

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EOEG Plant** Sample No. : W 66010085
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit** Sampling Date : 04/01/2023**
Sampling By : ETC** Sampling Time : 9:20 AM**
Sampling Method : Grab** Received Date : 05/01/2023
Tested Date : 05/01/2023 – 11/01/2023 Reported Date : 12/01/2023

Parameter	Unit	Method	Result
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	52
pH (on site) *		Electrometric Method	7.5
Temperature *	°C	Laboratory and Field Method	30
Total Suspended Solids #	mg/l	Dried at 103-105 °C (SM:2540 D)	5

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 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 Miss Janthanee Saiphan (จ-003-ค-7281)*

4. ** = These data are non laboratory data. / Sampling at UTM 47 P 730914 E 1404772 N

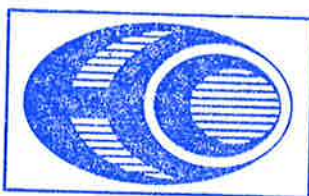
Examined By



(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

12 / 01 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mr. Kawee Suthasub)

(จ-003-ค-2205)

12 / 01 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No : W6601028

Report No : 6601-0732

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit
Sampling By : ETC
Sampling Method : Grab
Tested Date : 05/01/2023 – 11/01/2023
Sample No. : W 66010085
Sampling Date : 04/01/2023
Sampling Time : 9:20 AM
Received Date : 05/01/2023
Reported Date : 12/01/2023

Parameter	Unit	Method	Result
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	129
Formaldehyde	mg/l	Distillation, Colorimetric Method	0.01
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	0.5

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. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/l]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/l]
5. Sampling By Miss Janthanee Saiphan (๖-003-๓-7281)
6. Sampling at UTM 47 P 730914 E 1404772 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....
(Miss Apiradee Chuen-arom)

12 / 01 / 2023

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TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EOEG Plant**
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 12/01/2023 – 18/01/2023
Sample No. : W 66010935
Sampling Date : 11/01/2023**
Sampling Time : 9:15 AM**
Received Date : 12/01/2023
Reported Date : 20/01/2023

Parameter	Unit	Method	Result
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	66
pH (on site) *		Electrometric Method	7.2
Temperature *	°C	Laboratory and Field Method	28
Total Suspended Solids #	mg/l	Dried at 103-105 °C (SM:2540 D)	< 5

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 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 Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)*

4. ** = These data are non laboratory data. / Sampling at UTM 47 P 730914 E 1404772 N

Examined By

(Miss Apiradee Chuen-arom)

(จ-003-จ-4377)

20 / 01 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

(จ-003-จ-2205)

20 / 01 / 2023

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Request No : W6601223

Report No : 6601-1213

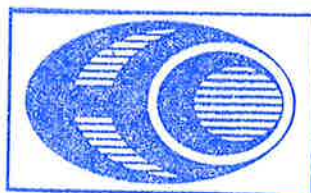
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit
Sampling By : ETC
Sampling Method : Grab
Tested Date : 12/01/2023 – 18/01/2023
Sample No. : W 66010935
Sampling Date : 11/01/2023
Sampling Time : 9:15 AM
Received Date : 12/01/2023
Reported Date : 20/01/2023

Parameter	Unit	Method	Result
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	129
Formaldehyde	mg/l	Distillation, Colorimetric Method	0.01
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	0.3

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. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/l]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/l]
5. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-๖-8334)
6. Sampling at UTM 47 P 730914 E 1404772 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....
(Miss Apiradee Chuen-arom)

20 / 01 / 2023


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TEST REPORT


Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EOEG Plant** Sample No. : W 66011428
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit** Sampling Date : 18/01/2023**
Sampling By : ETC** Sampling Time : 9:40 AM**
Sampling Method : Grab** Received Date : 19/01/2023
Tested Date : 19/01/2023 – 24/01/2023 Reported Date : 25/01/2023

Parameter	Unit	Method	Result
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	50
pH (on site) *		Electrometric Method	7.1
Temperature *	°C	Laboratory and Field Method	29
Total Suspended Solids #	mg/l	Dried at 103-105 °C (SM:2540 D)	< 5

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]
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2. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharker Phatklang (จ-003-ค-7280)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 730914 E 1404772 N

Examined By 
(Miss Apiradee Chuen-arom)
(จ-003-ค-4377)
25 / 01 / 2023



Approved By 
(Mr. Kawee Suthasub)
(จ-003-ค-2205)
25 / 01 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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Request No : W6601388

Report No : 6601-1663

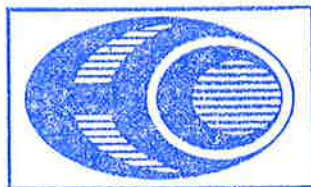
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit
Sampling By : ETC
Sampling Method : Grab
Tested Date : 19/01/2023 – 24/01/2023
Sample No. : W 66011428
Sampling Date : 18/01/2023
Sampling Time : 9:40 AM
Received Date : 19/01/2023
Reported Date : 25/01/2023

Parameter	Unit	Method	Result
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	116
Formaldehyde	mg/l	Distillation, Colorimetric Method	0.09
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	0.1

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 :
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2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/l]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/l]
5. Sampling By Mr. Supharerk Phatklang (๖-003-ก-7280)
6. Sampling at UTM 47 P 730914 E 1404772 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

25 / 01 / 2023

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TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EOEG Plant**
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 26/01/2023 – 31/01/2023
Sample No. : W 66011785
Sampling Date : 25/01/2023**
Sampling Time : 9:38 AM**
Received Date : 26/01/2023
Reported Date : 02/02/2023

Parameter	Unit	Method	Result
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	45
pH (on site) *		Electrometric Method	7.6
Temperature *	°C	Laboratory and Field Method	27
Total Suspended Solids #	mg/l	Dried at 103-105 °C (SM:2540 D)	8

Physical Apperance : 1. Sample : greenish, 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 DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
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3. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-จ-8334)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 730914 E 1404772 N

Examined By

(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

02/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

(จ-003-ค-2205)

02/02/2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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Request No : W6601509

Report No : 6602-0072

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66011785
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit Sampling Date : 25/01/2023
Sampling By : ETC Sampling Time : 9:38 AM
Sampling Method : Grab Received Date : 26/01/2023
Tested Date : 26/01/2023 – 31/01/2023 Reported Date : 02/02/2023

Parameter	Unit	Method	Result
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	98.1
Formaldehyde	mg/l	Distillation, Colorimetric Method	0.01
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	0.1

Physical Appearance : 1. Sample : greenish, 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. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/l]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/l]
5. Sampling By Miss Pornpinan Viriyakusolkul (๖-003-๖-8334)
6. Sampling at UTM 47 P 730914 E 1404772 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

02 / 02 / 2023

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TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EOEG Plant** Sample No. : W 66020186
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit** Sampling Date : 01/02/2023**
Sampling By : ETC** Sampling Time : 9:30 AM**
Sampling Method : Grab** Received Date : 02/02/2023
Tested Date : 02/02/2023 – 07/02/2023 Reported Date : 09/02/2023

Parameter	Unit	Method	Result
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	59
pH (on site) *		Electrometric Method	7.6
Temperature *	°C	Laboratory and Field Method	24
Total Suspended Solids #	mg/l	Dried at 103-105 °C (SM:2540 D)	9

Physical Apperance : 1. Sample : green, 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 DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
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3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ค-7280)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 730914 E 1404772 N


Examined By 
(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

09/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Mr. Kawee Suthasub)

(จ-003-ค-2205)

09/02/2023

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Request No : W6602045

Report No : 6602-0534

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit
Sampling By : ETC
Sampling Method : Grab
Tested Date : 02/02/2023 – 07/02/2023
Sample No. : W 66020186
Sampling Date : 01/02/2023
Sampling Time : 9:30 AM
Received Date : 02/02/2023
Reported Date : 09/02/2023

Parameter	Unit	Method	Result
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	95.6
Formaldehyde	mg/l	Distillation, Colorimetric Method	0.02
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	0.9

Physical Appearance :
1. Sample : green, 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. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/l]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/l]
5. Sampling By Mr. Parkpoom Buasawad (๖-003-ก-7280)
6. Sampling at UTM 47 P 730914 E 1404772 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

09 / 02 / 2023

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TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EOEG Plant** Sample No. : W 66021126
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit** Sampling Date : 08/02/2023**
Sampling By : ETC** Sampling Time : 10:00 AM**
Sampling Method : Grab** Received Date : 09/02/2023
Tested Date : 09/02/2023 – 15/02/2023 Reported Date : 16/02/2023

Parameter	Unit	Method	Result
Chemical Oxygen Demand #	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	44
pH (on site) *		Electrometric Method	7.0
Temperature *	°C	Laboratory and Field Method	29
Total Suspended Solids #	mg/l	Dried at 103-105 °C (SM:2540 D)	6

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 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 / Mrs. Wanpen Lhaochindawa is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (จ-003-ค-5637)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 730914 E 1404772 N

Examined By



(Miss Apiradee Chuen-arom)

(จ-003-ค-4377)

16/02/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Mrs. Wanpen Lhaochindawa)

(จ-003-ค-2183)

16/02/2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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Request No : W6602258

Report No : 6602-1091

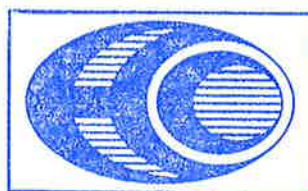
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Sampling Source : EOEG Plant
Sample Name : น้ำทิ้งของโครงการที่ระบายจาก Waste Water Holding Pit
Sampling By : ETC
Sampling Method : Grab
Tested Date : 09/02/2023 – 15/02/2023
Sample No. : W 66021126
Sampling Date : 08/02/2023
Sampling Time : 10:00 AM
Received Date : 09/02/2023
Reported Date : 16/02/2023

Parameter	Unit	Method	Result
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	56.3
Formaldehyde	mg/l	Distillation, Colorimetric Method	0.01
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	0.8

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/l]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/l]
5. Sampling By Mr. Supharerk Phatklang (ว-003-ก-5637)
6. Sampling at UTM 47 P 730914 E 1404772 N



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

16 / 02 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No : W6601183

Report No : 6601-1214

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

Sampling Source : EOEG Plant Sample No. : W 66010791
Sample Name : จุดปล่อยน้ำทิ้งลงท่อรวบรวมน้ำเสียของนิคม WHA Sampling Date : 10/01/2023
Sampling By : Customer Sampling Time : --
Sampling Method : Grab Received Date : 11/01/2023
Tested Date : 11/01/2023 – 18/01/2023 Reported Date : 20/01/2023

Parameter	Unit	Method	Result	Standard ¹⁾
Biochemical Oxygen Demand	mg/l	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	9.2	≤ 500
Chemical Oxygen Demand	mg/l	Closed Reflux, Titrimetric Method (SM:5220C)	60	≤ 750
Chloride	mg/l as Cl ₂	Argentometric Method (SM:4500-Cl- B)	128	-
Formaldehyde	mg/l	Distillation, Colorimetric Method	0.04	≤ 1
Oil and Grease	mg/l	Partition-Gravimetric Method (SM:5520B)	1.0	≤ 10
pH (on site)		Electrometric Method	7.3	5.5-9.0
Temperature	°C	Laboratory and Field Method	31	≤ 45
Total Dissolved Solids	mg/l	Dried at 180 °C (SM:2540C)	650	≤ 3,000
Total Suspended Solids	mg/l	Dried at 103-105 °C (SM:2540 D)	< 5	≤ 200

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 Industrial Estate Authority of Thailand 76 / 2560 (2017)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/l]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/l]
5. Sampling at UTM 47 P 0730729 E 1404613 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....



(Miss Apiradee Chuen-arom)

20 / 01 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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Request No. W6606014

Report No. 6606-1592

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060081
Sample Name : บ่อสังเกตการณ์ 1 (TOCGC MW01) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 9:10 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Arsenic	mg/L	Continuous Hydride Generation/AAS Method (SM:3114B)	< 0.0020	≤ 0.1
Beryllium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.01	≤ 0.01
Cadmium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.003	≤ 2.0
Chromium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤ 6.0
Hexavalent Chromium	mg/L as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤ 6.0
Lead	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.010	≤ 4.0
Manganese	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.28	≤ 33
Mercury	mg/L	Cold-Vapor Atomic Absorption Spectrometric Method (SM:3112B)	< 0.0010	≤ 0.7

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
4. Sampling At UTM 47 P 731078 E 1405208 N

Examined By 

(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

23 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-2205)

23 / 06 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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Request No. W6606014

Report No. 6606-1592

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060081
Sample Name : บ่อสังเคราะห์ 1 (TOCGC MW01) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 9:10 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Nickel	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤ 5.0
Selenium	mg/L	Digestion, Hydride Generation/AAS Method (SM:3030F, 3114B&C)	< 0.0020	≤ 12
Vanadium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	≤ 17

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
4. Sampling At UTM 47 P 731078 E 1405208 N

Examined By.....
(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

23 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(Miss Nunnaphat Bakhuntod)

(ว-003-ค-2205)

23 / 06 / 2023

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Request No. W6606014

Report No. 6606-1592

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150

Sampling Source : EOEG Plant Sample No. : W 66060081
Sample Name : บ่อสังเกตการณ์ 1 (TOCGC MW01) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 9:10 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Boron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.10	
Cobalt	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	
Copper	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	33.1	
Titanium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
4. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
5. Sampling At UTM 47 P 731078 E 1405208 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

23 / 06 / 2023

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Request No. W6606014

Report No. 6606-1592

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060081
Sample Name : บ่อสังเกตการณ์ 1 (TOCGC MW01) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 9:10 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Results	Standard ¹⁾
Volatile Organic Compounds				
- Benzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.2
- Carbon tetrachloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.4
- 1,2-Dichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.5
- 1,1-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.1
- cis-1,2-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 2.0
- trans-1,2-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 5.0
- Ethylbenzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 2.0
- Styrene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Tetrachloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.9
- Toluene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 5.0
- 1,2,4 - Trichlorobenzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- 1,1,1-Trichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.2

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (จ-003-ก-7280)
3. Sampling At UTM 47 P 731078 E 1405208 N

Examined By

(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

23/06/2023



บริษัท อีสเทิร์นไทยคอนซัลต์ติ้ง 1992 จำกัด

Approved By

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-2205)

23/06/2023

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Request No. W6606014

Report No. 6606-1592

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060081
Sample Name : บ่อสังเกตการณ์ 1 (TOCGC MW01) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 9:10 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Results	Standard ¹⁾
Volatile Organic Compounds				
- 1,1,2-Trichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.8
- Trichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 4.4
- Vinyl Chloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.03
- p,m-Xylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- o-Xylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Xylene Total	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Methylene chloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 6.0

Physical Appearance : 1. Sample : lightly SS

2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
3. Sampling At UTM 47 P 731078 E 1405208 N

Examined By 

(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

23/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-2205)

23/06/2023

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Request No. W6606014

Report No. 6606-1592

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant
Sample Name : บ่อสังเกตการณ์ 1 (TOCGC MW01) (น้ำใต้ดิน)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 01/06/2023 – 23/06/2023
Sample No. : W 66060081
Sampling Date : 31/05/2023
Sampling Time : 9:10 AM
Received Date : 01/06/2023
Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ¹
Total Petroleum Hydrocarbons ***				
- TPH (C _{>8} -C ₁₆)	mg/L	3510 C / 8015 D	ND	≤ 1.7
- n-Nonane				
- n-Decane				
- n-Dodecane				
- n-Tetradecane				
- n-Hexadecane				

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Mr. Parkpoom Buasawad (๖-003-๓-7280))
3. *** Tested by SECOT Co.,Ltd. (๖-239)
4. MDL = Method Detection Limit [MDL of TPH (C_{>8}-C₁₆) = < 0.025 mg/L]
5. ND = non-detectable / Sampling At UTM 47 P 731078 E 1405208 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

23 / 06 / 2023

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Request No. W6606014

Report No. 6606-1593

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060082
Sample Name : บ่อสังเคราะห์ 2 (TOCGC MW05) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 11:05 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Arsenic	mg/L	Continuous Hydride Generation/AAS Method (SM:3114B)	< 0.0020	≤ 0.1
Beryllium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.01	≤ 0.01
Cadmium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.003	≤ 2.0
Chromium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤ 6.0
Hexavalent Chromium	mg/L as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤ 6.0
Lead	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.010	≤ 4.0
Manganese	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.26	≤ 33
Mercury	mg/L	Cold-Vapor Atomic Absorption Spectrometric Method (SM:3112B)	< 0.0010	≤ 0.7

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], PE 2.0 L, G 2.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Sampling By Mr. Parkpoom Buasawad (ว-003-ก-7280)
4. Sampling At UTM 47 P 730370 E 1404509 N

Examined By

(Miss Apiradee Chuen-arom)

(ว-003-ก-4377)

23 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Nunnaphat Bakhuntod)

(ว-003-ก-2205)

23 / 06 / 2023

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Request No. W6606014

Report No. 6606-1593

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant
Sample Name : บ่อสังเคราะห์ 2 (TOCGC MW05) (น้ำใต้ดิน)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 01/06/2023 – 23/06/2023
Sample No. : W 66060082
Sampling Date : 31/05/2023
Sampling Time : 11:05 AM
Received Date : 01/06/2023
Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Nickel	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤ 5.0
Selenium	mg/L	Digestion, Hydride Generation/AAS Method (SM:3030F, 3114B&C)	< 0.0020	≤ 12
Vanadium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	≤ 17

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Sampling By Mr. Parkpoom Buasawad (ว-003-ก-7280)
4. Sampling At UTM 47 P 730370 E 1404509 N

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ก-4377)

23 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Miss Nunnaphat Bakhuntod)

(ว-003-ก-2205)

23 / 06 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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Request No. W6606014

Report No. 6606-1593

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060082
Sample Name : บ่อสังเคราะห์ 2 (TOCGC MW05) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 11:05 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Boron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.15	
Cobalt	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	
Copper	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	24.6	
Titanium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
4. Sampling By Mr. Parkpoom Buasawad (1-003-ค-7280)
5. Sampling At UTM 47 P 730370 E 1404509 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....
(Miss Apiradee Chuen-arom)

23 / 06 / 2022

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. W6606014

Report No. 6606-1593

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060082
Sample Name : บ่อสังเกตการณ์ 2 (TOCGC MW05) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 11:05 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Results	Standard ¹⁾
Volatile Organic Compounds				
- Benzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.2
- Carbon tetrachloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.4
- 1,2-Dichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.5
- 1,1-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.1
- cis-1,2-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 2.0
- trans-1,2-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 5.0
- Ethylbenzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 2.0
- Styrene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Tetrachloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.9
- Toluene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 5.0
- 1,2,4 - Trichlorobenzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- 1,1,1-Trichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.2

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]
Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (๖-003-๓-๗280)
3. Sampling At UTM 47 P 730370 E 1404509 N

Examined By 

(Miss Apiradee Chuen-arom)

(๖-003-๓-4377)

23/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 

(Miss Nunnaphat Bakhuntod)

(๖-003-๓-2205)

23/06/2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. W6606014

Report No. 6606-1593

TEST REPORT


Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060082
Sample Name : บ่อสังเกตการณ์ 2 (TOCGC MW05) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 11:05 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Results	Standard ¹⁾
Volatile Organic Compounds				
- 1,1,2-Trichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.8
- Trichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 4.4
- Vinyl Chloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.03
- p,m-Xylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- o-Xylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Xylene Total	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Methylene chloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 6.0

Physical Apperance : 1. Sample : lightly SS

2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ก-7280)
3. Sampling At UTM 47 P 730370 E 1404509 N


Examined By 
(Miss Apiradee Chuen-arom)

(ว-003-ก-4377)

23/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)

(ว-003-ก-2205)

23/06/2023

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Request No. W6606014

Report No. 6606-1593

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060082
Sample Name : บ่อสังเคราะห์ 2 (TOCGC MW05) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 11:05 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ¹
Total Petroleum Hydrocarbons ***				
- TPH (C _{>8} -C ₁₆)	mg/L	3510 C / 8015 D	ND	≤ 1.7
- n-Nonane				
- n-Decane				
- n-Dodecane				
- n-Tetradecane				
- n-Hexadecane				

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Mr. Parkpoom Buasawad (๖-003-๓-7280))
3. *** Tested by SECOT Co.,Ltd. (๖-239)
4. MDL = Method Detection Limit [MDL of TPH (C_{>8}-C₁₆) = < 0.025 mg/L]
5. ND = non-detectable / Sampling At UTM 47 P 730370 E 1404509 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

23 / 06 / 2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. W6606014

Report No. 6606-1594

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060083
Sample Name : ขอสั่งเหตุการณ์ 3 (TOCGC MW06) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:20 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Arsenic	mg/L	Continuous Hydride Generation/AAS Method (SM:3114B)	< 0.0020	≤ 0.1
Beryllium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.01	≤ 0.01
Cadmium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.003	≤ 2.0
Chromium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤ 6.0
Hexavalent Chromium	mg/L as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤ 6.0
Lead	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.010	≤ 4.0
Manganese	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.34	≤ 33
Mercury	mg/L	Cold-Vapor Atomic Absorption Spectrometric Method (SM:3112B)	< 0.0010	≤ 0.7

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
4. Sampling At UTM 47 P 730789 E 1404730 N

Examined By.....
(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)
23 / 06 / 2023



Approved By.....
(Miss Nunnaphat Bakhuntod)

(ว-003-ค-2205)
23 / 06 / 2023

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Request No. W6606014

Report No. 6606-1594

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060083
Sample Name : บ่อสังเคราะห์ 3 (TOCGC MW06) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:20 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Nickel	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤ 5.0
Selenium	mg/L	Digestion, Hydride Generation/AAS Method (SM:3030F, 3114B&C)	< 0.0020	≤ 12
Vanadium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	≤ 17

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Sampling By Mr. Parkpoom Buasawad (ว-003-ก-7280)
4. Sampling At UTM 47 P 730789 E 1404730 N

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ก-4377)

23 / 06 / 2023



Approved By.....

(Miss Nunnaphat Bakhuntod)

(ว-003-ก-2205)

23 / 06 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

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Request No. W6606014

Report No. 6606-1594

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060083
Sample Name : บ่อสังเคราะห์ 3 (TOCGC MW06) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:20 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Boron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.05	
Cobalt	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	
Copper	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	3.57	
Titanium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
4. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
5. Sampling At UTM 47 P 730789 E 1404730 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

23 / 06 / 2023

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Request No. W6606014


Report No. 6606-1594

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060083
Sample Name : บ่อสังเคราะห์ 3 (TOCGC MW06) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:20 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Results	Standard ¹⁾
Volatile Organic Compounds				
- Benzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.2
- Carbon tetrachloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.4
- 1,2-Dichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.5
- 1,1-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.1
- cis-1,2-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 2.0
- trans-1,2-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 5.0
- Ethylbenzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 2.0
- Styrene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Tetrachloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.9
- Toluene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 5.0
- 1,2,4 - Trichlorobenzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- 1,1,1-Trichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.2

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]
Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
3. Sampling At UTM 47 P 730789 E 1404730 N


Examined By 
(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

23/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)

(ว-003-ค-2205)

23/06/2023

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Request No. W6606014


Report No. 6606-1594

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060083
Sample Name : บ่อสังเกตการณ์ 3 (TOCGC MW06) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:20 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Results	Standard ¹⁾
Volatile Organic Compounds				
- 1,1,2-Trichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.8
- Trichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 4.4
- Vinyl Chloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.03
- p,m-Xylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- o-Xylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Xylene Total	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Methylene chloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 6.0

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]
Remark : 1. /I Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (จ-003-ก-7280)
3. Sampling At UTM 47 P 730370 E 1404509 N

Examined By 
(Miss Apiradee Chuen-arom)

(จ-003-ก-4377)

23/06/2023



Approved By 
(Miss Nunnaphat Bakhuntod)

(จ-003-ก-2205)

23/06/2023

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Request No. W6606014

Report No. 6606-1594

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16

Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

Sampling Source : EOEG Plant Sample No. : W 66060083

Sample Name : บ่อสังเกตการณ์ 3 (TOCGC MW06) (น้ำใต้ดิน) Sampling Date : 31/05/2023

Sampling By : ETC Sampling Time : 10:20 AM

Sampling Method : Grab Received Date : 01/06/2023

Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Total Petroleum Hydrocarbons ***				
- TPH (C _{>8} -C ₁₆)	mg/L	3510 C / 8015 D	ND	≤ 1.7
- n-Nonane				
- n-Decane				
- n-Dodecane				
- n-Tetradecane				
- n-Hexadecane				

Physical Apperance : 1. Sample : lightly SS

2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

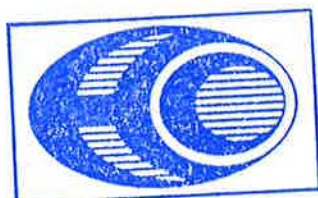
Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)

2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Mr. Parkpoom Buasawad (ว-003-ค-7280))


3. *** Tested by SECOT Co.,Ltd. (ว-239)

4. MDL = Method Detection Limit [MDL of TPH (C_{>8}-C₁₆) = < 0.025 mg/L]

5. ND = non-detectable / Sampling At UTM 47 P 730789 E 1404730 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(Miss Apiradee Chuen-arom)

23 / 06 / 2023

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Request No. W6606014

Report No. 6606-1595

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant
Sample Name : บ่อสังเคราะห์ 4 (TOCGC MW07) (น้ำใต้ดิน)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 01/06/2023 – 23/06/2023
Sample No. : W 66060084
Sampling Date : 31/05/2023
Sampling Time : 10:50 AM
Received Date : 01/06/2023
Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ¹⁾
Arsenic	mg/L	Continuous Hydride Generation/AAS Method (SM:3114B)	< 0.0020	≤ 0.1
Beryllium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.01	≤ 0.01
Cadmium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.003	≤ 2.0
Chromium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤ 6.0
Hexavalent Chromium	mg/L as Cr ⁶⁺	Filtration, Colorimetric Method (SM:3500 -Cr B)	< 0.050	≤ 6.0
Lead	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.010	≤ 4.0
Manganese	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.04	≤ 33
Mercury	mg/L	Cold-Vapor Atomic Absorption Spectrometric Method (SM:3112B)	< 0.0010	≤ 0.7

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry, B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Sampling By Mr. Parkpoon Buasawad (ว-003-ก-7280)
4. Sampling At UTM 47 P 730841 E 1404704 N

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ก-4377)

23 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Miss Nunnaphat Bakhuntod)

(ว-003-ก-2205)

23 / 06 / 2023

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Request No. W6606014

Report No. 6606-1595

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060084
Sample Name : บ่อสังเคราะห์ 4 (TOCGC MW07) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:50 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ¹
Nickel	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤ 5.0
Selenium	mg/L	Digestion, Hydride Generation/AAS Method (SM:3030F, 3114B&C)	< 0.0020	≤ 12
Vanadium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	≤ 17

Physical Appearance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
4. Sampling At UTM 47 P 730841 E 1404704 N

Examined By

(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

23 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-2205)

23 / 06 / 2023

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Request No. W6606014

Report No. 6606-1595

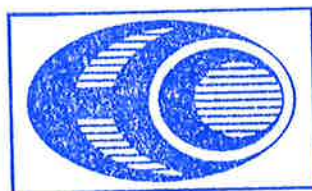
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060084
Sample Name : บ่อสังเคราะห์ 4 (TOCGC MW07) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:50 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Boron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.07	-
Cobalt	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	-
Copper	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	-
Iron	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	0.11	-
Titanium	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.02	-

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
4. Sampling By Mr. Parkpoom Buasawad (ว-003-ก-7280)
5. Sampling At UTM 47 P 730841 E 1404704 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

23 / 06 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. W6606014

Report No. 6606-1595

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060084
Sample Name : บ่อสังเกตการณ์ 4 (TOCGC MW07) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:50 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Results	Standard ¹⁾
Volatile Organic Compounds				
- Benzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.2
- Carbon tetrachloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.4
- 1,2-Dichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.5
- 1,1-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.1
- cis-1,2-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 2.0
- trans-1,2-Dichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 5.0
- Ethylbenzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 2.0
- Styrene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Tetrachloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.9
- Toluene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 5.0
- 1,2,4 - Trichlorobenzene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- 1,1,1-Trichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.2

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ก-7280)
3. Sampling At UTM 47 P 730841 E 1404704 N

Examined By
(Miss Apiradee Chuen-arom)
(ว-003-ก-4377)

23/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By
(Miss Nunnaphat Bakhuntod)
(ว-003-ก-2205)

23/06/2023

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Request No. W6606014

Report No. 6606-1595

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060084
Sample Name : บ่อสังเคราะห์ 4 (TOCGC MW07) (น้ำใต้ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:50 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Results	Standard ¹
Volatile Organic Compounds				
- 1,1,2-Trichloroethane	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.8
- Trichloroethylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 4.4
- Vinyl Chloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 0.03
- p,m-Xylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- o-Xylene	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Xylene Total	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 24
- Methylene chloride	mg/L	Purge-and-Trap/GC-MS	Not Detected	≤ 6.0

Physical Apperance : 1. Sample : lightly SS

2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
3. Sampling At UTM 47 P 730841 E 1404704 N

Examined By



(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

23/06/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Nunnaphat Bakhuntod)

(ว-003-ค-2205)

23/06/2023

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Request No. W6606014

Report No. 6606-1595

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16

Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

Sampling Source : EOEG Plant Sample No. : W 66060084

Sample Name : บ่อสังเกตการณ์ 4 (TOCGC MW07) (น้ำใต้ดิน) Sampling Date : 31/05/2023

Sampling By : ETC Sampling Time : 10:50 AM

Sampling Method : Grab Received Date : 01/06/2023

Tested Date : 01/06/2023 – 23/06/2023 Reported Date : 23/06/2023

Parameter	Unit	Method	Result	Standard ¹⁾
Total Petroleum Hydrocarbons ***				
- TPH (C _{>8} -C ₁₆)	mg/L	3510 C / 8015 D	ND	≤ 1.7
- n-Nonane				
- n-Decane				
- n-Dodecane				
- n-Tetradecane				
- n-Hexadecane				

Physical Apperance : 1. Sample : lightly SS

2. Container : Normal [PE 0.5 L [3 Bottle], G 1.0 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)

2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Mr. Parkpoom Buasawad (ว-003-ค-7280))


3. *** Tested by SECOT Co.,Ltd. (ว-239)

4. MDL = Method Detection Limit [MDL of TPH (C_{>8}-C₁₆) = < 0.025 mg/L]

5. ND = non-detectable / Sampling At UTM 47 P 730841 E 1404704 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(Miss Apiradee Chuen-arom)

23 / 06 / 2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. W6606016

Report No. 6606-1996

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060088
Sample Name : บ่อสังเคราะห์ 1 (TOCGC MW01) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 9:10 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ¹⁾
Arsenic (As)	mg/kg	Digestion, Inductively Coupled Plasma	< 5.00	≤ 27
Beryllium (Be)	mg/kg	Digestion, Inductively Coupled Plasma	< 1.00	≤ 13
Cadmium (Cd)	mg/kg	Digestion, Inductively Coupled Plasma	0.16	≤ 810
Chromium (Cr)	mg/kg	Digestion, Inductively Coupled Plasma	7.22	≤ 640
Hexavalent Chromium	mg/kg	Alkaline Digestion, Colorimetric Method	< 2.00	≤ 640
Lead (Pb)	mg/kg	Digestion, Inductively Coupled Plasma	7.25	≤ 750
Manganese (Mn)	mg/kg	Digestion, Inductively Coupled Plasma	111	≤ 32,000
Mercury (Hg)	mg/kg	Digestion, Cold-Vapor Atomic Absorption Spectrometric	< 0.20	≤ 610
Nickel (Ni)	mg/kg	Digestion, Inductively Coupled Plasma	1.86	≤ 41,000
Selenium (Se)	mg/kg	Digestion, Inductively Coupled Plasma	< 5.00	≤ 10,000
Vanadium (V)	mg/kg	Digestion, Inductively Coupled Plasma	8.11	≤ 1,000
Zinc (Zn)	mg/kg	Digestion, Inductively Coupled Plasma	31.6	≤ 1,000

Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
3. Sampling At UTM 47 P 731078 E 1405208 N

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

27 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-2205)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1996

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060088
Sample Name : บ่อสังเกตการณ์ 1 (TOCGC MW01) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 9:10 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Boron (B)	mg/kg	Digestion, Inductively Coupled Plasma	5.78	-
Cobalt (Co)	mg/kg	Digestion, Inductively Coupled Plasma	< 1.00	-
Copper (Cu)	mg/kg	Digestion, Inductively Coupled Plasma	1.24	-
Iron (Fe)	mg/kg	Digestion, Inductively Coupled Plasma	3,353	-
Titanium (Ti)	mg/kg	Digestion, Inductively Coupled Plasma	10.5	-

Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
4. Sampling At UTM 47 P 731078 E 1405208 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด


Examined By.....

(Miss Apiradee Chuen-arom)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1996

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060088
Sample Name : บ่อสังเคราะห์ 1 (TOCGC MW01) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 9:10 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Results	Standard ^{1/}
Volatile Organic Compounds				
- Benzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 15
- Carbon tetrachloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 5.3
- 1,2-Dichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 7.6
- 1,1-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1.2
- cis-1,2-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 150
- trans-1,2-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Ethylbenzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 230
- Methylene Chloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Styrene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,700
- Tetrachloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 190
- Toluene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 520
- 1,2,4 - Trichlorobenzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,000
- 1,1,1-Trichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,400

Physical Apperance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (๖-003-๓-7280))
3. Sampling At UTM 47 P 731078 E 1405208 N

Examined By

(Miss Apiradee Chuen-arom)

(๖-003-๓-4377)

27 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Nunnaphat Bakhuntod)

(๖-003-๓-2205)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1996


TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060088
Sample Name : บ่อสังเคราะห์ 1 (TOCGC MW01) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 9:10 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Results	Standard ^{1/}
Volatile Organic Compounds				
- 1,1,2-Trichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 19
- Trichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 61
- Vinyl Chloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 8.3
- m,p-Xylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- o-Xylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Xylene Total	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210

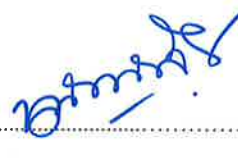
Physical Apperance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
3. Sampling At UTM 47 P 731078 E 1405208 N

Examined By 
(Miss Apiradee Chuen-arom)
(ว-003-ค-4377)
27 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-2205)
27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1996

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060088
Sample Name : บ่อสังเกตการณ์ 1 (TOCGC MW01) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 9:10 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Total Petroleum Hydrocarbons ***				
- TPH (C ₈ -C ₁₆)	mg/kg	3540 C /8015 D	1.82	≤ 25
- n-Nonane				
- n-Decane				
- n-Dodecane				
- n-Tetradecane				
- n-Hexadecane				

Physical Apperance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Mr. Parkpoom Buasawad (๑-003-๓-7280))
3. *** Tested by SECOT Co.,Ltd. (๑-239)
4. Sampling At UTM 47 P 731078 E 1405208 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1997

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant
Sample Name : บ่อสังเคราะห์ 2 (TOCGC MW05) (ดิน)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 01/06/2023 – 27/06/2023
Sample No. : W 66060089
Sampling Date : 31/05/2023
Sampling Time : 11:05 AM
Received Date : 01/06/2023
Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ¹
Arsenic (As)	mg/kg	Digestion, Inductively Coupled Plasma	< 5.00	≤ 27
Beryllium (Be)	mg/kg	Digestion, Inductively Coupled Plasma	< 1.00	≤ 13
Cadmium (Cd)	mg/kg	Digestion, Inductively Coupled Plasma	0.30	≤ 810
Chromium (Cr)	mg/kg	Digestion, Inductively Coupled Plasma	8.51	≤ 640
Hexavalent Chromium	mg/kg	Alkaline Digestion, Colorimetric Method	< 2.00	≤ 640
Lead (Pb)	mg/kg	Digestion, Inductively Coupled Plasma	11.3	≤ 750
Manganese (Mn)	mg/kg	Digestion, Inductively Coupled Plasma	227	≤ 32,000
Mercury (Hg)	mg/kg	Digestion, Cold-Vapor Atomic Absorption Spectrometric	< 0.20	≤ 610
Nickel (Ni)	mg/kg	Digestion, Inductively Coupled Plasma	2.16	≤ 41,000
Selenium (Se)	mg/kg	Digestion, Inductively Coupled Plasma	< 5.00	≤ 10,000
Vanadium (V)	mg/kg	Digestion, Inductively Coupled Plasma	11.0	≤ 1,000
Zinc (Zn)	mg/kg	Digestion, Inductively Coupled Plasma	51.3	≤ 1,000

Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry, B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
3. Sampling At UTM 47 P 730370 E 1404509 N

Examined By

(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

27 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Nuninaphat Bakhuntod)

(ว-003-ค-2205)

27 / 06 / 2023

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. W6606016

Report No. 6606-1997

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060089
Sample Name : บ่อสังเคราะห์ 2 (TOCGC MW05) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 11:05 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ^{1/}
Boron (B)	mg/kg	Digestion, Inductively Coupled Plasma	9.17	
Cobalt (Co)	mg/kg	Digestion, Inductively Coupled Plasma	< 1.00	
Copper (Cu)	mg/kg	Digestion, Inductively Coupled Plasma	1.09	
Iron (Fe)	mg/kg	Digestion, Inductively Coupled Plasma	6,015	
Titanium (Ti)	mg/kg	Digestion, Inductively Coupled Plasma	14.8	

Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
4. Sampling At UTM 47 P 730370 E 1404509 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

27 / 06 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

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WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. W6606016

Report No. 6606-1997

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060089
Sample Name : บ่อสังเกตการณ์ 2 (TOCGC MW05) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 11:05 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Results	Standard ^{1/}
Volatile Organic Compounds				
- Benzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 15
- Carbon tetrachloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 5.3
- 1,2-Dichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 7.6
- 1,1-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1.2
- cis-1,2-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 150
- trans-1,2-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Ethylbenzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 230
- Methylene Chloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Styrene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,700
- Tetrachloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 190
- Toluene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 520
- 1,2,4 - Trichlorobenzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,000
- 1,1,1-Trichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,400

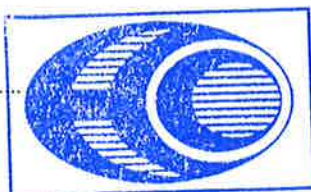
Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280))
3. Sampling At UTM 47 P 730370 E 1404509 N

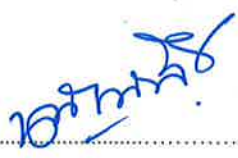
Examined By 
(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

27 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)

(ว-003-ค-2205)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1997

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060089
Sample Name : บ่อสังเคราะห์ 2 (TOCGC MW05) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 11:05 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Results	Standard ^{1/}
Volatile Organic Compounds				
- 1,1,2-Trichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 19
- Trichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 61
- Vinyl Chloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 8.3
- m,p-Xylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- o-Xylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Xylene Total	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210

Physical Appearance :

1. Sample : brown, soil

2. Container : Normal [G 0.5 L]

Remark :

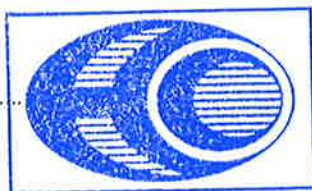
1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ก-7280)
3. Sampling At UTM 47 P 730370 E 1404509 N

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ก-4377)

27 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Nunnaphat Bakhuntod)

(ว-003-ก-2205)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1997

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060089
Sample Name : บ่อสังเคราะห์ 2 (TOCGC MW05) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 11:05 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ¹
Total Petroleum Hydrocarbons ***				
- TPH (C _{>8} -C ₁₆)	mg/kg	3540 C /8015 D	ND	≤ 25
- n-Nonane				
- n-Decane				
- n-Dodecane				
- n-Tetradecane				
- n-Hexadecane				

Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]
Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Mr. Parkpoom Buasawad (ว-003-ท-7280))
3. *** Tested by SECOT Co.,Ltd. (ว-239)
4. MDL = Method Detection Limit [MDL of TPH (C_{>8}-C₁₆) = < 0.25 mg/kg]
5. ND = Non-detectable / Sampling At UTM 47 P 730370 E 1404509 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1998

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060090
Sample Name : บ่อสังเคราะห์ 3 (TOCGC MW06) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:20 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 -- 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ¹
Arsenic (As)	mg/kg	Digestion, Inductively Coupled Plasma	< 5.00	≤ 27
Beryllium (Be)	mg/kg	Digestion, Inductively Coupled Plasma	< 1.00	≤ 13
Cadmium (Cd)	mg/kg	Digestion, Inductively Coupled Plasma	< 0.15	≤ 810
Chromium (Cr)	mg/kg	Digestion, Inductively Coupled Plasma	2.25	≤ 640
Hexavalent Chromium	mg/kg	Alkaline Digestion, Colorimetric Method	< 2.00	≤ 640
Lead (Pb)	mg/kg	Digestion, Inductively Coupled Plasma	6.32	≤ 750
Manganese (Mn)	mg/kg	Digestion, Inductively Coupled Plasma	211	≤ 32,000
Mercury (Hg)	mg/kg	Digestion, Cold-Vapor Atomic Absorption Spectrometric	< 0.20	≤ 610
Nickel (Ni)	mg/kg	Digestion, Inductively Coupled Plasma	< 1.00	≤ 41,000
Selenium (Se)	mg/kg	Digestion, Inductively Coupled Plasma	< 5.00	≤ 10,000
Vanadium (V)	mg/kg	Digestion, Inductively Coupled Plasma	3.67	≤ 1,000
Zinc (Zn)	mg/kg	Digestion, Inductively Coupled Plasma	11.6	≤ 1,000

Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry, B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (1-003-ค-7280)
3. Sampling At UTM 47 P 730789 E 1404730 N

Examined By.....

(Miss Apiradee Chuen-arom)

(1-003-ค-4377)

27 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Miss Nunnaphat Bakhuntod)

(1-003-ค-2205)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1998

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16

Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150

Sampling Source : EOEG Plant Sample No. : W 66060090

Sample Name : บ่อสังเคราะห์ 3 (TOCGC MW06) (ดิน) Sampling Date : 31/05/2023

Sampling By : ETC Sampling Time : 10:20 AM

Sampling Method : Grab Received Date : 01/06/2023

Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ¹
Boron (B)	mg/kg	Digestion, Inductively Coupled Plasma	4.28	
Cobalt (Co)	mg/kg	Digestion, Inductively Coupled Plasma	< 1.00	
Copper (Cu)	mg/kg	Digestion, Inductively Coupled Plasma	< 1.00	
Iron (Fe)	mg/kg	Digestion, Inductively Coupled Plasma	2,067	
Titanium (Ti)	mg/kg	Digestion, Inductively Coupled Plasma	19.7	

Physical Apperance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
4. Sampling At UTM 47 P 730789 E 1404730 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1998

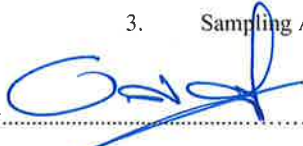
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060090
Sample Name : บ่อสังเกตการณ์ 3 (TOCGC MW06) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:20 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023


Parameter	Unit	Method	Results	Standard ^{1/}
Volatile Organic Compounds				
- Benzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 15
- Carbon tetrachloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 5.3
- 1,2-Dichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 7.6
- 1,1-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1.2
- cis-1,2-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 150
- trans-1,2-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Ethylbenzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 230
- Methylene Chloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Styrene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,700
- Tetrachloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 190
- Toluene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 520
- 1,2,4 - Trichlorobenzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,000
- 1,1,1-Trichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,400


Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
3. Sampling At UTM 47 P 730789 E 1404730 N

Examined By 
(Miss Apiradee Chuen-arom)
(ว-003-ค-4377)
27 / 06 / 2023



Approved By 
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-2205)
27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1998

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060090
Sample Name : บ่อสังเคราะห์ 3 (TOCGC MW06) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:20 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Results	Standard
Volatile Organic Compounds				
- 1,1,2-Trichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 19
- Trichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 61
- Vinyl Chloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 8.3
- m,p-Xylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- o-Xylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Xylene Total	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210

Physical Appearance :

1. Sample : brown, soil

2. Container : Normal [G 0.5 L]

Remark :


1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
3. Sampling At UTM 47 P 730789 E 1404730 N

Examined By


(Miss Apiradee Chuen-arom)
(ว-003-ค-4377)
27 / 06 / 2023


บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By


(Miss Nunnaphat Bakhuntod)
(ว-003-ค-2205)
27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1998

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16

Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

Sampling Source : EOEG Plant Sample No. : W 66060090

Sample Name : บ่อสังเกตการณ์ 3 (TOCGC MW06) (ดิน) Sampling Date : 31/05/2023

Sampling By : ETC Sampling Time : 10:20 AM

Sampling Method : Grab Received Date : 01/06/2023

Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ¹
Total Petroleum Hydrocarbons ***				
- TPH (C ₈ -C ₁₆)	mg/kg	3540 C /8015 D	1.93	≤ 25
- n-Nonane				
- n-Decane				
- n-Dodecane				
- n-Tetradecane				
- n-Hexadecane				

Physical Apperance : 1. Sample : brown, soil

2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)

2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Mr. Parkpoom ,Buasawad (๖-003-ท-7280))

3. *** Tested by SECOT Co.,Ltd. (๖-239)

4. Sampling At UTM 47 P 730789 E 1404730 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1999

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060091
Sample Name : บ่อสังเกตการณ์ 4 (TOCGC MW07) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:50 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ¹
Arsenic (As)	mg/kg	Digestion, Inductively Coupled Plasma	14.8	≤ 27
Beryllium (Be)	mg/kg	Digestion, Inductively Coupled Plasma	< 1.00	≤ 13
Cadmium (Cd)	mg/kg	Digestion, Inductively Coupled Plasma	0.74	≤ 810
Chromium (Cr)	mg/kg	Digestion, Inductively Coupled Plasma	16.8	≤ 640
Hexavalent Chromium	mg/kg	Alkaline Digestion, Colorimetric Method	< 2.00	≤ 640
Lead (Pb)	mg/kg	Digestion, Inductively Coupled Plasma	6.78	≤ 750
Manganese (Mn)	mg/kg	Digestion, Inductively Coupled Plasma	48.7	≤ 32,000
Mercury (Hg)	mg/kg	Digestion, Cold-Vapor Atomic Absorption Spectrometric	< 0.20	≤ 610
Nickel (Ni)	mg/kg	Digestion, Inductively Coupled Plasma	2.89	≤ 41,000
Selenium (Se)	mg/kg	Digestion, Inductively Coupled Plasma	< 5.00	≤ 10,000
Vanadium (V)	mg/kg	Digestion, Inductively Coupled Plasma	36.4	≤ 1,000
Zinc (Zn)	mg/kg	Digestion, Inductively Coupled Plasma	8.01	≤ 1,000

Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /I Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry, B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)
3. Sampling At UTM 47 P 730841 E 1404704 N

Examined By 
(Miss Apiradee Chuen-arom)

(ว-003-ค-4377)

27 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhunlod)

(ว-003-ค-2205)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1999

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant
Sample Name : บ่อสังเคราะห์ 4 (TOCGC MW07) (ดิน)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 01/06/2023 – 27/06/2023
Sample No. : W 66060091
Sampling Date : 31/05/2023
Sampling Time : 10:50 AM
Received Date : 01/06/2023
Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ¹
Boron (B)	mg/kg	Digestion, Inductively Coupled Plasma	28.8	-
Cobalt (Co)	mg/kg	Digestion, Inductively Coupled Plasma	< 1.00	-
Copper (Cu)	mg/kg	Digestion, Inductively Coupled Plasma	< 1.00	-
Iron (Fe)	mg/kg	Digestion, Inductively Coupled Plasma	16,092	-
Titanium (Ti)	mg/kg	Digestion, Inductively Coupled Plasma	19.4	-

Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1./1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. Sampling By Mr. Parkpoom Buasawad (3-003-ค-7280)
4. Sampling At UTM 47 P 730841 E 1404704 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

27 / 06 / 2023

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Request No. W6606016

Report No. 6606-1999

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16

Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

Sampling Source : EOEG Plant Sample No. : W 66060091

Sample Name : บ่อสังเคราะห์ 4 (TOCGC MW07) (ดิน) Sampling Date : 31/05/2023

Sampling By : ETC Sampling Time : 10:50 AM

Sampling Method : Grab Received Date : 01/06/2023

Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Results	Standard ^{1/}
Volatile Organic Compounds				
- Benzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 15
- Carbon tetrachloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 5.3
- 1,2-Dichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 7.6
- 1,1-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1.2
- cis-1,2-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 150
- trans-1,2-Dichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Ethylbenzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 230
- Methylene Chloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Styrene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,700
- Tetrachloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 190
- Toluene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 520
- 1,2,4 - Trichlorobenzene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,000
- 1,1,1-Trichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 1,400

Physical Appearance : 1. Sample : brown, soil

2. Container : Normal [G 0.5 L]

Remark : 1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)

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

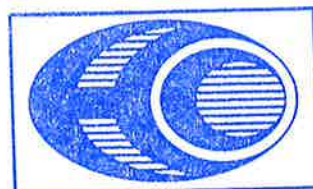
3. Sampling At UTM 47 P 730841 E 1404704 N

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ก-4377)

27 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Miss Nunnaphat Bakhuntod)

(ว-003-ก-2205)

27 / 06 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. W6606016

Report No. 6606-1999

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EOEG Plant Sample No. : W 66060091
Sample Name : บ่อสังเกตการณ์ 4 (TOCGC MW07) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:50 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Results	Standard ^{/1}
Volatile Organic Compounds				
- 1,1,2-Trichloroethane	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 19
- Trichloroethylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 61
- Vinyl Chloride	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 8.3
- m,p-Xylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- o-Xylene	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210
- Xylene Total	mg/kg	Purge-and-Trap/GC-MS	Not Detected	≤ 210

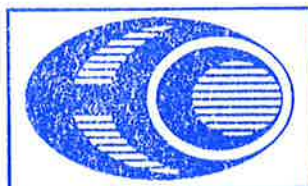
Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1./1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Mr. Parkpoom Buasawad (ว-003-ก-7280)
3. Sampling At UTM 47 P 730841 E 1404704 N

Examined By 
(Miss Apiradee Chuen-arom)

(ว-003-ก-4377)

27 / 06 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)

(ว-003-ก-2205)

27 / 06 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY
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Request No. W6606016

Report No. 6606-1999

TEST REPORT

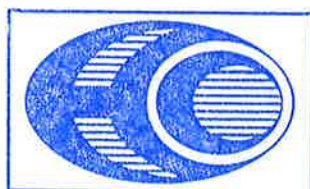
Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

Sampling Source : EOEG Plant Sample No. : W 66060091
Sample Name : บ่อสังเกตการณ์ 4 (TOCGC MW07) (ดิน) Sampling Date : 31/05/2023
Sampling By : ETC Sampling Time : 10:50 AM
Sampling Method : Grab Received Date : 01/06/2023
Tested Date : 01/06/2023 – 27/06/2023 Reported Date : 27/06/2023

Parameter	Unit	Method	Result	Standard ¹
Total Petroleum Hydrocarbons ***				
- TPH (C _{>8} -C ₁₆)	mg/kg	3540 C /8015 D	ND	≤ 25
- n-Nonane				
- n-Decane				
- n-Dodecane				
- n-Tetradecane				
- n-Hexadecane				

Physical Appearance : 1. Sample : brown, soil
2. Container : Normal [G 0.5 L]

Remark : 1. /I Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. Sampling By Eastern Thai Consulting 1992 Co., Ltd., (Mr. Parkpoom Buasawad (๖-003-๓-7280))
3. *** Tested by SECOT Co.,Ltd. (๖-239)
4. MDL = Method Detection Limit [MDL of TPH (C_{>8}-C₁₆) = < 0.25 mg/kg]
5. ND = Non-detectable / Sampling At UTM 47 P 730841 E 1404704 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Apiradee Chuen-arom)

27 / 06 / 2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
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