

Marine Life Protection Act Initiative



Draft SAT Water and Sediment Quality Evaluation of Round 2 MPA Proposals

Presentation to the MLPA Master Plan Science Advisory Team
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Resources Control Board



Evaluation Scoring Methods

Slight Alteration Made to Scoring Analysis

- Two categories of marine protected areas (MPAs) were identified and analyzed
 - 1) Bay and estuary MPAs
 - 2) Coastal MPAs
- Scores were re-categorized for the following reasons:
 - Ø Bays and estuaries are more likely to be located within stormwater discharge zones
 - Ø Shoreline length issues
 - Ø Bays and estuaries are components in all Round 2 MPA proposals



Evaluation Scoring Methods

- Description of Scores:

- Ø 0.0 is the least desirable and has serious water quality concerns

- Ø 0.75 to 1.0 considered the most desirable, with no water quality concerns

- Ø Scores can be free of water quality concerns and still be 0.75 due to not being co-located with an area of special biological significance (ASBS)

- Ø MPAs with scores over 0.75 indicate they are co-located with an ASBS

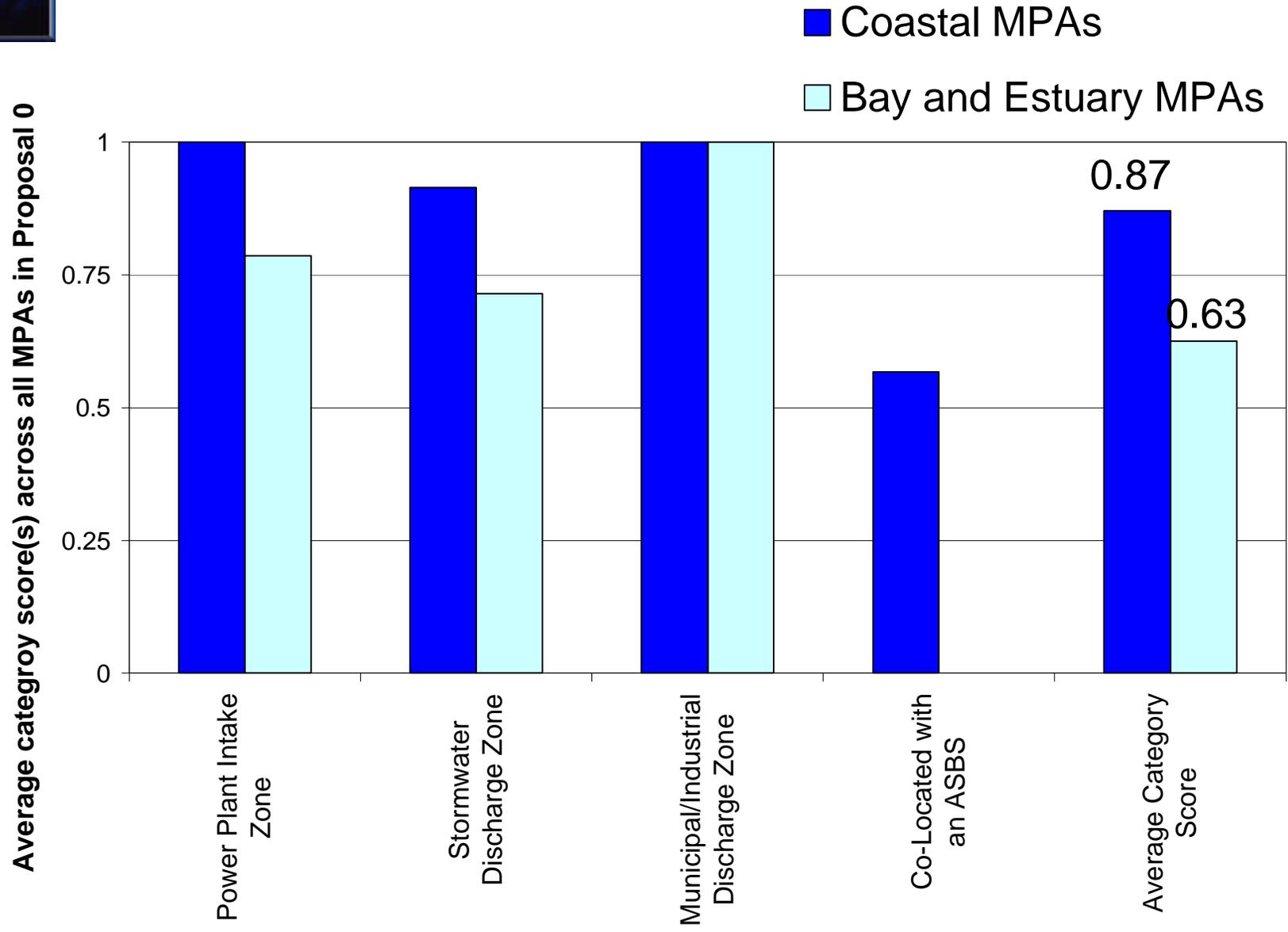


Proposal 0 Summary

- Contains 42 MPAs
- 3 coastal MPAs and 3 bay and estuary MPAs scored lower than 0.75
- 36 MPAs scored between 0.75 and 1.0
- 1 existing MPA co-located in a bay with a power plant intake (Agua Hedionda Lagoon SMR)
- 21 MPAs co-located within ASBSs, 13 of which are located at the Northern Channel Islands (NCI)

SMR = state marine reserve

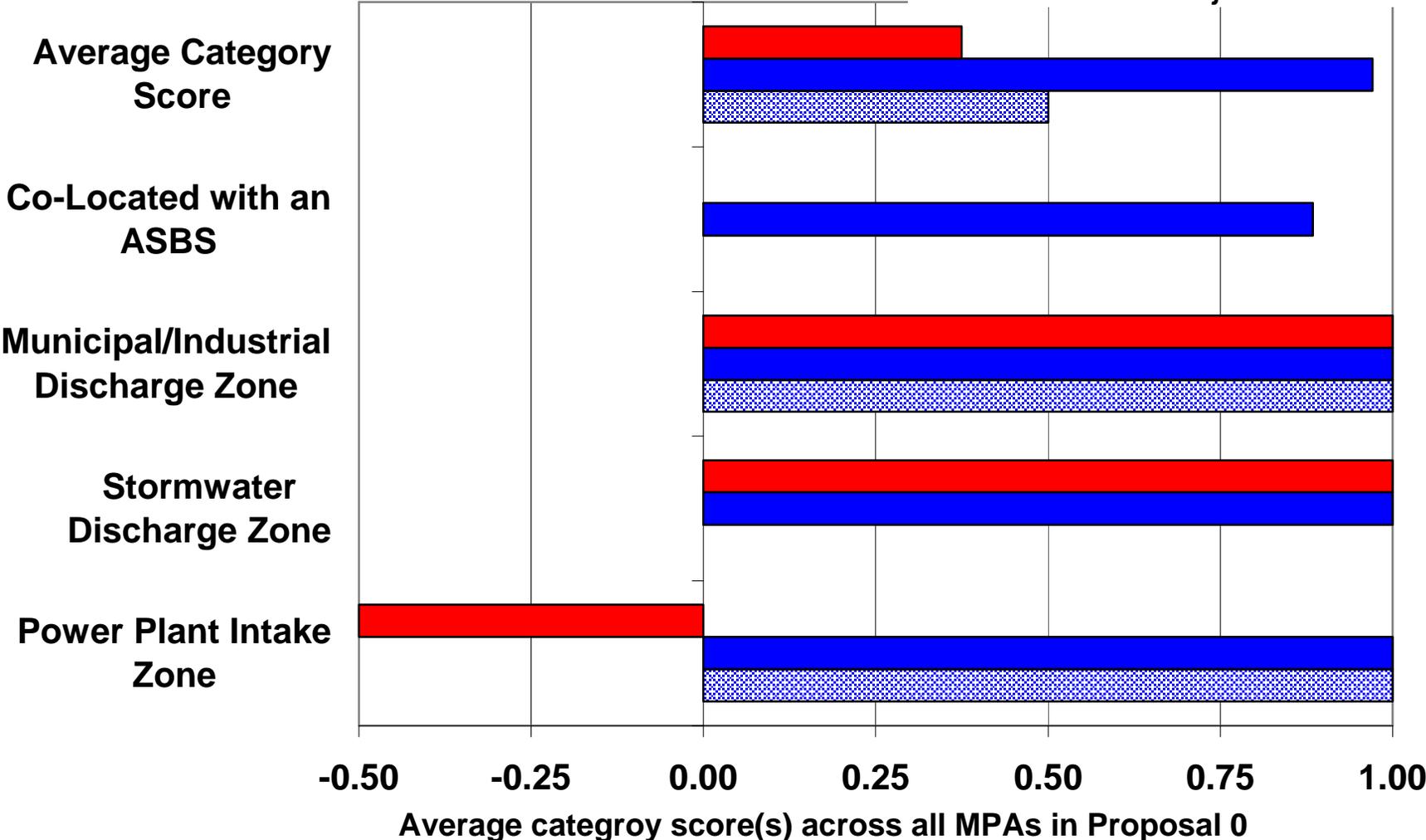
Proposal 0 (existing MPAs)





Proposal 0 (existing MPAs)

- Agua Hedionda Lagoon SMR
- La Jolla SMCA
- Cardiff-San Elijo SMCA



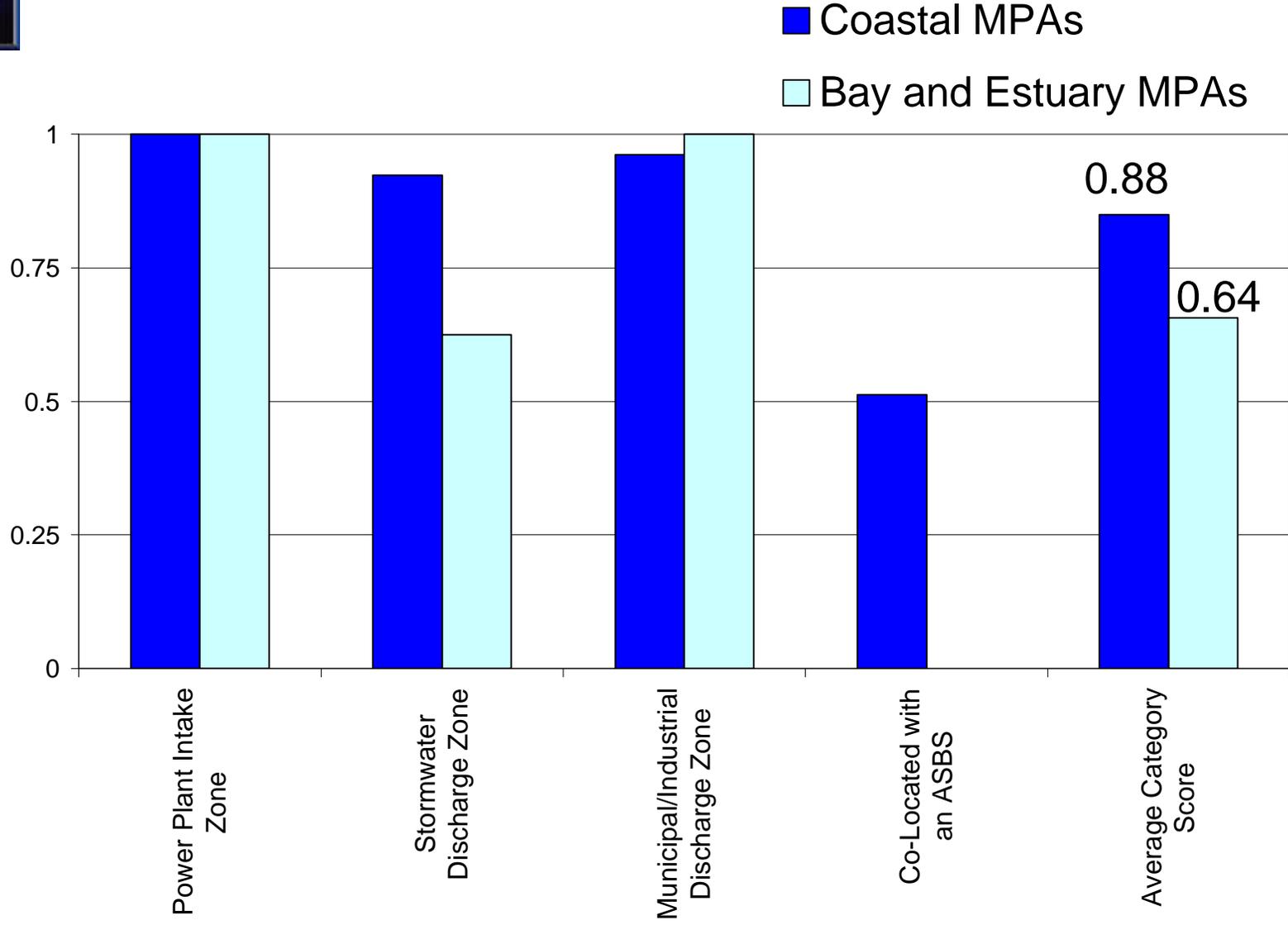


External A Summary

- Contains 47 MPAs
- There were 5 coastal MPAs with scores lower than 0.75 and 5 MPAs located in lagoons that had scores lower than 0.75
- There were 38 MPAs in the entire proposal that scored between 0.75 and 1.0
- Location in wastewater and stormwater discharge zones impacted the scores
- 20 MPAs co-located within ASBS, includes 13 NCI MPAs

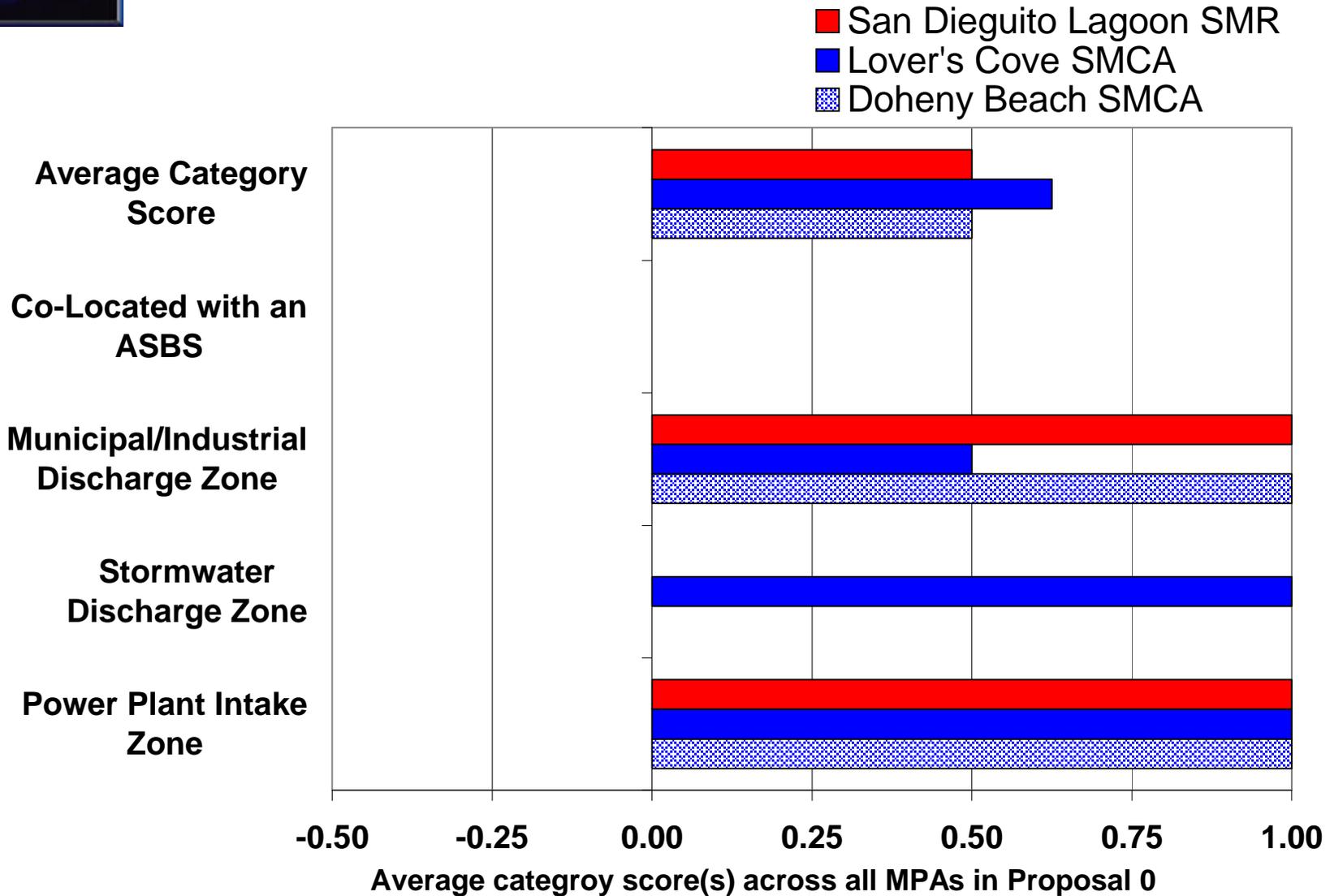
External A

Average category score(s) across all proposed MPAs in External A





External A



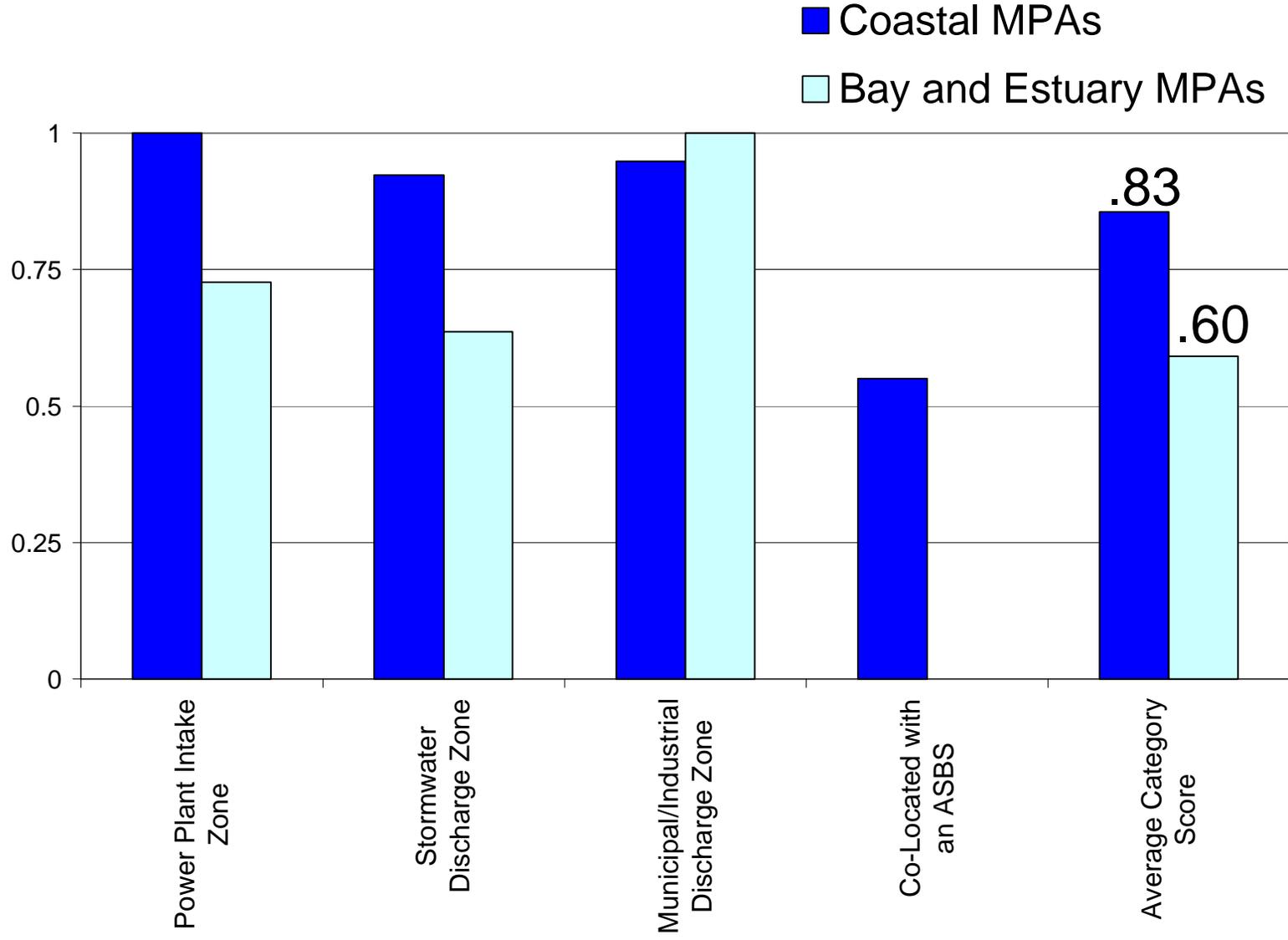


External B Summary

- Contains 50 MPAs
- There were 6 coastal MPAs that scored lower than 0.75 and 6 MPAs located in a bay or lagoon that scored lower than 0.75
- There were 38 MPAs that scored between 0.75 and 1.0
- 1 MPA in San Diego Bay (power plant intake, stormwater discharge)
- Location in wastewater and stormwater discharge zones impacted the scores
- 24 MPAs located within ASBSs (includes 13 NCI MPAs)

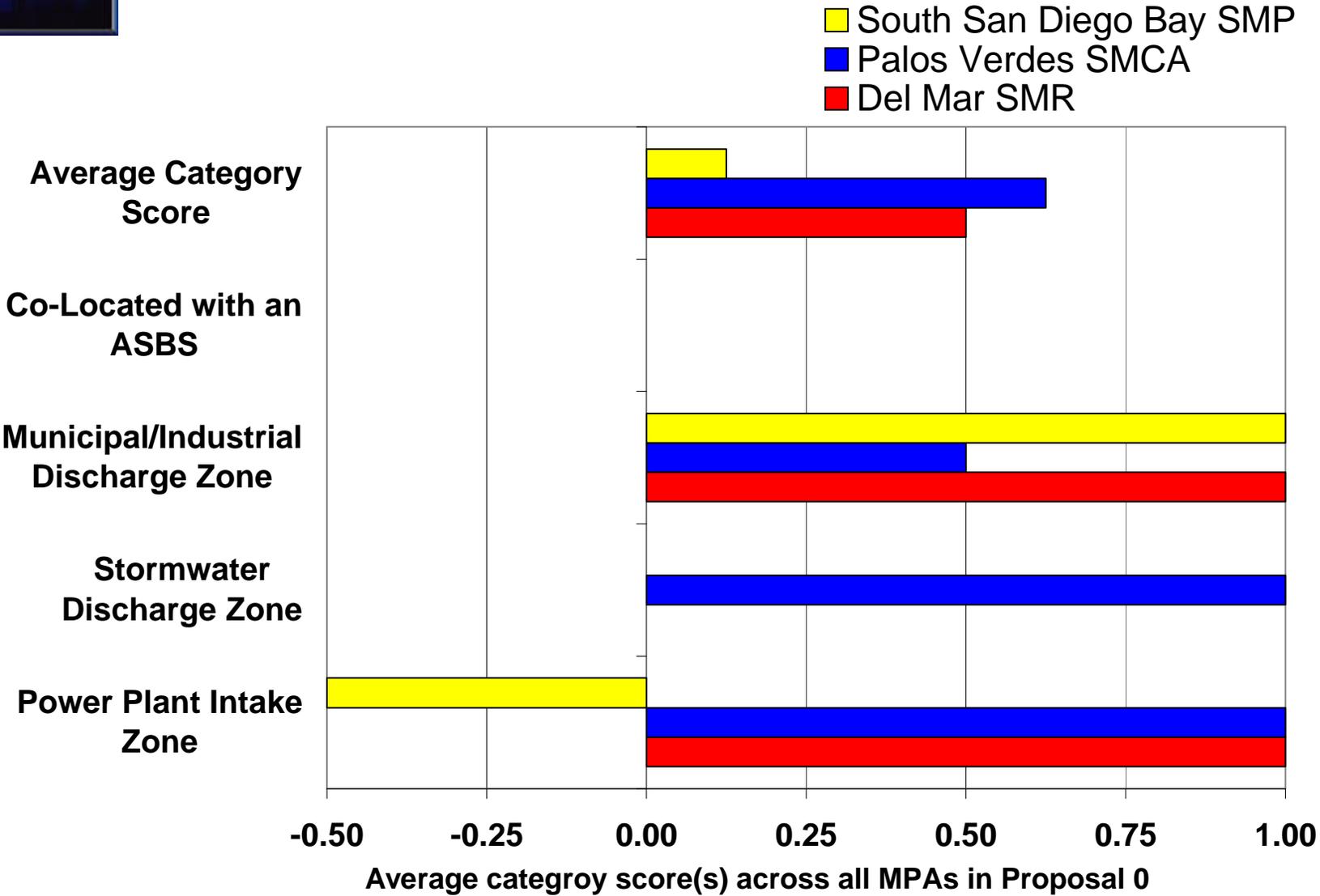
External B

Average category score(s) across all proposed MPAs in External B





External B

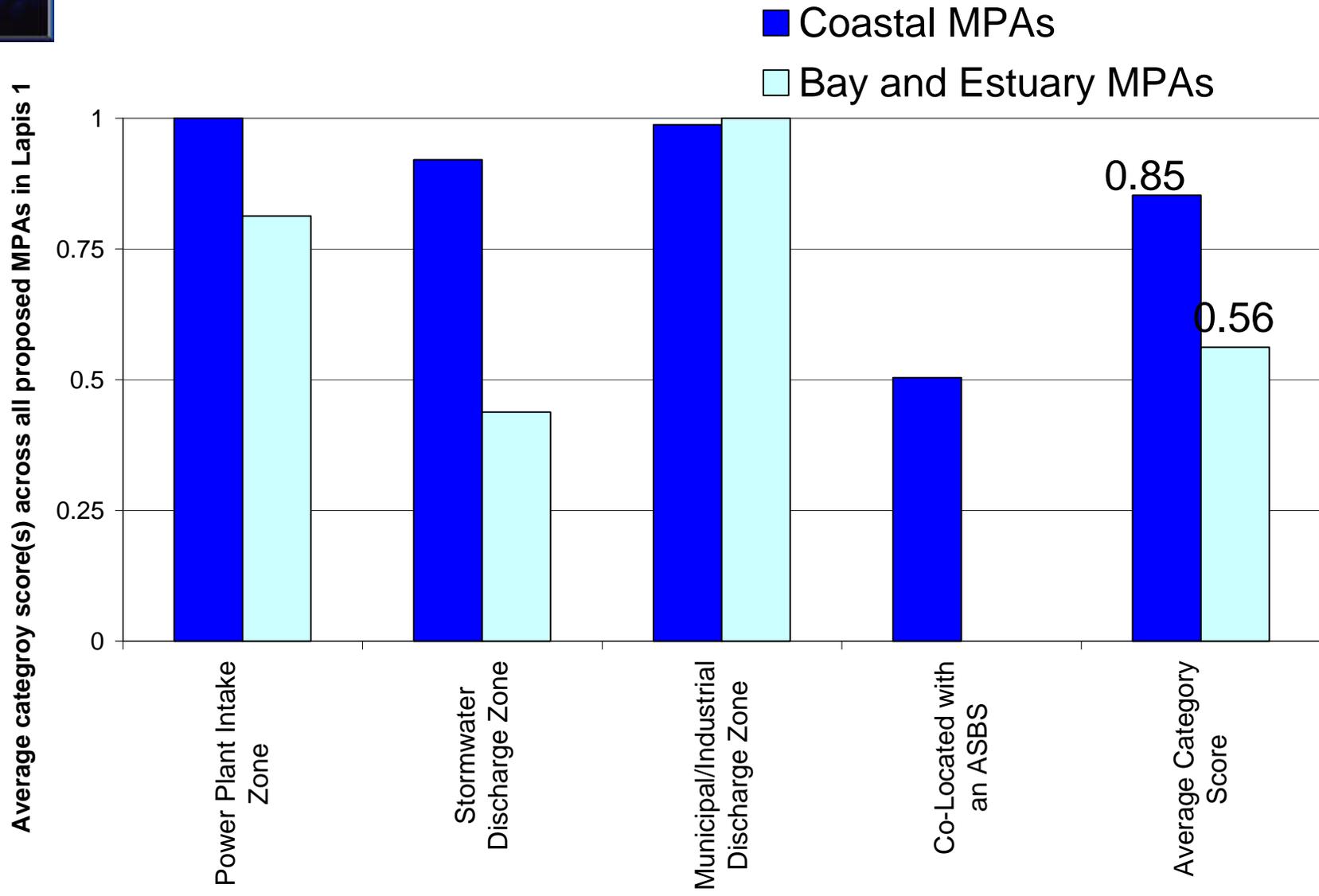




Lapis 1 Summary

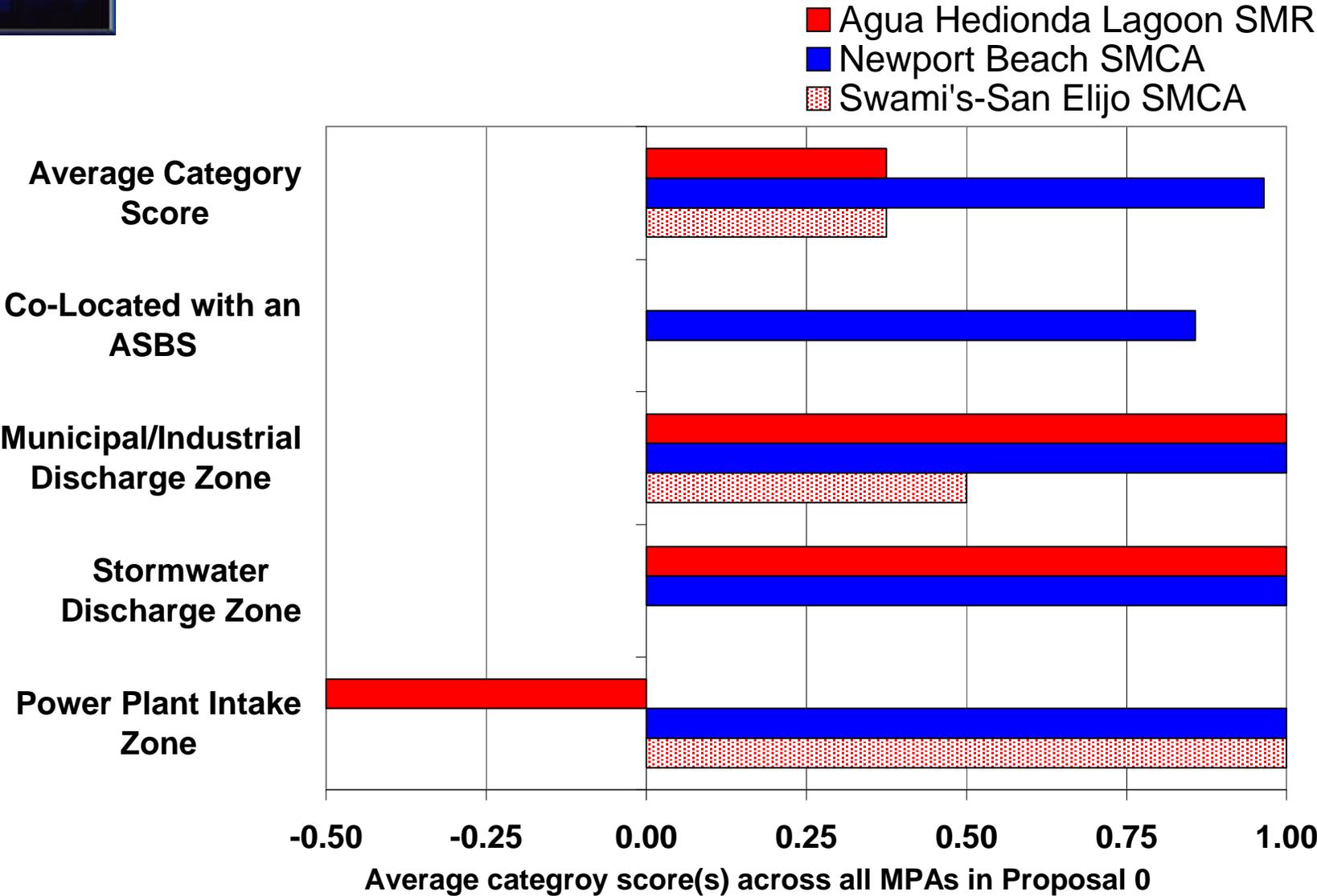
- Contains 54 MPAs
- There were 3 coastal MPAs and 10 MPAs (located in a bay or estuary) that scored lower than 0.75, while there were 41 MPAs that scored between 0.75 and 1.0
- 1 MPA in San Diego Bay
- The Swami's-San Elijo SMCA also scored low (0.38) due to being located within both a stormwater discharge zone and a wastewater discharge zone
- 22 co-located with ASBSs (includes 13 NCI MPAs)

Lapis 1





Lapis 1



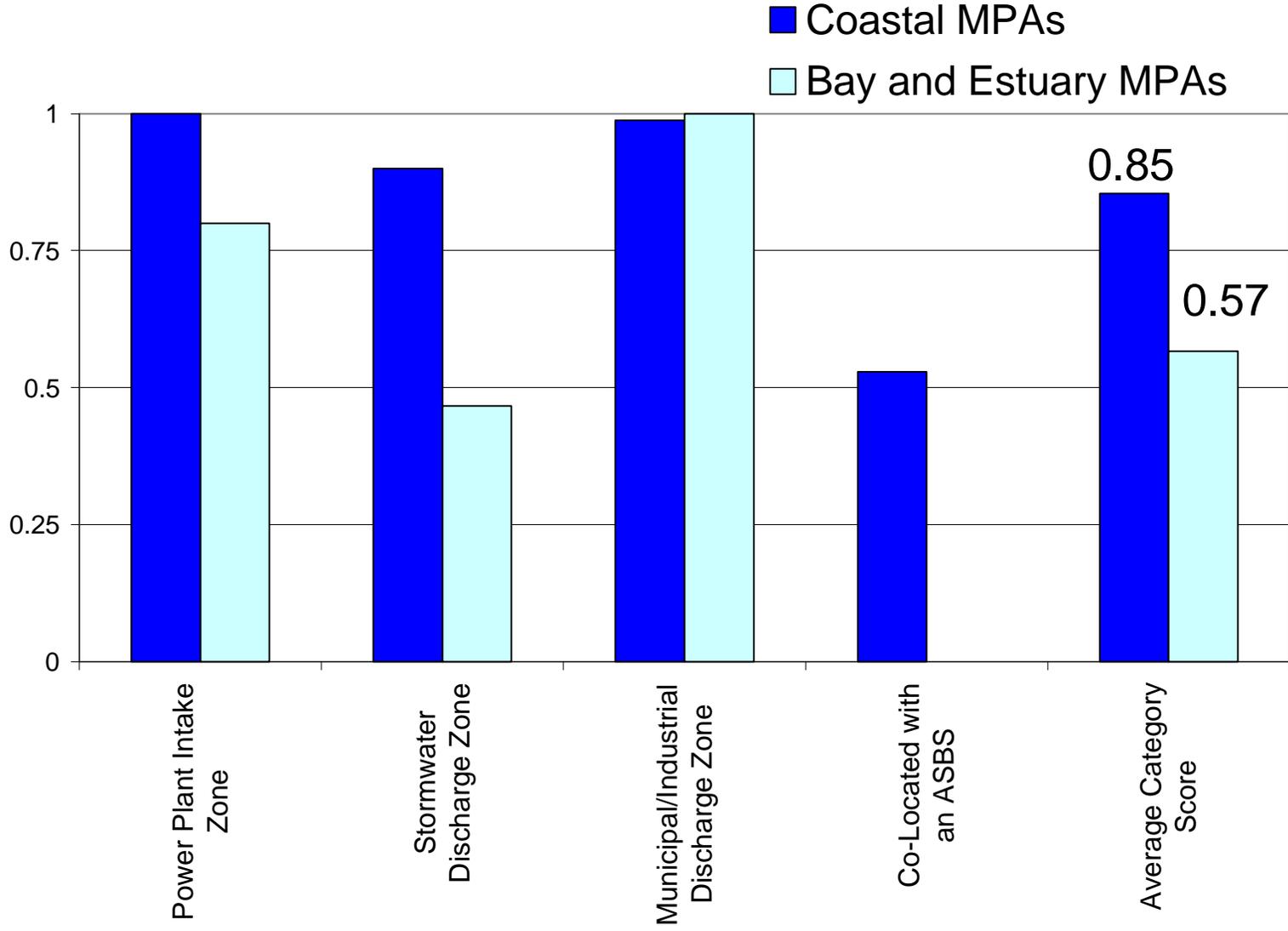


Lapis 2 Summary

- Contains 55 MPAs
- There were 5 coastal MPAs and 9 bay and estuary MPAs that scored lower than 0.75
- There were 41 MPAs which scored between 0.75 and 1.0
- 1 MPA placed in the San Diego Bay (scored 0.13)
- Most poorly scored coastal MPAs were in stormwater discharge zones
- 23 MPAs located within ASBSs (includes 13 NCI MPAs)

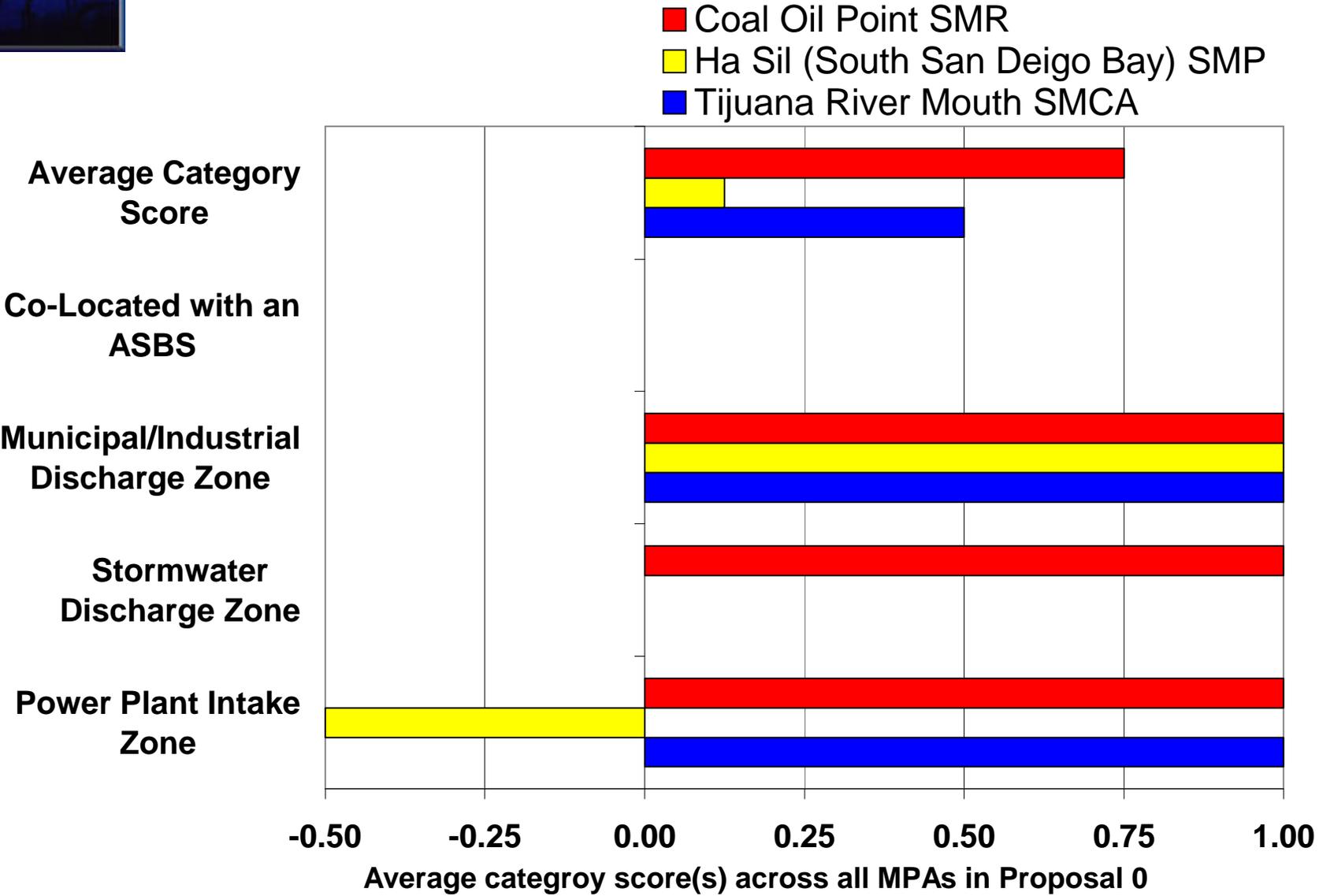
Lapis 2

Average category score(s) across all proposed MPAs in Lapis 2





Lapis 2



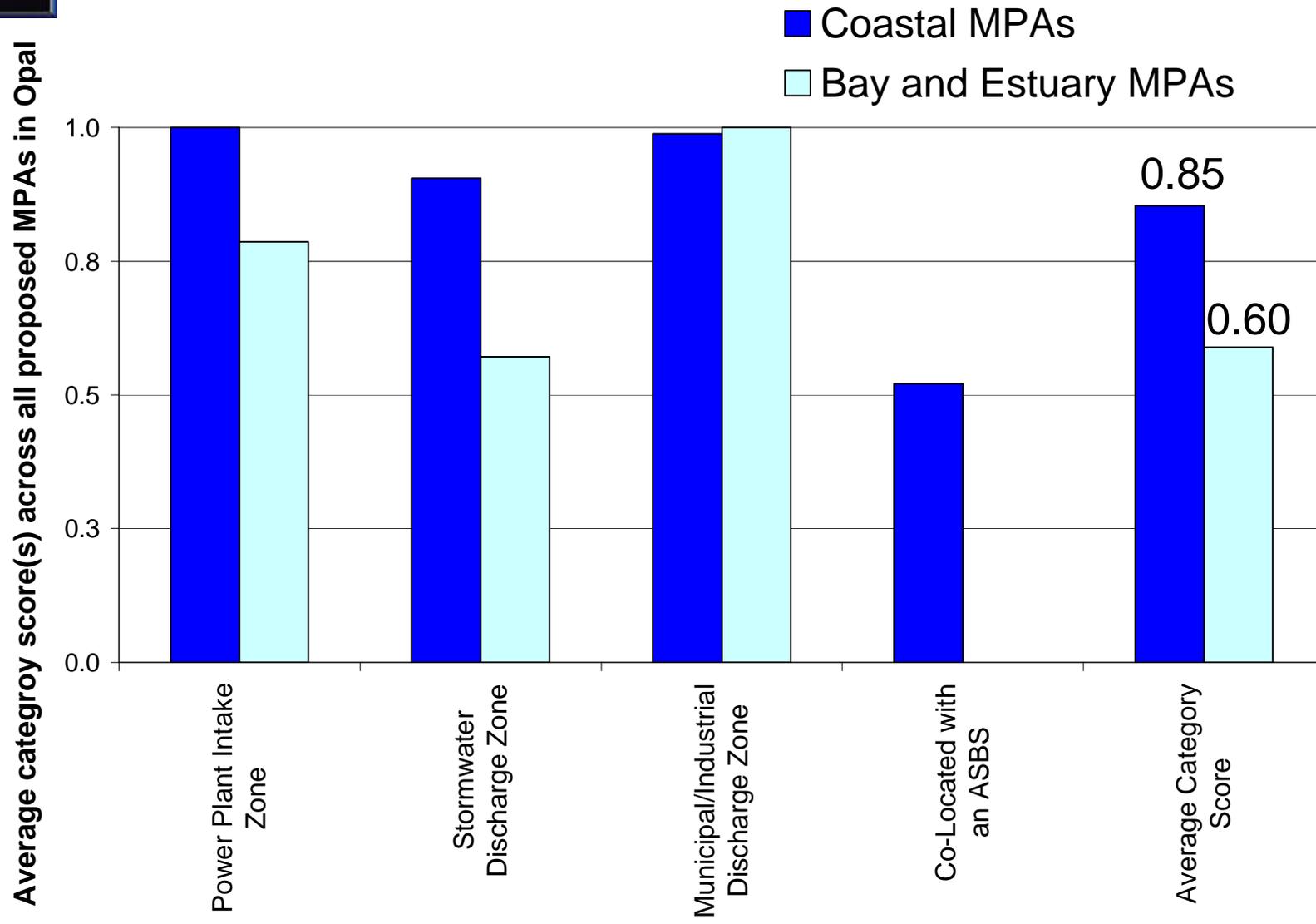


Opal Summary

- Contains 56 MPAs
- 5 coastal MPAs and 6 bay and estuary MPAs scored lower than 0.75
- 44 MPAs scored between 0.75 and 1.0
- 1 MPA placed in the San Diego Bay (scored 0.13)
- Most poorly scored coastal MPAs were in stormwater discharge zones
- 23 MPAs co-located within ASBSs (13 NCI MPAs)



Opal





Opal

- Point Mugu Estuary SMRMA
- Ocean Beach SMCA
- Del Mar SMR

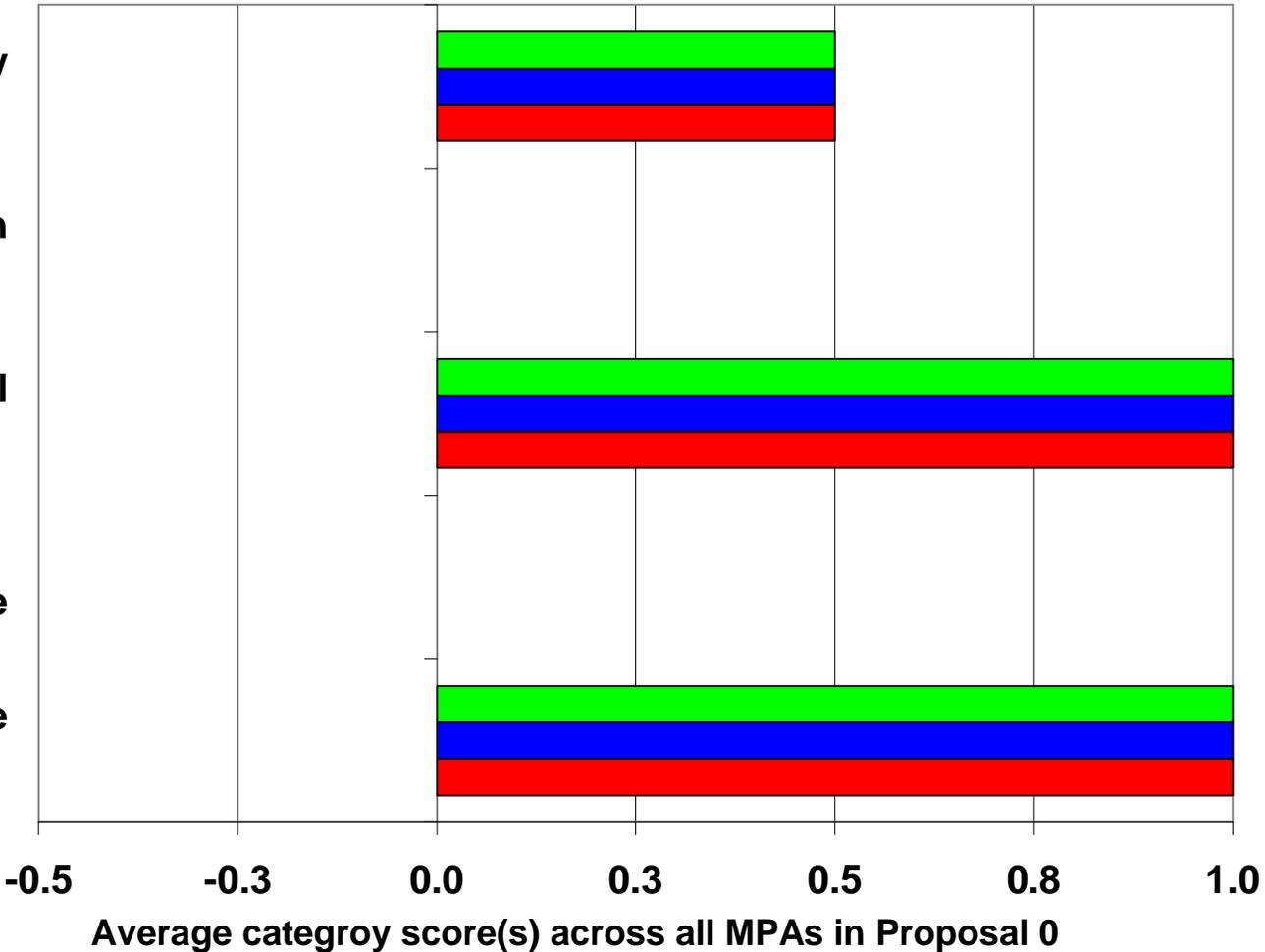
Average Category Score

Co-Located with an ASBS

Municipal/Industrial Discharge Zone

Stormwater Discharge Zone

Power Plant Intake Zone



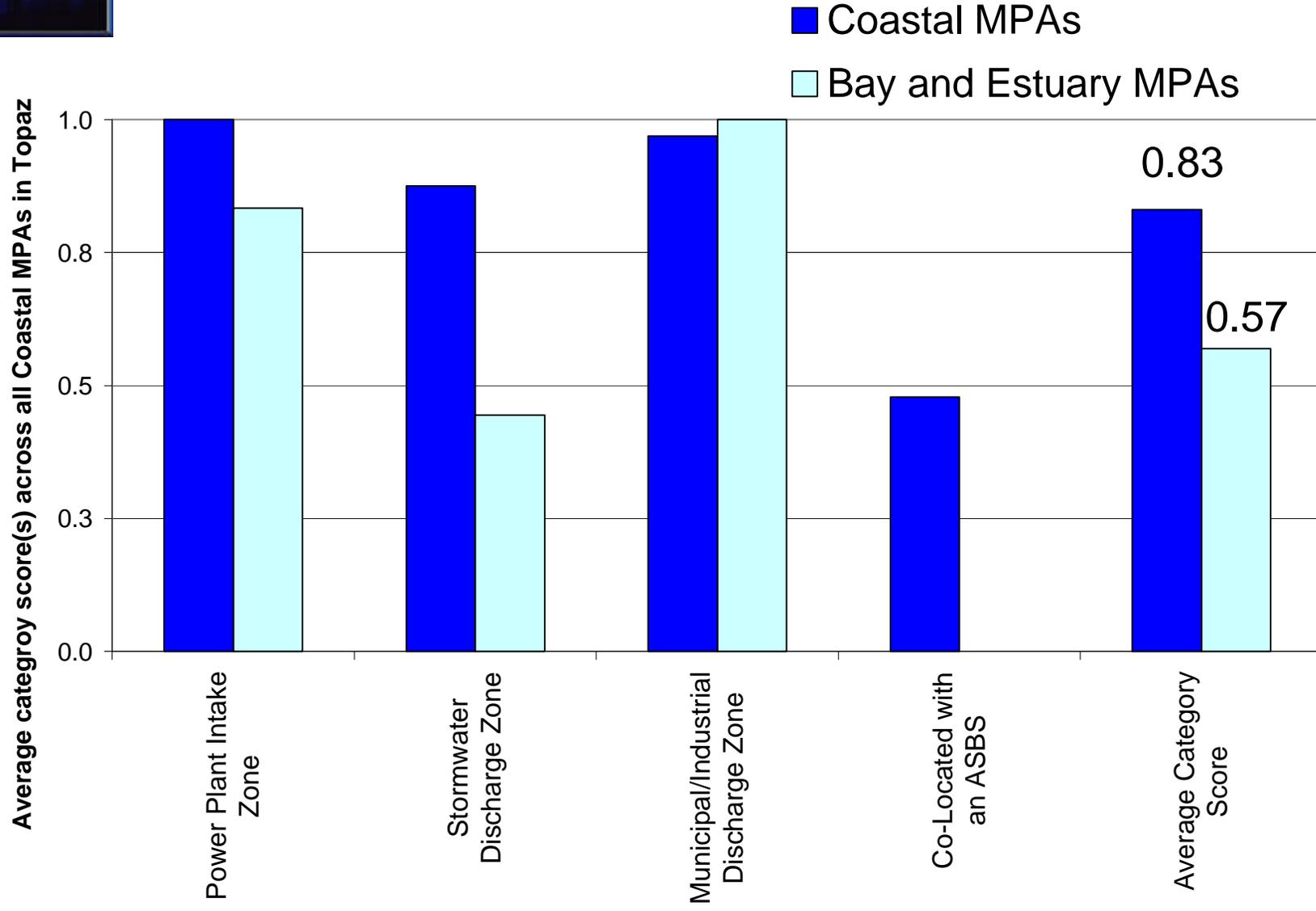


Topaz Summary

- Contains 66 MPAs
- 8 coastal MPAs and 7 bay and estuary MPAs scored lower than 0.75
- 1 MPA placed in the San Diego Bay (scored 0.13)
- Swamis SMCA also scored low (0.38) due to being located within both a stormwater discharge zone and a wastewater discharge zone
- Most poorly scored coastal MPAs were in stormwater discharge zones
- 25 MPAs located within ASBSs (includes NCI MPAS)

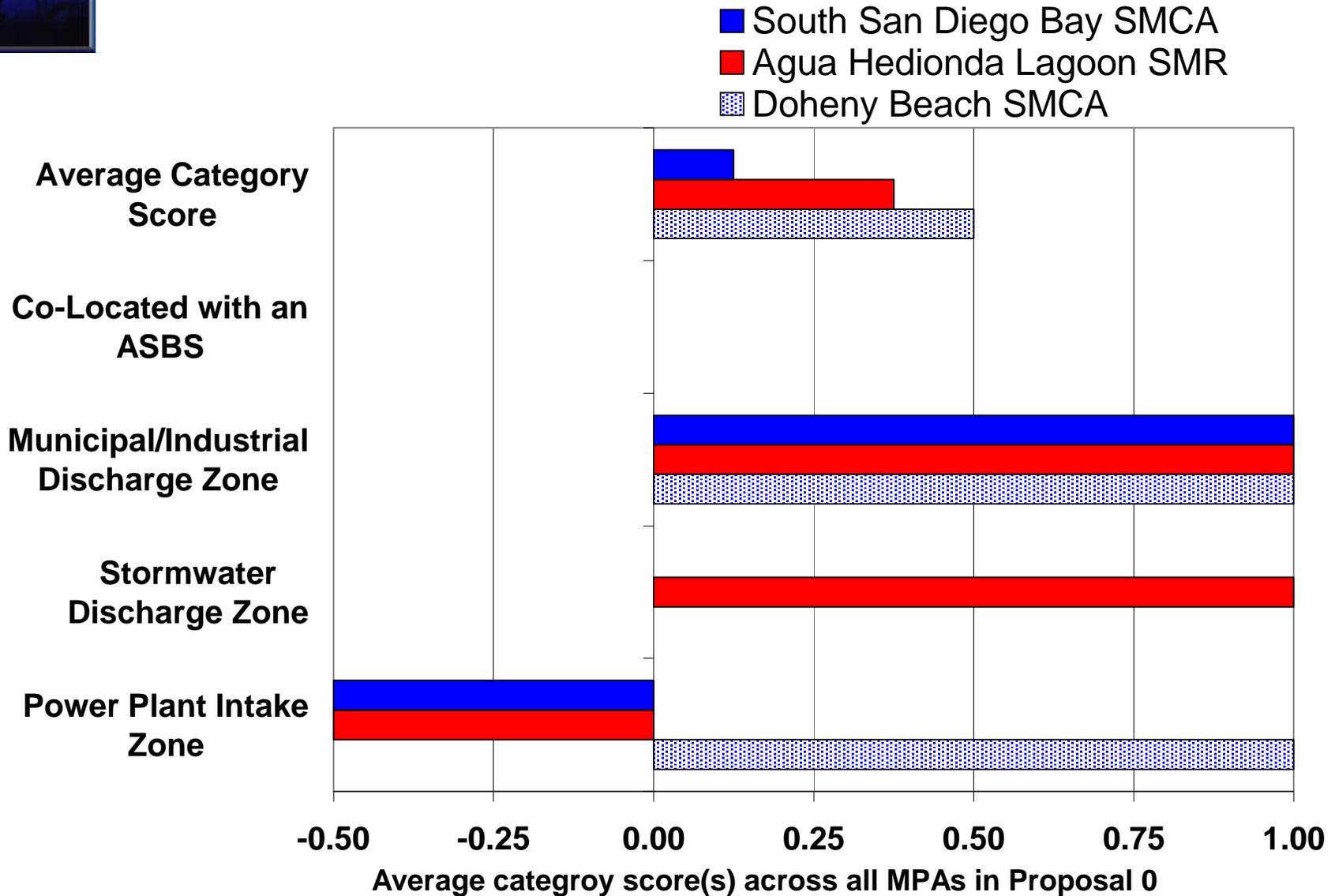


Topaz

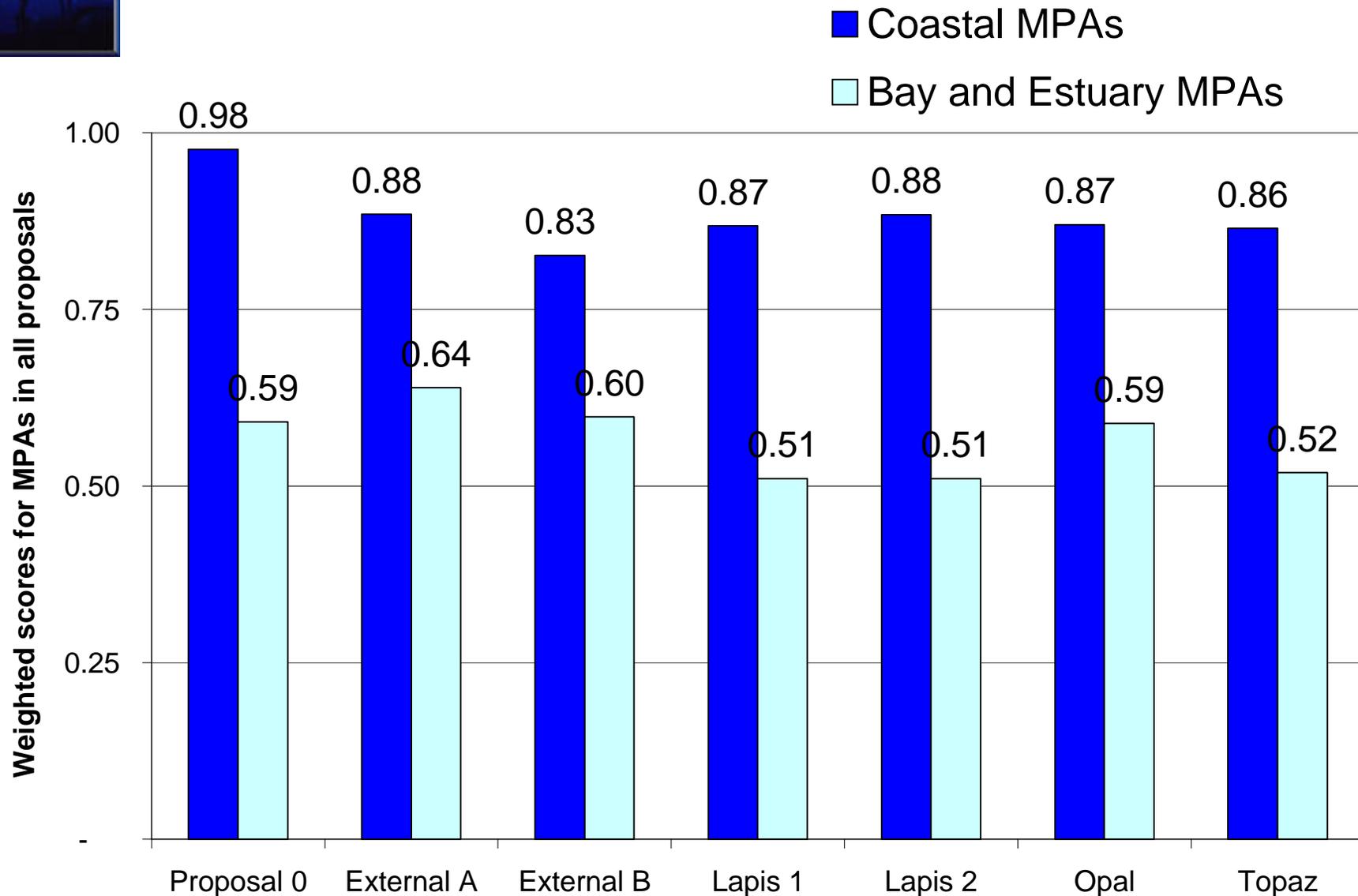




Topaz



Proposal Comparison (weighted scores)





Round 2 Summary

- Overall most coastal MPAs scored well in each proposal
- Bays and estuaries did not score so well
- There were no proposals with coastal MPAs in power plant intake zones
- Where possible, the proposals could receive better scores with a reduction in the number of coastal MPAs in stormwater or wastewater discharge zones