



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: 28 de diciembre de 2014 al 03 de enero de 2015

Fecha: 02 de enero 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	0-5	5-10	10-15	0-7	0-3	3-8	0-3	3-8	0-7	0-6	0-4
TEMPERATURA (°C)	....	....	.....	18.8	18.3	18.0	17.9	17.5	18.0	18.9	18.7	18.4	17.5	18.0	17.6	17.5
DIATOMEAS																
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	560	600	0	0	0	0	0	0	400	0	0	200	0
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
DINOFLAGELADOS																
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<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
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	1080	680	12360	10320	5880	80	5720	2000	3600	1640	320	480	680
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
FITOFLAGELADOS																
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0

S/M: Sin Monitoreo

Fuente: Entidad de Apoyo CERPER S.A.



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Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

2da Semana



Semana: 04 al 10 de enero de 2015

Fecha: 10 de enero de 2015

ZONAS	012 BAHIA DE SECHURA														
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI		MATA CABALLO			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)	....	....	.....	0-4	4-9	0-5	5-10	10-15	0-7	0-3	3-8	0-7	0-7	0-6	0-6
TEMPERATURA (°C)	....	....	.....	21.6	19.8	20.4	19.6	18.0	20.7	21.5	19.2	19.0	19.0	18.9	18.7
DIATOMEAS															
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	120	0	0	0
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
DINOFITOPHYTES															
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karenia</i> sp.	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>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	400	1160	4400	3600	840	2920	3280	520	1160	520	0	0
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	40
FITOFITOPHYTES															
<i>Heterosigma akashiwo</i>	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.



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Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

3ra Semana



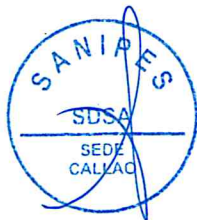
Semana: 11 al 17 de enero de 2015

Fechas: 16 y 17 de enero de 2015

ZONAS	012 BAHIA DE SECHURA															
AREAS	SAN PABLO	SAN PEDRO	PLAYA CHUYILLACHI	CHUYILLACHI		MATA CABALLO			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	0-5	5-10	10-15	0-7	0-3	3-8	0-3	3-8	0-6	0-5	0-4
TEMPERATURA (°C)	....	....	.....	21.4	19.1	20.4	18.9	17.0	18.4	20.1	18.1	20.8	18.5	18.9	18.5	18.7
DIATOMEAS																
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	400	600	200	1200	520	960	680	1480	1880	1640	1240	400	200
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	0	240	200	0	920	0	0	240	0	360	320	0	720
DINOFITELAGELADOS																
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	40	0	0
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	40	0	0	0	40	0	0	0	0	0	0	0
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	80	40	0	0	0	0	0	0	0	0	0	40	40
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<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
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	0	40	0	0	0	0	40	0	0	0	120	0	0
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	0	80	0	0	0	40	0	0	0	0	0	0	40
FITOFITELAGELADOS																
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0

S/M: Sin Monitoreo

Fuente: Entidad de Apoyo CERPER S.A.



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Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

4ta Semana



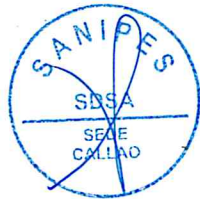
Semana: 18 al 24 de enero de 2015

Fechas: 23 y 24 de enero 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	0-5	5-10	10-15	0-7	0-3	3-8	0-3	3-8	0-6	0-4	0-6
TEMPERATURA (°C)	....	....	....	20.06	17.55	19.07	17.98	17.87	17.2	19.94	17.22	18.14	17.97	17.68	17.33	16.86
DIATOMEAS																
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	800	720	280	400	0	1200	1040	1680	760	400	1120	800	840
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	200	800	0	280	1000	0	0	360	360	0	320	320	360
DINOFLAGELADOS																
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cochlodinium polykrikoides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	40	0	0	0	0	0
<i>Dinophysis caudata</i>	S/M	S/M	S/M	0	0	0	0	0	0	40	40	0	40	0	0	0
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<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
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	0	0	0	0	0	0	120	40	0	0	0	0	0
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protoperdinium crassipes</i>	S/M	S/M	S/M	0	40	0	0	40	0	120	520	80	240	80	40	200
FITOFAGELADOS																
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0

S/M: Sin Monitoreo

Fuente: Entidad de Apoyo CERPER S.A.



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Monitoreo de Fitoplancton Potencialmente Tóxico

Departamento de Piura: Zona 012 Bahía Sechura

Análisis Cuantitativo de Fitoplancton (N° cel/L)

5ta Semana



Semana: 25 al 31 de enero de 2015

Fechas: 30 y 31 de enero 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	0-5	5-10	10-15	0-7	0-3	3-8	0-3	3-8	0-7	0-6	0-6
TEMPERATURA (°C)	....	....	.....	21.2	18.7	19.6	17.9	17.8	19.1	20.5	18.2	20.5	18.5	18.3	18.0	18.3
DIATOMEAS																
Grupo <i>Pseudo-nitzschia delicatissima</i>	S/M	S/M	S/M	2760	2880	160	240	80	480	5640	320	4440	760	2840	3200	1600
Grupo <i>Pseudo-nitzschia seriata</i>	S/M	S/M	S/M	2120	800	320	280	600	560	1000	280	4680	2240	2200	2880	320
DINOFLAGELADOS																
<i>Alexandrium minutum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium monilatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium ostenfeldii</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium peruvianum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alexandrium</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Azadinium spinosum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cochlodinium polykrioides</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dinophysis acuminata</i>	S/M	S/M	S/M	0	240	0	120	360	0	40	0	80	0	40	40	40
<i>Dinophysis caudata</i>	S/M	S/M	S/M	40	160	600	400	1320	80	200	40	0	440	0	80	0
<i>Dinophysis rotundata</i>	S/M	S/M	S/M	0	40	800	1040	1240	40	80	120	80	720	0	80	40
<i>Dinophysis tripos</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gonyaulax spinifera</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Karenia</i> sp.	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<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
<i>Lingulodinium polyedrum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum lima</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prorocentrum minimum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protoceratium reticulatum</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Protoperidinium crassipes</i>	S/M	S/M	S/M	160	880	0	120	480	0	160	160	40	440	240	400	80
FITOFLAGELADOS																
<i>Heterosigma akashiwo</i>	S/M	S/M	S/M	0	0	0	0	0	0	0	0	0	0	0	0	0

S/M: Sin Monitoreo

Fuente: Entidad de Apoyo CERPER S.A.