

Request No. ATR6411049

Report No. 6411-0797 - 6411-0799

TEST REPORT

CUSTOMER : บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด
ADDRESS : 88 ม. 3 ท่าเรือแหลมฉบังท่าที่ A2 ต. พังสุชล อ. ศรีราชา จ. ชลบุรี 20230
SAMPLE SOURCE : บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด
SAMPLE NAME : ท่าเรือ A2
RECEIVED DATE : 23/11/2021
TESTED DATE : 23/11/2021-29/11/2021
SAMPLE NO. : A64110797 - A64110799
REPORTED DATE : 01/12/2021

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD ^{1/}	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	18-19/11/2021	0.193	0.33	mg/m ³
		19-20/11/2021	0.220	0.33	mg/m ³
		20-21/11/2021	0.203	0.33	mg/m ³

REMARK:

^{1/} Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum (๖-003-๖-5639))



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Approved By

(Miss Thanaporn Klinsoon)

01/12/2021

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Request No. LA64-R1167

Report No. R6411-1961 - R6411-1963

TEST REPORT

CUSTOMER	: บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด	SAMPLE NO.	: 27250-27252
ADDRESS	: 88 ม. 3 ท่าเรือแหลมฉบังท่าที่ A2 ต. พังสุธยา อ. ศรีราชา จ. ชลบุรี 20230	SAMPLING DATE	: 18-21/11/2021
SAMPLE SOURCE	: บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด	RECEIVED DATE	: 21/11/2021
SAMPLE POINT	: ท่าเรือ A2	REPORTED DATE	: 23/11/2021
PARAMETER*	: Sulfur Dioxide		
DETERMINATION METHOD	: UV-Fluorescence		
INSTRUMENT	: API Model MI00E S/N 3220		

TIME / DATE	18-19/11/2021	19-20/11/2021	20-21/11/2021	UNIT
10:00 – 11:00 ¹³	0.030	0.023	0.020	ppm
11:00 – 12:00	0.033	0.023	0.022	ppm
12:00 – 13:00	0.036	0.023	0.022	ppm
13:00 – 14:00	0.035	0.023	0.022	ppm
14:00 – 15:00	0.039	0.022	0.020	ppm
15:00 – 16:00	0.035	0.021	0.021	ppm
16:00 – 17:00	0.029	0.022	0.022	ppm
17:00 – 18:00	0.024	0.023	0.023	ppm
18:00 – 19:00	0.022	0.023	0.021	ppm
19:00 – 20:00	0.023	0.020	0.020	ppm
20:00 – 21:00	0.024	0.020	0.021	ppm
21:00 – 22:00	0.022	0.022	0.021	ppm
22:00 – 23:00	0.020	0.023	0.022	ppm
23:00 – 00:00	0.021	0.020	0.021	ppm
00:00 – 01:00	0.022	0.020	0.020	ppm
01:00 – 02:00	0.020	0.020	0.021	ppm
02:00 – 03:00	0.022	0.021	0.021	ppm
03:00 – 04:00	0.022	0.020	0.020	ppm
04:00 – 05:00	0.023	0.020	0.020	ppm
05:00 – 06:00	0.023	0.020	0.022	ppm
06:00 – 07:00	0.021	0.020	0.020	ppm
07:00 – 08:00	0.023	0.023	0.021	ppm
08:00 – 09:00	0.023	0.022	0.023	ppm
09:00 – 10:00	0.022	0.020	0.023	ppm
Maximum 1 hr.	0.039	0.023	0.023	ppm
Average 24 hr.	0.025	0.021	0.021	ppm
Standard (1 hr.) ¹¹	0.30	0.30	0.30	ppm
Standard (Average 24 hr.) ¹²	0.12	0.12	0.12	ppm

REMARK : ¹¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)¹² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)¹³ Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Phrakokhan)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

23/11/2021

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Request No. LA64-R1167

Report No. R6411-1964 - R6411-1966

TEST REPORT

CUSTOMER : บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด
 ADDRESS : 88 ม. 3 ท่าเรือแหลมฉบังท่าที่ A2 ต. พังสุชล อ. ศรีราชา จ. ชลบุรี 20230
 SAMPLE SOURCE : บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด
 SAMPLE POINT : ท่าเรือ A2
 PARAMETER* : Nitrogen Dioxide
 DETERMINATION METHOD : Chemiluminescence
 INSTRUMENT : API Model 200A S/N ENOI200E03407

SAMPLE NO. : 27253-27255
 SAMPLING DATE : 18-21/11/2021
 RECEIVED DATE : 21/11/2021
 REPORTED DATE : 23/11/2021

TIME / DATE	18-19/11/2021	19-20/11/2021	20-21/11/2021	UNIT
10:00 – 11:00 ^{/2}	0.009	0.009	0.007	ppm
11:00 – 12:00	0.010	0.008	0.003	ppm
12:00 – 13:00	0.006	0.011	0.004	ppm
13:00 – 14:00	0.007	0.011	0.005	ppm
14:00 – 15:00	0.009	0.014	0.006	ppm
15:00 – 16:00	0.007	0.017	0.008	ppm
16:00 – 17:00	0.006	0.013	0.011	ppm
17:00 – 18:00	0.006	0.009	0.007	ppm
18:00 – 19:00	0.004	0.007	0.008	ppm
19:00 – 20:00	0.004	0.005	0.006	ppm
20:00 – 21:00	0.004	0.011	0.006	ppm
21:00 – 22:00	0.007	0.013	0.005	ppm
22:00 – 23:00	0.006	0.006	0.005	ppm
23:00 – 00:00	0.007	0.005	0.008	ppm
00:00 – 01:00	0.020	0.009	0.012	ppm
01:00 – 02:00	0.018	0.006	0.007	ppm
02:00 – 03:00	0.012	0.004	0.011	ppm
03:00 – 04:00	0.012	0.005	0.008	ppm
04:00 – 05:00	0.021	0.008	0.013	ppm
05:00 – 06:00	0.023	0.004	0.013	ppm
06:00 – 07:00	0.019	0.005	0.010	ppm
07:00 – 08:00	0.023	0.006	0.004	ppm
08:00 – 09:00	0.021	0.008	0.018	ppm
09:00 – 10:00	0.014	0.010	0.015	ppm
Maximum 1 hr.	0.023	0.017	0.018	ppm
Average 24 hr.	0.011	0.008	0.008	ppm
Standard (1 hr.) ^{/1}	0.17	0.17	0.17	ppm

REMARK : ^{/1} Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)^{/2} Start Time* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummaru Klinsopon)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MS. THANATPORN KLINSOPON)

23/11/2021

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แผนผังทิศทางและความเร็วลม

Request No. LA64-R1167

บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด

Sample No. 27256

จุดตรวจวัด : ท่าเรือ A2

วันที่ตรวจวัด : 18-21 พฤศจิกายน 2564

เวลา	18-19 พฤศจิกายน 2564		19-20 พฤศจิกายน 2564		20-21 พฤศจิกายน 2564	
	ความเร็วลม (เมตร/วินาที)	ทิศทางลม	ความเร็วลม (เมตร/วินาที)	ทิศทางลม	ความเร็วลม (เมตร/วินาที)	ทิศทางลม
10:00-11:00	0.9	NNE	1.8	NNW	1.3	WSW
11:00-12:00	1.8	N	2.7	NNW	1.3	S
12:00-13:00	2.7	NNW	2.2	NNW	1.3	S
13:00-14:00	2.2	NNW	1.3	NNW	0.9	S
14:00-15:00	1.8	NNW	1.3	NE	2.2	SSW
15:00-16:00	2.2	W	1.3	SSW	2.2	S
16:00-17:00	3.1	W	3.1	SE	1.8	SE
17:00-18:00	2.2	NW	2.7	SE	1.3	SE
18:00-19:00	2.2	NW	1.8	SE	0.9	SE
19:00-20:00	0.9	NNW	0.9	SE	0.0	-
20:00-21:00	0.9	NNE	0.9	SE	0.0	-
21:00-22:00	0.9	NNW	0.4	NNE	0.0	-
22:00-23:00	1.3	NNW	0.4	NNE	0.0	-
23:00-00:00	0.4	NNW	0.0	-	0.4	NNE
00:00-01:00	0.4	NW	0.4	NNE	0.4	NE
01:00-02:00	0.4	NNW	0.0	-	0.0	-
02:00-03:00	0.4	N	0.0	-	0.4	ENE
03:00-04:00	0.0	-	0.0	-	0.0	-
04:00-05:00	0.4	ENE	0.0	-	0.4	NNE
05:00-06:00	0.4	NNE	0.0	-	0.0	-
06:00-07:00	0.0	-	0.0	-	0.0	-
07:00-08:00	0.0	-	0.0	-	0.0	-
08:00-09:00	0.4	NE	0.0	-	0.4	NNE
09:00-10:00	0.9	NNW	0.9	WSW	0.0	-

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แผนผังทิศทางและความเร็วลม

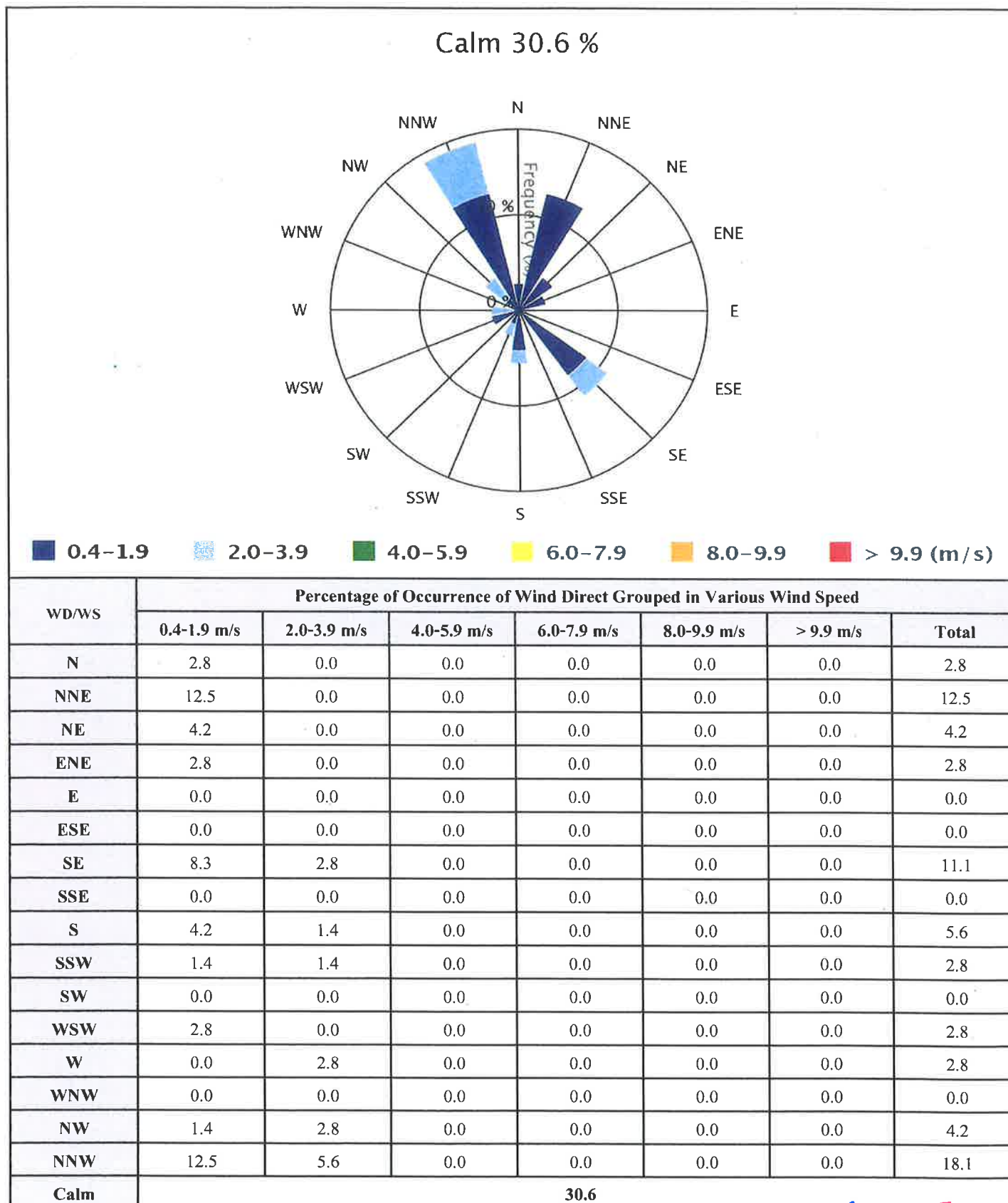
Request No. LA64-R1167

บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด

Sample No. 27256

จุดตรวจวัด : ท่าเรือ A2

วันที่ตรวจวัด : 18-21 พฤศจิกายน 2564



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Test Report

Request No : W6409528

Report No : 6410-0295

Customer : Thai Laemchabang Terminal Co.,Ltd.

Address : 88 Moo.3 Thungsukhla, Sriracha, Chonburi 20230

Sampling Source : ท่าเรือ A2

Sample No : W 64092208

Sample Name : บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อย **

Sampling Date : 24/09/2021

Sampling By : Customer

Sampling Time : -

Sampling Method : Grab

Received Date : 25/09/2021

Tested Date : 25/09/2021 - 04/10/2021

Reported Date : 07/10/2021

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	7.0	≤20
Chemical Oxygen Demand	mg/l	Closed Reflux, Titrimetric	< 40	≤120
Conductivity	10 ⁻⁶ S/cm	Laboratory	473	-
Flow Rate	m ³ /day	Calculation	not available	-
Oil and Grease	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0	≤5
pH		Electrometric	7.0	5.5-9.0
Phosphorus	mg/l as P	Ascorbic Acid	2.91	-
Total Dissolved Solids	mg/l	Dried at 180 C : APHA 2017 (2540C)	292	≤3000
Total Kjeldahl Nitrogen	mg/l as NH ₃ -N	Macro Kjeldahl	10	≤100
Total Suspended Solids	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	17	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Customer

Remark : 1. /1 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

2. Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. ** บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อยลงสู่ทะเล (ตึก Admin)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Examined By :

(Miss Apiradee Chuen-arom)

07/10/2021

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Test Report

Customer : Thai Laemchabang Terminal Co.,Ltd.

Address : 88 Moo. 3 Thungsukhla, Sriracha, Chonburi 20230

Sampling Source : ท่าเรือ A2

Sample No : W 64121836

Sample Name : บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อย **

Sampling Date : 20/12/2021

Sampling By : ETC

Sampling Time : 11:20 AM

Sampling Method : Grab

Received Date : 21/12/2021

Tested Date : 21/12/2021 - 04/01/2022

Reported Date : 06/01/2022

Request No : W6412494

Report No : 6501-0384

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	10.2	≤20
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	85	≤120
Oil and Grease @	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0	≤5
pH (on site) *		Electrometric	6.8	5.5-9.0
Temperature *	°C	Laboratory and Field	30	≤40
Total Dissolved Solids #	mg/l	Dried at 180 C : APHA 2017 (2540C)	200	≤3000
Total Kjeldahl Nitrogen *	mg/l as NH ₃ -N	Macro Kjeldahl	40	≤100
Total Suspended Solids #	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	15	≤50

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Notification of the Ministry of Natural Resources and Environmental, B.E. 2559 (2016)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. ** บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อยลงสู่ทะเล (ดีก Admin)

4. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (จ-003-ค-7279) *

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

06/01/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Approved By :

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

06/01/2022

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Test Report

Request No : W6409528

Report No : 6410-0294

Customer : Thai Laemchabang Terminal Co.,Ltd.

Address : 88 Moo. 3 Thungsukhla, Sriracha, Chonburi 20230

Sampling Source : ท่าเรือ A2

Sample No : W 64092207

Sample Name : น้ำก่อนเข้าระบบบำบัด (ตึก Admin)

Sampling Date : 24/09/2021

Sampling By : Customer

Sampling Time : --

Sampling Method : Grab

Received Date : 25/09/2021

Tested Date : 25/09/2021 - 04/10/2021

Reported Date : 07/10/2021

Parameter	Unit	Method	Result
Biochemical Oxygen Demand	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	24.2
Chemical Oxygen Demand	mg/l	Closed Reflux, Titrimetric	95
Conductivity	10 ⁻⁶ S/cm	Laboratory	616
Flow Rate	m ³ /day	Calculation	not available
Oil and Grease	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0
pH		Electrometric	7.6
Phosphorus	mg/l as P	Ascorbic Acid	3.78
Total Dissolved Solids	mg/l	Dried at 180 C : APHA 2017 (2540C)	194
Total Kjeldahl Nitrogen	mg/l as NH ₃ -N	Macro Kjeldahl	40
Total Suspended Solids	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	53

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Customer

Remark : 1. Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Examined By :

(Miss Apiradee Chuen-arom)
07/10/2021

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Test Report

Request No : W6412494

Report No : 6501-0383

Customer : Thai Laemchabang Terminal Co.,Ltd.

Address : 88 Moo.3 Thungsukhla, Sriracha, Chonburi 20230

Sampling Source : ท่าเรือ A2

Sample No : W 64121835

Sample Name : น้ำก่อนเข้าระบบบำบัด (ตึก Admin)

Sampling Date : 20/12/2021

Sampling By : ETC

Sampling Time : 11:15 AM

Sampling Method : Grab

Received Date : 21/12/2021

Tested Date : 21/12/2021 - 27/12/2021

Reported Date : 06/01/2022

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/l	5-Day BOD Test, Membrane Electrode : APHA 2017 (5210B)	9.1
Chemical Oxygen Demand *	mg/l	Closed Reflux, Titrimetric	41
Oil and Grease @	mg/l	Partition-Gravimetric Method : APHA 2017 (5520B)	< 3.0
pH (on site) *		Electrometric	7.0
Temperature *	°C	Laboratory and Field	30
Total Dissolved Solids #	mg/l	Dried at 180 C : APHA 2017 (2540C)	276
Total Kjeldahl Nitrogen *	mg/l as NH ₃ -N	Macro Kjeldahl	13
Total Suspended Solids #	mg/l	Dried at 103-105 C : APHA 2017 (2540D)	10

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. @ = ISO/IEC 17025:2017 Accredited by TISIL, # = ISO/IEC 17025:2017 Accredited by DSS,

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

2. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.

3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ก-7279) *

Examined By :

(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
06/01/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(จ-003-ก-2205)
06/01/2022

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Test Report

Request No : W6412494

Report No : 6501-0383

Customer : Thai Laemchabang Terminal Co.,Ltd.

Address : 88 Moo. 3 Thungsukhla, Sriracha, Chonburi 20230

Sampling Source : ท่าเรือ A2

Sample No : W 64121835

Sample Name : น้ำก่อนเข้าระบบบำบัด (ตึก Admin)

Sampling Date : 20/12/2021

Sampling By : ETC

Sampling Time : 11:15 AM

Sampling Method : Grab

Received Date : 21/12/2021

Tested Date : 21/12/2021 - 27/12/2021

Reported Date : 06/01/2022

Parameter	Unit	Method	Result
Conductivity	10^{-6} S/cm	Laboratory	523
Flow Rate	m ³ /day	Calculation	not available
Phosphorus	mg/l as P	Ascorbic Acid	3.46

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. Parameter Outside The Scope of The Registration of Department of Industrial Works

2. Sampling By Mr. Songpon Phiwuan (๓-003-ก-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Examined By :

(Miss Apiradee Chuen-arom)

06/01/2022

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Request No. W6410518

Report No. 6411-1351

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsookhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2
Sample Name : สถานีที่ 1
Sampling By : ETC
Sampling Method : Grab
Tested Date : 26/10/2021 – 17/11/2021
Sample No. : W64101917
Sampling Date : 25/10/2021
Sampling Time : 9:15 AM
Received Date : 26/10/2021
Reported Date : 19/11/2021

Parameter	Unit	Method	Result	Standard ^{1/}
Biochemical Oxygen Demand	mg/l	5-Day BOD Test, Membrane Electrode	< 2.0	
Coliform Bacteria	MPN : 100 ml	MPN Test	330	≤ 1000
Conductivity	10 ⁻⁶ S/cm	Laboratory	46,340	
Dissolved Oxygen	mg/l	Membrane Electrode	3.0	≥ 4
pH (on site)		Electrometric	7.8	7.0-8.5
Salinity	ppt	Electrical Conductivity	30.11	▽
Suspended Solid	mg/l	Dried at 103-105 degree celsius	< 5	ΔΔ
Temperature	°C	Laboratory and Field	29	Δ
Transparency	m	Secchi Disc	1.5	▽▽

Physical Apperance : 1. Sample : lightly SS , nonvisible floatable Oil & Grease on site
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /l Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5

2. Parameter Outside The Scope of The Registration of Department of Industrial Works

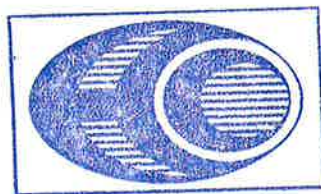
3. Δ = มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกิน 2°C จากสภาพธรรมชาติ

4. ΔΔ = มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกินผลรวมค่าเฉลี่ย 1 วันหรือ 1 เดือนหรือ 1 ปี บวกกับค่าเบี่ยงเบนมาตรฐานของค่าเฉลี่ยนั้น ๆ

5. ▽ = เปลี่ยนแปลงไม่เกินร้อยละ 10 ของค่าความเค็มต่ำสุด

6. ▽▽ = เปลี่ยนแปลงลดลงจากสภาพธรรมชาติไม่เกิน 10 % จากค่าความโปร่งใสต่ำสุด

7. Sampling By Mr. Songpon Phiwuan (ว-003-ค-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1352

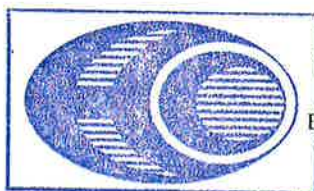
TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2
Sample Name : สถานีที่ 2
Sampling By : ETC
Sampling Method : Grab
Tested Date : 26/10/2021 – 17/11/2021
Sample No. : W64101918
Sampling Date : 25/10/2021
Sampling Time : 9:35 AM
Received Date : 26/10/2021
Reported Date : 19/11/2021

Parameter	Unit	Method	Result	Standard ¹⁾
Biochemical Oxygen Demand	mg/l	5-Day BOD Test, Membrane Electrode	12.6	-
Coliform Bacteria	MPN : 100 ml	MPN Test	790	≤ 1000
Conductivity	10 ⁻⁶ S/cm	Laboratory	46,610	-
Dissolved Oxygen	mg/l	Membrane Electrode	3.1	≥ 4
pH (on site)		Electrometric	8.0	7.0-8.5
Salinity	ppt	Electrical Conductivity	30.62	▽
Suspended Solid	mg/l	Dried at 103-105 degree celsius	< 5	ΔΔ
Temperature	°C	Laboratory and Field	29	Δ
Transparency	m	Secchi Disc	1.5	▽▽

Physical Apperance : 1. Sample : lightly SS , nonvisible flatable Oil & Grease on site
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. Δ = มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกิน 2°C จากสภาพธรรมชาติ
4. ΔΔ = มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกินผลรวมค่าเฉลี่ย 1 วันหรือ 1 เดือนหรือ 1 ปี บวกกับค่าเบี่ยงเบนมาตรฐานของค่าเฉลี่ยนั้น ๆ
5. ▽ = เปลี่ยนแปลงไม่เกินร้อยละ 10 ของค่าความเค็มต่ำสุด
6. ▽▽ = เปลี่ยนแปลงลดลงจากสภาพธรรมชาติไม่เกิน 10 % จากค่าความโปร่งใสต่ำสุด
7. Sampling By Mr. Songpon Phiwuan (ว-003-ค-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1353

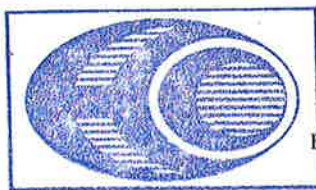
TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W64101919
Sample Name : สถานีที่ 3 Sampling Date : 25/10/2021
Sampling By : ETC Sampling Time : 9:55 AM
Sampling Method : Grab Received Date : 26/10/2021
Tested Date : 26/10/2021 – 17/11/2021 Reported Date : 19/11/2021

Parameter	Unit	Method	Result	Standard ¹⁾
Biochemical Oxygen Demand	mg/l	5-Day BOD Test, Membrane Electrode	< 2.0	-
Coliform Bacteria	MPN : 100 ml	MPN Test	490	≤ 1000
Conductivity	10 ⁻⁶ S/cm	Laboratory	47,060	-
Dissolved Oxygen	mg/l	Membrane Electrode	3.2	≥ 4
pH (on site)		Electrometric	8.2	7.0-8.5
Salinity	ppt	Electrical Conductivity	30.31	▽
Suspended Solid	mg/l	Dried at 103-105 degree celsius	< 5	△△
Temperature	°C	Laboratory and Field	30	△
Transparency	m	Secchi Disc	1.0	▽▽

Physical Apperance : 1. Sample : lightly SS , nonvisible flatable Oil & Grease on site
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. △ = มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกิน 2°C จากสภาพธรรมชาติ
4. △△ = มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกินผลรวมค่าเฉลี่ย 1 วันหรือ 1 เดือนหรือ 1 ปี บวกกับค่าเบี่ยงเบนมาตรฐานของค่าเฉลี่ยนั้น ๆ
5. ▽ = เปลี่ยนแปลงไม่เกินร้อยละ 10 ของค่าความเค็มต่ำสุด
6. ▽▽ = เปลี่ยนแปลงลดลงจากสภาพธรรมชาติไม่เกิน 10 % จากค่าความโปร่งใสต่ำสุด
7. Sampling By Mr. Songpon Phiwuan (ว-003-ค-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1354

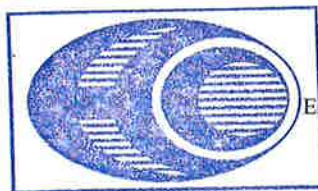
TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsohkhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2
Sample Name : สถานีที่ 4
Sampling By : ETC
Sampling Method : Grab
Tested Date : 26/10/2021 – 17/11/2021
Sample No. : W64101920
Sampling Date : 25/10/2021
Sampling Time : 10:15 AM
Received Date : 26/10/2021
Reported Date : 19/11/2021

Parameter	Unit	Method	Result	Standard ¹⁾
Biochemical Oxygen Demand	mg/l	5-Day BOD Test, Membrane Electrode	8.3	-
Coliform Bacteria	MPN : 100 ml	MPN Test	790	≤ 1000
Conductivity	10 ⁻⁶ S/cm	Laboratory	46,960	-
Dissolved Oxygen	mg/l	Membrane Electrode	3.2	≥ 4
pH (on site)		Electrometric	8.2	7.0-8.5
Salinity	ppt	Electrical Conductivity	30.90	▽
Suspended Solid	mg/l	Dried at 103-105 degree celsius	5	ΔΔ
Temperature	°C	Laboratory and Field	30	Δ
Transparency	m	Secchi Disc	2.0	▽▽

Physical Appearance : 1. Sample : lightly SS , nonvisible floatable Oil & Grease on site
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. Δ = มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกิน 2°C จากสภาพธรรมชาติ
4. ΔΔ = มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกินผลรวมค่าเฉลี่ย 1 วันหรือ 1 เดือนหรือ 1 ปี บวกกับค่าเบี่ยงเบนมาตรฐานของค่าเฉลี่ยนั้น ๆ
5. ▽ = เปลี่ยนแปลงไม่เกินร้อยละ 10 ของค่าความเค็มต่ำสุด
6. ▽▽ = เปลี่ยนแปลงลดลงจากสภาพธรรมชาติไม่เกิน 10 % จากค่าความโปร่งใสต่ำสุด
7. Sampling By Mr. Songpon Phiwan (ว-003-ก-7279)



Examined By

(Miss Apiradee Chuen-arom)

19/11/2021

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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Request No. W6410518

Report No. 6411-1351

TEST REPORT

Customer	:	Thai Laemchabang Terminal Co.,Ltd.	Sample No.	:	W64101917
Address	:	88 Moo.3 , Tungsohla , Sriracha , Chonburi 20230	Sampling Date	:	25/10/2021
Sampling Source	:	ท่าเรือ A2	Sampling Time	:	9:15 AM
Sample Name	:	สถานีที่ 1	Received Date	:	26/10/2021
Sampling By	:	ETC	Reported Date	:	19/11/2021
Sampling Method	:	Grab			
Tested Date	:	26/10/2021 – 17/11/2021			

Parameter #	Unit	Method	Result	Standard ¹
Phytoplankton				
Division Cyanophyta				
<i>Pseudanabaena</i> sp.	cell/l	Counting Chamber	2	-
Division Chlorophyta				
<i>Pediastrum</i> sp.	cell/l	Counting Chamber	3	-
<i>Phacus</i> sp.	cell/l	Counting Chamber	2	-
Division Chromophyta				
<i>Actinocyclus</i> sp.	cell/l	Counting Chamber	13	-
<i>Amphora</i> sp.	cell/l	Counting Chamber	2	-
<i>Asterolampra</i> sp.	cell/l	Counting Chamber	35	-
<i>Bacteriastrium</i> sp.	cell/l	Counting Chamber	19	-
<i>Cerataulina</i> sp.	cell/l	Counting Chamber	8	-
<i>Ceratium</i> sp.	cell/l	Counting Chamber	4,890	-
<i>Chaetoceros</i> sp.	cell/l	Counting Chamber	106	-
<i>Coscinodiscus</i> sp.	cell/l	Counting Chamber	115	-
<i>Cyclotella</i> sp.	cell/l	Counting Chamber	52	-
<i>Cylindrotheca</i> sp.	cell/l	Counting Chamber	14	-
<i>Dactyliosolen</i> sp.	cell/l	Counting Chamber	6	-
<i>Dinophysis</i> sp.	cell/l	Counting Chamber	16	-
<i>Eucampia</i> sp.	cell/l	Counting Chamber	8	-
<i>Guinardia</i> sp.	cell/l	Counting Chamber	57	-
<i>Gyrodinium</i> sp.	cell/l	Counting Chamber	3	-
<i>Hemiaulus</i> sp.	cell/l	Counting Chamber	19	-
<i>Lauderia</i> sp.	cell/l	Counting Chamber	8	-

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiyuan (5-003-11-7239)



Examined By 
(Miss Apiradee Chuen-arom)

19/11/2021

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
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Request No. W6410518

Report No. 6411-1351

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2
Sample Name : สถานีที่ 1
Sampling By : ETC
Sampling Method : Grab
Tested Date : 26/10/2021 – 17/11/2021
Sample No. : W64101917
Sampling Date : 25/10/2021
Sampling Time : 9:15 AM
Received Date : 26/10/2021
Reported Date : 19/11/2021

Parameter #	Unit	Method	Result	Standard ¹
Phytoplankton				
Division Chromophyta				
<i>Meunier</i> sp.	cell/l	Counting Chamber	16	-
<i>Nitzschia</i> sp.	cell/l	Counting Chamber	2	-
<i>Noctiluca</i> sp.	cell/l	Counting Chamber	8	-
<i>Odontella</i> sp.	cell/l	Counting Chamber	5	-
<i>Paralia</i> sp.	cell/l	Counting Chamber	11	-
<i>Peridinium</i> sp.	cell/l	Counting Chamber	2	-
<i>Pleurosigma</i> sp.	cell/l	Counting Chamber	5	-
<i>Proboscia</i> sp.	cell/l	Counting Chamber	2	-
<i>Prorocentrum</i> sp.	cell/l	Counting Chamber	63	-
<i>Protoperidinium</i> sp.	cell/l	Counting Chamber	111	-
<i>Pseudo-nitzschia</i> sp.	cell/l	Counting Chamber	9	-
<i>Pyrophacus</i> sp.	cell/l	Counting Chamber	3	-
<i>Rhizosolenia</i> sp.	cell/l	Counting Chamber	21	-
<i>Scripsiella</i> sp.	cell/l	Counting Chamber	5	-
<i>Surirella</i> sp.	cell/l	Counting Chamber	3	-
<i>Thalassionema</i> sp.	cell/l	Counting Chamber	190	-
<i>Thalassiosira</i> sp.	cell/l	Counting Chamber	84	-
<i>Trachyneis</i> sp.	cell/l	Counting Chamber	5	-
<i>Triceratium</i> sp.	cell/l	Counting Chamber	5	-
Total Genus	cell/l		39	-
Total Phytoplankton	cell/l		5,928	-
Diversity Index	cell/l		0.96	-

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phruan (13-003-11-22-09)



Examined By 
(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1351

TEST REPORT

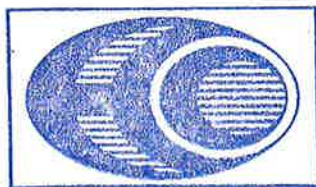
Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W64101917
Sample Name : สถานีที่ 1 Sampling Date : 25/10/2021
Sampling By : ETC Sampling Time : 9:15 AM
Sampling Method : Grab Received Date : 26/10/2021
Tested Date : 26/10/2021 – 17/11/2021 Reported Date : 19/11/2021

Parameter #	Unit	Method	Result	Standard ¹
Zooplankton				
Phylum Protozoa				
<i>Favella</i> sp.	ind./l	Counting Chamber	8	-
Phylum Arthropoda				
Calanoid copepod	ind./l	Counting Chamber	5	-
Copepod nauplius	ind./l	Counting Chamber	71	-
Harpacticoid copepod	ind./l	Counting Chamber	2	-
Phylum Chordata				
<i>Oikopleura</i> sp.	ind./l	Counting Chamber	2	-

Total Genus	ind./l	5	-
Total Zooplankton	ind./l	88	-
Diversity Index	ind./l	0.73	-

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwuan (ว-003-ค-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1351

TEST REPORT

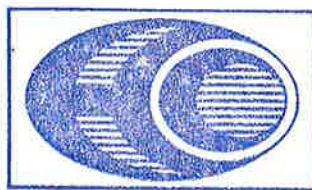
Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2
Sample Name : สถานีที่ 1
Sampling By : ETC
Sampling Method : Grab
Tested Date : 26/10/2021 – 17/11/2021
Sample No. : W64101917
Sampling Date : 25/10/2021
Sampling Time : 9:15 AM
Received Date : 26/10/2021
Reported Date : 19/11/2021

Parameter #	Unit	Method	Result	Standard ¹
Benthos	ind./m ²	Counting Chamber	ND	

Total Genus	ind./m ²	-	-
Total Benthos	ind./m ²	ND	-
Diversity Index	ind./m ²	-	-

Physical Apperance :
1. Sample : -
2. Container : Normal [PE 0.5 L (2 Bottle) , PE 1.8 L , G 0.2 L]

Remark :
1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwuan (ว-003-ค-7279)
4. ND = Not Detected



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1352

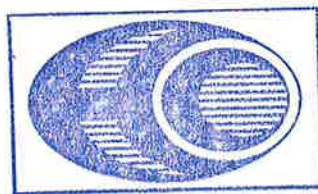
TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2
Sample Name : สถานีที่ 2
Sampling By : ETC
Sampling Method : Grab
Tested Date : 26/10/2021 – 17/11/2021
Sample No. : W64101918
Sampling Date : 25/10/2021
Sampling Time : 9:35 AM
Received Date : 26/10/2021
Reported Date : 19/11/2021

Parameter #	Unit	Method	Result	Standard ¹
Phytoplankton				
Division Cyanophyta				
<i>Pseudanabaena</i> sp.	cell/l	Counting Chamber	1	-
Division Chromophyta				
<i>Actinocyclus</i> sp.	cell/l	Counting Chamber	2	-
<i>Bacteriastrium</i> sp.	cell/l	Counting Chamber	17	-
<i>Biddulphia</i> sp.	cell/l	Counting Chamber	3	-
<i>Cerataulina</i> sp.	cell/l	Counting Chamber	14	-
<i>Ceratium</i> sp.	cell/l	Counting Chamber	458	-
<i>Chaetoceros</i> sp.	cell/l	Counting Chamber	52	-
<i>Coscinodiscus</i> sp.	cell/l	Counting Chamber	29	-
<i>Dinophysis</i> sp.	cell/l	Counting Chamber	46	-
<i>Ditylum</i> sp.	cell/l	Counting Chamber	3	-
<i>Eucampia</i> sp.	cell/l	Counting Chamber	2	-
<i>Guinardia</i> sp.	cell/l	Counting Chamber	3	-
<i>Hemiaulus</i> sp.	cell/l	Counting Chamber	3	-
<i>Lauderia</i> sp.	cell/l	Counting Chamber	1	-
<i>Meunier</i> sp.	cell/l	Counting Chamber	4	-

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwan (ว-003-ค-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1352

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W64101918
Sample Name : สถานีที่ 2 Sampling Date : 25/10/2021
Sampling By : ETC Sampling Time : 9:35 AM
Sampling Method : Grab Received Date : 26/10/2021
Tested Date : 26/10/2021 – 17/11/2021 Reported Date : 19/11/2021

Parameter #	Unit	Method	Result	Standard ¹
Phytoplankton				
Division Chromophyta				
<i>Noctiluca</i> sp.	cell/l	Counting Chamber	13	-
<i>Odontella</i> sp.	cell/l	Counting Chamber	5	-
<i>Palmeria</i> sp.	cell/l	Counting Chamber	2	-
<i>Planktoniella</i> sp.	cell/l	Counting Chamber	1	-
<i>Proboscia</i> sp.	cell/l	Counting Chamber	4	-
<i>Protopteridium</i> sp.	cell/l	Counting Chamber	23	-
<i>Pseudo-nitzschia</i> sp.	cell/l	Counting Chamber	17	-
<i>Pseudosolenia</i> sp.	cell/l	Counting Chamber	5	-
<i>Rhizosolenia</i> sp.	cell/l	Counting Chamber	10	-
<i>Thalassionema</i> sp.	cell/l	Counting Chamber	168	-
<i>Thalassiosira</i> sp.	cell/l	Counting Chamber	3	-
<i>Thalassiothrix</i> sp.	cell/l	Counting Chamber	9	-

Total Genus	cell/l	27	-
Total Phytoplankton	cell/l	898	-
Diversity Index	cell/l	1.82	-

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwuan (ว-003-ค-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1352

TEST REPORT

Customer	:	Thai Laemchabang Terminal Co.,Ltd.	Sample No.	:	W64101918
Address	:	88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230	Sampling Date	:	25/10/2021
Sampling Source	:	ท่าเรือ A2	Sampling Time	:	9:35 AM
Sample Name	:	สถานีที่ 2	Received Date	:	26/10/2021
Sampling By	:	ETC	Reported Date	:	19/11/2021
Sampling Method	:	Grab			
Tested Date	:	26/10/2021 – 17/11/2021			

Parameter #	Unit	Method	Result	Standard ¹
Zooplankton				
Phylum Protozoa				
<i>Euglypha</i> sp.	ind./l	Counting Chamber	1	-
<i>Favella</i> sp.	ind./l	Counting Chamber	3	-
<i>Globorotalia</i> sp.	ind./l	Counting Chamber	1	-
Phylum Chaetognatha				
<i>Sagitta</i> sp.	ind./l	Counting Chamber	1	-
Phylum Cnidaria				
<i>Diphyes</i> sp.	ind./l	Counting Chamber	1	-
Phylum Arthropoda				
Calanoid copepod	ind./l	Counting Chamber	2	-
Copepod nauplius	ind./l	Counting Chamber	37	-
Cyclopoid copepod	ind./l	Counting Chamber	3	-
Harpacticoid copepod	ind./l	Counting Chamber	4	-
<i>Lucifer</i> sp.	ind./l	Counting Chamber	1	-
Phylum Chordata				
<i>Oikopleura</i> sp.	ind./l	Counting Chamber	1	-
Total Genus	ind./l		11	-
Total Zooplankton	ind./l		55	-
Diversity Index	ind./l		1.33	-

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwuan (๖-003-๓-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1352

TEST REPORT

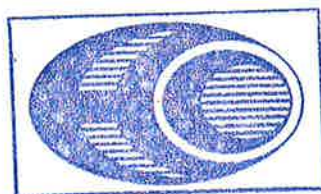
Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2
Sample Name : สถานีที่ 2
Sampling By : ETC
Sampling Method : Grab
Tested Date : 26/10/2021 – 17/11/2021
Sample No. : W64101918
Sampling Date : 25/10/2021
Sampling Time : 9:35 AM
Received Date : 26/10/2021
Reported Date : 19/11/2021

Parameter #	Unit	Method	Result	Standard ¹
Benthos	ind./m ²	Counting Chamber	ND	-


Total Genus	ind./m ²	-	-
Total Benthos	ind./m ²	ND	-
Diversity Index	ind./m ²	-	-

Physical Apperance :
1. Sample : -
2. Container : Normal [PE 0.5 L (2 Bottle) , PE 1.8 L , G 0.2 L]

Remark :
1. /I Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwuan (J-003-ค-7279)
4. ND = Not Detected



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 
(Miss Apiradee Chuen-arom)
19/11/2021

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Request No. W6410518

Report No. 6411-1353

TEST REPORT

Customer	:	Thai Laemchabang Terminal Co.,Ltd.	Sample No.	:	W64101919
Address	:	88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230	Sampling Date	:	25/10/2021
Sampling Source	:	ท่าเรือ A2	Sampling Time	:	9:55 AM
Sample Name	:	สถานีที่ 3	Received Date	:	26/10/2021
Sampling By	:	ETC	Reported Date	:	19/11/2021
Sampling Method	:	Grab			
Tested Date	:	26/10/2021 – 17/11/2021			

Parameter #	Unit	Method	Result	Standard ¹
Phytoplankton				
Division Cyanophyta				
<i>Oscillatoria</i> sp.	cell/l	Counting Chamber	5	-
Division Chromophyta				
<i>Actinopterychus</i> sp.	cell/l	Counting Chamber	31	-
<i>Bacteriastrium</i> sp.	cell/l	Counting Chamber	20	-
<i>Ceratium</i> sp.	cell/l	Counting Chamber	1,209	-
<i>Chaetoceros</i> sp.	cell/l	Counting Chamber	73	-
<i>Corethron</i> sp.	cell/l	Counting Chamber	5	-
<i>Coscinodiscus</i> sp.	cell/l	Counting Chamber	39	-
<i>Cyclotella</i> sp.	cell/l	Counting Chamber	36	-
<i>Cylindrotheca</i> sp.	cell/l	Counting Chamber	5	-
<i>Dactyliosolen</i> sp.	cell/l	Counting Chamber	8	-
<i>Dinophysis</i> sp.	cell/l	Counting Chamber	20	-
<i>Entomoneis</i> sp.	cell/l	Counting Chamber	2	-
<i>Guinardia</i> sp.	cell/l	Counting Chamber	11	-
<i>Haslea</i> sp.	cell/l	Counting Chamber	9	-
<i>Hemiaulus</i> sp.	cell/l	Counting Chamber	14	-
<i>Lauderia</i> sp.	cell/l	Counting Chamber	5	-
<i>Meunier</i> sp.	cell/l	Counting Chamber	17	-

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwuan (จ-003-ก-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1353

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2
Sample Name : สถานีที่ 3
Sampling By : ETC
Sampling Method : Grab
Tested Date : 26/10/2021 – 17/11/2021
Sample No. : W64101919
Sampling Date : 25/10/2021
Sampling Time : 9:55 AM
Received Date : 26/10/2021
Reported Date : 19/11/2021

Parameter #	Unit	Method	Result	Standard ¹
Phytoplankton				
Division Chromophyta				
<i>Nitzschia</i> sp.	cell/l	Counting Chamber	17	-
<i>Noctiluca</i> sp.	cell/l	Counting Chamber	6	-
<i>Paralia</i> sp.	cell/l	Counting Chamber	5	-
<i>Pleurosigma</i> sp.	cell/l	Counting Chamber	5	-
<i>Proboscia</i> sp.	cell/l	Counting Chamber	14	-
<i>Prorocentrum</i> sp.	cell/l	Counting Chamber	31	-
<i>Protoperdinium</i> sp.	cell/l	Counting Chamber	62	-
<i>Pseudo-nitzschia</i> sp.	cell/l	Counting Chamber	12	-
<i>Rhizosolenia</i> sp.	cell/l	Counting Chamber	12	-
<i>Thalassionema</i> sp.	cell/l	Counting Chamber	299	-
<i>Thalassiosira</i> sp.	cell/l	Counting Chamber	42	-
<i>Tryblionella</i> sp.	cell/l	Counting Chamber	2	-

Total Genus	cell/l	29	-
Total Phytoplankton	cell/l	2,016	-
Diversity Index	cell/l	1.67	-

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwuan (ว-003-ค-7279)



Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1353

TEST REPORT

Customer	Thai Laemchabang Terminal Co.,Ltd.	Sample No.	W64101919
Address	88 Moo.3 , Tungsohla , Sriracha , Chonburi 20230	Sampling Date	25/10/2021
Sampling Source	ท่าเรือ A2	Sampling Time	9:55 AM
Sample Name	สถานีที่ 3	Received Date	26/10/2021
Sampling By	ETC	Reported Date	19/11/2021
Sampling Method	Grab		
Tested Date	26/10/2021 – 17/11/2021		

Parameter #	Unit	Method	Result	Standard ¹
Zooplankton				
Phylum Protozoa				
Codonellopsis sp.	ind./l	Counting Chamber	2	-
Globorotalia sp.	ind./l	Counting Chamber	3	-
Rhabdonella sp.	ind./l	Counting Chamber	2	-
Phylum Arthropoda				
Calanoid copepod	ind./l	Counting Chamber	6	-
Cirripede nauplius	ind./l	Counting Chamber	2	-
Copepod nauplius	ind./l	Counting Chamber	74	-
Cyclopoid copepod	ind./l	Counting Chamber	5	-

Total Genus	ind./l	7	-
Total Zooplankton	ind./l	94	-
Diversity Index	ind./l	0.88	-

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwan (ว-003-ก-7279)



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19/11/2021

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Request No. W6410518

Report No. 6411-1353

TEST REPORT

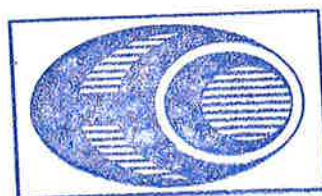
Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2
Sample Name : สถานีที่ 3
Sampling By : ETC
Sampling Method : Grab
Tested Date : 26/10/2021 – 17/11/2021
Sample No. : W64101919
Sampling Date : 25/10/2021
Sampling Time : 9:55 AM
Received Date : 26/10/2021
Reported Date : 19/11/2021

Parameter #	Unit	Method	Result	Standard ¹
Benthos	ind./m ²	Counting Chamber	ND	

Total Genus	ind./m ²	-	-
Total Benthos	ind./m ²	ND	-
Diversity Index	ind./m ²	-	-

Physical Apperance : 1. Sample : -
2. Container : 1 bag

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwuan (๖-003-๓-7279)
4. ND = Not Detected



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Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1354

TEST REPORT

Customer	:	Thai Laemchabang Terminal Co.,Ltd.	Sample No.	:	W64101920
Address	:	88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230	Sampling Date	:	25/10/2021
Sampling Source	:	ท่าเรือ A2	Sampling Time	:	10:15 AM
Sample Name	:	สถานีที่ 4	Received Date	:	26/10/2021
Sampling By	:	ETC	Reported Date	:	19/11/2021
Sampling Method	:	Grab			
Tested Date	:	26/10/2021 – 17/11/2021			

Parameter #	Unit	Method	Result	Standard ¹
Phytoplankton				
Division Chromophyta				
<i>Actinopterychus</i> sp.	cell/l	Counting Chamber	9	-
<i>Amphora</i> sp.	cell/l	Counting Chamber	3	-
<i>Bacteriastrum</i> sp.	cell/l	Counting Chamber	4	-
<i>Cerataulina</i> sp.	cell/l	Counting Chamber	3	-
<i>Ceratium</i> sp.	cell/l	Counting Chamber	818	-
<i>Chaetoceros</i> sp.	cell/l	Counting Chamber	67	-
<i>Coscinodiscus</i> sp.	cell/l	Counting Chamber	10	-
<i>Cyclotella</i> sp.	cell/l	Counting Chamber	5	-
<i>Cylindrotheca</i> sp.	cell/l	Counting Chamber	7	-
<i>Dactyliosolen</i> sp.	cell/l	Counting Chamber	67	-
<i>Dictyocha</i> sp.	cell/l	Counting Chamber	3	-
<i>Dinophysis</i> sp.	cell/l	Counting Chamber	23	-
<i>Entomoneis</i> sp.	cell/l	Counting Chamber	3	-
<i>Guinardia</i> sp.	cell/l	Counting Chamber	4	-
<i>Nitzschia</i> sp.	cell/l	Counting Chamber	5	-
<i>Odontella</i> sp.	cell/l	Counting Chamber	1	-
<i>Palmeria</i> sp.	cell/l	Counting Chamber	1	-

Physical Appearance :

1. Sample : lightly SS

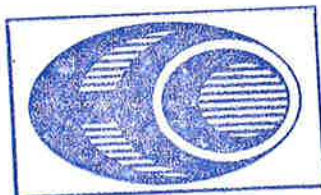
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark :

1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5

2. # Tested by Institute of Kasetsart University

3. Sampling By Mr. Songpon Phiwuan (ว-003-ค-7279)



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Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-I354

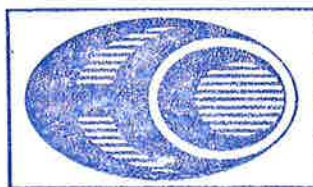
TEST REPORT

Customer	:	Thai Laemchabang Terminal Co.,Ltd.	Sample No.	:	W64101920
Address	:	88 Moo.3 , Tungsohla , Sriracha , Chonburi 20230	Sampling Date	:	25/10/2021
Sampling Source	:	ท่าเรือ A2	Sampling Time	:	10:15 AM
Sample Name	:	สถานีที่ 4	Received Date	:	26/10/2021
Sampling By	:	ETC	Reported Date	:	19/11/2021
Sampling Method	:	Grab			
Tested Date	:	26/10/2021 – 17/11/2021			

Parameter #	Unit	Method	Result	Standard ¹
Phytoplankton				
Division Chromophyta				
<i>Pleurosigma</i> sp.	cell/l	Counting Chamber	4	-
<i>Proboscia</i> sp.	cell/l	Counting Chamber	3	-
<i>Prorocentrum</i> sp.	cell/l	Counting Chamber	4	-
<i>Protoperdinium</i> sp.	cell/l	Counting Chamber	50	-
<i>Pseudo-nitzschia</i> sp.	cell/l	Counting Chamber	8	-
<i>Rhizosolenia</i> sp.	cell/l	Counting Chamber	6	-
<i>Skeletonema</i> sp.	cell/l	Counting Chamber	5	-
<i>Surirella</i> sp.	cell/l	Counting Chamber	8	-
<i>Thalassionema</i> sp.	cell/l	Counting Chamber	70	-
<i>Thalassiosira</i> sp.	cell/l	Counting Chamber	39	-
<i>Trachyneis</i> sp.	cell/l	Counting Chamber	1	-
Total Genus	cell/l		28	-
Total Phytoplankton	cell/l		1,231	-
Diversity Index	cell/l		1.49	-

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /I Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwuan (ว-003-ค-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1354

TEST REPORT

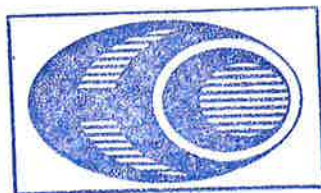
Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2
Sample Name : สถานีที่ 4
Sampling By : ETC
Sampling Method : Grab
Tested Date : 26/10/2021 – 17/11/2021
Sample No. : W64101920
Sampling Date : 25/10/2021
Sampling Time : 10:15 AM
Received Date : 26/10/2021
Reported Date : 19/11/2021

Parameter #	Unit	Method	Result	Standard ¹
Zooplankton				
Phylum Protozoa				
<i>Codonellopsis</i> sp.	ind./l	Counting Chamber	1	-
<i>Favella</i> sp.	ind./l	Counting Chamber	3	-
Phylum Arthropoda				
Calanoid copepod	ind./l	Counting Chamber	3	-
Copepod nauplius	ind./l	Counting Chamber	20	-
Cyclopoid copepod	ind./l	Counting Chamber	3	-
Phylum Chordata				
<i>Oikopleura</i> sp.	ind./l	Counting Chamber	1	-

Total Genus	ind./l	6	-
Total Zooplankton	ind./l	31	-
Diversity Index	ind./l	1.18	-

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L(2 Bottle) , PE 1.8 L , G 0.2 L]

Remark : 1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Songpon Phiwan (ว-003-ค-7279)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

19/11/2021

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Request No. W6410518

Report No. 6411-1354

TEST REPORT

Customer	:	Thai Laemchabang Terminal Co.,Ltd.	Sample No.	:	W64101920
Address	:	88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230	Sampling Date	:	25/10/2021
Sampling Source	:	ท่าเรือ A2	Sampling Time	:	10:15 AM
Sample Name	:	สถานีที่ 4	Received Date	:	26/10/2021
Sampling By	:	ETC	Reported Date	:	19/11/2021
Sampling Method	:	Grab			
Tested Date	:	26/10/2021 – 17/11/2021			

Parameter #	Unit	Method	Result	Standard ¹
Benthos	ind./m ²	Counting Chamber	ND	

Total Genus	ind./m ²	-	-
Total Benthos	ind./m ²	ND	-
Diversity Index	ind./m ²	-	-

Physical Apperance :
1. Sample :
2. Container : 1 bag

Remark :
1. /1 Seawater Quality Standard , Notification of the National Environment Board B.E. 2564 (2021) , Class 5
2. # Tested by Institute of Kasetsart University
3. Sampling By Mr. Parkpoom Buasawad (จ-003-ค-7280)
4. ND = Not Detected



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

19/11/2021

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

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