



ORGANISMO NACIONAL DE SANIDAD PESQUERA

SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

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

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

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

1ra Semana



Semana: 06 al 12 de setiembre de 2015

Fechas: 08, 11 y 12 de setiembre de 2015

ZONAS	002 GUAYNUNA															004 I. TORTUGAS			009 SALINAS			010 NONURA											
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR			01-A-SAL**			01-A-NON*			01-B-NON*			01-C-NON*					
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)	18.0	16.3	16.0	17.9	16.7	16.0	18.0	16.2	16.0	16.1	14.9	14.8	16.1	15.0	14.8	.....	.....	.....	18.2	17.2	16.2	18.1	17.9	17.6	18.9	17.9	17.5	17.9	17.8	17.3			
DIATOMEAS																																	
Grupo <i>Pseudo-nitzschia delicatissima</i>	2680	2120	440	2920	1200	240	5520	4400	880	5040	2440	1240	5600	1520	720	S/M	S/M	S/M	1680	880	160	80	320	0	0	0	80	80	0	80			
Grupo <i>Pseudo-nitzschia seriata</i>	2040	1680	480	2320	280	640	80	0	0	800	640	240	2400	240	400	S/M	S/M	S/M	1320	1360	240	0	0	0	0	0	0	0	0	0			
DINOFLAGELADOS																																	
<i>Alexandrium minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Alexandrium</i> sp.	0	40	0	0	0	0	0	0	0	0	0	0	40	0	0	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Dinophysis tripos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0			
<i>Prorocentrum minimum</i>	400	160	40	600	160	80	200	120	40	0	0	0	0	0	0	S/M	S/M	S/M	560	80	0	40	80	80	120	240	240	160	280	240			
<i>Proloceraium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	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	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0			
FITOFLAGELADOS																																	
<i>Heterosigma akashiwo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	120	40	120	0	120	0	120	160			

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



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

1ra Semana



Semana: 06 al 12 de setiembre de 2015

Fechas: 07, 09, 11 y 12 de setiembre de 2015

ZONAS				017 CULEBRAS				011 BAHÍA SAMANCO																								012 BAHIA DE SECHURA					
ESTACION	01-A-CUL			01-B-SAM**						01-C-SAM*			02-A-SAM**			02-A-SAM**			02-B-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH									
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	.....	.....	.....							
TEMPERATURA (°C)	.....	.....	.....	18.5	16.8	15.9	19.1	17.5	15.6	21.8	20.1	17.4	19.1	17.6	16.7	18.1	16.8	16.0	19.6	17.6	15.7	18.0	16.7	16.1	20.8	19.2	18.1	.....	.....	.....							
DIATOMEAS																																					
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	80	0	0	0	80	40	0	0	0	0	0	0	0	160	0	0	0	160	0	240	120	0	0	40	S/M									
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	80	40	200	0	0	S/M									
DINOFLAGELADOS																																					
<i>Alexandrium minutum</i>	S/M	S/M	S/M	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									
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	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									
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	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									
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	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									
<i>Alexandrium</i> sp.	S/M	S/M	S/M	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									
<i>Azadinium spinosum</i>	S/M	S/M	S/M	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									
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	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									
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	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									
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	0	0	80	160	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M									
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	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									
<i>Dinophysis tripos</i>	S/M	S/M	S/M	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									
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	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									
<i>Karenia</i> sp.	S/M	S/M	S/M	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									
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	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									
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	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									
<i>Prorocentrum lima</i>	S/M	S/M	S/M	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									
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	48192	1160	80	1760	120	40	2880	240	80	9840	8320	7520	9280	880	120	7920	4720	720	4160	120	40	80	160	0	S/M									
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	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									
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	0	40	0	0	40	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M									
FITOFLAGELADOS																																					
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	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									

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



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

2da Semana



Semana: 13 al 19 de setiembre de 2015

Fechas: 15, 18 y 19 de setiembre de 2015

ZONAS	002 GUAYNUMA															004 I. TORTUGAS			009 SALINAS			010 NONURA								
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR			01-A-SAL**			01-A-NON*			01-B-NON*			01-C-NON*		
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)	18.1	17.0	16.7	17.5	16.8	16.5	17.1	17.0	16.8	17.0	16.1	15.5	16.9	15.5	15.1	.....	.....	.....	18.0	17.2	16.4	18.5	17.8	17.6	19.4	17.9	17.9	19.0	17.6	17.5
DIATOMEAS																														
Grupo <i>Pseudo-nitzschia delicatissima</i>	5360	4160	3280	7120	1920	2640	1640	2000	1560	24720	14880	2680	24000	6640	3120	S/M	S/M	S/M	15680	20640	7360	720	840	440	880	600	720	800	480	480
Grupo <i>Pseudo-nitzschia seriata</i>	96080	31200	15200	37520	15440	13680	13200	7200	12240	138720	46560	23120	159360	54240	26240	S/M	S/M	S/M	12400	13360	4160	0	0	0	0	0	0	0	0	0
DINOFLAGELADOS																														
<i>Alexandrium minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium</i> sp.	40	120	0	40	40	0	0	0	0	40	0	0	0	0	40	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis rotundata</i>	0	80	0	0	40	0	0	40	80	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis tripos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	320	200	40	160	80	0	200	680	80	600	200	40	400	320	200	S/M	S/M	S/M	160	40	0	0	0	0	160	80	120	120	40	40
<i>Protoceratium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protophydinium crassipes</i>	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	40	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



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

2da Semana



Semana: 13 al 19 de setiembre de 2015

Fechas: 15, 17 y 19 de setiembre de 2015

ZONAS				017 CULEBRAS			011 BAHÍA SAMANCO															012 BAHIA DE SECHURA				
ESTACION	01-A-CUL			01-B-SAM**						01-C-SAM*			02-A-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH				
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)	.....	.....	.....	21.4	19.2	17.5	20.8	18.3	18.2	21.3	18.4	17.5	18.6	18.1	17.9	18.3	17.4	17.4	21.3	20.3	19.0	....				
DIATOMEAS																										
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	80	880	80	0	1480	1120	160	600	800	880	600	480	880	1160	320	120	120	120	S/M				
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	80	680	40	0	280	280	40	120	320	160	80	40	1160	0	720	40	0	0	S/M				
DINOFLAGELADOS																										
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Alexandrium sp.</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	40	0	0	0	40	0	0	40	S/M				
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	0	0	0	S/M				
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Karenia sp.</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Karlodinium cf. veneficum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	35040	680	600	22640	2400	160	24240	1160	80	4400	1400	40	160	0	0	40	360	160	S/M				
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
FITOFLAGELADOS																										
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



Monitoreo de Fitoplancton Potencialmente Tóxico

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

3ra Semana

Semana: 20 al 26 de setiembre de 2015

Fechas: 22 y 25 de setiembre de 2015

ZONAS			002 GUAYNUNA															004 I. TORTUGAS			009 SALINAS			010 NONURA								
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR			01-A-SAL**			01-A-NON*			01-B-NON*			01-C-NON*				
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)	18.6	17.3	16.8	18.5	17.2	16.6	18.0	17.0	16.7	18.5	17.6	16.9	18.3	17.6	17.1	.....	.....	.....	19.2	17.7	17.7	21.1	20.9	20.6	21.3	20.5	20.3	21.3	20.6	20.6		
DIATOMEAS																																
Grupo <i>Pseudo-nitzschia delicatissima</i>	1000	600	280	1480	720	440	80	160	160	920	560	160	1280	880	240	S/M	S/M	S/M	1920	2720	5120	3760	4040	1520	11080	2960	600	5320	880	200		
Grupo <i>Pseudo-nitzschia seriata</i>	75800	26080	10400	64080	17040	8000	16080	9600	8240	80400	31760	13440	32160	10800	2400	S/M	S/M	S/M	112640	31040	33360	0	0	0	0	0	0	480	0	0		
DINOFLAGELADOS																																
<i>Alexandrium minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Alexandrium</i> sp.	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	80	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Dinophysis caudata</i>	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Dinophysis rotundata</i>	0	0	0	0	0	0	40	40	0	0	0	0	0	0	0	S/M	S/M	S/M	40	0	40	0	0	0	0	0	0	0	0	0		
<i>Dinophysis tripos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Prorocentrum minimum</i>	200	80	40	160	120	40	560	0	0	400	160	40	200	120	0	S/M	S/M	S/M	1200	600	120	0	0	0	80	0	0	0	0	0		
<i>Protoceratium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Protoperdinium crassipes</i>	0	0	0	0	0	0	0	0	40	40	40	0	0	0	0	S/M	S/M	S/M	40	0	0	0	0	0	0	0	0	0	0	0		
FITOFLAGELADOS																																
<i>Heterosigma akashiwo</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	0	0	0	0	40	0	0	0	0	0	0	0		

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** 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"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

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

3ra Semana



Semana: 20 al 26 de setiembre de 2015

Fechas: 23, 25 y 26 de setiembre de 2015

ZONAS				017 CULEBRAS			011 BAHÍA SAMANCO															012 BAHIA DE SECHURA				
ESTACION	01-A-CUL			01-B-SAM**			01-B-SAM**			01-C-SAM*			02-A-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH				
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	19.5	19.3	20.8	18.6	18.1	21.1	19.0	18.2	19.3	18.1	17.4	18.6	17.8	17.1	20.50	19.35	18.92	....				
DIATOMEAS																										
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	80	560	1480	1920	800	920	0	80	80	80	0	320	80	80	40	2000	1720	280	S/M				
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	440	640	2400	17440	1320	1160	0	40	0	0	40	240	240	160	40	600	80	240	S/M				
DINOFLAGELADOS																										
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Alexandrium</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	160	200	0	0	0	0	0	0	S/M				
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Dinophysis caudata</i>	S/M	S/M	S/M	200	40	0	40	80	0	200	40	0	40	200	0	0	0	0	0	0	0	S/M				
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	200	160	80	40	40	0	40	0	0	0	160	80	0	40	0	0	0	0	S/M				
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	19040	3280	280	440	240	40	16560	480	120	3480	2000	400	1200	720	80	200	80	40	S/M				
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	0	120	40	0	0	0	0	200	80	0	0	160	120	0	0	0	0	0	S/M				
FITOFLAGELADOS																										
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M				

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.



ORGANISMO NACIONAL DE SANIDAD PESQUERA

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

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Sechura

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

4ta Semana



Semana: 27 de setiembre al 03 de octubre de 2015

Fechas: 29 de setiembre y 02 y 03 de octubre de 2015

ZONAS	002 GUAYNUMA															004 I. TORTUGAS			009 SALINAS			010 NONURA								
ESTACION	01-A-GUA**			01-B-GUA**			01-C-GUA**			02-D-GUA**			02-E-GUA**			01-A-TOR			01-A-SAL**			01-A-NON*			01-B-NON*			01-C-NON*		
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)	18.5	16.9	16.4	18.0	17.0	16.5	18.1	16.9	16.4	19.7	18.6	18.1	19.9	18.5	18.0	.....	.....	.....	18.2	17.1	16.3	19.9	19.4	19.1	19.7	19.4	19.3	19.9	19.3	19.4
DIATOMEAS																														
Grupo <i>Pseudo-nitzschia delicatissima</i>	29040	1120	240	12560	480	320	5840	1680	160	15440	1000	160	5120	200	80	S/M	S/M	S/M	2120	1360	240	2920	920	400	2360	1880	1600	1600	1000	880
Grupo <i>Pseudo-nitzschia seriala</i>	80	120	40	680	360	3040	80	0	0	360	400	0	80	40	40	S/M	S/M	S/M	2480	2200	1240	0	0	0	0	0	0	0	0	0
DINOFLAGELADOS																														
<i>Alexandrium minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	40	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	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	S/M	S/M	S/M	40	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis tripos</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karlodinium</i> cf. <i>veneticum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	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	S/M	S/M	S/M	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	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	160	0	0	40	0	0	80	0	0	80	40	0	0	0	0	S/M	S/M	S/M	280	80	0	1360	1080	1640	800	1000	1200	520	480	960
<i>Protoceratium reticulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S/M	S/M	S/M	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	0	0	0	S/M	S/M	S/M	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	S/M	S/M	S/M	0	0	0	80	0	40	40	40	120	40	80	200

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** 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"

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamentos de Piura, La Libertad y Ancash / Zonas: 002 Guaynuma, 004 Isla Tortugas, 009 Salinas, 010 Nonura, 023 Virú Naylamp, 017 Culebras, 011 Bahía Samanco, 012 Bahía Secura

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

4ta Semana



Semana: 27 de setiembre al 03 de octubre de 2015

Fecha: 03 de octubre de 2015

ZONAS	017 CULEBRAS			011 BAHÍA SAMANCO												012 BAHÍA DE SECHURA			
ESTACION	01-A-CUL			01-B-SAM**			01-C-SAM			02-A-SAM**			02-B-SAM**			12-B-SECH**			13-A-SECH
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	....
TEMPERATURA (°C)	.....	.....	.....	21.3	19.9	18.6	.....	.....	.....	20.1	18.5	17.9	19.8	18.4	17.9	21.8	20.8	20.0	....
DIATOMEAS																			
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	0	0	80	S/M	S/M	S/M	0	0	0	80	80	120	5040	4640	4240	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	0	320	0	S/M	S/M	S/M	0	160	0	0	0	0	600	800	240	S/M
DINOFLAGELADOS																			
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	200	40	0	S/M	S/M	S/M	0	80	80	40	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	80	0	S/M	S/M	S/M	0	0	0	0	40	0	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	29040	1040	160	S/M	S/M	S/M	49920	1200	80	28000	240	280	360	360	240	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	0	200	0	S/M	S/M	S/M	40	0	40	0	40	40	0	0	0	S/M
FITOFITAGELADOS																			
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.