	0.02
Restoration BVP 52	2017	2018	15	0.00	0.61	0.68	0.54	0.54

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.86
IR vs MR2	>=	0.86

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-29 Recreation	0.58	0.00	5.54	
Reach Continued	0.58	0.00		4.89
Reach Continued	0.58	0.00		0.60
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 16	2024	2025	15 %	0.00	0.71	0.78	4.45	0.52
Restoration BVP 17	2024	2025	15	0.00	0.71	0.79	3.88	3.40
Restoration BVP 18	2024	2025	15	0.00	0.72	0.77	0.49	0.49

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80
IR vs MR2	>=	0.79
IR vs MR3	>=	0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2027

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-32 Recreation	0.55	0.00	0.14	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.11	0.11

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-36 Recreation	0.60	0.00	6.37	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15%	0.00	0.72	0.77	5.41	5.41

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.85

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2029

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-44 Recreation	0.58	0.00	0.06	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.05	0.05

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.79

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-46 Recreation

Proposed Impact Site

Impact Year: 2027

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.57	0.00	0.20	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation Required	Mitigation Proposed (Ac or LF)
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity		
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.16	0.16

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-48 Recreation	0.55	0.00	0.71	
Reach Continued	0.55	0.00		0.13
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 53	2017	2018	15%	0.00	0.61	0.68	0.59	0.48
Restoration BVP 54	2017	2018	15	0.00	0.61	0.68	0.11	0.11

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.83
IR vs MR2	>=	0.83

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-52 Recreation

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.12	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation Required	Mitigation Proposed (Ac or LF)
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity		
Restoration BVP 54	2017	2018	15%	0.00	0.61	0.68	0.10	0.14

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.87

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-54 Recreation	0.59	0.00	1.72	
Reach Continued	0.59	0.00		0.16
Reach Continued	0.59	0.00		0.11
				0

Proposed Mitigation Site

Mitigation Area & Type	Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100 Baseline	TXRAM Score Divided by 100 Release of Monitoring	TXRAM Score Divided by 100 At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 54	2017	2018	15 %	0.00	0.61	0.68	1.52	1.38
Restoration BVP 36	2018	2019	15	0.00	0.57	0.64	0.15	0.05
Restoration BVP 37	2018	2019	15	0.00	0.57	0.64	0.10	0.14

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.89
IR vs MR2	>=	0.95
IR vs MR3	>=	0.95

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

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d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-59 Recreation	0.61	0.00	0.09	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 52	2017	2018	15%	0.00	0.61	0.68	0.08	0.08

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.91

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-68 Recreation

Proposed Impact Site

Impact Year: 2024

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.57	0.00	0.08	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 24	2024	2025	15%	0.00	0.71	0.78	0.06	0.06

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.73

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2024

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-69 Recreation	0.59	0.00	0.27	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 24	2024	2025	15%	0.00	0.71	0.78	0.21	0.21

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-87 Recreation

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.59	0.00	0.14	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 37	2018	2019	15%	0.00	0.57	0.64	0.13	0.13

Outputs

Mitigation : / Impact	Compensation Ratios	Ratio
M vs I (1)	>=	0.94

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator sheets for the relocation of the Trinity River.

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
SAR 24-1	0.69	0.00	7439.00	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration	2020	2050	20%	0.00	0.78	0.82	6394.40	7657.00

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.86

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
SAR 24-2	0.69	0.00	5893.00	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration	2021	2051	20%	0.00	0.79	0.83	5009.10	6269.00

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio	
M vs I (1)	>=	0.85

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs	Time Horizon:	75	Proposed Impact Site					Proposed Mitigation Site									
			Impact Year:	2022													
Project # :	SWF-		TXRAM Score Divided by 100				Balance	Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100					
Project Name:	Dallas Floodway Project		Baseline Condition		Post-Impact	Units	Units	Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)	
Assessment Area and Impact Type						Ac or LF	Ac or LF										
SAR 24-3			0.69		0.00	7179.00	0	Restoration	2024	2054	20%	0.00	0.80	0.84	6130.28	7179.00	

Outputs	Compensation Ratios		
Mitigation :			Ratio
Impact			
M vs I (1)		>=	0.85

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type: SAR 24-4

Proposed Impact Site

Impact Year: 2024

TXRAM Score Divided by 100				
Baseline Condition	Post-Impact	Units Ac or LF	Balance Units Ac or LF	
0.69	0.00	7268.00	0	

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration	2025	2025	20%	0.00	0.75	0.78	6511.85	7558.00

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)		>= 0.90

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type: SAR 24-5

Proposed Impact Site

Impact Year: 2026

TXRAM Score Divided by 100				
Baseline Condition	Post-Impact	Units Ac or LF	Balance Units Ac or LF	
0.69	0.00	10788.00	0	

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration	2027	2025	20%	0.00	0.80	0.84	8984.72	11305.00

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.83

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

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Attachment C-3

Alternative 3 Wetland Impact and Compensation Matrix and ARCC Calculation Sheets

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Alternative 3 Wetland Impact and Compensation Matrix

*Refer to attached Aquatic Resource Compensation Calculator sheets for details on each site.

		BVP Wetland #	47	48	49	52	53	54	58	36	37	42	46	40	44	45	11	1	2	3	4	15	16	21	22	23	24	25	26	27	17	18	19	20	35	30	32	43	5	6	7	8	9	10	12	13	14	50	51	55	56	57	59	60
		Acreage	0.50	0.67	2.14	0.87	0.48	1.61	6.62	0.05	0.59	1.02	0.19	1.88	0.90	0.90	0.41	1.62	1.77	4.01	1.12	1.80	2.29	3.44	2.30	2.51	2.80	3.72	1.45	1.49	1.81	25.68	3.45	2.00	0.77	0.35	2.27	2.03	1.05	0.43	0.20	1.20	0.75	0.64	0.82	0.79	1.14	0.44	0.70	0.58	0.40	0.67	6.01	79.13
Component	Wetland #	Area Used																																																				
FRM	9	0.02	0.02																																																			
FRM	16	0.51	0.48	0.03																																																	
FRM	17	0.03		0.03																																																
FRM	18	1.32		0.61	0.71																																															
FRM	19	1.37			1.37																																															
FRM	20	1.32			0.06	0.87	0.39																																													
FRM	21	0.07					0.07																																													
FRM	25	1.28					0.02	1.26																																												
FRM	26	0.08						0.08																																												
FRM	44	0.07						0.07																																												
FRM	66	0.21						0.20	0.01																																											
FRM	1, 188, 189	0.03							0.03																																											
IDP	65	0.19							0.19																																											
Eco Oth	59	1.73							1.73																																											
Eco Oth	65	0.01							0.01																																											
Eco Oth	66	4.02							4.02																																											
Eco Oth	67	1.13							0.63	0.05	0.45																																										
Eco Oth	68	0.73									0.14	0.59																																								
Eco Oth	48	0.55										0.43	0.12																																						
Eco Oth	52	0.76											0.07	0.69																																					
Eco Oth	54	2.72												1.19	0.90	0.63																																			
Rec	27	0.71														0.27	0.41	0.03																																	
Rec	59	0.12																0.12																																	
Rec	66	0.31																0.31																																	
Rec	48	0.54																0.54																																	
Rec	50	0.12																0.12																																	
Rec	52	0.8																0.50	0.30																																	
Rec	54	4.52																	1.47	3.05																																	
Rec	87	0.11																		0.11																																	
Eco Riv	4	4.46																		0.85	1.12	1.80	0.69																														
Eco Riv	6	0.42																					0.42																													
Eco Riv	14	0.01																					0.01																													
Eco Riv	20	1.97																					1.17	0.80																												
Eco Riv	10, 11, 12, 13, 84, 181	2.31																						2.31																												
Eco Oth	29	1.25																						0.33	0.92																											
Eco Oth	36	9.9																							1.38	2.51	2.8	3.21																							
Eco Oth	89	0.06																										0.06																							
Rec	12	0.02																										0.02																							
Rec	14	0.8																										0.43	0.37																						
Rec	15	0.6																											0.60																						
Rec	29	4.47																											0.48	1.49	1.81	0.69																			
Rec	36	4.98																														4.98																			
IDP	9	0.09																														0.09																			
Eco Riv	9	0.34																														0.34																			
Eco Riv	25	0.83																														0.83																			
Eco Riv	26	0.43																														0.43																			
Eco Riv	27	0.3																														0.30																			
Eco Riv	29	0.66																														0.66																			
Eco Riv	31	2.04																														2.04																			
Eco Riv	32	0.93																														0.93																			
Eco Riv	33	3.95																														3.95																			
Eco Riv	36	0.39																														0.39																			
Eco Riv	44	9.78																														9.15	0.63																		
Eco Riv	46	1.14																															1.14																		
Eco Riv	48	0.89																															0.89																		
Eco Riv	52	0.93																															0.79	0.14																	
Eco Oth	71	0.28																																0.28																	
Rec	4	0.05																																0.05																	
Rec	68	0.02																																0.02																	
Rec	69	0.1																																0.10																	
Rec	71	0.15																																0.15																	
Eco Oth	69	37.3																														0.90		1.26																	35.14
Eco Oth	4	4.68																																		0.77	0.35	2.27	1.29											
Eco Oth	5	0.14																																					0.14												
Eco Oth	6	5.43																																					0.60	1.05	0.43	0.20	1.20	0.75	0.64	0.56					
Eco Oth	32	3.94																																												0.26	0.79	1.14	0.44	0.70	0.58	0.03		
Eco Oth	33	0.11																																																0.11		
Eco Oth	15	0.25																																																0.25		
Eco Oth	16	0.02																																																0.01	0.01	
Eco Oth	19	0.05																																																	0.05	
Eco Oth	22	0.82																																																	0.61	0.21	
Eco Oth	26	0.02																																																		0.02	
Eco Oth	27	2.37																																																			2.37	
Eco Riv	53	3.43																																																			3.41	0.02
Eco Riv	54	0.24																																																				0.24
Eco Riv	56	0.76																																																					0.76
Eco Riv	59	0.39																																																				0.39
Eco Riv	60	1.47																																																					1.47
Eco Riv	65	5.52																																																					5.52
Eco Riv	66	3.42																																																						3.42
Eco Riv	67	4.4																																																						4.40
Eco Riv	68	6.54																																																						6.54
Eco Riv	69	10.75																																																							10.75
Eco Riv	71	0.2																																																							0.20
Eco Riv	85	1.46																																																							1.46
Eco Riv	86	0.42																																																							0.42
Rec	19	0.01																																																							0.01
Rec	25	0.01																																																							0.01
Rec	26	0.49																																																							0.49
Eco Oth	42	0.02																																																							0.02
Eco Oth	44	2.02																																																							2.02
Eco Oth	53	0.1																																																							0.10
Eco Oth	1, 2, 10, 11	0.7																																																								0.70
Eco Oth	46	0.18																																																							0.18
Rec	1	0.05																																																							0.05
Rec	32	0.23																																																							0.23
Rec	46	1.19																																																							1.19
Rec	22	0.28																																																							0.28
Rec	44	0.17																																																							0.17
																																																												Acreage Not Used for Compensation	**2.95**

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Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-1, 188, and 189 FRM	0.58	0.00	0.03	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 58	2017	2047	15 %	0.00	0.44	0.53	0.03	0.03

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	1.16

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-9 FRM

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance
Baseline Condition	Post-Impact	Ac or LF	Units Ac or LF
0.60	0.00	0.02	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 47	2017	2018	15%	0.00	0.61	0.68	0.02	0.02

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.89

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-16 FRM	0.58	0.00	0.58	
Reach Continued	0.58	0.00		0.03
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 47	2017	2018	15 %	0.00	0.61	0.68	0.51	0.48
Restoration BVP 48	2017	2018	15	0.00	0.61	0.68	0.03	0.03

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.88
IR vs MR2	>=	0.88

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-17 FRM

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance
Baseline Condition	Post-Impact	Ac or LF	Units Ac or LF
0.57	0.00	0.04	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 48	2017	2018	15 %	0.00	0.61	0.68	0.03	0.03

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.86

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-18 FRM	0.61	0.00	1.45	
Reach Continued	0.61	0.00		0.78
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 48	2017	2018	15 %	0.00	0.61	0.68	1.32	0.61
Restoration BVP 49	2017	2018	15	0.00	0.61	0.68	0.71	0.71

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.91
IR vs MR2	>=	0.91

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-19 FRM

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance
Baseline Condition	Post-Impact	Ac or LF	Units Ac or LF
0.58	0.00	1.57	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 49	2017	2018	15 %	0.00	0.61	0.68	1.37	1.37

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.87

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-20 FRM	0.61	0.00	1.44	
Reach Continued	0.61	0.00		1.37
Reach Continued	0.61	0.00		0.42
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 49	2017	2018	15 %	0.00	0.61	0.68	1.32	0.06
Restoration BVP 52	2017	2018	15	0.00	0.61	0.68	1.26	0.87
Restoration BVP 53	2017	2018	15	0.00	0.61	0.68	0.39	0.39

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.92
IR vs MR2	>=	0.92
IR vs MR3	>=	0.92

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-21 FRM

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance
Baseline Condition	Post-Impact	Ac or LF	Units Ac or LF
0.58	0.00	0.08	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 53	2017	2018	15 %	0.00	0.61	0.68	0.07	0.07

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.88

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-25 FRM	0.53	0.00	1.60	
Reach Continued	0.53	0.00		1.57
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 53	2017	2018	15 %	0.00	0.61	0.68	1.28	0.02
Restoration BVP 54	2017	2018	15	0.00	0.61	0.68	1.26	1.26

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80
IR vs MR2	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-26 FRM	0.56	0.00	0.10	
Reach Continued	0.56	0.00		0.00

Proposed Mitigation Site

Mitigation Area & Type	Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100 Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 54	2017	2018	15 %	0.00	0.61	0.68	0.08	0.08

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.84
IR vs MR2	(see note 15)	

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-44 FRM

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.08	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation	Mitigation
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Required	Proposed (Ac or LF)
Restoration BVP 54	2017	2018	15 %	0.00	0.61	0.68	0.07	0.07

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.88

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-66 FRM	0.58	0.00	0.24	
Reach Continued	0.58	0.00		0.01
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 54	2017	2018	15 %	0.00	0.61	0.68	0.21	0.20
Restoration BVP 58	2017	2047	15	0.00	0.44	0.53	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.88
IR vs MR2	>=	1.16

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-9 IDP	0.60	0.00	0.11	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.09	0.09

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-65 IDP	0.61	0.00	0.16	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 58	2017	2047	15 %	0.00	0.44	0.53	0.19	0.19

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	1.21

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2026

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-1, 2, 10, and 11 Ecosystem Other	0.58	0.00	0.86	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.70	0.70

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-4 Ecosystem Other	0.59	0.00	6.17	
Reach Continued	0.59	0.00		5.23
Reach Continued	0.59	0.00		4.77
Reach Continued	0.59	0.00		1.69
				0

Proposed Mitigation Site

Mitigation Area & Type	Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100 Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 35	2025	2026	15 %	0.00	0.67	0.73	5.06	0.77
Restoration BVP 30	2025	2055	20	0.00	0.71	0.81	3.98	0.35
Restoration BVP 32	2025	2055	20	0.00	0.74	0.83	3.52	2.27
Restoration BVP 43	2025	2055	20	0.00	0.71	0.81	1.29	1.29

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82
IR vs MR2	>=	0.76
IR vs MR3	>=	0.74
IR vs MR4	>=	0.76

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-5 Ecosystem Other

Proposed Impact Site

Impact Year: 2025

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.56	0.00	0.20	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 43	2025	2055	20 %	0.00	0.71	0.81	0.14	0.14

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.72

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-6 Ecosystem Other	0.54	0.00	6.47	
Reach Continued	0.54	0.00		5.61
Reach Continued	0.54	0.00		4.39
Reach Continued	0.54	0.00		3.89
Reach Continued	0.54	0.00		3.66
Reach Continued	0.54	0.00		2.27
Reach Continued	0.54	0.00		1.40
Reach Continued	0.54	0.00		0.65
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 43	2025	2055	20 %	0.00	0.71	0.81	4.51	0.60
Restoration BVP 5	2027	2028	15	0.00	0.58	0.65	4.83	1.05
Restoration BVP 6	2027	2028	15	0.00	0.58	0.65	3.78	0.43
Restoration BVP 7	2027	2028	15	0.00	0.58	0.65	3.35	0.20
Restoration BVP 8	2027	2028	15	0.00	0.58	0.65	3.15	1.20
Restoration BVP 9	2027	2028	15	0.00	0.58	0.65	1.95	0.75
Restoration BVP 11	2027	2028	15	0.00	0.58	0.65	1.20	0.64
Restoration BVP 12	2027	2028	15	0.00	0.58	0.65	0.56	0.56

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.70
IR vs MR2	>=	0.86
IR vs MR3	>=	0.86
IR vs MR4	>=	0.86
IR vs MR5	>=	0.86
IR vs MR6	>=	0.86
IR vs MR7	>=	0.86
IR vs MR8	>=	0.86

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs	Time Horizon:	75	Proposed Impact Site				Proposed Mitigation Site								
			Impact Year:	2025											
Project # :	SWF-		TXRAM Score Divided by 100			Balance	Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Project Name:	Dallas Floodway Project		Baseline Condition	Post-Impact	Units Ac or LF	Units Ac or LF	Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Assessment Area and Impact Type															
WAA-15 Ecosystem Other			0.58	0.00	0.32	0	Restoration BVP 56	2027	2057	20 %	0.00	0.71	0.81	0.25	0.25

Outputs	Compensation Ratios	
Mitigation : / Impact		Ratio
M vs I (1)	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type	Proposed Impact Site (Impact Year: 2025) TXRAM Score Divided by 100 Baseline Condition	Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-16 Ecosystem Other	0.58	0.00	0.02	
Reach Continued	0.58	0.00		0.01
				0

Proposed Mitigation Site — Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 56	2027	2057	20 %	0.00	0.71	0.81	0.02	0.01
Restoration BVP 57	2027	2057	20	0.00	0.71	0.81	0.01	0.01

Outputs

Mitigation : / Impact	Compensation Ratios	Ratio
M vs I (1)	>=	0.77
IR vs MR2	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-19 Ecosystem Other	0.58	0.00	0.07	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 57	2027	2057	20 %	0.00	0.71	0.81	0.05	0.05

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-22 Ecosystem Other	0.57	0.00	1.06	
Reach Continued	0.57	0.00		0.26
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 57	2027	2057	20 %	0.00	0.71	0.81	0.81	0.61
Restoration BVP 59	2029	2030	15	0.00	0.68	0.75	0.21	0.21

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.76
IR vs MR2	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-26 Ecosystem Other

Proposed Impact Site

Impact Year: 2025

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.56	0.00	0.02	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation Required	Mitigation Proposed (Ac or LF)
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity		
Restoration BVP 59	2029	2030	15 %	0.00	0.68	0.75	0.02	0.02

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-27 Ecosystem Other	0.58	0.00	2.87	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 59	2029	2030	15 %	0.00	0.68	0.75	2.37	2.37

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.83

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-29 Ecosystem Other	0.58	0.00	1.56	
Reach Continued	0.58	0.00		1.15
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 21	2024	2025	15 %	0.00	0.71	0.78	1.25	0.33
Restoration BVP 22	2024	2025	15	0.00	0.71	0.78	0.92	0.92

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80
IR vs MR2	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-32 Ecosystem Other	0.55	0.00	4.94	
Reach Continued	0.55	0.00		4.58
Reach Continued	0.55	0.00		3.68
Reach Continued	0.55	0.00		2.39
Reach Continued	0.55	0.00		1.79
Reach Continued	0.55	0.00		0.84
Reach Continued	0.55	0.00		0.05
Reach Continued	0.55	0.00		0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 12	2027	2028	15 %	0.00	0.71	0.81	3.53	0.26
Restoration BVP 13	2027	2028	15	0.00	0.58	0.65	4.04	0.79
Restoration BVP 14	2027	2028	15	0.00	0.58	0.65	3.25	1.14
Restoration BVP 50	2027	2057	20	0.00	0.71	0.81	1.75	0.44
Restoration BVP 51	2027	2057	20	0.00	0.71	0.81	1.31	0.70
Restoration BVP 55	2027	2057	20	0.00	0.71	0.81	0.61	0.58
Restoration BVP 56	2027	2057	20	0.00	0.71	0.81	0.03	0.03

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.71
IR vs MR2	>=	0.88
IR vs MR3	>=	0.88
IR vs MR4	>=	0.73
IR vs MR5	>=	0.73
IR vs MR6	>=	0.73
IR vs MR7	>=	0.73

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

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c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs	Time Horizon:	75	Proposed Impact Site				Proposed Mitigation Site								
			Impact Year:	2025											
Project # :	SWF-		TXRAM Score Divided by 100			Balance	Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Project Name:	Dallas Floodway Project		Baseline Condition	Post-Impact	Units Ac or LF	Units Ac or LF	Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Assessment Area and Impact Type															
WAA-33 Ecosystem Other			0.58	0.00	0.14	0	Restoration BVP 56	2027	2057	20 %	0.00	0.71	0.81	0.11	0.11

Outputs	Compensation Ratios	Ratio
Mitigation : Impact		
M vs I (1)	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-36 Ecosystem Other	0.60	0.00	11.80	
Reach Continued	0.60	0.00		10.16
Reach Continued	0.60	0.00		7.16
Reach Continued	0.60	0.00		3.83
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 22	2024	2025	15 %	0.00	0.71	0.78	9.90	1.38
Restoration BVP 23	2024	2025	15	0.00	0.71	0.78	8.52	2.51
Restoration BVP 24	2024	2025	15	0.00	0.71	0.78	6.01	2.80
Restoration BVP 25	2024	2025	15	0.00	0.71	0.78	3.21	3.21

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.84
IR vs MR2	>=	0.84
IR vs MR3	>=	0.84
IR vs MR4	>=	0.84

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs	Time Horizon:	75	Proposed Impact Site				Proposed Mitigation Site								
			Impact Year:	2026											
Project # :	SWF-		TXRAM Score Divided by 100			Balance	Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Project Name:	Dallas Floodway Project		Baseline Condition	Post-Impact	Units Ac or LF	Units Ac or LF	Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Assessment Area and Impact Type															
WAA-42 Ecosystem Other			0.54	0.00	0.02	0	Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.02	0.02

Outputs	Compensation Ratios	
Mitigation : Impact		Ratio
M vs I (1)	>=	0.76

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

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f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2026

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-44 Ecosystem Other	0.58	0.00	2.45	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	2.02	2.02

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

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d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-46 Ecosystem Other

Proposed Impact Site

Impact Year: 2027

TXRAM Score Divided by 100				
Baseline Condition	Post-Impact	Units Ac or LF	Balance Units Ac or LF	
0.57	0.00	0.22	0	

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.18	0.18

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio	
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type	Proposed Impact Site (Impact Year: 2017) TXRAM Score Divided by 100 Baseline Condition	Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-48 Ecosystem Other	0.55	0.00	0.62	
Reach Continued	0.55	0.00		0.14
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 42	2018	2019	15 %	0.00	0.57	0.64	0.55	0.43
Restoration BVP 46	2018	2019	15	0.00	0.57	0.64	0.12	0.12

Outputs

Mitigation : / Impact	Compensation Ratios	Ratio
M vs I (1)	>=	0.89
IR vs MR2	>=	0.89

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-52 Ecosystem Other	0.55	0.00	0.62	
Reach Continued	0.55	0.00		0.54
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 46	2018	2019	15 %	0.00	0.57	0.64	0.55	0.07
Restoration BVP 40	2018	2048	15	0.00	0.38	0.47	0.69	0.69

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.89
IR vs MR2	>=	1.28

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2026

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-53 Ecosystem Other	0.58	0.00	0.12	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.10	0.10

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-54 Ecosystem Other	0.59	0.00	2.00	
Reach Continued	0.59	0.00		1.13
Reach Continued	0.59	0.00		0.46
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 40	2018	2048	15 %	0.00	0.38	0.47	2.72	1.19
Restoration BVP 44	2018	2048	15	0.00	0.38	0.47	1.53	0.90
Restoration BVP 45	2018	2048	15	0.00	0.38	0.47	0.63	0.63

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	1.36
IR vs MR2	>=	1.36
IR vs MR3	>=	1.36

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-59 Ecosystem Other	0.61	0.00	1.43	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 58	2017	2047	15 %	0.00	0.44	0.53	1.73	1.73

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	1.21

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-65 Ecosystem Other

Proposed Impact Site

Impact Year: 2017

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.01	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation Required	Mitigation Proposed (Ac or LF)
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity		
Restoration BVP 58	2017	2047	15 %	0.00	0.44	0.53	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	1.16

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-66 Ecosystem Other	0.58	0.00	3.46	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 58	2017	2047	15 %	0.00	0.44	0.53	4.02	4.02

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	1.16

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-67 Ecosystem Other	0.70	0.00	0.90	
Reach Continued	0.70	0.00		0.45
Reach Continued	0.70	0.00		0.40
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 58	2017	2047	15 %	0.00	0.44	0.53	1.25	0.63
Restoration BVP 36	2018	2019	15	0.00	0.57	0.64	0.50	0.05
Restoration BVP 37	2018	2019	15	0.00	0.57	0.64	0.45	0.45

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	1.39
IR vs MR2	>=	1.12
IR vs MR3	>=	1.12

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type	Proposed Impact Site (Impact Year: 2017) TXRAM Score Divided by 100 Baseline Condition	Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-68 Ecosystem Other	0.57	0.00	0.80	
Reach Continued	0.57	0.00		0.65
				0

Proposed Mitigation Site: Mitigation Work Timing & Risk of Failure — Mitigation Area & Type	Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100 Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 37	2018	2019	15 %	0.00	0.57	0.64	0.73	0.14
Restoration BVP 42	2018	2019	15	0.00	0.57	0.64	0.59	0.59

Outputs

Mitigation : / Impact	Compensation Ratios	Ratio
M vs I (1)	>=	0.91
IR vs MR2	>=	0.91

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-69 Ecosystem Other	0.59	0.00	44.32	
Reach Continued	0.59	0.00		42.60
Reach Continued	0.59	0.00		41.42
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	32.41	1.26
Restoration BVP 18	2024	2025	15	0.00	0.72	0.77	32.69	0.90
Restoration BVP 60	2029	2030	15	0.00	0.68	0.75	35.14	35.14

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.73
IR vs MR2	>=	0.77
IR vs MR3	>=	0.85

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2024

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-71 Ecosystem Other	0.55	0.00	0.41	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	0.28	0.28

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.69

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-89 Ecosystem Other

Proposed Impact Site

Impact Year: 2019

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.58	0.00	0.07	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation Required	Mitigation Proposed (Ac or LF)
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity		
Restoration BVP 25	2024	2025	15%	0.00	0.71	0.78	0.06	0.06

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2018

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-4 Ecosystem River	0.59	0.00	5.59	
Reach Continued	0.59	0.00		4.50
Reach Continued	0.59	0.00		3.07
Reach Continued	0.59	0.00		0.83
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 3	2020	2050	20 %	0.00	0.71	0.81	4.37	0.85
Restoration BVP 4	2020	2050	20	0.00	0.71	0.81	3.52	1.12
Restoration BVP 15	2022	2052	20	0.00	0.71	0.81	2.47	1.80
Restoration BVP 16	2024	2025	15	0.00	0.71	0.78	0.69	0.69

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.78
IR vs MR2	>=	0.78
IR vs MR3	>=	0.80
IR vs MR4	>=	0.83

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2018

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-6 Ecosystem River	0.54	0.00	0.55	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 16	2024	2025	15 %	0.00	0.71	0.78	0.42	0.42

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.76

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-9 Ecosystem River	0.60	0.00	0.41	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.34	0.34

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

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d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2018

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-10, 11, 12, 13, 84, 181 Ecosystem River	0.58	0.00	2.83	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 21	2024	2025	15%	0.00	0.71	0.78	2.31	2.31

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

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a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

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c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2018

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-14 Ecosystem River	0.58	0.00	0.01	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 16	2024	2025	15 %	0.00	0.71	0.78	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

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c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

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Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2018

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-20 Ecosystem River	0.61	0.00	2.29	
Reach Continued	0.61	0.00		0.93
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 16	2024	2025	15 %	0.00	0.71	0.78	1.97	1.17
Restoration BVP 21	2024	2025	15	0.00	0.71	0.78	0.80	0.80

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.86
IR vs MR2	>=	0.86

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

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f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-25 Ecosystem River	0.53	0.00	1.12	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.83	0.83

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.74

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

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d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-26 Ecosystem River	0.56	0.00	0.56	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.43	0.43

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

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f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-27 Ecosystem River	0.58	0.00	0.38	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.30	0.30

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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2) Describe the proposed mitigation used to offset proposed impacts:

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Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2020

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-29 Ecosystem River	0.58	0.00	0.82	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.66	0.66

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

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Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2022

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-31 Ecosystem River	0.54	0.00	2.81	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure: Mitigation Area & Type	Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	2.04	2.04

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.73

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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Aquatic Resource Compensation Calculator Version 1.0

Inputs		Proposed Impact Site				Proposed Mitigation Site								
Time Horizon: 75		Impact Year: 2022												
Project # :	SWF-	TXRAM Score Divided by 100			Balance	Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Project Name:	Dallas Floodway Project	Baseline Condition	Post-Impact	Units Ac or LF	Units Ac or LF	Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Assessment Area and Impact Type														
WAA-32 Ecosystem River		0.55	0.00	1.25	0	Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.93	0.93

Outputs	Compensation Ratios	
Mitigation : Impact		Ratio
M vs I (1)	>=	0.75

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2022

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-33 Ecosystem River	0.58	0.00	5.04	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	3.95	3.95

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.78

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2022

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-36 Ecosystem River	0.60	0.00	0.48	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	0.39	0.39

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type	Proposed Impact Site (Impact Year: 2023) TXRAM Score Divided by 100 Baseline Condition	Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-44 Ecosystem River	0.58	0.00	12.64	
Reach Continued	0.58	0.00		0.85
				0

Proposed Mitigation Site: Mitigation Area & Type	Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100 Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	9.81	9.15
Restoration BVP 19	2024	2054	20	0.00	0.74	0.83	0.63	0.63

Outputs

Mitigation : / Impact	Compensation Ratios	Ratio
M vs I (1)	>=	0.78
IR vs MR2	>=	0.74

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2023

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-46 Ecosystem River	0.57	0.00	1.56	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 19	2024	2054	20 %	0.00	0.74	0.83	1.14	1.14

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.73

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2023

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-48 Ecosystem River	0.55	0.00	1.26	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 19	2024	2054	20 %	0.00	0.74	0.83	0.89	0.89

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.70

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2023

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-52 Ecosystem River	0.58	0.00	1.26	
Reach Continued	0.58	0.00		0.18
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 19	2024	2054	20 %	0.00	0.74	0.83	0.93	0.79
Restoration BVP 20	2024	2054	20	0.00	0.74	0.83	0.14	0.14

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.73
IR vs MR2	>=	0.73

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-53 Ecosystem River	0.58	0.00	4.12	
Reach Continued	0.58	0.00		0.03
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 59	2029	2030	15 %	0.00	0.68	0.75	3.43	3.41
Restoration BVP 60	2029	2030	15	0.00	0.68	0.75	0.02	0.02

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.83
IR vs MR2	>=	0.83

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-54 Ecosystem River	0.59	0.00	0.25	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.21	0.21

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.84

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs		Proposed Impact Site				Proposed Mitigation Site								
Time Horizon: 75		Impact Year: 2025				Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Project # :	SWF-	TXRAM Score Divided by 100		Units	Balance Units	Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Project Name:	Dallas Floodway Project	Baseline Condition	Post-Impact	Ac or LF	Ac or LF									
Assessment Area and Impact Type														
WAA-56 Ecosystem River		0.56	0.00	0.95	0	Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.76	0.76

Outputs	Compensation Ratios	Ratio
Mitigation : / Impact		
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-59 Ecosystem River	0.61	0.00	0.45	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.39	0.39

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.87

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-60 Ecosystem River	0.61	0.00	1.70	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	1.47	1.47

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.87

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-65 Ecosystem River	0.58	0.00	6.63	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	5.52	5.52

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.83

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-66 Ecosystem River	0.58	0.00	4.10	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	3.42	3.42

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.83

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-67 Ecosystem River	0.57	0.00	5.40	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	4.40	4.40

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-68 Ecosystem River	0.57	0.00	8.07	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	6.54	6.54

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

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d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-69 Ecosystem River	0.59	0.00	12.68	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	10.75	10.75

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.85

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-71 Ecosystem River	0.55	0.00	0.26	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.20	0.20

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.78

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-85 Ecosystem River	0.56	0.00	1.82	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	1.46	1.46

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

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e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-86 Ecosystem River	0.61	0.00	0.48	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.42	0.42

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.87

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

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f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2027

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-1 Recreation	0.58	0.00	0.06	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.05	0.05

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2024

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-4 Recreation	0.59	0.00	0.07	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	0.05	0.05

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.74

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-12 Recreation	0.58	0.00	0.03	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 25	2024	2025	15 %	0.00	0.71	0.78	0.02	0.02

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-14 Recreation	0.58	0.00	0.99	
Reach Continued	0.58	0.00		0.46
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 25	2024	2025	15 %	0.00	0.71	0.78	0.80	0.43
Restoration BVP 26	2024	2025	15	0.00	0.71	0.78	0.37	0.37

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.81
IR vs MR2	>=	0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-15 Recreation	0.58	0.00	0.75	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 26	2024	2025	15%	0.00	0.71	0.78	0.60	0.60

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-19 Recreation	0.58	0.00	0.01	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.83

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-22 Recreation

Proposed Impact Site

Impact Year: 2029

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.57	0.00	0.36	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100			Mitigation	Mitigation
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Required	Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.28	0.28

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.78

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-25 Recreation	0.53	0.00	0.01	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.01	0.01

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.76

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2025

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-26 Recreation	0.56	0.00	0.62	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	0.49	0.49

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-27 Recreation	0.58	0.00	0.73	
Reach Continued	0.58	0.00		0.53
Reach Continued	0.58	0.00		0.04
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 45	2018	2048	15 %	0.00	0.38	0.47	0.97	0.27
Restoration BVP 11	2020	2021	15	0.00	0.66	0.72	0.44	0.41
Restoration BVP 1	2020	2050	20	0.00	0.71	0.81	0.03	0.03

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	1.33
IR vs MR2	>=	0.84
IR vs MR3	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-29 Recreation	0.58	0.00	5.59	
Reach Continued	0.58	0.00		4.99
Reach Continued	0.58	0.00		3.14
Reach Continued	0.58	0.00		0.85
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 26	2024	2025	15 %	0.00	0.71	0.78	4.49	0.48
Restoration BVP 27	2024	2025	15	0.00	0.71	0.78	4.01	1.49
Restoration BVP 17	2024	2025	15	0.00	0.71	0.79	2.49	1.81
Restoration BVP 18	2024	2025	15	0.00	0.72	0.77	0.69	0.69

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80
IR vs MR2	>=	0.80
IR vs MR3	>=	0.79
IR vs MR4	>=	0.81

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2027

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-32 Recreation	0.55	0.00	0.30	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.23	0.23

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.77

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

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c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2019

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-36 Recreation	0.60	0.00	5.87	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 18	2024	2025	15 %	0.00	0.72	0.77	4.98	4.98

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)		>= 0.85

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

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c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2029

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-44 Recreation	0.58	0.00	0.21	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15 %	0.00	0.68	0.75	0.17	0.17

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.79

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

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a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Assessment Area and Impact Type

WAA-46 Recreation

Proposed Impact Site

Impact Year: 2027

TXRAM Score Divided by 100		Units	Balance Units
Baseline Condition	Post-Impact	Ac or LF	Ac or LF
0.57	0.00	1.49	0

Proposed Mitigation Site

Mitigation Work Timing & Risk of Failure				TXRAM ScoreDivided by 100				
Mitigation Area & Type	Year Started	Year Matured	Failure Risk	Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 60	2029	2030	15%	0.00	0.68	0.75	1.19	1.19

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-48 Recreation	0.55	0.00	0.73	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 1	2020	2050	20 %	0.00	0.71	0.81	0.54	0.54

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.75

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

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2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

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c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-50 Recreation	0.60	0.00	0.15	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 1	2020	2050	20 %	0.00	0.71	0.81	0.12	0.12

Outputs

Mitigation : / Impact	Compensation Ratios	Ratio
M vs I (1)	>=	0.80

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-52 Recreation	0.58	0.00	1.02	
Reach Continued	0.58	0.00		0.38
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 1	2020	2050	20 %	0.00	0.71	0.81	0.80	0.50
Restoration BVP 2	2020	2050	20	0.00	0.71	0.81	0.30	0.30

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.78
IR vs MR2	>=	0.78

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-54 Recreation	0.59	0.00	5.70	
Reach Continued	0.59	0.00		3.85
				0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 2	2020	2050	20 %	0.00	0.71	0.81	4.52	1.47
Restoration BVP 3	2020	2050	20	0.00	0.71	0.81	3.05	3.05

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.79
IR vs MR2	>=	0.79

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-59 Recreation	0.61	0.00	0.15	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 1	2020	2050	20 %	0.00	0.71	0.81	0.12	0.12

Outputs

Impact	Compensation Ratios	Ratio
M vs I (1)	>=	0.82

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-66 Recreation	0.58	0.00	0.40	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 1	2020	2050	20 %	0.00	0.71	0.81	0.31	0.31

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.78

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2024

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-68 Recreation	0.57	0.00	0.03	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	0.02	0.02

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.71

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

c) For each Assessment Area, Input the predicted TXRAM Score after the proposed impacts would occur (i.e., Post-Impact)

d) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Assessment Area associated with the proposed impact

2) Describe the proposed mitigation used to offset proposed impacts:

a) For each Mitigation Area and Type, using only the gray boxes, input the date at which time the proposed mitigation would take place (i.e., Year Started)

b) For each Mitigation Area and Type, input the predicted year at which when the mitigation project would the time at which the predicted At Maturity TXRAM Score would be achieved (i.e., Year Matured).

c) Input the estimated Risk of Failure for the each proposed mitigation activity (Mitigation Area and Type)

d) For each proposed mitigation activity, input the baseline TXRAM Score, the predicted TXRAM Score at the end of the USACE monitoring period (Release of Monitoring) and the predicted TXRAM Score at the year fully matured (At Maturity).

e) Using acres (AC) for wetlands and linear feet (LF) for streams, input the units of measure for each Mitigation Area associated with the proposed compensation, indicate the linear distance of the proposed mitigation offered to offset proposed impacts

f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2024

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-69 Recreation	0.59	0.00	0.13	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	0.10	0.10

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.74

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

b) For each Assessment Area (aquatic resource of one given type with homogeneous baseline conditions) input the baseline TXRAM Score (i.e., Pre-Impact)

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f) If necessary, (indicated by a balance > 0 in Column P), continue with additional mitigation sites

Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2024

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-71 Recreation	0.59	0.00	0.20	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM Score Divided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 20	2024	2054	20 %	0.00	0.74	0.83	0.15	0.15

Outputs

Compensation Ratios

Mitigation : / Impact		Ratio
M vs I (1)	>=	0.74

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

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Use a separate spreadsheet for each Assessment Area (aqutic resource of one given type with homogenous baseline conditions) .

Aquatic Resource Compensation Calculator Version 1.0

Inputs

Time Horizon: 75

Project # : SWF-

Project Name: Dallas Floodway Project

Proposed Impact Site

Impact Year: 2017

Assessment Area and Impact Type	TXRAM Score Divided by 100 Baseline Condition	TXRAM Score Divided by 100 Post-Impact	Units Ac or LF	Balance Units Ac or LF
WAA-87 Recreation	0.59	0.00	0.14	0

Proposed Mitigation Site

Mitigation Area & Type	Mitigation Work Timing & Risk of Failure: Year Started	Year Matured	Failure Risk	TXRAM ScoreDivided by 100: Baseline	Release of Monitoring	At Maturity	Mitigation Required	Mitigation Proposed (Ac or LF)
Restoration BVP 3	2020	2050	20 %	0.00	0.71	0.81	0.11	0.11

Outputs

Compensation Ratios

Mitigation : / Impact	Ratio
M vs I (1)	>= 0.79

Instructions

1) Describe the project Impacts:

a) For each Assessment Area (aqutic resource of one given type with homogenous baseline conditions), using only the gray boxes, indicate when the impact(s) would occur (i.e., Impact Year)

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