

**COASTAL PLAIN QUALITATIVE STREAM ASSESSMENT**

|                            |                                |          |      |
|----------------------------|--------------------------------|----------|------|
| Project Name:              | Twin Pines Heavy Minerals Mine |          |      |
| Impact Reach Name:         | S6                             |          |      |
| Stream Type:               | Ephemeral/Intermittent         |          |      |
| Catchment Size (in Acres): | 98.00                          | Sq. Mi.: | 0.15 |
| SAR Center Coordinates:    | 30.53129959, -82.09629822      |          |      |
| Date:                      | 7/1/2019                       |          |      |

**Hydrology - 1**

| Value                 | Questions   |
|-----------------------|---|
| No                    | The surface and groundwater hydrology of the assessment reach are free of upstream catchment impairments (e.g., diversions, stormwater management structures, wastewater facilities, agricultural ditches)? (Y/N) |
| No                    | Is the contributing drainage basin of the assessment reach at least 50 percent forested? (Y/N)  |
| <b>FUNCTION SCORE</b> | <b>Low</b>  |

**Hydraulics - 2**

| Value                 | Questions   |
|-----------------------|---|
| Yes                   | Is the assessment reach connected to it's floodplain at bankfull event? (Y/N) |
| No                    | Are there headcuts in the assessment reach? (Y/N)                             |
| No                    | Has the assessment reach been previously straightened? (Y/N)                  |
| <b>FUNCTION SCORE</b> | <b>High</b>   |

**Geomorphology - 3**

| Value                 | Questions  |
|-----------------------|--|
| Yes                   | Does the assessment reach have bedform diversity (i.e., the presence of riffle/pool or step/pool complexes)? (Y/N) |
| No                    | Is there high bank erosion present throughout the assessment reach? (Y/N)  |
| Yes                   | Is there large woody debris (LWD) in the assessment reach? (Y/N)   |
| Yes                   | Is there a woody riparian buffer (i.e., 25 feet in width) adjacent to both sides of the assessment reach? (Y/N)    |
| <b>FUNCTION SCORE</b> | <b>High</b>  |

**Chemistry - 4**

| Value                 | Questions   |
|-----------------------|---|
| No                    | Is the contributing drainage basin of the assessment reach at least 50 percent of the forested? (Y/N) |
| No                    | Is the assessment reach designated as an impaired water on the most recent 303(D)/305(b) list?        |
| <b>FUNCTION SCORE</b> | <b>Moderate</b>   |

**Biology - 5**

| Value      | Questions   |
|------------|---|
| Yes        | Is there habitat diversity in the assessment reach (i.e., at least 3 of the following: riffles, pools, steps, overhangs, leaf packs, woody debris)? |
| No         | Is the contributing drainage basin of the assessment reach at least 50 percent of the forested? (Y/N)   |
| <b>SUM</b> | <b>Moderate</b>   |

|   |                 |
|---|-----------------|
| <b>STREAM QUALITATIVE FUNCTIONAL CAPACITY SCORE</b> | <b>Moderate</b> |
|---|-----------------|

**Legend**

- Green Cell = User must manually input information.
- Orange Cells = User must select the index choice from the drop-down list.
- Grey Cells = The calculation of these cells is automated.
- Dark Grey Cells = These cells do not require input. The corresponding index value is populated from the user input to a previous question.