



PILES UNDERWATER INSPECTION

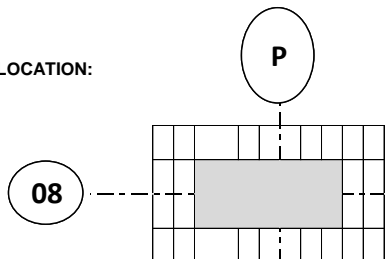
Rev. 1

Date: 07/04/2023

INSPECTION DATE: 4-jul-23

1. PILE DATA

LOCATION:



NOMENCLATURA:

P - 08

PILE DIAMETER:

Underwater inspection was carried out to check the conditions of the pile both on the surface and under water.

PHOTOGRAPHIC RECORD

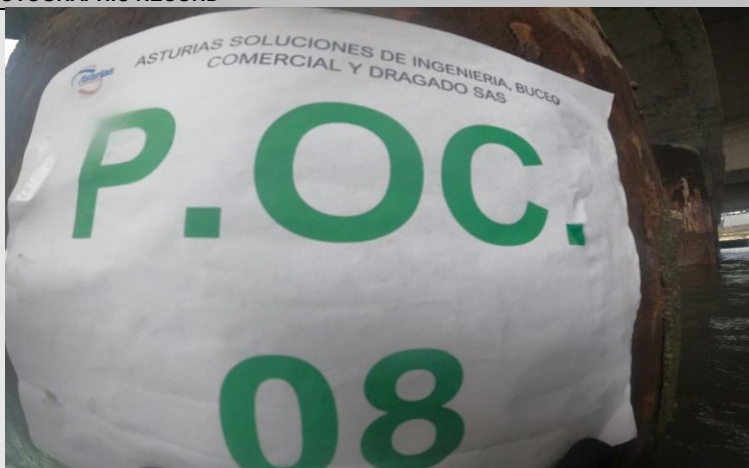


Image 1: Pile - nomenclature P-08

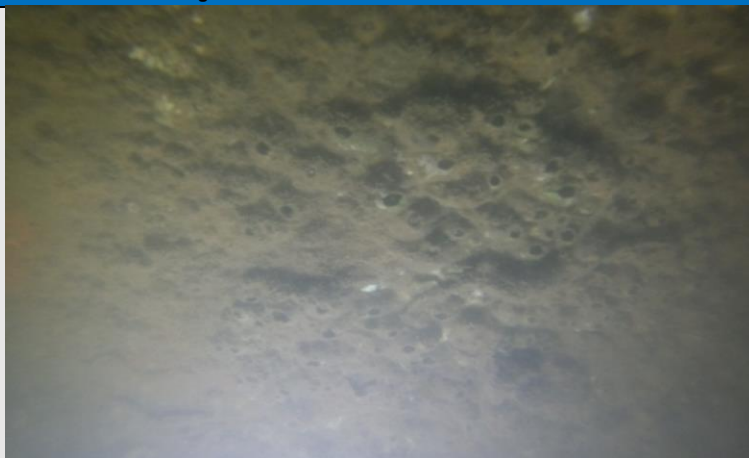


Image 2: Pile P-08 Below tide level covered largely by organisms.



Image 3: Pile P-08 covered by marine organisms and corrosion on patches.



Image 4: Pile P-08 metal expose with presence of corrosion and porosity.



Image 5: Pile P-08 at seabed with presence of marine growth.

Severe Damage					Loss of cross - sectional area, or evaluate material			
STRUCTURE STATUS / LEVEL	STEEL COATING	CONCRETE	WOOD	COMPOSITE	STEEL COATING	CONCRETE	WOOD	COMPOSITE
I		N/A	N/A	N/A	N/A	N/A	N/A	N/A
II	X	N/A	N/A	N/A	N/A	N/A	N/A	N/A
III		N/A	N/A	N/A	N/A	N/A	N/A	N/A
IV		N/A	N/A	N/A	N/A	N/A	N/A	N/A

Observations: There is evidence of porosity, and corrosion on the steel coating surface.

Observations: there is no evidence of loss material.

Surface defects normally obscured by marine growth

STRUCTURE STATUS / LEVEL	STEEL	CONCRETE	WOOD	COMPOSITE
I		N/A	N/A	N/A
II		N/A	N/A	N/A
III		N/A	N/A	N/A
IV	X	N/A	N/A	N/A

Observations: The structure is completely covered by marine growth

Routine Underwater Conditions Assessment Rating

Rating		Description
6	Good	6. No visible damage, or only minor damage is noted. Structural elements may show very minor deterioration, but no oversteering is observed. No repairs are required.
5	Satisfactory	
4	Fair	
3	Poor	
2	Serious	
1	Critical	

Recommended Minimum scope of routine inspections - Inspection sample size and method (s)

Material	Level	Sample Size (100%)	method
Concrete	i	100	
Piles	ii	10	Visual: Removal of marine growth to verify the levels of oxidation and metal conditions.
	iii	5	
Large elements2	i	100	
	ii	Every 100 ft	
	iii	Every 200 ft	
Steel	i	100	
Piles	ii	10	
	iii	0	
Large Elements2	i	100	
	ii	Every 100 ft	
	iii	0	

ELABORATED BY ASTURIAS INGENIERIA	DIVING SUPERVISOR	VoBo	OBSERVATIONS
Lead Diver: Piter Cuero	Juan D. Zapata Chacon	Camilo A. Chacon	No serious damages or cracking were found both on the surface and below tide levels.