



ORGANISMO NACIONAL DE SANIDAD PESQUERA

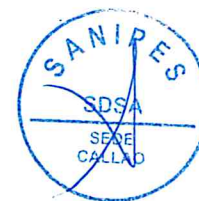
SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

1ra Semana



Semana: 01 al 07 de noviembre de 2015

Fecha: 07 de noviembre de 2015

ZONAS	012 BAHIA DE SECHURA												
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI		MATACABALLO	CONSTANTE	LAS DELICIAS	PARACHIQUE		BARRANCOS	VICHAYO	PUERTO RICO
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH		05-B-SECH**	06-A-SECH	07-B-SECH*	08-C-SECH*		09-A-SECH*	10-C-SECH*	11-A-SECH
PROFUNDIDAD (m)	....	....	.....	.....	.....	0-5	.....	0-7	0-4	4-9	0-6	0-6	....
TEMPERATURA (°C)	....	....	.....	.....	.....	19.9	.....	20.3	20.5	19.8	19.6	19.6	....
DIATOMEAS													
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	5440	S/M	12000	15520	6600	8600	6320	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	960	0	0	0	S/M
DINOFLAGELADOS													
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldi</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	120	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	40	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	40	S/M	240	280	0	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
FITOFLAGELADOS													
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	160	280	40	400	600	S/M

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

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

2da Semana



Semana: 08 al 14 de noviembre de 2015

Fecha: 14 de noviembre de 2015

ZONAS	012 BAHIA DE SECHURA												
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI		MATACABALLO	CONSTANTE	LAS DELICIAS	PARACHIQUE		BARRANCOS	VICHAYO	PUERTO RICO
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH		05-B-SECH**	06-A-SECH	07-B-SECH*	08-C-SECH*		09-A-SECH*	10-C-SECH*	11-A-SECH
PROFUNDIDAD (m )	....	....	.....	.....	.....	0-5	.....	0-7	0-3	3-8	0-6	0-5	.....
TEMPERATURA (°C)	....	....	.....	.....	.....	19.1	.....	19.0	19.2	19.1	19.0	18.7	.....
DIATOMEAS													
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	400	S/M	5520	30400	25240	31520	24040	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	280	320	480	2240	S/M
DINOFLAGELADOS													
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium sp.</i>	S/M	S/M	S/M	S/M	S/M	40	S/M	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Karenia sp.</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Karlodinium cf. veneficum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	10080	2400	1200	200	440	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	0	0	0	S/M
FITOFLAGELADOS													
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	0	S/M	0	0	160	720	200	S/M

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

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

3ra Semana



Semana: 15 al 21 de noviembre de 2015

Fecha: 21 de noviembre de 2015

ZONAS	012 BAHIA DE SECHURA													
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI		MATACABALLO		CONSTANTE	LAS DELICIAS	PARACHIQUE		BARRANCOS	VICHAYO	PUERTO RICO
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH		05-B-SECH**		06-A-SECH	07-B-SECH*	08-C-SECH*		09-A-SECH*	10-C-SECH*	11-A-SECH
PROFUNDIDAD (m)	....	....	.....	.....	.....	0-5	5-10	.....	0-7	0-3	3-8	0-7	0-6	.....
TEMPERATURA (°C)	....	....	.....	.....	.....	21.3	21.0	.....	20.7	21.8	20.9	21.8	20.2	.....
DIATOMEAS														
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	1880	1600	S/M	19280	13360	3960	10880	9120	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	320	1280	S/M	2200	2680	880	1360	1920	S/M
DINOFLAGELADOS														
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium</i> sp.	S/M	S/M	S/M	S/M	S/M	80	120	S/M	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	0	40	S/M	0	40	0	120	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	840	320	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Karenia</i> sp.	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Karlodinium</i> cf. <i>veneficum</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	200	40	S/M	1000	0	0	720	120	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	0	0	0	0	0	S/M
FITOFLAGELADOS														
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	0	0	S/M	120	80	0	0	80	S/M

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

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

4ta Semana



Semana: 22 al 28 de noviembre de 2015

Fecha: 28 de noviembre de 2015

ZONAS	012 BAHIA DE SECHURA														
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI	MATACABALLO	CONSTANTE	LAS DELICIAS	PARACHIQUE	BARRANCOS	VICHAYO	PUERTO RICO				
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH	05-C-SECH**	06-A-SECH	07-B-SECH*	08-C-SECH*	09-A-SECH*	10-C-SECH*	11-A-SECH				
PROFUNDIDAD (m)	....	....	....	....	0-5 5-10 10-15	....	0-6	0-3 3-8	0-6	0-6	....				
TEMPERATURA (°C)	....	....	....	....	22.3 22.1 21.8	....	21.4	21.6 20.3	20.5	20.8	....				
DIATOMEAS															
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	1800	6560	3480	S/M	24160	18400	9040	14680	11320	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	480	4320	6080	S/M	6040	3280	1880	6080	1760	S/M
DINOFLAGELADOS															
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium sp.</i>	S/M	S/M	S/M	S/M	S/M	0	40	0	S/M	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	0	0	80	S/M	120	160	40	40	0	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	80	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Karenia sp.</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Karlodinium cf. veneficum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	200	160	160	240	80	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
FITOFLAGELADOS															
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	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

SUB DIRECCIÓN DE SUPERVISIÓN ACUÍCOLA

Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

5ta Semana



Semana: 29 de noviembre al 05 de diciembre de 2015

Fecha: 05 de diciembre de 2015

ZONAS	012 BAHIA DE SECHURA														
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI		MATACABALLO			CONSTANTE	LAS DELICIAS	PARACHIQUE		BARRANCOS	VICHAYO	PUERTO RICO
ESTACION	01-A-SECH	02-A-SECH	03-A-SECH	04-A-SECH		05-C-SECH**			06-A-SECH	07-B-SECH*	08-C-SECH*		09-A-SECH*	10-C-SECH*	11-A-SECH
PROFUNDIDAD (m)	....	....	.....	.....	.....	0-5	5-10	10-15	.....	0-6	0-3	3-8	0-6	0-6	.....
TEMPERATURA (°C)	....	....	.....	.....	.....	24.2	23.0	22.4	.....	22.2	23.0	22.0	21.9	21.7	.....
DIATOMEAS															
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	S/M	S/M	22400	16080	6960	S/M	59840	35280	56640	40960	20840	S/M
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	S/M	S/M	21520	15840	3240	S/M	11080	9800	7920	4720	5440	S/M
DINOFLAGELADOS															
<i>Alexandrium minutum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Alexandrium sp.</i>	S/M	S/M	S/M	S/M	S/M	80	80	0	S/M	0	0	0	0	0	S/M
<i>Azadinium spinosum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	80	160	40	80	80	S/M
<i>Dinophysis caudata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Dinophysis tripos</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	80	40	S/M
<i>Karenia sp.</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Karlodinium cf. veneficum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Prorocentrum lima</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	40	0	0	0	S/M
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	40	0	S/M
FITOFLAGELADOS															
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	S/M	S/M	0	0	0	S/M	0	0	0	0	0	S/M

S/M: Sin Monitoreo

Fuente: * Entidad de Apoyo CERPER S.A.

** Entidad de Apoyo ACUILAB S.A.