

**FORMULARIO DE RESULTADOS DE LA EVALUACION DIRECTA DE RECURSOS HIDROBIOLOGICOS BENTONICOS**

|                                  |   |
|----------------------------------|---|
| Solicitud N°<br><b>212101007</b> | Solicitante<br><b>REYES MARIN, IVAN MARSOLINE</b> |
|----------------------------------|---|

|                         |                               |  |
|-------------------------|-------------------------------|--|
| Región<br><b>Décima</b> | Comuna<br><b>Puerto Montt</b> | Area o Localidad<br><b>So. Reloncaví, I. Maillen, Pta. Surgidero</b> |
|-------------------------|-------------------------------|--|

|                            |                              |                                 |
|----------------------------|------------------------------|---------------------------------|
| Fecha<br><b>20.04.2014</b> | Hora Inicio<br><b>14:52</b>  | Embarcación<br><b>Hellwegh.</b> |
|                            | Hora Término<br><b>15:41</b> | CB<br><b>8571.</b>              |

Carta Shoa 7320 Area 02,00 Hás

| Coordenadas Geográficas Carta Shoa 7320 : | Vértice | Latitud          | Longitud         |
|---|---------|------------------|------------------|
|   | A       | 41° 34' 43,82" S | 73° 01' 59,06" O |
|   | B       | 41° 34' 43,67" S | 73° 01' 50,42" O |
|   | C       | 41° 34' 46,91" S | 73° 01' 50,32" O |
|   | D       | 41° 34' 47,06" S | 73° 01' 58,96" O |

Observaciones (Anotar situaciones u observaciones que expliquen o refuercen la inspección realizada)

*señalada en peso de embarcaciones*

Superficie muestreable aprox. : **100** . (%)

|                                     |                                     |  |   |  |   |
|-------------------------------------|-------------------------------------|--|---|--|---|
| Hora de la Medición<br><b>14:52</b> | Ajuste de Marea (mt)<br><b>-4,5</b> | Prof. Máxima<br><b>23,6</b><br>Observ. | Prof. Ajustada<br><b>19,1</b><br>Ajustada | Prof. Mínima<br><b>18,6</b><br>Observ. | Prof. Ajustada<br><b>14,1</b><br>Ajustada |
|-------------------------------------|-------------------------------------|--|---|--|---|

Posición geográfica de los extremos de la Unidad de Muestreo (boyerines).

|                | Inicio      |    |              |    | Término     |      |              |    |      |    |    |      |
|----------------|-------------|----|--------------|----|-------------|------|--------------|----|------|----|----|------|
|                | Latitud (S) |    | Longitud (O) |    | Latitud (S) |      | Longitud (O) |    |      |    |    |      |
| Transecta N° 1 | 41          | 37 | 46,0         | 73 | 01          | 53,6 | 41           | 37 | 45,7 | 73 | 01 | 51,7 |
| Transecta N° 2 | 41          | 37 | 44,7         | 73 | 01          | 57,6 | 41           | 37 | 44,6 | 73 | 01 | 57,2 |

1633  
12/07/13



**Transecta N° 1**

Sin presencia de recursos en la transecta

| Recursos               | Estado<br>(S/J/A) | Censo<br>(Transecta) | Cuadrantes (0,25 m <sup>2</sup> c/u) |    |    |    |    |    |    |    |    |    |  |       |
|------------------------|-------------------|----------------------|--------------------------------------|----|----|----|----|----|----|----|----|----|--|-------|
|                        |                   |                      | 01                                   | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |  |       |
| Almeja o Taca          |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Cangrejo Dorado de Jua |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Caracol Locate         |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Caracol Palo Palo      |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Caracol Picuyo         |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Caracol Piquihue       |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Caracol Real o Gigante |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Caracol Rubio          |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Caracol Tégula         |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Caracol Trophon        |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Caracol Trumulco       |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Centolla               |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Centolla del Norte     |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Centollón              |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Centollón del Norte    |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Chitón                 |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Cholga                 |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Chorito                |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Choro Zapato           |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Culengue               |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Erizo                  | A                 | 15                   |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Gamba                  |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Huepo                  |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Jaiba                  |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Jaiba Limón            |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Jaiba Marmola          |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Jaiba Mora             |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Jaiba Panchote         |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Jaiba Patuda           |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Jaiba Peluda           |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Jaiba Remadora         |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Jibia o Calamar Rojo   |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Juliana                |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Lapa                   |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Lapa Bonete            |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Lapa Negra             |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Lapa Rosada            |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Loco                   |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |
| Macha                  |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  | Unid. |

|                          |  |  |  |  |  |  |  |  |  |  |  |       |
|--------------------------|--|--|--|--|--|--|--|--|--|--|--|-------|
| Navajuela                |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Ostión del Norte         |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Ostión del Sur           |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Ostión Patagónico        |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Ostra Chilena            |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Ostra del Pacífico       |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Pepino de Mar            |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Picoroco                 |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Pulga Saltarina o Gambit |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Pulpo                    |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Pulpo del Sur            |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Taquilla                 |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Tumbao                   |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Chasca                   |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Chascón o Huiro Negro    |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Chicoria de Mar          |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Cochayuyo                |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Cotoni                   |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Huiro o Canutillo        |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Huiro Palo               |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Liquen Gomoso            |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Luche                    |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Luga Cuchara             |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Luga Luga                |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Luga Negra               |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Luga Roja                |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Pelillo                  |  |  |  |  |  |  |  |  |  |  |  | Kg    |
| Piure                    |  |  |  |  |  |  |  |  |  |  |  | Kg    |

**Transecta N° 2**

Sin presencia de recursos en la transecta

| Recursos               | Estado<br>(S/J/A) | Censo<br>(Transecta) | Cuadrantes (0,25 m <sup>2</sup> c/u) |    |    |    |    |    |    |    |    |    |  |  |       |
|------------------------|-------------------|----------------------|--------------------------------------|----|----|----|----|----|----|----|----|----|--|--|-------|
|                        |                   |                      | 01                                   | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |  |  |       |
| Almeja o Taca          |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  |  | Unid. |
| Cangrejo Dorado de Jua |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  |  | Unid. |
| Caracol Locate         |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  |  | Unid. |
| Caracol Palo Palo      |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  |  | Unid. |
| Caracol Picuyo         |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  |  | Unid. |
| Caracol Piquilhue      |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  |  | Unid. |
| Caracol Real o Gigante |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  |  | Unid. |
| Caracol Rubio          |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  |  | Unid. |
| Caracol Tégula         |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  |  | Unid. |
| Caracol Trophon        |                   |                      |                                      |    |    |    |    |    |    |    |    |    |  |  | Unid. |

|                          |   |    |  |  |  |  |  |  |  |  |  |  |  |  |       |
|--------------------------|---|----|--|--|--|--|--|--|--|--|--|--|--|--|-------|
| Caracol Trumulco         |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Centolla                 |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Centolla del Norte       |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Centollón                |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Centollón del Norte      |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Chitón                   |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Cholga                   |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Chorito                  |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Choro Zapato             |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Culengue                 |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Erizo                    | A | 25 |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Gamba                    |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Huepo                    |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Jaiba                    |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Jaiba Limón              |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Jaiba Marmola            |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Jaiba Mora               |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Jaiba Panchote           |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Jaiba Patuda             |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Jaiba Peluda             |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Jaiba Remadora           |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Jibia o Calamar Rojo     |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Juliana                  |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Lapa                     |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Lapa Bonete              |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Lapa Negra               |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Lapa Rosada              |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Loco                     |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Macha                    |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Navajuela                |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Ostión del Norte         |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Ostión del Sur           |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Ostión Patagónico        |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Ostra Chilena            |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Ostra del Pacífico       |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Pepino de Mar            |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Picoroco                 |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Pulga Saltarina o Gambit |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Pulpo                    |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Pulpo del Sur            |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Taquilla                 |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Tumbao                   |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Unid. |
| Chasca                   |   |    |  |  |  |  |  |  |  |  |  |  |  |  | Kg    |

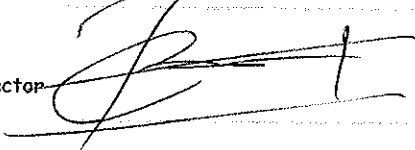
|                       |  |  |  |  |  |  |  |  |  |  |  |  |    |
|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Chascón o Huiro Negro |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Chicoria de Mar       |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Cochayuyo             |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Cotoni                |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Huiro o Canutillo     |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Huiro Palo            |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Liquen Gomoso         |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Luche                 |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Luga Cuchara          |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Luga Luga             |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Luga Negra            |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Luga Roja             |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Pelillo               |  |  |  |  |  |  |  |  |  |  |  |  | Kg |
| Piure                 |  |  |  |  |  |  |  |  |  |  |  |  | Kg |

Cultivo de Algas Tipo de Fondo: Fondo Blando (conchuela, grava, arena, limo, arcilla): \_\_\_\_\_ 100 %  
 Fondo Semiduro (tertel, sedimento compactado): \_\_\_\_\_ %  
 Fondo Duro (roca, bolones): \_\_\_\_\_ %

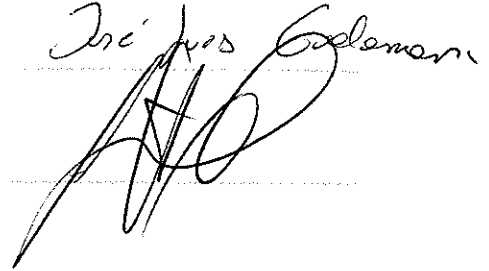
Nombre Inspector: **Sergio Barraza Pacheco**

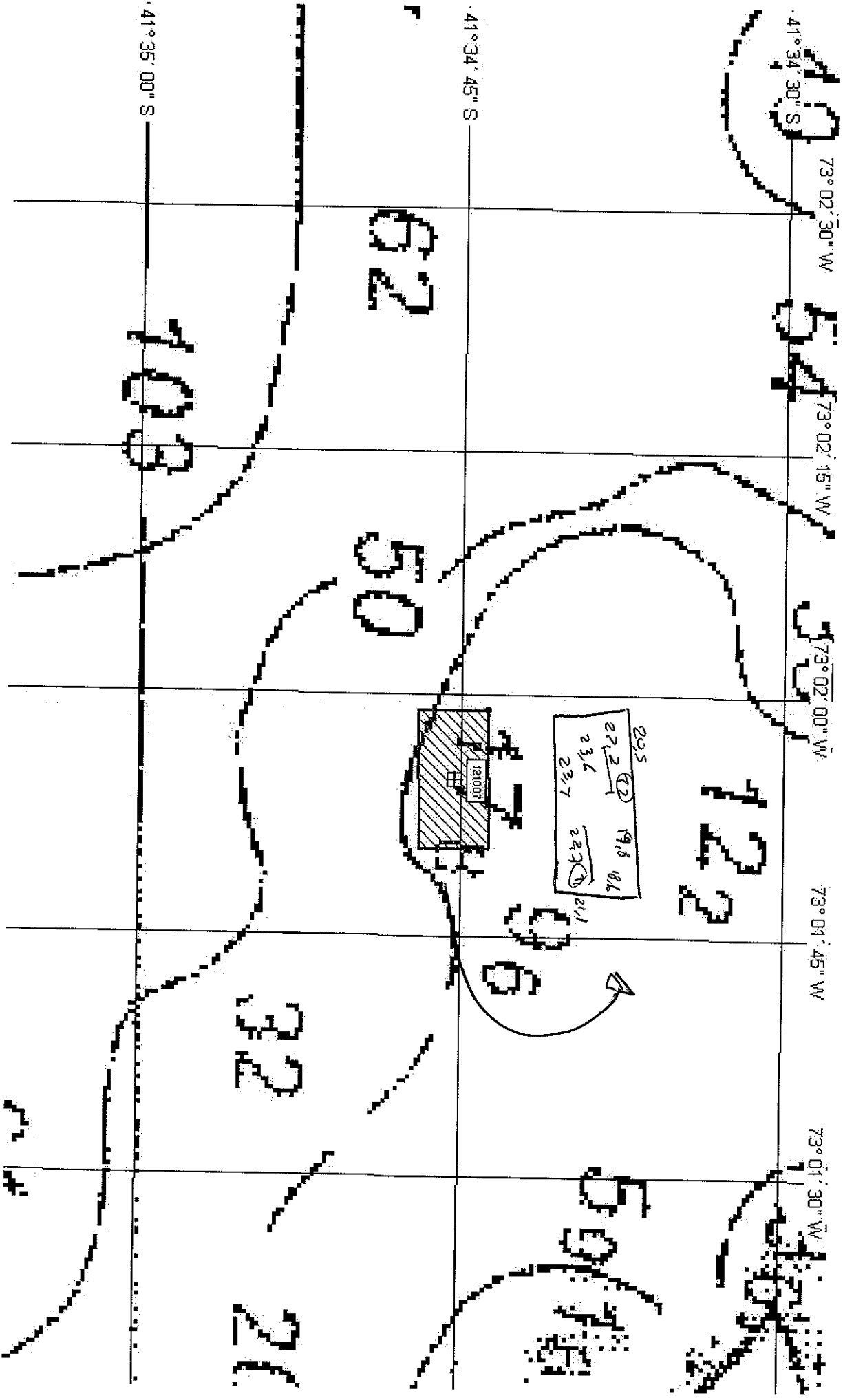
Nombre Capitán/Buzo: *José Luis Godoyman*

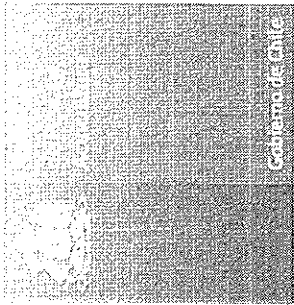
Firma Inspector:



Firma Capitán/Buzo:







**División de Acuicultura**

**Informe análisis de presencia de Banco  
Natural N° 185**

| Pert      | profundidad de análisis | especie indicada en informe | Especie o grupo a evaluar | m <sup>2</sup> um (1) | m <sup>2</sup> um (2) | m <sup>2</sup> um (3) | m <sup>2</sup> um (4) | m <sup>2</sup> um (5) | m <sup>2</sup> um (6) | m <sup>2</sup> Promedio | frecuencia de ocurrencia UM Con Rec/UM totales | % area muestreable | IPBAN | IPBANMax | Evaluación              |
|-----------|-------------------------|-----------------------------|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------|--|--------------------|-------|----------|-------------------------|
| 212101007 | Hasta 30 m              | ERIZO                       | ERIZO                     | 0.15                  | 0.25                  |                       |                       |                       |                       | 0.2                     | 1  | 100                | 2.0   | 3.27     | NO EXISTE BANCO NATURAL |

Obs:

JSC/jsc  
C.I. (Subpesca) N° 8788/14