

Request No. ATR6506041

Report No. 6506-0979 - 6506-0981

TEST REPORT

CUSTOMER : บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด
 ADDRESS : 88 ม.3 ท่าเรือแหลมฉบังท่าที่ A2 ต.ทุ่งสุขลา อ.ศรีราชา จ.ชลบุรี 20230
 SAMPLE SOURCE : บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด
 SAMPLE NAME : ท่าเรือ A2
 RECEIVED DATE : 23/06/2022 SAMPLE NO. : A65060979 - A65060981
 TESTED DATE : 23/06/2022-27/06/2022 REPORTED DATE : 01/07/2022

| PARAMETER* | TEST METHOD | SAMPLING DATE | RESULT | STD ^{1/} | UNIT |
|-----------------------------------|--------------------|---------------|--------|-------------------|-------------------|
| Total Suspended Particulate (TSP) | Gravimetric Method | 14-15/06/2022 | 0.099 | 0.33 | mg/m ³ |
| | | 15-16/06/2022 | 0.153 | 0.33 | mg/m ³ |
| | | 16-17/06/2022 | 0.099 | 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)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Thanatporn Klinsoyon)

01/07/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0681

Report No. R6506-3263 - R6506-3265

TEST REPORT

CUSTOMER : บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด
ADDRESS : 88 ม. 3 ท่าเรือแหลมฉบังท่าที่ A2 ต.ทุ่งสุขลา อ. ศรีราชา จ. ชลบุรี 20230
SAMPLE SOURCE : บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด
SAMPLE POINT : ท่าเรือ A2
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model T100 S/N 5700

SAMPLE NO. : 13549-13551
SAMPLING DATE : 14-17/06/2022
RECEIVED DATE : 17/06/2022
REPORTED DATE : 23/06/2022

| TIME / DATE | 14-15/06/2022 | 15-16/06/2022 | 16-17/06/2022 | UNIT |
|--|---------------|---------------|---------------|------|
| 09:00 - 10:00 ³ | 0.016 | 0.016 | 0.016 | ppm |
| 10:00 - 11:00 | 0.017 | 0.017 | 0.016 | ppm |
| 11:00 - 12:00 | 0.016 | 0.014 | 0.014 | ppm |
| 12:00 - 13:00 | 0.014 | 0.014 | 0.014 | ppm |
| 13:00 - 14:00 | 0.015 | 0.014 | 0.016 | ppm |
| 14:00 - 15:00 | 0.014 | 0.014 | 0.015 | ppm |
| 15:00 - 16:00 | 0.015 | 0.015 | 0.014 | ppm |
| 16:00 - 17:00 | 0.015 | 0.015 | 0.014 | ppm |
| 17:00 - 18:00 | 0.014 | 0.015 | 0.014 | ppm |
| 18:00 - 19:00 | 0.015 | 0.015 | 0.016 | ppm |
| 19:00 - 20:00 | 0.015 | 0.015 | 0.015 | ppm |
| 20:00 - 21:00 | 0.015 | 0.015 | 0.014 | ppm |
| 21:00 - 22:00 | 0.015 | 0.015 | 0.015 | ppm |
| 22:00 - 23:00 | 0.016 | 0.015 | 0.015 | ppm |
| 23:00 - 00:00 | 0.016 | 0.016 | 0.015 | ppm |
| 00:00 - 01:00 | 0.016 | 0.015 | 0.015 | ppm |
| 01:00 - 02:00 | 0.016 | 0.016 | 0.015 | ppm |
| 02:00 - 03:00 | 0.017 | 0.017 | 0.017 | ppm |
| 03:00 - 04:00 | 0.016 | 0.016 | 0.015 | ppm |
| 04:00 - 05:00 | 0.016 | 0.015 | 0.015 | ppm |
| 05:00 - 06:00 | 0.016 | 0.015 | 0.015 | ppm |
| 06:00 - 07:00 | 0.016 | 0.016 | 0.015 | ppm |
| 07:00 - 08:00 | 0.016 | 0.016 | 0.016 | ppm |
| 08:00 - 09:00 | 0.016 | 0.016 | 0.016 | ppm |
| Maximum 1 hr. | 0.017 | 0.017 | 0.017 | ppm |
| Average 24 hr. | 0.016 | 0.015 | 0.015 | ppm |
| Standard (1 hr.) ¹ | 0.30 | 0.30 | 0.30 | ppm |
| Standard (Average 24 hr.) ² | 0.12 | 0.12 | 0.12 | ppm |

REMARK : ¹ Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)² Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)³ Start Time* Parameter Outside The Scope of The Standard of The Department of Industrial Works
(Measurement By Mr. Tummarut Kongsakul)

Approved By.....

(MS. THANATPORN KLINSOPON)

23/06/2022

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. LA65-R0681

Report No. R6506-3266 - R6506-3268

TEST REPORT

CUSTOMER : บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด
ADDRESS : 88 ม. 3 ท่าเรือแหลมฉบังท่าที่ A2 ต.ทุ่งสุขลา อ.ศรีราชา จ.ชลบุรี 20230
SAMPLE SOURCE : บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด
SAMPLE POINT : ท่าเรือ A2
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model M200E S/N 4084

SAMPLE NO. : 13552-13554
SAMPLING DATE : 14-17/06/2022
RECEIVED DATE : 17/06/2022
REPORTED DATE : 23/06/2022

| TIME / DATE | 14-15/06/2022 | 15-16/06/2022 | 16-17/06/2022 | UNIT |
|-------------------------------|---------------|---------------|---------------|------|
| 09:00 - 10:00 ² | 0.007 | 0.009 | 0.019 | ppm |
| 10:00 - 11:00 | 0.007 | 0.009 | 0.013 | ppm |
| 11:00 - 12:00 | 0.009 | 0.006 | 0.006 | ppm |
| 12:00 - 13:00 | 0.010 | 0.005 | 0.008 | ppm |
| 13:00 - 14:00 | 0.012 | 0.016 | 0.008 | ppm |
| 14:00 - 15:00 | 0.008 | 0.026 | 0.007 | ppm |
| 15:00 - 16:00 | 0.007 | 0.018 | 0.008 | ppm |
| 16:00 - 17:00 | 0.008 | 0.013 | 0.006 | ppm |
| 17:00 - 18:00 | 0.018 | 0.036 | 0.011 | ppm |
| 18:00 - 19:00 | 0.025 | 0.036 | 0.016 | ppm |
| 19:00 - 20:00 | 0.020 | 0.037 | 0.020 | ppm |
| 20:00 - 21:00 | 0.018 | 0.029 | 0.016 | ppm |
| 21:00 - 22:00 | 0.020 | 0.030 | 0.019 | ppm |
| 22:00 - 23:00 | 0.018 | 0.033 | 0.023 | ppm |
| 23:00 - 00:00 | 0.021 | 0.029 | 0.024 | ppm |
| 00:00 - 01:00 | 0.020 | 0.024 | 0.022 | ppm |
| 01:00 - 02:00 | 0.018 | 0.021 | 0.022 | ppm |
| 02:00 - 03:00 | 0.016 | 0.018 | 0.022 | ppm |
| 03:00 - 04:00 | 0.017 | 0.017 | 0.021 | ppm |
| 04:00 - 05:00 | 0.018 | 0.021 | 0.024 | ppm |
| 05:00 - 06:00 | 0.017 | 0.025 | 0.023 | ppm |
| 06:00 - 07:00 | 0.020 | 0.026 | 0.023 | ppm |
| 07:00 - 08:00 | 0.016 | 0.018 | 0.021 | ppm |
| 08:00 - 09:00 | 0.013 | 0.012 | 0.015 | ppm |
| Maximum 1 hr. | 0.025 | 0.037 | 0.024 | ppm |
| Average 24 hr. | 0.015 | 0.021 | 0.016 | 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 Ministry of the Department of Industrial Works
(Measurement By Mr. Tummarut Pongpanich)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

23/06/2022

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แผนผังทิศทางและความเร็วลม

Request No. LA65-R0681

บริษัท ไทยแหลมฉบัง เทอร์มินัล จำกัด

Sample No. 13555

จุดตรวจวัด : ท่าเรือ A2

วันที่ตรวจวัด : 14-17 มิถุนายน 2565

| เวลา | 14-15 มิถุนายน 2565 | | 15-16 มิถุนายน 2565 | | 16-17 มิถุนายน 2565 | |
|-------------|-----------------------------|----------|-----------------------------|----------|-----------------------------|----------|
| | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม |
| 09:00-10:00 | 2.7 | S | 3.1 | S | 1.8 | ESE |
| 10:00-11:00 | 3.6 | S | 2.7 | S | 2.2 | S |
| 11:00-12:00 | 3.6 | SSW | 3.6 | S | 4.0 | S |
| 12:00-13:00 | 3.1 | SSW | 3.6 | S | 3.1 | S |
| 13:00-14:00 | 3.1 | SSW | 1.8 | S | 3.1 | S |
| 14:00-15:00 | 3.1 | S | 0.9 | NNE | 3.1 | S |
| 15:00-16:00 | 3.6 | S | 1.8 | S | 3.6 | S |
| 16:00-17:00 | 2.7 | S | 1.8 | S | 3.6 | S |
| 17:00-18:00 | 1.3 | S | 0.9 | E | 2.7 | S |
| 18:00-19:00 | 2.2 | ESE | 0.9 | E | 2.2 | S |
| 19:00-20:00 | 2.2 | ESE | 0.9 | ENE | 2.2 | ESE |
| 20:00-21:00 | 1.8 | SE | 2.2 | ESE | 2.2 | ESE |
| 21:00-22:00 | 1.3 | ESE | 1.3 | E | 2.2 | ESE |
| 22:00-23:00 | 1.8 | ESE | 0.9 | ENE | 1.3 | E |
| 23:00-00:00 | 1.3 | ESE | 0.9 | E | 1.3 | ESE |
| 00:00-01:00 | 1.3 | E | 0.9 | E | 0.9 | S |
| 01:00-02:00 | 1.8 | ESE | 0.9 | E | 0.9 | SE |
| 02:00-03:00 | 1.8 | ESE | 0.9 | E | 0.9 | E |
| 03:00-04:00 | 1.8 | ESE | 1.3 | E | 0.9 | E |
| 04:00-05:00 | 1.3 | E | 0.9 | ENE | 0.9 | ENE |
| 05:00-06:00 | 1.3 | E | 0.9 | E | 1.3 | E |
| 06:00-07:00 | 1.3 | E | 0.9 | E | 1.3 | E |
| 07:00-08:00 | 1.8 | SE | 1.8 | ESE | 1.8 | ESE |
| 08:00-09:00 | 2.2 | S | 2.2 | ESE | 2.2 | SSW |

COPY

แผนผังทิศทางและความเร็วลม

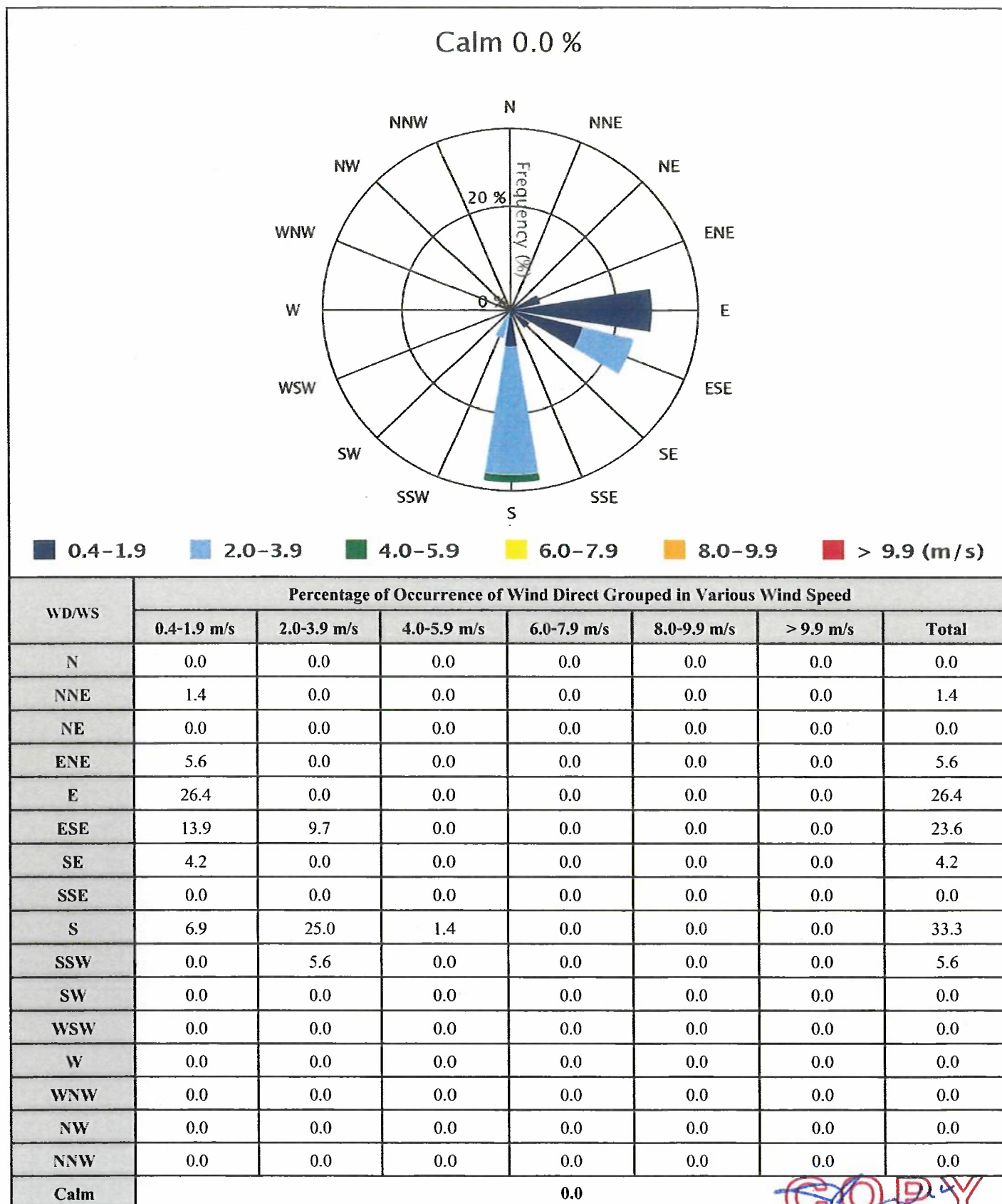
Request No. LA65-R068

บริษัท ไทยแลนด์บั่ง เทอร์มินัล จำกัด

Sample No. 1355

จุดตรวจวัด : ท่าเรือ A2

วันที่ตรวจวัด : 14-17 มิถุนายน 2565



Test Report

Request No : W6503564

Report No : 6504-1116

Customer : Thai Laemchabang Terminal Co.,Ltd. *

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

Sampling Source : ท่าเรือ A2 *

Sample No : W 65032201

Sample Name : บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อย ## *

Sampling Date : 24/03/2022 *

Sampling By : ETC *

Sampling Time : 10:15 AM *

Sampling Method : Grab *

Received Date : 25/03/2022

Tested Date : 25/03/2022 - 18/04/2022

Reported Date : 20/04/2022

| Parameter | Unit | Method | Result | Standard/ ¹ |
|--|----------------------------|--|--------|------------------------|
| Biochemical Oxygen Demand [#] | mg/l | 5-Day BOD Test, Membrane Electrode Method (SM:5210B) | 10.3 | ≤20 |
| Chemical Oxygen Demand * | mg/l | Closed Reflux, Titrimetric Method (SM:5220C) | 70 | ≤120 |
| Oil and Grease [@] | mg/l | Partition-Gravimetric Method (SM:5520B) | < 3.0 | ≤5 |
| pH (on site) * | | Electrometric Method | 7.6 | 5.5-9.0 |
| Temperature * | °C | Laboratory and Field Method | 28 | ≤40 |
| Total Dissolved Solids [#] | mg/l | Dried at 180 C (SM:2540C) | 344 | ≤3000 |
| Total Kjeldahl Nitrogen * | mg/l as NH ₃ -N | Macro Kjeldahl Method (SM:4500 -Norg B) | 15 | ≤100 |
| Total Suspended Solids [#] | mg/l | Dried at 103-105 C (SM:2540D) | 12 | ≤50 |

Physical Apperance : 1. Sample : brown, 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,

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

3. ## บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อยลงสู่ทะเล (ตึก 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 Phiwan (จ-003-ก-7279) *

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

20/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

20/04/2022

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Test Report

Request No : W6503564

Report No : 6504-1116

Customer : Thai Laemchabang Terminal Co.,Ltd.

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

Sampling Source : ท่าเรือ A2

Sample No : W 65032201

Sample Name : บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อย ##

Sampling Date : 24/03/2022

Sampling By : ETC

Sampling Time : 10:15 AM

Sampling Method : Grab

Received Date : 25/03/2022

Tested Date : 25/03/2022 - 18/04/2022

Reported Date : 20/04/2022

| Parameter | Unit | Method | Result | Standard ¹ |
|--------------|-----------------------|--|---------------|-----------------------|
| Conductivity | 10 ⁻⁶ S/cm | Laboratory Method (SM:2510B) | 553 | - |
| Flow Rate | m ³ /day | Calculation Method | not available | - |
| Phosphorus | mg/l as P | Ascorbic Acid Method (SM:4500 -P B) | 2.37 | - |

Physical Apperance : 1. Sample : brown, 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. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

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

4. ## บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อยลงสู่ทะเล (ตึก Admin)

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



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

20/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6506489

Report No : 6507-0031

Customer : Thai Laemchabang Terminal Co.,Ltd. **

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

Sampling Source : ท่าเรือ A2 **

Sample No : W 65061737

Sample Name : บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อย ## **

Sampling Date : 17/06/2022 **

Sampling By : ETC **

Sampling Time : 9:00 AM **

Sampling Method : Grab **

Received Date : 18/06/2022

Tested Date : 18/06/2022 - 29/06/2022

Reported Date : 04/07/2022

| Parameter | Unit | Method | Result | Standard ¹ |
|-----------------------------|----------------------------|--|--------|-----------------------|
| Biochemical Oxygen Demand # | mg/l | 5-Day BOD Test, Membrane Electrode Method (SM:5210B) | 13.8 | ≤20 |
| Chemical Oxygen Demand # | mg/l | Closed Reflux, Titrimetric Method (SM:5220C) | 50 | ≤120 |
| Oil and Grease @ | mg/l | Partition-Gravimetric Method (SM:5520B) | < 3.0 | ≤5 |
| pH (on site) * | | Electrometric Method | 7.0 | 5.5-9.0 |
| Temperature * | °C | Laboratory and Field Method | 32 | ≤40 |
| Total Dissolved Solids # | mg/l | Dried at 180 C (SM:2540C) | 328 | ≤3000 |
| Total Kjeldahl Nitrogen * | mg/l as NH ₃ -N | Macro Kjeldahl Method (SM:4500 -Norg B) | 10 | ≤100 |
| Total Suspended Solids # | mg/l | Dried at 103-105 C (SM:2540D) | 15 | ≤50 |

Physical Apperance : 1. Sample : yellow , 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,

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

3. ## บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อยลงสู่ทะเล (ตึก Admin) / ** = These data are non laboratory data.

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

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ก-7280) *

Examined By :

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

04/07/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)

(จ-003-ก-2205)

04/07/2022

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Test Report

Request No : W6506489

Report No : 6507-0031

Customer : Thai Laemchabang Terminal Co.,Ltd.

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

Sampling Source : ท่าเรือ A2

Sample No : W 65061737

Sample Name : บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อย ##

Sampling Date : 17/06/2022

Sampling By : ETC

Sampling Time : 9:00 AM

Sampling Method : Grab

Received Date : 18/06/2022

Tested Date : 18/06/2022 - 29/06/2022

Reported Date : 04/07/2022

| Parameter | Unit | Method | Result | Standard ¹ |
|--------------|-----------------------|---------------------------------------|---------------|-----------------------|
| Conductivity | 10 ⁻⁶ S/cm | Laboratory Method (SM:2510B) | 499 | - |
| Flow Rate | m ³ /day | Calculation Method | not available | - |
| Phosphorus | mg/l as P | Ascorbic Acid Method (SM:4500-P B) | 3.85 | - |

Physical Apperance : 1. Sample : yellow, 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. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

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

4. ## บ่อพักน้ำทิ้งที่ผ่านการบำบัดแล้วก่อนปล่อยลงสู่ทะเล (ตึก Admin)

5. Sampling By Mr. Parkpoom Buasawad (ว-003-ก-7280)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By :

(Miss Apiradee Chuen-arom)

04/07/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6503564

Report No : 6504-1115

Customer : Thai Laemchabang Terminal Co.,Ltd. *

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

Sampling Source : ท่าเรือ A2 *

Sample No : W 65032200

Sample Name : น้ำก่อนเข้าระบบบำบัด (ตึก Admin) *

Sampling Date : 24/03/2022 *

Sampling By : ETC *

Sampling Time : 9:45 AM *

Sampling Method : Grab *

Received Date : 25/03/2022

Tested Date : 25/03/2022 - 02/04/2022

Reported Date : 20/04/2022

| Parameter | Unit | Method | Result |
|-----------------------------|----------------------------|--|--------|
| Biochemical Oxygen Demand # | mg/l | 5-Day BOD Test, Membrane Electrode Method (SM:5210B) | 47.2 |
| Chemical Oxygen Demand * | mg/l | Closed Reflux, Titrimetric Method (SM:5220C) | 89 |
| Oil and Grease @ | mg/l | Partition-Gravimetric Method (SM:5520B) | < 3.0 |
| pH (on site) * | | Electrometric Method | 7.4 |
| Temperature * | °C | Laboratory and Field Method | 30 |
| Total Dissolved Solids # | mg/l | Dried at 180 C (SM:2540C) | 256 |
| Total Kjeldahl Nitrogen * | mg/l as NH ₃ -N | Macro Kjeldahl Method (SM:4500 -Norg B) | 37 |
| Total Suspended Solids # | mg/l | Dried at 103-105 C (SM:2540D) | 10 |

Physical Apperance : 1. Sample : yellow, 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 TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = 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 Phiwuan (๖-003-ก-๗279) *

Examined By :

(Miss Apiradee Chuen-arom)
(๖-003-ก-4377)
20/04/2022



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By :

(Mr. Kawee Suthasub)
(๖-003-ก-2205)
20/04/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6503564

Report No : 6504-1115

Customer : Thai Laemchabang Terminal Co.,Ltd.

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

Sampling Source : ท่าเรือ A2

Sample No : W 65032200

Sample Name : น้ำก่อนเข้าระบบบำบัด (ตึก Admin)

Sampling Date : 24/03/2022

Sampling By : ETC

Sampling Time : 9:45 AM

Sampling Method : Grab

Received Date : 25/03/2022

Tested Date : 25/03/2022 - 02/04/2022

Reported Date : 20/04/2022

| Parameter | Unit | Method | Result |
|--------------|-----------------------|--|---------------|
| Conductivity | 10 ⁻⁶ S/cm | Laboratory Method (SM:2510B) | 647 |
| Flow Rate | m ³ /day | Calculation Method | not available |
| Phosphorus | mg/l as P | Ascorbic Acid Method (SM:4500 -P B) | 3.06 |

Physical Apperance : 1. Sample : yellow, lightly SS

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

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

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

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



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Examined By : 

(Miss Apiradee Chuen-arom)

20/04/2022

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

Test Report

Customer : Thai Laemchabang Terminal Co.,Ltd. **

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

Sampling Source : ท่าเรือ A2 **

Sample Name : น้ำก่อนเข้าระบบบำบัด (ตึก Admin) **

Sampling By : ETC **

Sampling Method : Grab **

Tested Date : 18/06/2022 - 28/06/2022

Request No : W6506489

Report No : 6507-0030

Sample No : W 65061736

Sampling Date : 17/06/2022 **

Sampling Time : 8:50 AM **

Received Date : 18/06/2022

Reported Date : 04/07/2022

| Parameter | Unit | Method | Result |
|-----------------------------|----------------------------|--|--------|
| Biochemical Oxygen Demand # | mg/l | 5-Day BOD Test, Membrane Electrode Method (SM:5210B) | 44.4 |
| Chemical Oxygen Demand # | mg/l | Closed Reflux, Titrimetric Method (SM:5220C) | 95 |
| Oil and Grease @ | mg/l | Partition-Gravimetric Method (SM:5520B) | < 3.0 |
| pH (on site) * | | Electrometric Method | 7.5 |
| Temperature * | °C | Laboratory and Field Method | 29 |
| Total Dissolved Solids # | mg/l | Dried at 180 C (SM:2540C) | 332 |
| Total Kjeldahl Nitrogen * | mg/l as NH ₃ -N | Macro Kjeldahl Method (SM:4500 -Norg B) | 43 |
| Total Suspended Solids # | mg/l | Dried at 103-105 C (SM:2540D) | 17 |

Physical Appearance : 1. Sample : yellow, 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 TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = 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. Parkpoom Buasawad (1-003-ก-7280) *

4. ** = These data are non laboratory data.

Examined By :

(Miss Apiradee Chuen-arom)

(1-003-ก-4377)

04/07/2022



Approved By :

(Mr. Kawee Suthasub)

(1-003-ก-2205)

04/07/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Test Report

Request No : W6506489

Report No : 6507- 0030

Customer : Thai Laemchabang Terminal Co.,Ltd.

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

Sampling Source : ท่าเรือ A2

Sample No : W 65061736

Sample Name : น้ำก่อนเข้าระบบบำบัด (ดึก Admin)

Sampling Date : 17/06/2022

Sampling By : ETC

Sampling Time : 8:50 AM

Sampling Method : Grab

Received Date : 18/06/2022

Tested Date : 18/06/2022 - 28/06/2022

Reported Date : 04/07/2022

| Parameter | Unit | Method | Result |
|--------------|-----------------------|--|---------------|
| Conductivity | 10 ⁻⁶ S/cm | Laboratory Method (SM:2510B) | 808 |
| Flow Rate | m ³ /day | Calculation Method | not available |
| Phosphorus | mg/l as P | Ascorbic Acid Method (SM:4500 -P B) | 4.08 |

Physical Apperance : 1. Sample : yellow , lightly SS

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

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

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

3. Sampling By Mr. Parkpoom Buasawad (1-003-ก-7280)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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 WITHOUT THE WRITTEN APPROVAL LABORATORY
Examined By : 

(Miss Apiradee Chuen-arom)

04/07/2022

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Request No. W6504535

Report No. 6505-1857

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 : 28/04/2022 ~ 24/05/2022
Sample No. : W65042033
Sampling Date : 27/04/2022
Sampling Time : 9:45 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| 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 | 26 | ≤ 1000 |
| Conductivity | 10 ⁻⁶ S/cm | Laboratory | 47,160 | - |
| Dissolved Oxygen | mg/l | Membrane Electrode | 4.1 | ≥ 4 |
| Oil and Grease | - | Observations | nonvisible | none |
| pH (on site) | | Electrometric | 8.2 | 7.0-8.5 |
| Salinity | ppt | Electrical Conductivity | 30.63 | ▽ |
| Suspended Solid | mg/l | Dried at 103-105 degree celsius | < 5 | △△ |
| Temperature | °C | Laboratory and Field | 32 | △ |
| Transparency | m | Secchi Disc | 1.4 | ▽▽ |

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. 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. Supharerk Phatklang (1-003-จ-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1858

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W65042034
Sample Name : สถานีที่ 2 Sampling Date : 27/04/2022
Sampling By : ETC Sampling Time : 9:35 AM
Sampling Method : Grab Received Date : 28/04/2022
Tested Date : 28/04/2022 – 24/05/2022 Reported Date : 26/05/2022

| 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 | 11 | ≤ 1000 |
| Conductivity | 10 ⁻⁶ S/cm | Laboratory | 46,450 | - |
| Dissolved Oxygen | mg/l | Membrane Electrode | 5.3 | ≥ 4 |
| Oil and Grease | - | Observations | nonvisible | none |
| pH (on site) | | Electrometric | 8.2 | 7.0-8.5 |
| Salinity | ppt | Electrical Conductivity | 30.70 | ▽ |
| Suspended Solid | mg/l | Dried at 103-105 degree celsius | 5 | △△ |
| Temperature | °C | Laboratory and Field | 32 | △ |
| Transparency | m | Secchi Disc | 1.3 | ▽▽ |

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. 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. Supharerk Phatklang (๓-003-๖-5637)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1859

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W65042035
Sample Name : สถานีที่ 3 Sampling Date : 27/04/2022
Sampling By : ETC Sampling Time : 9:55 AM
Sampling Method : Grab Received Date : 28/04/2022
Tested Date : 28/04/2022 – 24/05/2022 Reported Date : 26/05/2022

| 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 | 11 | ≤ 1000 |
| Conductivity | 10 ⁻⁶ S/cm | Laboratory | 47,060 | - |
| Dissolved Oxygen | mg/l | Membrane Electrode | 5.1 | ≥ 4 |
| Oil and Grease | - | Observations | nonvisible | none |
| pH (on site) | | Electrometric | 8.3 | 7.0-8.5 |
| Salinity | ppt | Electrical Conductivity | 30.29 | ▽ |
| Suspended Solid | mg/l | Dried at 103-105 degree celsius | < 5 | △△ |
| Temperature | °C | Laboratory and Field | 32 | △ |
| Transparency | m | Secchi Disc | 1.3 | ▽▽ |

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. 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. Supharerk Phatklang (๖-003-๖-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1860

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W65042036
Sample Name : สถานีที่ 4 Sampling Date : 27/04/2022
Sampling By : ETC Sampling Time : 9:15 AM
Sampling Method : Grab Received Date : 28/04/2022
Tested Date : 28/04/2022 – 24/05/2022 Reported Date : 26/05/2022

| 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 | 1.8 | ≤ 1000 |
| Conductivity | 10 ⁻⁶ S/cm | Laboratory | 47,160 | - |
| Dissolved Oxygen | mg/l | Membrane Electrode | 4.9 | ≥ 4 |
| Oil and Grease | - | Observations | nonvisible | none |
| pH (on site) | | Electrometric | 8.2 | 7.0-8.5 |
| Salinity | ppt | Electrical Conductivity | 30.59 | ▽ |
| Suspended Solid | mg/l | Dried at 103-105 degree celsius | 5 | △△ |
| Temperature | °C | Laboratory and Field | 30 | △ |
| Transparency | m | Secchi Disc | 1.8 | ▽▽ |

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. 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. Supharek Phatklang (1-003-จ-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1857

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 : 28/04/2022 – 24/05/2022
Sample No. : W65042033
Sampling Date : 27/04/2022
Sampling Time : 9:45 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|--------|------------------|---------|-----------------------|
| Phytoplankton | | | | |
| Division Cyanophyta | | | | |
| <i>Calothrix</i> sp. | cell/l | Counting Chamber | 13 | - |
| <i>Lyngbya</i> sp. | cell/l | Counting Chamber | 16 | - |
| <i>Oscillatoria</i> sp. | cell/l | Counting Chamber | 525 | - |
| <i>Pseudanabaena</i> sp. | cell/l | Counting Chamber | 69 | - |
| <i>Richelia</i> sp. | cell/l | Counting Chamber | 7 | - |
| Division Chromophyta | | | | |
| <i>Actinopterychus</i> sp. | cell/l | Counting Chamber | 10 | - |
| <i>Amphora</i> sp. | cell/l | Counting Chamber | 118 | - |
| <i>Asterolampra</i> sp. | cell/l | Counting Chamber | 26 | - |
| <i>Asteromphalus</i> sp. | cell/l | Counting Chamber | 49 | - |
| <i>Bacillaria</i> sp. | cell/l | Counting Chamber | 230 | - |
| <i>Bacteriastrium</i> sp. | cell/l | Counting Chamber | 361 | - |
| <i>Bellerochea</i> sp. | cell/l | Counting Chamber | 25,125 | - |
| <i>Biddulphia</i> sp. | cell/l | Counting Chamber | 3 | - |
| <i>Cerataulina</i> sp. | cell/l | Counting Chamber | 164 | - |
| <i>Ceratium</i> sp. | cell/l | Counting Chamber | 492 | - |
| <i>Chaetoceros</i> sp. | cell/l | Counting Chamber | 142,132 | - |
| <i>Climacodium</i> sp. | cell/l | Counting Chamber | 10 | - |
| <i>Corethron</i> sp. | cell/l | Counting Chamber | 1,722 | - |
| <i>Coscinodiscus</i> sp. | cell/l | Counting Chamber | 66 | - |

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. Supharnk Phatklang (3 003 0 5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

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Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1857

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 : 28/04/2022 – 24/05/2022

Sample No. : W65042033
Sampling Date : 27/04/2022
Sampling Time : 9:45 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|--------|------------------|--------|-----------------------|
| Phytoplankton | | | | |
| Division Chromophyta | | | | |
| <i>Cyclotella</i> sp. | cell/l | Counting Chamber | 131 | - |
| <i>Cylindrotheca</i> sp. | cell/l | Counting Chamber | 197 | - |
| <i>Dactyliosolen</i> sp. | cell/l | Counting Chamber | 328 | - |
| <i>Dinophysis</i> sp. | cell/l | Counting Chamber | 13 | - |
| <i>Diploneis</i> sp. | cell/l | Counting Chamber | 30 | - |
| <i>Ditylum</i> sp. | cell/l | Counting Chamber | 853 | - |
| <i>Eucampia</i> sp. | cell/l | Counting Chamber | 59 | - |
| <i>Gonyaulax</i> sp. | cell/l | Counting Chamber | 92 | - |
| <i>Guinardia</i> sp. | cell/l | Counting Chamber | 2,165 | - |
| <i>Gymnodinium</i> sp. | cell/l | Counting Chamber | 7 | - |
| <i>Haslea</i> sp. | cell/l | Counting Chamber | 20 | - |
| <i>Helicotheca</i> sp. | cell/l | Counting Chamber | 223 | - |
| <i>Hemiaulus</i> sp. | cell/l | Counting Chamber | 459 | - |
| <i>Lauderia</i> sp. | cell/l | Counting Chamber | 98 | - |
| <i>Navicula</i> sp. | cell/l | Counting Chamber | 33 | - |
| <i>Odontella</i> sp. | cell/l | Counting Chamber | 503 | - |
| <i>Palmeria</i> sp. | cell/l | Counting Chamber | 7 | - |
| <i>Paralia</i> sp. | cell/l | Counting Chamber | 13 | - |
| <i>Pleurosigma</i> sp. | cell/l | Counting Chamber | 918 | - |
| <i>Proboscia</i> sp. | cell/l | Counting Chamber | 558 | - |
| <i>Prorocentrum</i> sp. | cell/l | Counting Chamber | 443 | - |

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. Suphaterk Phatklang (2-002-8-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

26/05/2022

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COPY

Request No. W6504535

Report No. 6505-1857

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 : 28/04/2022 – 24/05/2022
Sample No. : W65042033
Sampling Date : 27/04/2022
Sampling Time : 9:45 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|--------|------------------|--------|-----------------------|
| Phytoplankton | | | | |
| Division Chromophyta | | | | |
| <i>Protoperdinium</i> sp. | cell/l | Counting Chamber | 426 | - |
| <i>Pseudo-nitzschia</i> sp. | cell/l | Counting Chamber | 11,378 | - |
| <i>Pseudosolenia</i> sp. | cell/l | Counting Chamber | 262 | - |
| <i>Rhizosolenia</i> sp. | cell/l | Counting Chamber | 148 | - |
| <i>Surirella</i> sp. | cell/l | Counting Chamber | 213 | - |
| <i>Thalassionema</i> sp. | cell/l | Counting Chamber | 1,115 | - |
| <i>Thalassiosira</i> sp. | cell/l | Counting Chamber | 157 | - |

| | | | |
|----------------------------|---------------|----------------|----------|
| Total Genus | cell/l | 47 | - |
| Total Phytoplankton | cell/l | 191,987 | - |
| Diversity Index | cell/l | 1.05 | - |

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. Supharerk Phatklong (003-0-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1857

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.

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

Sampling Source : ท่าเรือ A2

Sample No. : W65042033

Sample Name : สถานีที่ 1

Sampling Date : 27/04/2022

Sampling By : ETC

Sampling Time : 9:45 AM

Sampling Method : Grab

Received Date : 28/04/2022

Tested Date : 28/04/2022 – 24/05/2022

Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|---------------------------|---------------|------------------|-------------|-----------------------|
| Zooplankton | | | | |
| Phylum Protozoa | | | | |
| <i>Leptotintinnus</i> sp. | ind./l | Counting Chamber | 7 | - |
| <i>Tintinnopsis</i> sp. | ind./l | Counting Chamber | 16 | - |
| <i>Vorticella</i> sp. | ind./l | Counting Chamber | 36 | - |
| Phylum Annelida | | | | |
| Polychaete laeae | ind./l | Counting Chamber | 16 | - |
| Phylum Arthropoda | | | | |
| Cirripede nauplius | ind./l | Counting Chamber | 3 | - |
| Copepod nauplius | ind./l | Counting Chamber | 276 | - |
| Cyclopoid copepod | ind./l | Counting Chamber | 30 | - |
| Harpacticoid copepod | ind./l | Counting Chamber | 7 | - |
| Phylum Mollusca | | | | |
| Pelecypod larvae | ind./l | Counting Chamber | 10 | - |
| Phylum Chordata | | | | |
| <i>Oikopleura</i> sp. | ind./l | Counting Chamber | 20 | - |
| Total Genus | ind./l | | 10 | - |
| Total Zooplankton | ind./l | | 421 | - |
| Diversity Index | ind./l | | 1.33 | - |

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. Supharek Phatklang (๖-003-๖-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

COPY

Request No. W6504535

Report No. 6505-1857

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W65042033
Sample Name : สถานีที่ 1 Sampling Date : 27/04/2022
Sampling By : ETC Sampling Time : 9:45 AM
Sampling Method : Grab Received Date : 28/04/2022
Tested Date : 28/04/2022 – 24/05/2022 Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-------------------------------|---------------------|------------------|--------|-----------------------|
| Benthos | | | | |
| Phylum Annelida | | | | |
| <i>Nereis sp.</i> (แม่เพรียง) | ind./m ² | Counting Chamber | 45 | - |

| | | | |
|------------------------|---------------------|-------------|---|
| Total Genus | ind./m ² | 1 | - |
| Total Benthos | ind./m ² | 45 | - |
| Diversity Index | ind./m ² | 0.00 | - |

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. Supharek Phatklang (ว-003-จ-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Examined By



(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1858

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsohkhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W65042034
Sample Name : สถานีที่ 2 Sampling Date : 27/04/2022
Sampling By : ETC Sampling Time : 9:35 AM
Sampling Method : Grab Received Date : 28/04/2022
Tested Date : 28/04/2022 – 24/05/2022 Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|--------|------------------|---------|-----------------------|
| Phytoplankton | | | | |
| Division Cyanophyta | | | | |
| <i>Oscillatoria</i> sp. | cell/l | Counting Chamber | 802 | - |
| <i>Pseudanabaena</i> sp. | cell/l | Counting Chamber | 84 | - |
| Division Chromophyta | | | | |
| <i>Amphora</i> sp. | cell/l | Counting Chamber | 169 | - |
| <i>Asteromphalus</i> sp. | cell/l | Counting Chamber | 17 | - |
| <i>Bacillaria</i> sp. | cell/l | Counting Chamber | 89 | - |
| <i>Bacteriastrium</i> sp. | cell/l | Counting Chamber | 1,013 | - |
| <i>Bellerocoea</i> sp. | cell/l | Counting Chamber | 5,359 | - |
| <i>Cerataulina</i> sp. | cell/l | Counting Chamber | 203 | - |
| <i>Ceratium</i> sp. | cell/l | Counting Chamber | 549 | - |
| <i>Chaetoceros</i> sp. | cell/l | Counting Chamber | 136,095 | - |
| <i>Climacodium</i> sp. | cell/l | Counting Chamber | 2 | - |
| <i>Corethron</i> sp. | cell/l | Counting Chamber | 447 | - |
| <i>Coscinodiscus</i> sp. | cell/l | Counting Chamber | 1,182 | - |
| <i>Cylindrotheca</i> sp. | cell/l | Counting Chamber | 51 | - |
| <i>Dactyliosolen</i> sp. | cell/l | Counting Chamber | 63 | - |
| <i>Ditylum</i> sp. | cell/l | Counting Chamber | 675 | - |

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. Supharerk Phatklang (๖-003-๖-5637)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By 

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1858

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W65042034
Sample Name : สถานีที่ 2 Sampling Date : 27/04/2022
Sampling By : ETC Sampling Time : 9:35 AM
Sampling Method : Grab Received Date : 28/04/2022
Tested Date : 28/04/2022 – 24/05/2022 Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|--------|------------------|--------|-----------------------|
| Phytoplankton | | | | |
| Division Chromophyta | | | | |
| <i>Entomoneis</i> sp. | cell/l | Counting Chamber | 17 | - |
| <i>Gonyaulax</i> sp. | cell/l | Counting Chamber | 76 | - |
| <i>Guinardia</i> sp. | cell/l | Counting Chamber | 3,165 | - |
| <i>Gymnodinium</i> sp. | cell/l | Counting Chamber | 2 | - |
| <i>Helicotheca</i> sp. | cell/l | Counting Chamber | 260 | - |
| <i>Hemiaulus</i> sp. | cell/l | Counting Chamber | 232 | - |
| <i>Lauderia</i> sp. | cell/l | Counting Chamber | 95 | - |
| <i>Navicula</i> sp. | cell/l | Counting Chamber | 13 | - |
| <i>Nitzschia</i> sp. | cell/l | Counting Chamber | 11 | - |
| <i>Odontella</i> sp. | cell/l | Counting Chamber | 464 | - |
| <i>Palmeria</i> sp. | cell/l | Counting Chamber | 34 | - |
| <i>Paralia</i> sp. | cell/l | Counting Chamber | 59 | - |
| <i>Pleurosigma</i> sp. | cell/l | Counting Chamber | 1,519 | - |
| <i>Proboscia</i> sp. | cell/l | Counting Chamber | 686 | - |
| <i>Prorocentrum</i> sp. | cell/l | Counting Chamber | 211 | - |

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. /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. Supharerk Phatklang (๖-003-๖-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Examined By



(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1858

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 : 28/04/2022 – 24/05/2022
Sample No. : W65042034
Sampling Date : 27/04/2022
Sampling Time : 9:35 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|--------|------------------|--------|-----------------------|
| Phytoplankton | | | | |
| Division Chromophyta | | | | |
| <i>Protoperdinium</i> sp. | cell/l | Counting Chamber | 338 | - |
| <i>Pseudo-nitzschia</i> sp. | cell/l | Counting Chamber | 422 | - |
| <i>Pseudosolenia</i> sp. | cell/l | Counting Chamber | 106 | - |
| <i>Pyrophacus</i> sp. | cell/l | Counting Chamber | 2 | - |
| <i>Surirella</i> sp. | cell/l | Counting Chamber | 203 | - |
| <i>Thalassionema</i> sp. | cell/l | Counting Chamber | 682 | - |
| <i>Thalassiosira</i> sp. | cell/l | Counting Chamber | 190 | - |
| <i>Trachyneis</i> sp. | cell/l | Counting Chamber | 2 | - |
| <i>Triceratium</i> sp. | cell/l | Counting Chamber | 2 | - |

| | | | |
|----------------------------|---------------|----------------|----------|
| Total Genus | cell/l | 40 | - |
| Total Phytoplankton | cell/l | 155,591 | - |
| Diversity Index | cell/l | 0.71 | - |

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. Supharerk Phatklang (3-003-9-5637)



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Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

COPY

Request No. W6504535

Report No. 6505-1858

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W65042034
Sample Name : สถานีที่ 2 Sampling Date : 27/04/2022
Sampling By : ETC Sampling Time : 9:35 AM
Sampling Method : Grab Received Date : 28/04/2022
Tested Date : 28/04/2022 – 24/05/2022 Reported Date : 26/05/2022

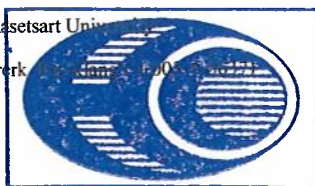
| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|---------------|------------------|-------------|-----------------------|
| Zooplankton | | | | |
| Phylum Protozoa | | | | |
| <i>Codonellopsis</i> sp. | ind./l | Counting Chamber | 6 | - |
| <i>Favella</i> sp. | ind./l | Counting Chamber | 6 | - |
| <i>Leprotintinus</i> sp. | ind./l | Counting Chamber | 2 | - |
| <i>Tintinnopsis</i> sp. | ind./l | Counting Chamber | 30 | - |
| <i>Vorticella</i> sp. | ind./l | Counting Chamber | 32 | - |
| Phylum Annelida | | | | |
| Polychaete laevae | ind./l | Counting Chamber | 11 | - |
| Phylum Arthropoda | | | | |
| Calanoid copepod | ind./l | Counting Chamber | 4 | - |
| Cirripede nauplius | ind./l | Counting Chamber | 2 | - |
| Copepod nauplius | ind./l | Counting Chamber | 181 | - |
| Cyclopoid copepod | ind./l | Counting Chamber | 8 | - |
| Harpacticoid copepod | ind./l | Counting Chamber | 4 | - |
| <i>Microsetella</i> sp. | ind./l | Counting Chamber | 2 | - |
| Phylum Mollusca | | | | |
| Pelecypod larvae | ind./l | Counting Chamber | 8 | - |
| Phylum Echinodermata | | | | |
| Echinopluteus larvae | ind./l | Counting Chamber | 2 | - |
| Phylum Chordata | | | | |
| <i>Oikopleura</i> sp. | ind./l | Counting Chamber | 19 | - |
| Total Genus | ind./l | | 15 | - |
| Total Zooplankton | ind./l | | 317 | - |
| Diversity Index | ind./l | | 1.63 | - |

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. Supharnk



Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1858

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W65042034
Sample Name : สถานีที่ 2 Sampling Date : 27/04/2022
Sampling By : ETC Sampling Time : 9:35 AM
Sampling Method : Grab Received Date : 28/04/2022
Tested Date : 28/04/2022 – 24/05/2022 Reported Date : 26/05/2022

| 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. Supharerk Phatklang (ว-003-๖-5637)
4. ND = Not Detected



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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Request No. W6504535

Report No. 6505-1859

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 : 28/04/2022 – 24/05/2022
Sample No. : W65042035
Sampling Date : 27/04/2022
Sampling Time : 9:55 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|--------|------------------|---------|-----------------------|
| Phytoplankton | | | | |
| Division Cyanophyta | | | | |
| <i>Oscillatoria</i> sp. | cell/l | Counting Chamber | 899 | - |
| <i>Pseudanabaena</i> sp. | cell/l | Counting Chamber | 58 | - |
| Division Chromophyta | | | | |
| <i>Amphora</i> sp. | cell/l | Counting Chamber | 172 | - |
| <i>Bacillaria</i> sp. | cell/l | Counting Chamber | 412 | - |
| <i>Bacteriastrium</i> sp. | cell/l | Counting Chamber | 309 | - |
| <i>Bellerochea</i> sp. | cell/l | Counting Chamber | 7,134 | - |
| <i>Cerataulina</i> sp. | cell/l | Counting Chamber | 237 | - |
| <i>Ceratium</i> sp. | cell/l | Counting Chamber | 319 | - |
| <i>Chaetoceros</i> sp. | cell/l | Counting Chamber | 149,778 | - |
| <i>Corethron</i> sp. | cell/l | Counting Chamber | 274 | - |
| <i>Coscinodiscus</i> sp. | cell/l | Counting Chamber | 233 | - |
| <i>Cyclotella</i> sp. | cell/l | Counting Chamber | 75 | - |
| <i>Cylindrotheca</i> sp. | cell/l | Counting Chamber | 172 | - |
| <i>Dactyliosolen</i> sp. | cell/l | Counting Chamber | 960 | - |
| <i>Dinophysis</i> sp. | cell/l | Counting Chamber | 7 | - |
| <i>Diploneis</i> sp. | cell/l | Counting Chamber | 27 | - |
| <i>Ditylum</i> sp. | cell/l | Counting Chamber | 515 | - |
| <i>Gonyaulax</i> sp. | cell/l | Counting Chamber | 3 | - |
| <i>Guinardia</i> sp. | cell/l | Counting Chamber | 1,852 | - |
| <i>Gyrodinium</i> sp. | cell/l | Counting Chamber | 7 | - |
| <i>Helicotheca</i> sp. | cell/l | Counting Chamber | 89 | - |
| <i>Hemiaulus</i> sp. | cell/l | Counting Chamber | 137 | - |
| <i>Karenia</i> sp. | cell/l | Counting Chamber | 34 | - |

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. Suphachai



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

Examined By 
(Miss Apiradee Chuen-arom)

26/05/2022

COPY

Request No. W6504535

Report No. 6505-1859

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 : 28/04/2022 – 24/05/2022
Sample No. : W65042035
Sampling Date : 27/04/2022
Sampling Time : 9:55 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|---------------|------------------|----------------|-----------------------|
| Phytoplankton | | | | |
| Division Chromophyta | | | | |
| <i>Lauderia</i> sp. | cell/l | Counting Chamber | 103 | - |
| <i>Meunier</i> sp. | cell/l | Counting Chamber | 86 | - |
| <i>Navicula</i> sp. | cell/l | Counting Chamber | 31 | - |
| <i>Nitzschia</i> sp. | cell/l | Counting Chamber | 99 | - |
| <i>Odontella</i> sp. | cell/l | Counting Chamber | 669 | - |
| <i>Palmeria</i> sp. | cell/l | Counting Chamber | 51 | - |
| <i>Paralia</i> sp. | cell/l | Counting Chamber | 10 | - |
| <i>Pleurosigma</i> sp. | cell/l | Counting Chamber | 3,910 | - |
| <i>Proboscia</i> sp. | cell/l | Counting Chamber | 686 | - |
| <i>Prorocentrum</i> sp. | cell/l | Counting Chamber | 206 | - |
| <i>Protoperdinium</i> sp. | cell/l | Counting Chamber | 329 | - |
| <i>Pseudo-nitzschia</i> sp. | cell/l | Counting Chamber | 1,509 | - |
| <i>Pseudosolenia</i> sp. | cell/l | Counting Chamber | 962 | - |
| <i>Pyrophacus</i> sp. | cell/l | Counting Chamber | 14 | - |
| <i>Rhizosolenia</i> sp. | cell/l | Counting Chamber | 1,578 | - |
| <i>Surirella</i> sp. | cell/l | Counting Chamber | 223 | - |
| <i>Thalassionema</i> sp. | cell/l | Counting Chamber | 617 | - |
| <i>Thalassiosira</i> sp. | cell/l | Counting Chamber | 240 | - |
| Total Genus | cell/l | | 41 | - |
| Total Phytoplankton | cell/l | | 175,026 | - |
| Diversity Index | cell/l | | 0.80 | - |

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. Suphaterk P. (Signature)



Examined By
(Miss Apiradee Chuen-arom)

26/05/2022

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ACCREDITED LABORATORY
ISO/IEC 17025

Request No. W6504535

Report No. 6505-1859

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 : 28/04/2022 – 24/05/2022

Sample No. : W65042035
Sampling Date : 27/04/2022
Sampling Time : 9:55 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|--------------------------|---------------|------------------|-------------|-----------------------|
| Zooplankton | | | | |
| Phylum Protozoa | | | | |
| <i>Favella</i> sp. | ind./l | Counting Chamber | 7 | - |
| <i>Metacilis</i> sp. | ind./l | Counting Chamber | 3 | - |
| <i>Tintinnopsis</i> sp. | ind./l | Counting Chamber | 34 | - |
| <i>Vorticella</i> sp. | ind./l | Counting Chamber | 79 | - |
| Phylum Annelida | | | | |
| Polychaete laevae | ind./l | Counting Chamber | 10 | - |
| Phylum Arthropoda | | | | |
| Calanoid copepod | ind./l | Counting Chamber | 17 | - |
| Copepod nauplius | ind./l | Counting Chamber | 216 | - |
| Cyclopoid copepod | ind./l | Counting Chamber | 7 | - |
| <i>Diaphanosoma</i> sp. | ind./l | Counting Chamber | 3 | - |
| Harpacticoid copepod | ind./l | Counting Chamber | 3 | - |
| <i>Lucifer</i> sp. | ind./l | Counting Chamber | 3 | - |
| Phylum Mollusca | | | | |
| Pelecypod larvae | ind./l | Counting Chamber | 7 | - |
| Phylum Chordata | | | | |
| <i>Oikopleura</i> sp. | ind./l | Counting Chamber | 38 | - |
| Total Genus | ind./l | | 13 | - |
| Total Zooplankton | ind./l | | 427 | - |
| Diversity Index | ind./l | | 1.63 | - |

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. Supharerk Phai



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By 

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1859

TEST REPORT

Customer : Thai Laemchabang Terminal Co.,Ltd.
Address : 88 Moo.3 , Tungsukhla , Sriracha , Chonburi 20230
Sampling Source : ท่าเรือ A2 Sample No. : W65042035
Sample Name : สถานีที่ 3 Sampling Date : 27/04/2022
Sampling By : ETC Sampling Time : 9:55 AM
Sampling Method : Grab Received Date : 28/04/2022
Tested Date : 28/04/2022 – 24/05/2022 Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-------------------------------------|---------------------|------------------|--------|-----------------------|
| Benthos | | | | |
| Phylum Annelida | | | | |
| <i>Euclymene</i> sp. (ไส้เดือนทะเล) | ind./m ² | Counting Chamber | 45 | - |
| Phylum Mollusca | | | | |
| <i>Umbonium</i> sp. (หอยทับทิม) | ind./m ² | Counting Chamber | 45 | - |

| | | | |
|------------------------|---------------------|-------------|---|
| Total Genus | ind./m ² | 2 | - |
| Total Benthos | ind./m ² | 90 | - |
| Diversity Index | ind./m ² | 0.69 | - |

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. Supharerk Phatklang (ว-003-อ-5637)



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Examined By 

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1860

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 : 28/04/2022 – 24/05/2022
Sample No. : W65042036
Sampling Date : 27/04/2022
Sampling Time : 9:15 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|--------|------------------|---------|-----------------------|
| Phytoplankton | | | | |
| Division Cyanophyta | | | | |
| <i>Oscillatoria</i> sp. | cell/l | Counting Chamber | 422 | - |
| <i>Pseudanabaena</i> sp. | cell/l | Counting Chamber | 15 | - |
| Division Chlorophyta | | | | |
| <i>Euglena</i> sp. | cell/l | Counting Chamber | 3 | - |
| Division Chromophyta | | | | |
| <i>Actinocyclus</i> sp. | cell/l | Counting Chamber | 36 | - |
| <i>Amphora</i> sp. | cell/l | Counting Chamber | 389 | - |
| <i>Asteromphalus</i> sp. | cell/l | Counting Chamber | 39 | - |
| <i>Bacillaria</i> sp. | cell/l | Counting Chamber | 434 | - |
| <i>Bacteriastrium</i> sp. | cell/l | Counting Chamber | 897 | - |
| <i>Bellerochea</i> sp. | cell/l | Counting Chamber | 3,169 | - |
| <i>Cerataulina</i> sp. | cell/l | Counting Chamber | 120 | - |
| <i>Ceratium</i> sp. | cell/l | Counting Chamber | 299 | - |
| <i>Chaetoceros</i> sp. | cell/l | Counting Chamber | 158,470 | - |
| <i>Climacodium</i> sp. | cell/l | Counting Chamber | 9 | - |
| <i>Corethron</i> sp. | cell/l | Counting Chamber | 389 | - |
| <i>Coscinodiscus</i> sp. | cell/l | Counting Chamber | 227 | - |
| <i>Cyclotella</i> sp. | cell/l | Counting Chamber | 81 | - |
| <i>Cylindrotheca</i> sp. | cell/l | Counting Chamber | 419 | - |

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. Sapharerk Phattanasri (0-003-0-5637)



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1860

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 : 28/04/2022 – 24/05/2022
Sample No. : W65042036
Sampling Date : 27/04/2022
Sampling Time : 9:15 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|--------|------------------|--------|-----------------------|
| Phytoplankton | | | | |
| Division Chromophyta | | | | |
| <i>Dactyliosolen</i> sp. | cell/l | Counting Chamber | 718 | - |
| <i>Dinophysis</i> sp. | cell/l | Counting Chamber | 15 | - |
| <i>Ditylum</i> sp. | cell/l | Counting Chamber | 658 | - |
| <i>Entomoneis</i> sp. | cell/l | Counting Chamber | 42 | - |
| <i>Gonyaulax</i> sp. | cell/l | Counting Chamber | 75 | - |
| <i>Guinardia</i> sp. | cell/l | Counting Chamber | 2,631 | - |
| <i>Gyrodinium</i> sp. | cell/l | Counting Chamber | 3 | - |
| <i>Helicotheca</i> sp. | cell/l | Counting Chamber | 48 | - |
| <i>Hemiaulus</i> sp. | cell/l | Counting Chamber | 837 | - |
| <i>Lauderia</i> sp. | cell/l | Counting Chamber | 150 | - |
| <i>Meunier</i> sp. | cell/l | Counting Chamber | 69 | - |
| <i>Navicula</i> sp. | cell/l | Counting Chamber | 54 | - |
| <i>Nitzschia</i> sp. | cell/l | Counting Chamber | 179 | - |
| <i>Odontella</i> sp. | cell/l | Counting Chamber | 239 | - |
| <i>Paralia</i> sp. | cell/l | Counting Chamber | 30 | - |
| <i>Pleurosigma</i> sp. | cell/l | Counting Chamber | 4,246 | - |
| <i>Proboscia</i> sp. | cell/l | Counting Chamber | 1,375 | - |
| <i>Prorocentrum</i> sp. | cell/l | Counting Chamber | 329 | - |

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. Suphark Ph...



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Examined By 

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1860

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 : 28/04/2022 – 24/05/2022
Sample No. : W65042036
Sampling Date : 27/04/2022
Sampling Time : 9:15 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|-----------------------------|--------|------------------|--------|-----------------------|
| Phytoplankton | | | | |
| Division Chromophyta | | | | |
| <i>Protoperdinium</i> sp. | cell/l | Counting Chamber | 99 | - |
| <i>Pseudo-nitzschia</i> sp. | cell/l | Counting Chamber | 1,375 | - |
| <i>Pseudosolenia</i> sp. | cell/l | Counting Chamber | 419 | - |
| <i>Pyrophacus</i> sp. | cell/l | Counting Chamber | 18 | - |
| <i>Rhizosolenia</i> sp. | cell/l | Counting Chamber | 478 | - |
| <i>Surirella</i> sp. | cell/l | Counting Chamber | 404 | - |
| <i>Thalassionema</i> sp. | cell/l | Counting Chamber | 855 | - |
| <i>Thalassiosira</i> sp. | cell/l | Counting Chamber | 129 | - |
| <i>Trachyneis</i> sp. | cell/l | Counting Chamber | 21 | - |


| | | | |
|----------------------------|---------------|----------------|----------|
| Total Genus | cell/l | 44 | - |
| Total Phytoplankton | cell/l | 180,914 | - |
| Diversity Index | cell/l | 0.73 | - |

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. Supharerk Phatklang (๖-003-๖-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1860

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 : 28/04/2022 – 24/05/2022
Sample No. : W65042036
Sampling Date : 27/04/2022
Sampling Time : 9:15 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|---------------------------|---------------|------------------|-------------|-----------------------|
| Zooplankton | | | | |
| Phylum Protozoa | | | | |
| <i>Codonellopsis</i> sp. | ind./l | Counting Chamber | 15 | - |
| <i>Globorotalia</i> sp. | ind./l | Counting Chamber | 3 | - |
| <i>Leprotintinnus</i> sp. | ind./l | Counting Chamber | 3 | - |
| <i>Stenosemella</i> sp. | ind./l | Counting Chamber | 3 | - |
| <i>Tintinnopsis</i> sp. | ind./l | Counting Chamber | 63 | - |
| <i>Vorticella</i> sp. | ind./l | Counting Chamber | 66 | - |
| Phylum Rotifera | | | | |
| <i>Brachionus</i> sp. | ind./l | Counting Chamber | 3 | - |
| <i>Synchaeta</i> sp. | ind./l | Counting Chamber | 15 | - |
| <i>Trichocerca</i> sp. | ind./l | Counting Chamber | 3 | - |
| Phylum Annelida | | | | |
| Polychaete laevae | ind./l | Counting Chamber | 15 | - |
| Phylum Arthropoda | | | | |
| Calanoid copepod | ind./l | Counting Chamber | 15 | - |
| Cirripede nauplius | ind./l | Counting Chamber | 3 | - |
| Copepod nauplius | ind./l | Counting Chamber | 227 | - |
| Cyclopoid copepod | ind./l | Counting Chamber | 24 | - |
| <i>Matacypris</i> sp. | ind./l | Counting Chamber | 3 | - |
| Phylum Mollusca | | | | |
| Pelecypod larvae | ind./l | Counting Chamber | 6 | - |
| Phylum Chordata | | | | |
| <i>Oikopleura</i> sp. | ind./l | Counting Chamber | 12 | - |
| Total Genus | ind./l | | 17 | - |
| Total Zooplankton | ind./l | | 479 | - |
| Diversity Index | ind./l | | 1.85 | - |

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. Suphachai



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(Miss Apiradee Chuen-arom)

26/05/2022

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Request No. W6504535

Report No. 6505-1860

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 : 28/04/2022 – 24/05/2022
Sample No. : W65042036
Sampling Date : 27/04/2022
Sampling Time : 9:15 AM
Received Date : 28/04/2022
Reported Date : 26/05/2022

| Parameter # | Unit | Method | Result | Standard ¹ |
|--|---------------------|------------------|--------|-----------------------|
| Benthos | | | | |
| Phylum Annelida | | | | |
| <i>Magelona</i> sp. (ไส้เดือนทะเล) | ind./m ² | Counting Chamber | 45 | - |
| <i>Marphysa</i> sp. (ไส้เดือนทะเล) | ind./m ² | Counting Chamber | 45 | - |
| <i>Scoloplos</i> sp. (ไส้เดือนทะเล) | ind./m ² | Counting Chamber | 89 | - |
| Phylum Mollusca | | | | |
| <i>Corbula</i> sp. (หอยสองฝาชนิดหนึ่ง) | ind./m ² | Counting Chamber | 45 | - |

| | | | |
|------------------------|---------------------|------|---|
| Total Genus | ind./m ² | 4 | - |
| Total Benthos | ind./m ² | 224 | - |
| Diversity Index | ind./m ² | 1.33 | - |

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. Supharerk Phatklang (ว-003-จ-5637)



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

26/05/2022

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