

# ภาคผนวกที่ 16

รายงานวิเคราะห์ควบคุมการปนเปื้อนในดิน



## ANALYSIS REPORT

**PROJECT NAME** : โครงการควบคุมการปนเปื้อนในดินและน้ำใต้ดินภายในบริเวณโรงงาน  
**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 06 2374 2691 e-mail : safetyofficer@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : DECEMBER 24, 2024  
**SAMPLING TIME** : 13:40 HOUR  
**SAMPLING METHOD °** : UNDISTURBED  
**SAMPLING BY °** : MR ACHITA SAENGJAN ๖-145-๖-0044  
**ANALYZED BY** : MISS WORAKON PADSONGCHAN ๖-145-๓-0026  
**RECEIVED DATE** : DECEMBER 24, 2024  
**ANALYTICAL DATE** : DECEMBER 24, 2024 - JANUARY 8, 2025  
**ISSUE DATE** : JANUARY 10, 2025  
**REPORT NO.** : 2025-U002530  
**WORK NO.** : 2024-008845  
**ANALYSIS NO.** : T24BE251-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			SOIL1 (โรงบรรจุ) T24BE251-0003		
pH (1:1) °	-	ELECTROMETRIC METHOD (US EPA 2004: 9045D)	9.2 (25°C)	-	-
TOTAL PETROLEUM HYDROCARBON *					
TPH (C <sub>5</sub> -C <sub>9</sub> ) °	mg/kg	PURGE AND TRAP, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	0.04	-
TPH (C <sub>8</sub> -C <sub>10</sub> ) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	ND	0.08	-
TPH (C <sub>10</sub> -C <sub>36</sub> ) °	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	0.68	0.21	-
VOLATILE ORGANIC COMPOUNDS					
TOLUENE °	mg/kg	EQUILIBRIUM HEADSPACE, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2014: 5021A AND 2018: 8260D)	< 0.001	-	0.001
XYLENES (TOTAL) °	mg/kg	EQUILIBRIUM HEADSPACE, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2014: 5021A AND 2018: 8260D)	< 0.003	-	0.003



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			SOIL1 (15911559) T248E251-0003		
ACETONE <sup>c</sup>	mg/kg	EQUILIBRIUM HEADSPACE, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2014; 5021A AND 2018: 8260D)	< 0.01	-	0.01
SAMPLE CONDITION			BROWN SOIL		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

\* : SEE ADDITIONAL ANALYSIS REPORT.

ND : NOT DETECTED.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR  
จ-145-ค-0006

## ANALYSIS REPORT

**PROJECT NAME** : โครงการควบคุมการปนเปื้อนในดินและน้ำใต้ดินภายในบริเวณโรงงาน  
**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 06 2374 2691 e-mail : safetyofficer@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : DECEMBER 24, 2024  
**SAMPLING TIME** : 14:10 HOUR  
**SAMPLING METHOD <sup>c</sup>** : UNDISTURBED  
**SAMPLING BY <sup>c</sup>** : MR ACHITA SAENGJAN ๖-145-๑-0044  
**ANALYZED BY** : MISS WORAKON PADSONGCHAN ๖-145-๑-0026  
**RECEIVED DATE** : DECEMBER 24, 2024  
**ANALYTICAL DATE** : DECEMBER 24, 2024 - JANUARY 8, 2025  
**ISSUE DATE** : JANUARY 10, 2025  
**REPORT NO.** : 2025-U002531  
**WORK NO.** : 2024-008845  
**ANALYSIS NO.** : T24BE251-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			SOIL2 (โรงบรรจุ) T24BE251-0004		
pH (1:1) <sup>b</sup>	-	ELECTROMETRIC METHOD (US EPA 2004: 9045D)	8.1 (25°C)	-	-
TOTAL PETROLEUM HYDROCARBON*					
TPH (C <sub>5</sub> -C <sub>9</sub> ) <sup>c</sup>	mg/kg	PURGE AND TRAP, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	0.04	-
TPH (C <sub>8</sub> -C <sub>10</sub> ) <sup>c</sup>	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	ND	0.08	-
TPH (C <sub>10</sub> -C <sub>36</sub> ) <sup>c</sup>	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	0.57	0.21	-
VOLATILE ORGANIC COMPOUNDS					
TOLUENE <sup>a</sup>	mg/kg	EQUILIBRIUM HEADSPACE, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2014: 5021A AND 2018: 8260D)	< 0.001	-	0.001
XYLENES (TOTAL) <sup>a</sup>	mg/kg	EQUILIBRIUM HEADSPACE, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2014: 5021A AND 2018: 8260D)	< 0.003	-	0.003



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			SOIL2 (โพธิ์แก้ว) T24BE251-0004		
ACETONE <sup>c</sup>	mg/kg	EQUILIBRIUM HEADSPACE, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2014; 5021A AND 2018: 8260D)	< 0.01	-	0.01
<b>SAMPLE CONDITION</b>			BROWN SOIL		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SAMPLE(S) ANALYSED ON AS RECEIVED BASIS. RESULT(S) REPORTED ON A DRY WEIGHT BASIS.

\* : SEE ADDITIONAL ANALYSIS REPORT.

ND : NOT DETECTED.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR  
จ-145-ก-0006

## ANALYSIS REPORT

**PROJECT NAME** : โครงการควบคุมการปนเปื้อนในดินและน้ำใต้ดินภายในบริเวณโรงงาน  
**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 06 2374 2691 e-mail : safetyofficer@slamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : SOIL  
**SAMPLING DATE** : DECEMBER 24, 2024  
**SAMPLING TIME** : 14:35 HOUR  
**SAMPLING METHOD °** : UNDISTURBED  
**SAMPLING BY °** : MR ACHITA SAENGJAN ๖-145-๖-0044  
**ANALYZED BY** : MISS WORAKON PADSONGCHAN ๖-145-๖-0026  
**RECEIVED DATE** : DECEMBER 24, 2024  
**ANALYTICAL DATE** : DECEMBER 24, 2024 - JANUARY 8, 2025  
**ISSUE DATE** : JANUARY 10, 2025  
**REPORT NO.** : 2025-U002532  
**WORK NO.** : 2024-008845  
**ANALYSIS NO.** : T24BE251-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			SOIL3 (โรงบรรจุ) T24BE251-0005		
pH (1:1) <sup>b</sup>	-	ELECTROMETRIC METHOD (US EPA 2004: 9045D)	7.4 (25°C)	-	-
TOTAL PETROLEUM HYDROCARBON*					
TPH (C <sub>8</sub> -C <sub>9</sub> ) <sup>c</sup>	mg/kg	PURGE AND TRAP, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2002: 5035A AND 2018: 8260D)	ND	0.04	-
TPH (C <sub>8</sub> -C <sub>10</sub> ) <sup>c</sup>	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	ND	0.08	-
TPH (C <sub>10</sub> -C <sub>35</sub> ) <sup>c</sup>	mg/kg	ULTRASONIC EXTRACTION AND GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2007:3550 C AND 2003:8015 D)	0.49	0.21	-
VOLATILE ORGANIC COMPOUNDS					
TOLUENE <sup>a</sup>	mg/kg	EQUILIBRIUM HEADSPACE, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2014; 5021A AND 2018: 8260D)	< 0.001	-	0.001
XYLENES (TOTAL) <sup>a</sup>	mg/kg	EQUILIBRIUM HEADSPACE, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2014; 5021A AND 2018: 8260D)	< 0.003	-	0.003





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			SOIL3 (โพธิ์โพธิ์) T248E251-0005		
ACETONE <sup>c</sup>	mg/kg	EQUILIBRIUM HEADSPACE, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2014; 5021A AND 2018: 8260D)	< 0.01	-	0.01
SAMPLE CONDITION			BROWN SOIL		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SAMPLE (S) ANALYSED ON AS RECEIVED BASIS. RESULT (S) REPORTED ON A DRY WEIGHT BASIS.

\* : SEE ADDITIONAL ANALYSIS REPORT.

ND : NOT DETECTED.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR  
จ-145-ค-0006

## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 06 2374 2691 e-mail : safetyofficer@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : DECEMBER 24, 2024  
**SAMPLING TIME** : 13:30 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR ACHITA SAENGJAN  
**ANALYZED BY** : MISS WORAKON PADSONGCHAN  
**RECEIVED DATE** : DECEMBER 24, 2024  
**ANALYTICAL DATE** : DECEMBER 24, 2024 - JANUARY 8, 2025  
**ISSUE DATE** : JANUARY 10, 2025  
**REPORT NO.** : 2025-U002513  
**WORK NO.** : 2024-009364  
**ANALYSIS NO.** : T24BE249-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			MW1 (โรงบรรจุ) T24BE249-0003			
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B, ประกาศกรมโรงงานอุตสาหกรรม เรื่อง คู่มือการเก็บตัวอย่างดินและน้ำใต้ดิน ลงวันที่ 20 เมษายน 2560	7.5 (31.4°C)	-	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.4	-	-	-
ELECTRICAL CONDUCTIVITY <sup>b</sup>	µS/cm	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2510 B AND 1060 B	5,966 (31.4°C)	-	0.1	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	2.9	-	0.1	-
TOTAL PETROLEUM HYDROCARBON <sup>a</sup>						
TPH (C <sub>6</sub> -C <sub>8</sub> ) <sup>c</sup>	mg/L	PURGE AND TRAP, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2003: 5030C AND 201B: 8260D)	ND	≤ 1.4	0.040	-
TPH (C <sub>9</sub> -C <sub>10</sub> ) <sup>c</sup>	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8015D)	ND	≤ 1.7	0.016	-
TPH (C <sub>11</sub> -C <sub>28</sub> ) <sup>c</sup>	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8015D)	ND	≤ 0.1	0.042	-
VOLATILE ORGANIC COMPOUNDS						
ACETONE <sup>c</sup>	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.0010	≤ 230	-	0.0010
TOLUENE <sup>a</sup>	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.0002	≤ 5.0	-	0.0002





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			MW1 (โรงงาน) T24BE249-0003			
XYLENE (TOTAL) <sup>a</sup>	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.0006	≤ 24	-	0.0006
<b>SAMPLE CONDITION</b>						
WATER'S COLOUR/TURBID			YELLOW/CLEAR			
SEDIMENT			BLACK			

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

\* : SEE ADDITIONAL ANALYSIS REPORT

ND : NOT DETECTED.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**CUSTOMER NAME** : SIAM CHEMICALS PUBLIC COMPANY  
**ADDRESS** : 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290  
**CONTACT INFORMATION** : TEL : 06 2374 2691 e-mail : safetyofficer@siamchemicals.co.th  
**SAMPLING SOURCE** : SIAM CHEMICALS PUBLIC COMPANY  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : DECEMBER 24, 2024  
**SAMPLING TIME** : 14:15 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR ACHITA SAENGJAN  
**ANALYZED BY** : MISS WORAKON PADSONGCHAN  
**RECEIVED DATE** : DECEMBER 24, 2024  
**ANALYTICAL DATE** : DECEMBER 24, 2024 - JANUARY 8, 2025  
**ISSUE DATE** : JANUARY 10, 2025  
**REPORT NO.** : 2025-U002514  
**WORK NO.** : 2024-009364  
**ANALYSIS NO.** : T24BE249-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			MW2 (โรงงาน) T24BE249-0004			
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B, ประกาศกรมโรงงานอุตสาหกรรม เรื่อง คู่มือการเก็บตัวอย่างดินและน้ำใต้ดิน ลงวันที่ 20 เมษายน 2560	7.0 (32.2°C)	-	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	32.2	-	-	-
ELECTRICAL CONDUCTIVITY <sup>b</sup>	µS/cm	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2510 B AND 1060 B	10,062 (32.2°C)	-	0.1	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	4.9	-	0.1	-
TOTAL PETROLEUM HYDROCARBON*						
TPH (C <sub>5</sub> -C <sub>9</sub> ) <sup>c</sup>	mg/L	PURGE AND TRAP, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2003: 5030C AND 2016: 8260D)	ND	≤ 14	0.040	-
TPH (C <sub>6</sub> -C <sub>10</sub> ) <sup>c</sup>	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8015D)	ND	≤ 1.7	0.016	-
TPH (C <sub>8</sub> -C <sub>20</sub> ) <sup>c</sup>	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8015D)	ND	≤ 0.1	0.042	-
VOLATILE ORGANIC COMPOUNDS						
ACETONE <sup>c</sup>	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.0010	≤ 230	-	0.0010
TOLUENE <sup>a</sup>	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.0002	≤ 5.0	-	0.0002



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			MW2 (ไท่จงมววิจ) T24BE249-0004			
XYLENE (TOTAL) <sup>a</sup>	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.0006	≤ 24	-	0.0006
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN			

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

\* : SEE ADDITIONAL ANALYSIS REPORT

ND : NOT DETECTED.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: SIAM CHEMICALS PUBLIC COMPANY	<b>RECEIVED DATE</b>	: DECEMBER 24, 2024
<b>ADDRESS</b>	: 196 MOO 1 SUK SAWAT ROAD PAK KHLONG BANG PLA KOT PHRA SAMUT CHEDI SAMUT PRAKAN 10290	<b>ANALYTICAL DATE</b>	: DECEMBER 24, 2024 - JANUARY 8, 2025
<b>CONTACT INFORMATION</b>	: TEL : 06 2374 2691 e-mail : safetyofficer@siamchemicals.co.th	<b>ISSUE DATE</b>	: JANUARY 10, 2025
<b>SAMPLING SOURCE</b>	: SIAM CHEMICALS PUBLIC COMPANY	<b>REPORT NO.</b>	: 2025-U002515
<b>SAMPLE TYPE</b>	: GROUNDWATER	<b>WORK NO.</b>	: 2024-009364
<b>SAMPLING DATE</b>	: DECEMBER 24, 2024	<b>ANALYSIS NO.</b>	: T24BE249-0005
<b>SAMPLING TIME</b>	: 14:30 HOUR		
<b>SAMPLING METHOD</b>	: SUBMERSIBLE PUMP		
<b>SAMPLING BY</b>	: MR ACHITA SAENGJAN		
<b>ANALYZED BY</b>	: MISS WORAKON PADSONGCHAN		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			MW3 (โรงบรรจุ) T24BE249-0005			
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B, ประกาศกรมโรงงานอุตสาหกรรม เรื่อง คู่มือการเก็บตัวอย่างดินและน้ำใต้ดิน ลงวันที่ 20 เมษายน 2560	7.4 (32.2°C)	-	-	-
TEMPERATURE °C	°C	THERMOMETER (AT SITE) SM: PART 2550 B	32.2	-	-	-
ELECTRICAL CONDUCTIVITY <sup>b</sup>	µS/cm	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2510 B AND 1060 B	5,200 (32.2°C)	-	0.1	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	2.4	-	0.1	-
TOTAL PETROLEUM HYDROCARBON*						
TPH (C <sub>5</sub> -C <sub>9</sub> ) <sup>c</sup>	mg/L	PURGE AND TRAP, GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (US EPA 2003: 5030C AND 2018: 8260D)	ND	≤ 14	0.040	-
TPH (C <sub>9</sub> -C <sub>25</sub> ) <sup>c</sup>	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8016D)	ND	≤ 1.7	0.016	-
TPH (C <sub>10</sub> -C <sub>25</sub> ) <sup>c</sup>	mg/L	GAS CHROMATOGRAPHIC (FID) METHOD (US EPA 2003: 8016D)	ND	≤ 0.1	0.042	-
VOLATILE ORGANIC COMPOUNDS						
ACETONE <sup>c</sup>	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.0010	≤ 230	-	0.0010
TOLUENE <sup>a</sup>	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.0002	≤ 5.0	-	0.0002



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			MW3 (โรงงานฯ) T248E249-0005			
XYLENE (TOTAL) <sup>a</sup>	mg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.0006	≤ 24	-	0.0006
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN			

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

REGULATORY STANDARD : NOTIFICATION OF MINISTRY OF INDUSTRY IN PRESCRIBING THE CRITERIA ON CONTAMINATION IN SOIL AND GROUNDWATER, THE EXAMINATION OF SOIL AND GROUNDWATER QUALITY, INFORMATION INCLUDING MAKING THE REPORT OF THE RESULT OF SOIL AND GROUNDWATER QUALITY EXAMINATION, AND THE REPORT WHICH SHALL BE PROPOSED THE MEASUREMENT TO CONTROL AND REDUCE THE CONTAMINATION IN SOIL AND GROUNDWATER B.E. 2559 (2016), PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.133, SPECIAL PART 275D DATED NOVEMBER 29, B.E.2559 (2016).

\* : SEE ADDITIONAL ANALYSIS REPORT

ND : NOT DETECTED.

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR