Smart, Safe Growth for the CNMI

SSG Project Evaluation Tool in ArcGIS Survey 123



Purpose

- SSG overview
- Introduce SSG project evaluation tool
- Provide roles and responsibilities for completing project evaluations
- Process for completing project evaluations

Learning Objectives

- Learn to use the tool to evaluate and improve project conformance with SSG principles
- Understand how SSG principles support the CSDP
- Learn how to input data into the evaluation tool
- Learn to access supporting SSG resources to support determinations/recommendations
- Demonstrate ability to complete a project evaluation

Learning Tool

SMART, SAFE GROWTH
GUIDANCE AND RECOVERY AND HAZARD MITIGATION PLANNING
FOR THE CNMI

Training Module 6 - SSG Evaluation Tool Handout 1 Personal Learning Goals Activity Time: 2 Minutes

<u>Instructions:</u> Write down two topics you want to learn more about.
Learning Goal for Topic 1:
Learning Goal for Topic 2:
1 Page

SMART, SAFE GROWTH
GUIDANCE AND RECOVERY AND HAZARD MITIGATION PLANNING
FOR THE CNMI
19 – 28 JULY 2022

Training Module 6 - SSG Evaluation Tool Personal Learning Goal Evaluation Activity Time: 2 Minutes

$\underline{\text{Instructions:}}$ At the end of Module 6, write a few sentences to evaluate your progress toward your learning goals.
Evaluation for Learning Goal for Topic 1:
Evaluation for Learning Goal for Topic 2:
2 Page

Learning Tool

SMART, SAFE GROWTH
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Training Module 6 - SSG Evaluation Tool Handout 2 How Will You Use the Evaluation Tool?

<u>Instructions</u>: As the training module progresses, decide if the following statements are true or false and circle the answer. Be prepared to go over the answers the group.

1.	The Tool outcome will provide specific answers to implement/improve SSG conformance.	True	False
2.	The Tool can be used by private developers to identify and include project features to improve SSG conformance scores.	True	False
3.	An Evaluator Self-Certification Statement is required.	True	False
4.	Links to technical resources and key terms and definitions are provided in the Tool.	True	False
5.	There are 18 SSG Principles.	True	False
6.	The Tool criteria are divided into 7 major sections.	True	False
7.	The Tool will automatically ensure the points associated with the selected project description match the point value enter by the user in the Points for Criteria field.	True	False
8.	The user is responsible to ensure that the points value entered into the Points for Criteria field accurately match the selected project description.	True	False
9.	The are 5 Utilities Demands questions.	True	False
10	Any number can be entered into the Points for Criteria field.	True	False

Comprehensive Planning and SSG

- CSDP identifies growth priorities for the next 10 years
- Public Law 20-20 establishes planning elements
- CSDP adopts SSG principles as a development guideline

SSG Overview

Development strategies

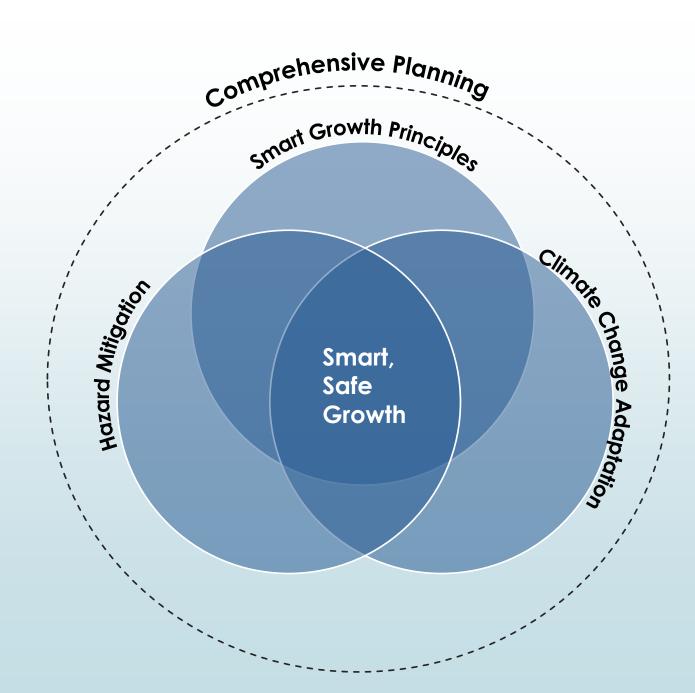
- Improve community
- Strengthen economies
- Protect the natural environment
- Improve the resiliency/recoverability of the built environment

SSG Overview

- SSG emerges from
 - Smart growth
 - Mazard mitigation

 Material

 Mat
 - Climate adaptation



SSG Overview - Principles

- Practical aspects of SSG
- Enable well-informed decision making
- Conceptual guides

Smart, Safe Growth Principles

- 1. Climate Change
- 2. Retreat
- 3. Retrofit
- 4. Critical Facilities Location
- 5. Development Incentives
- 6. Sustainable Development BMPs

- 7. Ecosystem Services
- 8. Green Infrastructure
- Development Decision Processes
- 10. Early Collaboration
- 11. SSG Knowledgeable Communities
- 12. Adaptive Management

Evaluation Tool Development

- CSDP Consider SSG principles in project scoping, planning and implementation
- 2018 Guidance Manual for SSG provides some tools
- Online evaluation tool facilitates
 - Access to evaluation tool and SSG-relevant resources
 - Ensures SSG is considered during review
 - Provides standard outputs for project comparison

Why an Evaluation Tool?

- Standardize project / plan reviews
- Identify or improve project resiliency and sustainability
 - Raise SSG conformance for funding priority
 - Improve federal / territorial grant proposals
- Rank and prioritize projects
- Influence private sector development to include SSG
- Influence the CNMI work-culture toward SSG and sustainable development

Limitation of the Evaluation Tool

- No statutory or regulatory function
- Input / Outcomes require interpretation
- Tool identifies areas of potential

Evaluation Tool Users

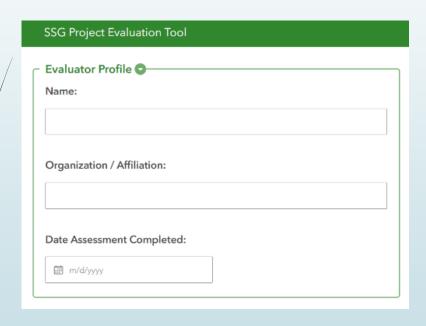
- Agency staff
 - Designers
 - Planners
 - Regulators
- Legislators / Government Officials
- Private Sector Developers

Evaluation Tool Overview

- Project information and survey instructions
- Climate change and hazard mitigation 14 criteria
- Incentives 1 criterion
- Smart growth 6 criteria
- Environmental protection and ecosystem services 5 criteria
- Cultural resources protection 2 criteria
- Utility demand 5 questions

Using the Evaluation Tool – Project / Plan Information

Proposed Project



2
Salpan
E, Garmin, USGS, NGA Powered by 1
Lon:

Development Category:
O Residential
O Commercial
O Public Use Facility
O Utility
Government Office or Building
Brief Description (max 100 words):

Using the Tool –

How to use this SURVEY

This SURVEY presents a series of criteria for assessment of SSG conformance related to the 12 SSG principles in the CNMI Smart, Safe Growth Guidance Manual 2018 (SSG-GM) available here. These criteria are to be applied to the project under review to support assessment of compliance as well as identify potential gaps and opportunities for further incorporation of these principles into project design and implementation. For additional guidance please visit the SSG SURVEY FAQ click here.

For each criteria in this *SURVEY* (numbered 1-28), the Evaluator is provided with a few bullet points to introduce the criteria in the proper context. To help guide selection of the best score, a range of technical resources to facilitate understanding of the criteria in the *SSG* context are <u>available here</u>. These technical resources are provided to allow the Evaluator to pursue specific reference documents to the depth the Evaluator chooses. Finally, where deemed necessary for clarity, definitions for key terms are <u>available here</u>.

The first step for each criterion (1-28) is to determine if the criteria is applicable or not applicable (N/A) to the project. If not applicable, the SURVEY automatically tallies a "0" score of the criteria and adjusts the scoring relative to the maximum points available. The Evaluator then moves on to the next criteria

Where a criterion is applicable to a project, a series of choices with associated scores are presented for the Evaluator to select, depending on how the Evaluator assesses conformance with the indicated SSG principle(s). The SURVEY automatically enters the points associated with the choice selected by the Evaluator into the points field. Then the SURVEY tracks scoring automatically for section sub-totals and total score and includes compensation for any N/A categories.

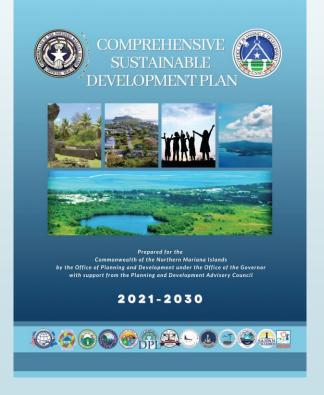
Evaluator Self-certification Statement 🕤
I hereby certify that I have accessed and interpreted the CNMI Smart, Safe Growth Guidance Manual 2018 (SSG-GM), that I am familiar with the 12 SSG principles, and that the SURVEY will be completed truthfully to the best of my knowledge.*
O Yes
O No
Click here to access the Smart, Safe Growth Guidance Manual 2018.
<u>Click here</u> to access the SSG principles.

Evaluator Self-certificationStatement - * required field

Survey Resources

- SSG Guidance Manual
- CSDP
- SSG principles
- Key definitions and criteria background



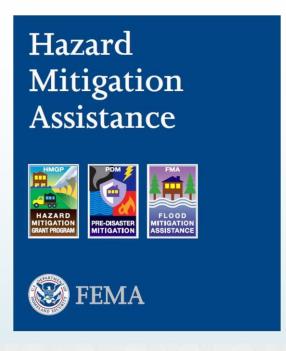


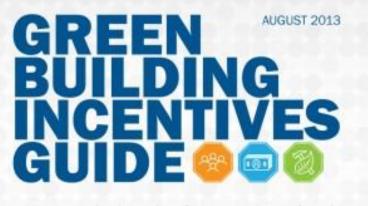
Technical Resources

- Links to OPD SSG digital library
- Collection of technical resources
- Search terms to help find suggested resources
- Research to recommend solutions









Evaluation Criteria

Evaluation Criteria - Begin SURVEY

CLIMATE ADAPTATION AND HAZARD MITIGATION (SSG Principles P1, P2, P3, P4)

<u>Criteria #1 - Future Flooding and Inundation Potential due</u> to SLR and SLC

- Sea Level Rise (SLR) and Sea Level Change (SLC) pose present and continued risk to the built and natural environments in the CNMI
- Planning and mitigating the potential risks of SLR/SLC today can help safeguard public investments and public safety and health, and work towards sustainable communities through SSG.

Click here to access the Smart, Safe Growth Guidance Manual 2018.

 $\underline{\text{Click Here}}$ to access addition background information and key term definitions.

 $\underline{\text{Click Here}}$ to access technical resources in the online SSG reference library.

<u>Technical Resources Search Terms</u>: Climate Adaptation, Climate Change, DCRM, Flooding, NOAA, Regulations, Resilience, Sea Level Rise, SSMP, Smart Growth, SSG Planning Tools, Sustainable Communities

<u>Applicability of Future Flooding and Inundation Potential due to SLR and SLC to the Proposed Project</u>

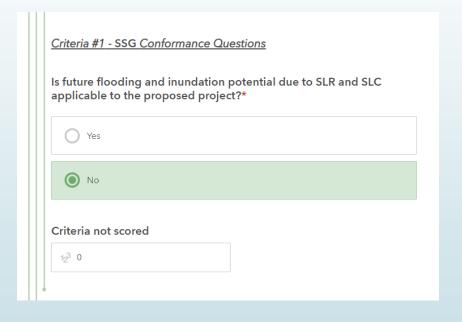
- If the proposed project is located within the FEMA flood zone or the Adopted Flood Scenario zone (i.e., SLR/SLC flood zone), this criterion is applicable and flooding due to SLR and SLC is a potential hazard that should be addressed and possibly mitigated in the project design or proposal.
- If the proposed project is located <u>outside</u> a SLR/SLC flood zone, this criterion is not applicable.

Criteria #1 - SSG Conformance Questions

Is future flooding and inundation potential due to SLR and SLC applicable to the proposed project?*

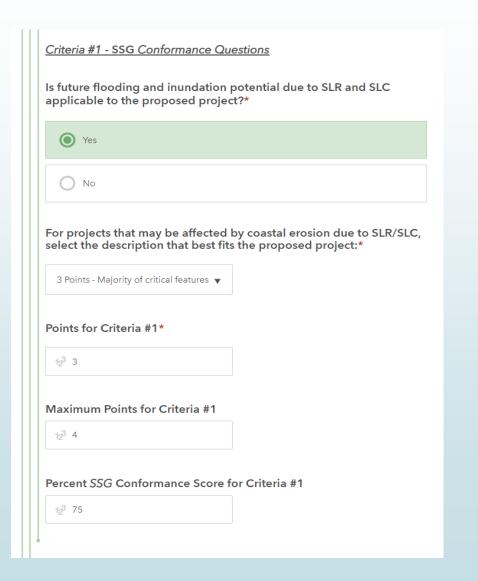
Yes			
No			

Applicable?

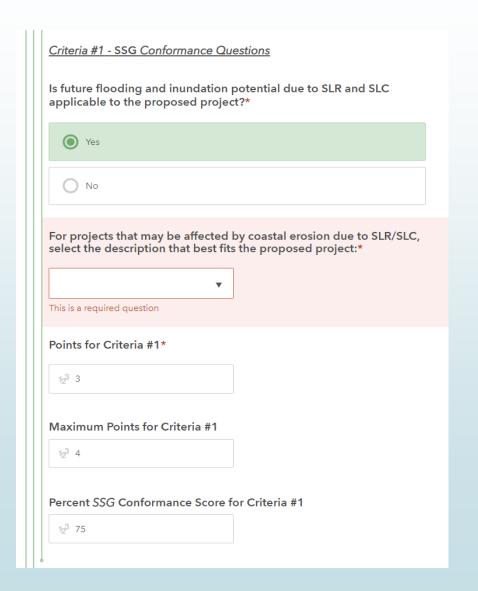


Criteria #1 - SSG Conformance Questions
Is future flooding and inundation potential due to SLR and SLC applicable to the proposed project?*
Yes
O No
For projects that may be affected by coastal erosion due to SLR/SLC, select the description that best fits the proposed project:*
•
Points for Criteria #1*
123
Maximum Points for Criteria #1
123 4
Percent SSG Conformance Score for Criteria #1
123

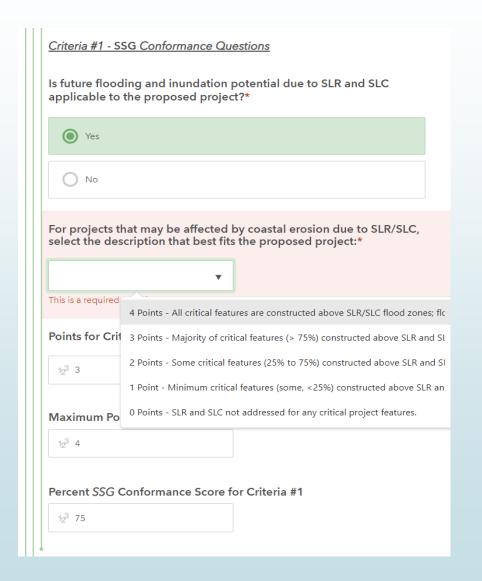
- Select SSG description *required field
- Points *required field
- SSG conformance score



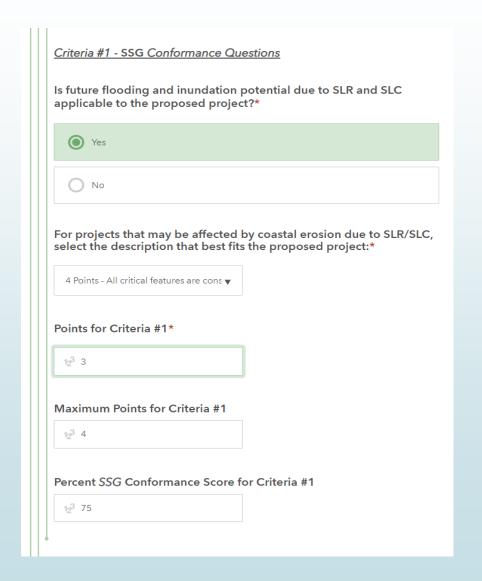
- Change selection
 - Delete entire field contents
 - Make new selection



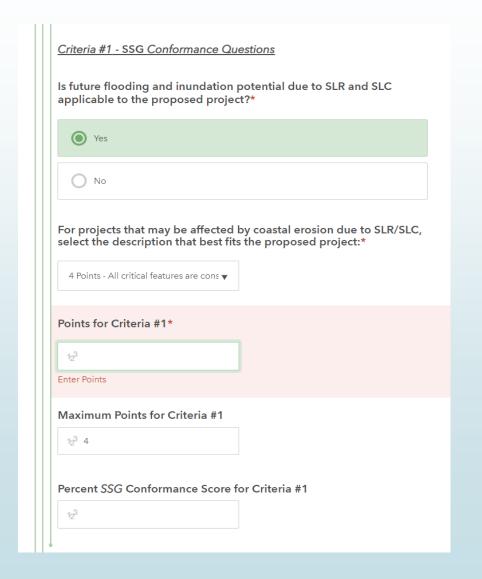
- Required Fields
- Change selection
 - Delete entire field contents
 - Make new selection



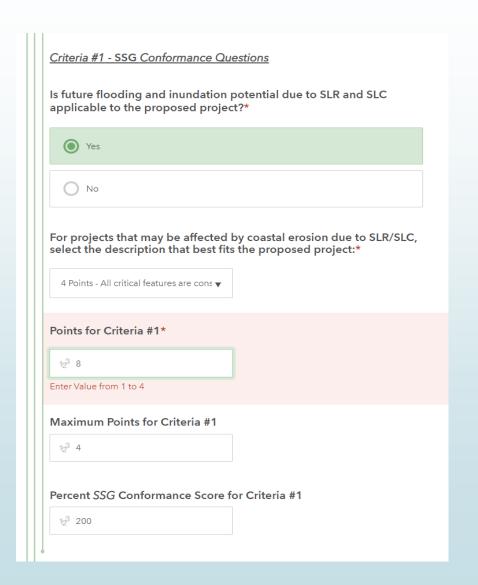
- Change selected description
 - Delete entire field contents
 - Make new selection
 - Change points total



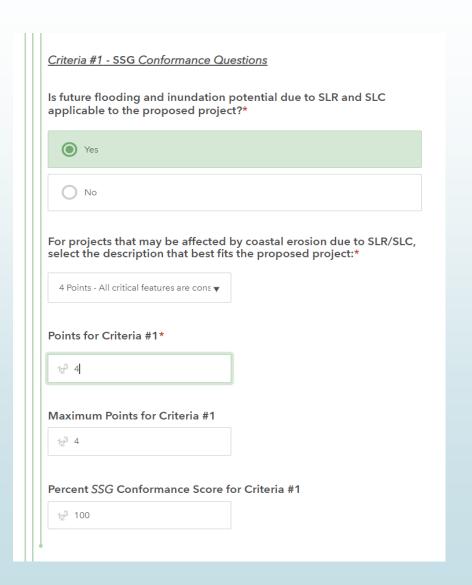
- Change Points for Criteria
 - Delete entire field contents
 - Enter new points



Constraints limit entry options for Points



Ready to go to next criterion



Survey Section Scores

- Total points assigned
- Total points possible based on applicable criteria
- SSG conformance score

SSG Conform MITIGATION		MATE ADAPTATION AND HAZARD
SUBTOTAL o	f Points Assigned for A	Applicable Criteria
123 28		
Number of C	riteria Selected as App	olicable (Max 14 Criteria)
123 10		
Maximum Po	ints Available per App	licable Criteria
Maximum Po	ints Available per App	licable Criteria
123 40	ints Available per App Conformance Score	licable Criteria

Utility Demand Questions

- Utility demand questions
- Not totaled in the final SSG conformance score

Utilities Demand for the Proposed Project



- · Major siting permits require project proponents to estimate utilities demands for electrical power, drinking water consumption, generation of wastewater, and generation of solid
- SSG strategies help to improve the resiliency of utilities systems.
- · Providing information for the categories below will help characterize the overall impact of the proposed project on CNMI utilities systems and resources.
- Although this section does not contribute to the overall SSG conformance score for the project, information provided will help characterize the overall impact of the proposed project on CNMI utilities and highlight additional opportunities to incorporate SSG strategies.

Enter the anticipated electrical power demand for the proposed project.
12 ³
Enter electrical power units.
Enter the anticipated potable water demand for the proposed project (gal/day).
123
Enter the estimated volume of wastewater generated for the proposed project (gal/day).
123
Enter the estimated amount of solid waste generated for the proposed project (lb/person/day).

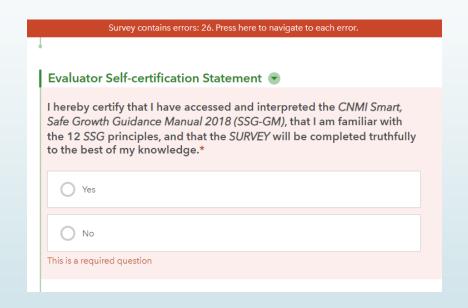
Survey Total Score

- Automatic totals
- Overall score
- Submit the survey

SSG Conformance Metrics for ALL SSG EVALUATION CRITERIA
Total Points Assigned for All Applicable Criteria
t ₂ ³ 66
Total Number of Criteria Selected as Applicable (Max 28 Criteria)
t ₂ 3 22
Total Maximum Points Available per Applicable Criteria
Total Percent SSG Conformance Score for Project
t ₂ 3 75
Submit

Required Field Errors – Self-certification Statement

- Errors display when submitting survey
- Must fix all errors prior to submission



Required Field Errors – Criteria Applicability

Survey contains errors: 27. Press here to navigate to each error. Evaluation Criteria - Begin SURVEY CLIMATE ADAPTATION AND HAZARD MITIGATION (SSG Principles P1, P2, P3, P4) Criteria #1 - Future Flooding and Inundation Potential due to SLR and SLC • Sea Level Rise (SLR) and Sea Level Change (SLC) pose present and continued risk to the built and natural environments in the CNMI. • Planning and mitigating the potential risks of SLR/SLC today can help safeguard public investments and public safety and health, and work towards sustainable communities through SSG. Click here to access the Smart, Safe Growth Guidance Manual 2018. Click Here to access addition background information and key term definitions. Click Here to access technical resources in the online SSG reference library.

<u>Applicability of Future Flooding and Inundation Potential due to SLR and SLC to the Proposed Project</u>

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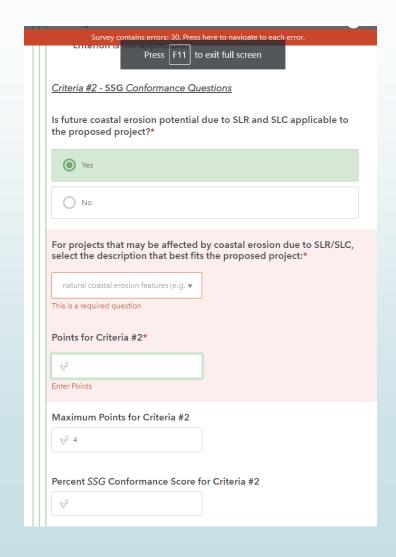
Criteria #1 - SSG Conformance Questions

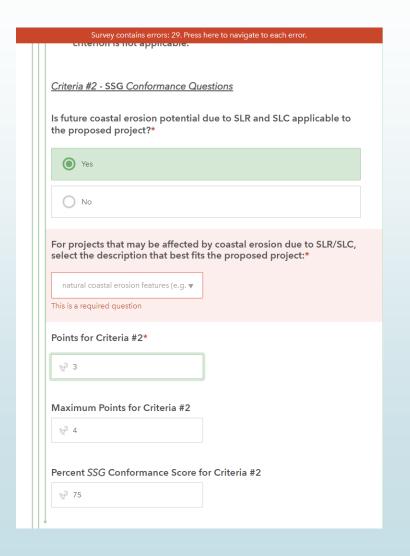
Is future flooding and inundation potential due to SLR and SLC applicable to the proposed project?*

- Yes
- O No

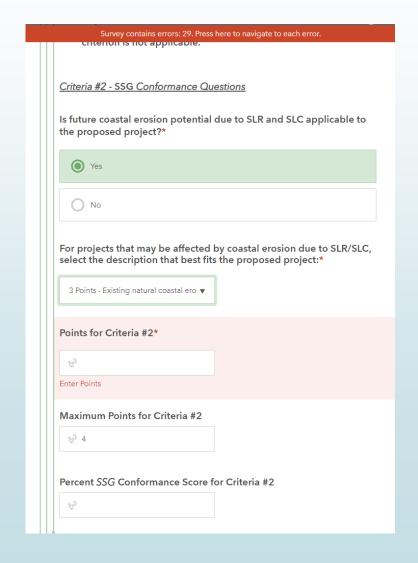
This is a required question

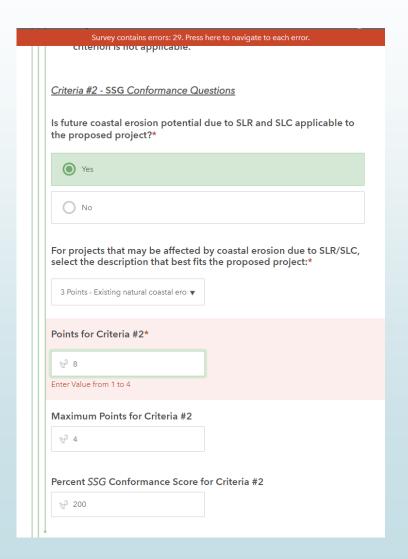
Required Field Errors - Project description





Required Field and Constraint Errors – Points for Criteria





Conclusion

- Standardize reviews for project / plan prioritization
- Through SSG, the tool will help work toward resilient, safe, healthy, and economically viable communities
- Melp CNMI communities to work, live, and build sustainably into the future.

How will you use the Evaluation Tool?

- Review of plans / projects
- Project design
- Plan development
- Other functions???

Activity – Check Learning Goals

- Revisit learning goals written at the beginning of the training module
- Reflect if you met your goals

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Training Module 6 - SSG Evaluation Tool Handout 2 How Will You Use the Evaluation Tool?

<u>Instructions</u>: As the training module progresses, decide if the following statements are true or false and circle the answer. Be prepared to go over the answers the group. 1. The tool outcome will provide a specific answer to implement/improve SSG True (False) conformance. FALSE. The outcome only shows potential areas to improve SSG conformance and the user must interpret the outcome to decide on the best path forward. 2. The Tool can be used by private developers to include project features to improve SSG conformance scores. 3. An Evaluator Self-certification statement is required. 4. Links to technical resources and key terms and definitions are provided in the Tool. 5. There are 18 SSG Principles. FALSE. There are 12. 6. The tool criteria are divided into 7 major sections. FALSE. Criteria are divided into 5 major sections 7. The Tool will automatically ensure the points associated with the selected True (False) project description match the point the user enters into the points field. FALSE. The user must ensure they are entering the correct point value associated with the selected project description. 8. The user is responsible to ensure that the points total entered accurately match the selected project descriptions. 9. The are 5 Utilities Demands questions. 10. Any number can be entered into the Points for Criteria field.

FALSE. The field is constrained to only values associated to the project

descriptions.