



# ORGANISMO NACIONAL DE SANIDAD PESQUERA

## SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

### Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Departamentos de Ancash / Zonas: 002 Guaynuna

Monitoreo de Fitoplancton Potencialmente Tóxico

Reporte de Análisis Cuantitativo de Fitoplancton (Nº cel/L)

ENERO 2016



| ZONAS                                       | 002-GUA-01 GUAYNUNA 1    |       |       |          |       |       |          |       |       |                          |      |       |          |      |       |          |      |       |                          |      |       |          |      |       |          |      |       |
|---------------------------------------------|--------------------------|-------|-------|----------|-------|-------|----------|-------|-------|--------------------------|------|-------|----------|------|-------|----------|------|-------|--------------------------|------|-------|----------|------|-------|----------|------|-------|
| Nº MONITOREO                                | 01                       |       |       |          |       |       |          |       |       | 02                       |      |       |          |      |       |          |      |       | 03                       |      |       |          |      |       |          |      |       |
| SEMANA                                      | 27/12/2015 al 02/01/2016 |       |       |          |       |       |          |       |       | 03/01/2016 al 09/01/2016 |      |       |          |      |       |          |      |       | 10/01/2016 al 16/01/2016 |      |       |          |      |       |          |      |       |
| FECHA DE MONITOREO                          | 29/12/2015               |       |       |          |       |       |          |       |       | 08/01/2016               |      |       |          |      |       |          |      |       | 16/01/2016               |      |       |          |      |       |          |      |       |
| ESTACION                                    | 01-A-GUA                 |       |       | 01-B-GUA |       |       | 01-C-GUA |       |       | 01-A-GUA                 |      |       | 01-B-GUA |      |       | 01-C-GUA |      |       | 01-A-GUA                 |      |       | 01-B-GUA |      |       | 01-C-GUA |      |       |
| PROFUNDIDAD (m)                             | 0-5                      | 5-10  | 10-15 | 0-5      | 5-10  | 10-15 | 0-5      | 5-10  | 10-15 | 0-5                      | 5-10 | 10-15 | 0-5      | 5-10 | 10-15 | 0-5      | 5-10 | 10-15 | 0-5                      | 5-10 | 10-15 | 0-5      | 5-10 | 10-15 | 0-5      | 5-10 | 10-15 |
| TEMPERATURA (°C)                            | 21.1                     | 20.1  | 19.4  | 21.4     | 20.5  | 19.5  | 21.1     | 20.5  | 19.5  | 21.1                     | 20.8 | 19.7  | 21.8     | 20.7 | 20.0  | 21.6     | 20.8 | 20.2  | 21.5                     | 20.8 | 19.5  | 21.5     | 20.5 | 19.7  | 20.5     | 20.5 | 19.7  |
| DIATOMEAS                                   |                          |       |       |          |       |       |          |       |       |                          |      |       |          |      |       |          |      |       |                          |      |       |          |      |       |          |      |       |
| Grupo <i>Pseudo-nitzschia delicatissima</i> | 14480                    | 19200 | 8720  | 9760     | 22960 | 20640 | 11040    | 21200 | 18320 | 4560                     | 1480 | 1960  | 3760     | 5520 | 9760  | 1160     | 1560 | 2560  | 2640                     | 3640 | 4400  | 1920     | 2240 | 2640  | 5120     | 5200 | 4000  |
| Grupo <i>Pseudo-nitzschia seriata</i>       | 5040                     | 2840  | 1000  | 3320     | 4240  | 1520  | 1440     | 2560  | 1720  | 20480                    | 8800 | 1000  | 5520     | 6480 | 3200  | 7120     | 1240 | 1880  | 3080                     | 960  | 320   | 640      | 400  | 1080  | 320      | 560  | 480   |
| DINOFLAGELADOS                              |                          |       |       |          |       |       |          |       |       |                          |      |       |          |      |       |          |      |       |                          |      |       |          |      |       |          |      |       |
| <i>Alexandrium minutum</i>                  | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Alexandrium monilatum</i>                | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Alexandrium ostenfeldii</i>              | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Alexandrium peruvianum</i>               | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Alexandrium</i> sp.                      | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Azadinium spinosum</i>                   | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Cochlodinium polykrikoides</i>           | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Dinophysis acuminata</i>                 | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Dinophysis caudata</i>                   | 80                       | 0     | 0     | 200      | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 40       | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Dinophysis rotundata</i>                 | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 80                       | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Dinophysis tripos</i>                    | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 40    | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Gonyaulax spinifera</i>                  | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Karenia</i> sp.                          | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Karlodinium</i> cf. <i>veneficum</i>     | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Lingulodinium polyedrum</i>              | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Prorocentrum lima</i>                    | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Prorocentrum minimum</i>                 | 200                      | 0     | 0     | 160      | 0     | 0     | 80       | 0     | 0     |                          | 120  | 40    | 200      | 80   | 40    | 200      | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Protoceratium reticulatum</i>            | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Protoperdinium crassipes</i>             | 40                       | 40    | 0     | 0        | 0     | 0     | 40       | 40    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| FITOFAGELADOS                               |                          |       |       |          |       |       |          |       |       |                          |      |       |          |      |       |          |      |       |                          |      |       |          |      |       |          |      |       |
| <i>Heterosigma akashiwo</i>                 | 0                        | 0     | 0     | 0        | 0     | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |

S/M: Sin Monitoreo

Fuente: Entidad de Apoyo ACUILAB S.A.



# ORGANISMO NACIONAL DE SANIDAD PESQUERA

## SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

### Concesiones de Cultivo de *Argopecten purpuratus* "concha de abanico"

Departamentos de Ancash / Zonas: 002 Guaynuna

Monitoreo de Fitoplancton Potencialmente Tóxico

Reporte de Análisis Cuantitativo de Fitoplancton (Nº cel/L)

ENERO 2016



| ZONAS                                       | 002-GUA-01 GUAYNUNA 1    |       |       |          |      |       |          |       |       |                          |      |       |          |      |       |          |      |       |
|---------------------------------------------|--------------------------|-------|-------|----------|------|-------|----------|-------|-------|--------------------------|------|-------|----------|------|-------|----------|------|-------|
| Nº MONITOREO                                | 04                       |       |       |          |      |       |          |       |       | 05                       |      |       |          |      |       |          |      |       |
| SEMANA                                      | 17/01/2016 al 23/01/2016 |       |       |          |      |       |          |       |       | 24/01/2016 al 30/01/2016 |      |       |          |      |       |          |      |       |
| FECHA DE MONITOREO                          | 23/01/2016               |       |       |          |      |       |          |       |       | 29/01/2016               |      |       |          |      |       |          |      |       |
| ESTACION                                    | 01-A-GUA                 |       |       | 01-B-GUA |      |       | 01-C-GUA |       |       | 01-A-GUA                 |      |       | 01-B-GUA |      |       | 01-C-GUA |      |       |
| PROFUNDIDAD (m)                             | 0-5                      | 5-10  | 10-15 | 0-5      | 5-10 | 10-15 | 0-5      | 5-10  | 10-15 | 0-5                      | 5-10 | 10-15 | 0-5      | 5-10 | 10-15 | 0-5      | 5-10 | 10-15 |
| TEMPERATURA (°C)                            | 20.9                     | 19.7  | 19.1  | 20.1     | 19.7 | 19.0  | 20.2     | 20.1  | 19.0  | 21.4                     | 19.2 | 18.9  | 21.1     | 19.2 | 18.9  | 21.7     | 19.9 | 19.0  |
| DIATOMEAS                                   |                          |       |       |          |      |       |          |       |       |                          |      |       |          |      |       |          |      |       |
| Grupo <i>Pseudo-nitzschia delicatissima</i> | 17040                    | 12800 | 9360  | 25360    | 8560 | 12560 | 22880    | 27600 | 26080 | 5440                     | 1320 | 400   | 2320     | 1120 | 760   | 2800     | 1600 | 1080  |
| Grupo <i>Pseudo-nitzschia seriata</i>       | 1320                     | 920   | 1680  | 2680     | 320  | 0     | 4160     | 6240  | 2280  | 400                      | 80   | 0     | 0        | 0    | 0     | 40       | 480  | 200   |
| DINOFLAGELADOS                              |                          |       |       |          |      |       |          |       |       |                          |      |       |          |      |       |          |      |       |
| <i>Alexandrium minutum</i>                  | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Alexandrium monilatum</i>                | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Alexandrium ostenfeldii</i>              | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Alexandrium peruvianum</i>               | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Alexandrium</i> sp.                      | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Azadinium spinosum</i>                   | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Cochlodinium polykrikoides</i>           | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Dinophysis acuminata</i>                 | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Dinophysis caudata</i>                   | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 40       | 0    | 0     |
| <i>Dinophysis rotundata</i>                 | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 40       | 0    | 0     |
| <i>Dinophysis tripos</i>                    | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Gonyaulax spinifera</i>                  | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Karenia</i> sp.                          | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Karlodinium</i> cf. <i>veneficum</i>     | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Lingulodinium polyedrum</i>              | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Prorocentrum lima</i>                    | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Prorocentrum minimum</i>                 | 0                        | 0     | 0     | 0        | 0    | 0     | 80       | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Protoceratium reticulatum</i>            | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |
| <i>Protoperidinium crassipes</i>            | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 160      | 200  | 40    | 0        | 40   | 0     |
| FITOFLAGELADOS                              |                          |       |       |          |      |       |          |       |       |                          |      |       |          |      |       |          |      |       |
| <i>Heterosigma akashiwo</i>                 | 0                        | 0     | 0     | 0        | 0    | 0     | 0        | 0     | 0     | 0                        | 0    | 0     | 0        | 0    | 0     | 0        | 0    | 0     |

S/M: Sin Monitoreo

Fuente: Entidad de Apoyo ACUILAB S.A.