

ภาคผนวก ข

ใบรายงานผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : JANUARY 2, 2025
SAMPLING TIME : 11:10 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM
RECEIVED DATE : JANUARY 3, 2025
ANALYTICAL DATE : JANUARY 3-8, 2025
ISSUE DATE : JANUARY 13, 2025
REPORT NO. : 2025-U002827
WORK NO. : 2019-002022
ANALYSIS NO. : T25AA026-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AA026-0001		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	6.8 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	37.4	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	213	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	268	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	110	-	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	5,640	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD(SM: PART 4500 -S ²⁻ D)	0.07	-	0.02
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	38	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AA026-0001		
CYANIDE ^c	mg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN- C AND PART 4500-CN- E)	0.012	0.005	0.020
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			GREY/TURBID BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

CYANIDE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-01-001

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : FEBRUARY 6, 2025
SAMPLING TIME : 09:10 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : FEBRUARY 7, 2025
ANALYTICAL DATE : FEBRUARY 7-14, 2025
ISSUE DATE : FEBRUARY 18, 2025
REPORT NO. : 2025-U013043
WORK NO. : 2019-002022
ANALYSIS NO. : T25AC544-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AC544-0001		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	6.5 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	38.2	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	331	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	468	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	73.9	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	6,240	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	1.94	-	0.02
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	24	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AC544-0001		
CYANIDE ^c	mg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 0.005	0.005	0.020
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			BROWN/TURBID BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

RELEASE ORDER NO. : EV-06-02-002

Wibailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : JUNE 16, 2025
SAMPLING TIME : 09:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS PARICHAT TONGBAI

RECEIVED DATE : JUNE 17, 2025
ANALYTICAL DATE : JUNE 17-20, 2025
ISSUE DATE : JULY 15, 2025
REPORT NO. : 2025-U064519
WORK NO. : 2019-002022
ANALYSIS NO. : T25AN152-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AN152-0001	
TOTAL SOLIDS	mg/L	TOTAL SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 B)	5,280	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			BROWN/TURBID BROWN	

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

RELEASE ORDER NO. : EV-16-06-004

Wilailak Srirach

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : MARCH 6, 2025
SAMPLING TIME : 08:50 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MARCH 7, 2025
ANALYTICAL DATE : MARCH 7-12, 2025
ISSUE DATE : MARCH 18, 2025
REPORT NO. : 2025-U022590
WORK NO. : 2019-002022
ANALYSIS NO. : T25AE889-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AE889-0001		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	6.8 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	37.5	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	243	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	348	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	97.1	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	6,071	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD(SM: PART 4500 -S ²⁻ D)	0.42	-	0.02
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	25	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AE889-0001		
CYANIDE ^c	mg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	0.022	0.005	0.020
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID GREY		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

RELEASE ORDER NO. : EV-06-03-002

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : APRIL 3, 2025
SAMPLING TIME : 09:35 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : APRIL 3, 2025
ANALYTICAL DATE : APRIL 3-10, 2025
ISSUE DATE : APRIL 18, 2025
REPORT NO. : 2025-U032955
WORK NO. : 2019-002022
ANALYSIS NO. : T25AH269-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AH269-0001		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	8.2 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	39.5	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	202	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	376	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	26.1	-	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,707	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD(SM: PART 4500 -S ²⁻ D)	0.12	-	0.02
CYANIDE ^c	mg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	0.024	0.005	0.020
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	16	-	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

RELEASE ORDER NO. : EV-03-04-001

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : MAY 2, 2025
SAMPLING TIME : 08:50 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM
RECEIVED DATE : MAY 3, 2025
ANALYTICAL DATE : MAY 3-9, 2025
ISSUE DATE : MAY 15, 2025
REPORT NO. : 2025-U041929
WORK NO. : 2019-002022
ANALYSIS NO. : T25AJ464-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AJ464-0002		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	7.5 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	35.9	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	332	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	508	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	118	-	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,669	-	25
SULPHIDE ^b	mg/L	METHYLENE BLUE METHOD(SM: PART 4500 -S ²⁻ D)	0.28	-	0.02
CYANIDE ^c	mg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 0.020	0.005	0.020
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	37	-	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID YELLOW		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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RELEASE ORDER NO. : EV-02-05-001

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY			RECEIVED DATE	: MAY 3, 2025
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED			ANALYTICAL DATE	: MAY 3-11, 2025
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230			ISSUE DATE	: MAY 16, 2025
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th			REPORT NO.	: 2025-U041928
SAMPLING SOURCE	: -			WORK NO.	: 2019-002022
SAMPLE TYPE	: WASTEWATER			ANALYSIS NO.	: T25AJ464-0001
SAMPLING DATE	: MAY 2, 2025				
SAMPLING TIME	: 08:50 HOUR				
SAMPLING METHOD	: GRAB				
SAMPLING BY	: MR THANADET WANSANOR				
ANALYZED BY	: MISS NADNAPA KAMOLBOON				

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AJ464-0001		
METALS					
MERCURY	mg/L Hg	COLD VAPOUR AAS METHOD (SM: PART 3112 B)	< 0.0005	0.0005	0.0020
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			YELLOW		

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

RELEASE ORDER NO. : EV-02-05-001

(MR. BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : JUNE 16, 2025
SAMPLING TIME : 09:30 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM
RECEIVED DATE : JUNE 17, 2025
ANALYTICAL DATE : JUNE 17-23, 2025
ISSUE DATE : JUNE 26, 2025
REPORT NO. : 2025-U057613
WORK NO. : 2019-002022
ANALYSIS NO. : T25AN152-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AN152-0001		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500 -H ⁺ B)	7.2 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	36.4	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	286	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	599	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	292	-	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,840	-	25
SULPHIDE ^b	mg/L	METHYLENE BLUE METHOD(SM: PART 4500 -S ²⁻ D)	0.16	-	0.02
CYANIDE ^c	mg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	0.031	0.005	0.020
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	142	-	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			BROWN/TURBID BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

RELEASE ORDER NO. : EV-16-06-004

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JANUARY 2, 2025
SAMPLING TIME : 10:50 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : JANUARY 3, 2025
ANALYTICAL DATE : JANUARY 3-8, 2025
ISSUE DATE : JANUARY 13, 2025
REPORT NO. : 2025-U002831
WORK NO. : 2019-002022
ANALYSIS NO. : T25AA026-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AA026-0005		
pH °	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.6 (25°C)	-	-
TEMPERATURE °	°C	THERMOMETER (AT SITE) SM: PART 2550 B	27.3	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	67.7	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	9.4	-	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,780	-	25
SULPHIDE °	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	< 0.02	-	0.02
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.8	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AA026-0005		
CYANIDE ^c	mg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 0.005	0.005	0.020
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF DETECTION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-01-001

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 6, 2025
SAMPLING TIME : 11:15 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : FEBRUARY 7, 2025
ANALYTICAL DATE : FEBRUARY 7-14, 2025
ISSUE DATE : FEBRUARY 18, 2025
REPORT NO. : 2025-U013048
WORK NO. : 2019-002022
ANALYSIS NO. : T25AC544-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AC544-0005		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.7 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	28.9	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.3	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	85.3	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	7.9	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	38,820	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	< 0.02	-	0.02
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.7	-	3

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AC544-0005		
CYANIDE ^c	mg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 0.005	0.005	0.020
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-02-002

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MARCH 6, 2025
SAMPLING TIME : 09:40 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MARCH 7, 2025
ANALYTICAL DATE : MARCH 7-12, 2025
ISSUE DATE : MARCH 18, 2025
REPORT NO. : 2025-U022596
WORK NO. : 2019-002022
ANALYSIS NO. : T25AE889-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AE889-0006		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	32.5	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.4	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	88.0	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	24.5	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	39,320	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	0.03	-	0.02
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.8	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AE889-0006		
CYANIDE ^c	mg/L CN-	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN- C AND PART 4500-CN- E)	< 0.005	0.005	0.020
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.
RELEASE ORDER NO. : EV-06-03-002

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : APRIL 3, 2025
SAMPLING TIME : 09:50 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : APRIL 3, 2025
ANALYTICAL DATE : APRIL 3-10, 2025
ISSUE DATE : APRIL 18, 2025
REPORT NO. : 2025-U032964
WORK NO. : 2019-002022
ANALYSIS NO. : T25AH269-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AH269-0005		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.1	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	87.1	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	6.9	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	36,060	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	0.02	-	0.02
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	1.4	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AH269-0005		
CYANIDE ^c	mg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN: C AND PART 4500-CN: E)	< 0.005	0.005	0.020
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-03-04-001

Wibubk Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 2, 2025
SAMPLING TIME : 09:30 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM
RECEIVED DATE : MAY 3, 2025
ANALYTICAL DATE : MAY 3-9, 2025
ISSUE DATE : MAY 16, 2025
REPORT NO. : 2025-U041934
WORK NO. : 2019-002022
ANALYSIS NO. : T25AJ464-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AJ464-0007		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.5	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	93.4	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	12.6	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	38,580	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	< 0.02	-	0.02
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AJ464-0007		
CYANIDE ^c	mg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 0.005	0.005	0.020
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.
RELEASE ORDER NO. : EV-02-05-001

Wilailak Simuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 2, 2025
SAMPLING TIME : 09:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NADNAPA KAMOLBOON
RECEIVED DATE : MAY 3, 2025
ANALYTICAL DATE : MAY 3-11, 2025
ISSUE DATE : MAY 16, 2025
REPORT NO. : 2025-U041935
WORK NO. : 2019-002022
ANALYSIS NO. : T25AJ464-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AJ464-0008		
METALS					
MERCURY	mg/L Hg	COLD VAPOUR AAS METHOD (SM: PART 3112 B)	< 0.0005	0.0005	0.0020
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			WHITE/TURBID		
SEDIMENT			WHITE		

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

RELEASE ORDER NO. : EV-02-05-001

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY		
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED		
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230		
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th		
SAMPLING SOURCE	: -		
SAMPLE TYPE	: EFFLUENT	RECEIVED DATE	: JUNE 17, 2025
SAMPLING DATE	: JUNE 16, 2025	ANALYTICAL DATE	: JUNE 17-23, 2025
SAMPLING TIME	: 10:00 HOUR	ISSUE DATE	: JUNE 26, 2025
SAMPLING METHOD ^c	: GRAB	REPORT NO.	: 2025-U057623
SAMPLING BY ^c	: MR THANADET WANSANOR	WORK NO.	: 2019-002022
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM	ANALYSIS NO.	: T25AN152-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AN152-0005		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.7 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.9	-	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	72.0	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	11.5	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	32,560	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	< 0.02	-	0.02
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	1.2	-	3

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T2SAN1S2-0005		
CYANIDE ^c	mg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN: C AND PART 4500-CN: E)	< 0.005	0.005	0.020
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.
RELEASE ORDER NO. : EV-16-06-004

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JUNE 16, 2025
SAMPLING TIME : 10:00 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS PARICHAT TONGBAI

RECEIVED DATE : JUNE 17, 2025
ANALYTICAL DATE : JUNE 17-20, 2025
ISSUE DATE : JULY 15, 2025
REPORT NO. : 2025-U064520
WORK NO. : 2019-002022
ANALYSIS NO. : T25AN152-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AN152-0005	
TOTAL SOLIDS	mg/L	TOTAL SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 B)	35,880	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

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

RELEASE ORDER NO. : EV-16-06-004

Wibibk Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	RECEIVED DATE	: JANUARY 3, 2025
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	ANALYTICAL DATE	: JANUARY 3-8, 2025
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	ISSUE DATE	: JANUARY 13, 2025
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	REPORT NO.	: 2025-U002832
SAMPLING SOURCE	: -	WORK NO.	: 2019-002022
SAMPLE TYPE	: EFFLUENT	ANALYSIS NO.	: T25AA026-0006
SAMPLING DATE	: JANUARY 2, 2025		
SAMPLING TIME	: 10:30 HOUR		
SAMPLING METHOD ^c	: GRAB		
SAMPLING BY ^c	: MR THANADET WANSANOR		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AA026-0006		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.7 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.6	-	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	34.0	0.1	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	80.3	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	11.3	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,960	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	< 0.02	-	0.02
NITRATE ^c	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	3.90	0.09	-
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.7	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AA026-0006		
METALS					
LEAD ^c	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF DETECTION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-01-001

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JANUARY 9, 2025
SAMPLING TIME : 09:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KANNIKAR SUMLEETHA
RECEIVED DATE : JANUARY 9, 2025
ANALYTICAL DATE : JANUARY 9-13, 2025
ISSUE DATE : JANUARY 16, 2025
REPORT NO. : 2025-U003854
WORK NO. : 2019-002022
ANALYSIS NO. : T25AA353-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AA353-0005	
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	32.2	-
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	34,900	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.8	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-09-01-003

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY			RECEIVED DATE	: FEBRUARY 7, 2025
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED			ANALYTICAL DATE	: FEBRUARY 7-13, 2025
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230			ISSUE DATE	: FEBRUARY 18, 2025
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th			REPORT NO.	: 2025-U013049
SAMPLING SOURCE	: -			WORK NO.	: 2019-002022
SAMPLE TYPE	: EFFLUENT			ANALYSIS NO.	: T25AC544-0006
SAMPLING DATE	: FEBRUARY 6, 2025				
SAMPLING TIME	: 11:10 HOUR				
SAMPLING METHOD °	: GRAB				
SAMPLING BY °	: MR THANADET WANSANOR				
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM				

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AC544-0006		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	33.3	-	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	35.6	0.1	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.6	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	80.5	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	7.3	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	38,940	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	< 0.02	-	0.02
NITRATE ^c	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	16.7	0.09	0.50
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AC544-0006		
METALS					
LEAD ^c	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-02-002

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	RECEIVED DATE	: FEBRUARY 13, 2025
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	ANALYTICAL DATE	: FEBRUARY 13-18, 2025
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	ISSUE DATE	: FEBRUARY 24, 2025
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	REPORT NO.	: 2025-U014996
SAMPLING SOURCE	: -	WORK NO.	: 2019-002022
SAMPLE TYPE	: EFFLUENT	ANALYSIS NO.	: T25AC978-0005
SAMPLING DATE	: FEBRUARY 13, 2025		
SAMPLING TIME	: 09:40 HOUR		
SAMPLING METHOD	: GRAB		
SAMPLING BY	: MR THANADET WANSANOR		
ANALYZED BY	: MISS KANNIKAR SUMLEETHA		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AC978-0005	
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.6 (25°C)	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	33.2	-
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	38,840	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	3.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-13-02-004


.....
(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY			RECEIVED DATE	: MARCH 7, 2025
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED			ANALYTICAL DATE	: MARCH 7-12, 2025
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230			ISSUE DATE	: MARCH 18, 2025
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th			REPORT NO.	: 2025-U022599
SAMPLING SOURCE	: -			WORK NO.	: 2019-002022
SAMPLE TYPE	: EFFLUENT			ANALYSIS NO.	: T25AE889-0008
SAMPLING DATE	: MARCH 6, 2025				
SAMPLING TIME	: 10:10 HOUR				
SAMPLING METHOD °	: GRAB				
SAMPLING BY °	: MR THANADET WANSANOR				
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM				

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AE889-0008		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	33.9	-	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	27.8	0.1	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	81.6	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	10.4	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	40,480	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	0.02	-	0.02
NITRATE ^c	mg/L NO ₃	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ E)	10.2	0.09	0.50
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.8	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AE889-0008		
METALS					
LEAD ^c	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-03-002

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MARCH 13, 2025
SAMPLING TIME : 10:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KANNIKAR SUMLEETHA

RECEIVED DATE : MARCH 14, 2025
ANALYTICAL DATE : MARCH 14-19, 2025
ISSUE DATE : MARCH 25, 2025
REPORT NO. : 2025-U025324
WORK NO. : 2019-002022
ANALYSIS NO. : T25AF460-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AF460-0005	
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.4 (25°C)	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	32.9	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,560	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-13-03-004

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY		
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED		
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230		
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th		
SAMPLING SOURCE	: -		
SAMPLE TYPE	: EFFLUENT	RECEIVED DATE	: APRIL 3, 2025
SAMPLING DATE	: APRIL 3, 2025	ANALYTICAL DATE	: APRIL 3-16, 2025
SAMPLING TIME	: 10:10 HOUR	ISSUE DATE	: APRIL 18, 2025
SAMPLING METHOD °	: GRAB	REPORT NO.	: 2025-U032965
SAMPLING BY °	: MR THANADET WANSANOR	WORK NO.	: 2019-002022
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM	ANALYSIS NO.	: T25AH269-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AH269-0006		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	8.0 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	36.8	-	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	36.3	0.1	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	65.0	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	12.3	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	36,260	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	0.02	-	0.02
NITRATE ^c	mg/L NO ₃ ⁻	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	20.1	0.09	0.50
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AH269-0006		
METALS					
LEAD ^c	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-03-04-001

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : APRIL 10, 2025
SAMPLING TIME : 09:20 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KANNIKAR SUMLEETHA

RECEIVED DATE : APRIL 11, 2025
ANALYTICAL DATE : APRIL 11-22, 2025
ISSUE DATE : APRIL 25, 2025
REPORT NO. : 2025-U035223
WORK NO. : 2019-002022
ANALYSIS NO. : T25A1019-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25A1019-0005	
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	33.9	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	39,720	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.7	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW	

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-10-04-003

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 2, 2025
SAMPLING TIME : 09:55 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MAY 3, 2025
ANALYTICAL DATE : MAY 3-9, 2025
ISSUE DATE : MAY 16, 2025
REPORT NO. : 2025-U041936
WORK NO. : 2019-002022
ANALYSIS NO. : T25AJ464-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AJ464-0009		
pH ^c	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	33.8	-	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	34.4	0.1	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	85.3	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	11.1	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	38,800	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	< 0.02	-	0.02
NITRATE ^c	mg/L NO ₃	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	2.39	0.09	0.50
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AJ464-0009		
METALS					
LEAD ^c	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-05-001

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 13, 2025
SAMPLING TIME : 10:40 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KANNIKAR SUMLEETHA

RECEIVED DATE : MAY 14, 2025
ANALYTICAL DATE : MAY 14-16, 2025
ISSUE DATE : MAY 22, 2025
REPORT NO. : 2025-U045197
WORK NO. : 2019-002022
ANALYSIS NO. : T25AK236-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AK236-0005	
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.6 (25°C)	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	32.4	-
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,420	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN	

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-13-05-004

Wilailak Srirach

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JUNE 16, 2025
SAMPLING TIME : 10:20 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : JUNE 17, 2025
ANALYTICAL DATE : JUNE 17-23, 2025
ISSUE DATE : JUNE 26, 2025
REPORT NO. : 2025-U057625
WORK NO. : 2019-002022
ANALYSIS NO. : T25AN152-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AN152-0006		
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	-	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	34.7	-	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	26.4	0.1	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	78.4	-	40.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM. 103 TO 105 °C (SM: PART 2540 D)	7.5	-	5.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	32,700	-	25
SULPHIDE ^c	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S ²⁻ D)	< 0.02	-	0.02
NITRATE ^c	mg/L NO ₃	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	< 0.50	0.09	0.50
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	1.4	-	3

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AN152-0006		
METALS					
LEAD ^c	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-16-06-004

Wibibh Simuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 13, 2025
SAMPLING TIME : 10:40 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KANNIKAR SUMLEETHA
RECEIVED DATE : MAY 14, 2025
ANALYTICAL DATE : MAY 14-16, 2025
ISSUE DATE : MAY 22, 2025
REPORT NO. : 2025-U045197
WORK NO. : 2019-002022
ANALYSIS NO. : T25AK236-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AK236-0005	
pH ^a	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.6 (25°C)	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	32.4	-
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,420	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN	

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-13-05-004

Wilailak Srirach

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : JANUARY 2, 2025
SAMPLING TIME : 08:45 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : JANUARY 3, 2025
ANALYTICAL DATE : JANUARY 3-17, 2025
ISSUE DATE : JANUARY 20, 2025
REPORT NO. : 2025-U004561
WORK NO. : 2019-002022
ANALYSIS NO. : T25AA028-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AA028-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.7 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.005	0.020
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	26.8	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	30.7	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.1	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.2	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	52.0	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	7.3	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	32,660	-	25
CYANIDE	µg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	14.6	0.50	-
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	10	-
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.6	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AA028-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.150	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-01-001



(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : JANUARY 9, 2025
SAMPLING TIME : 09:45 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : JANUARY 9, 2025
ANALYTICAL DATE : JANUARY 9-13, 2025
ISSUE DATE : JANUARY 16, 2025
REPORT NO. : 2025-U003855
WORK NO. : 2019-002022
ANALYSIS NO. : T25AA353-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW006. 500 M OFFSHORE (JETTY) T25AA353-0006	
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	27.1	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	31,840	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.7	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-09-01-003

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY

CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED

ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230

CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th

SAMPLING SOURCE : -

SAMPLE TYPE : SEAWATER

SAMPLING DATE : FEBRUARY 6, 2025

SAMPLING TIME : 09:50 HOUR

SAMPLING METHOD : COMPOSITE

SAMPLING BY : MR. THANADET WANSANOR

ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : FEBRUARY 7, 2025

ANALYTICAL DATE : FEBRUARY 7-26, 2025

ISSUE DATE : FEBRUARY 26, 2025

REPORT NO. : 2025-U016283

WORK NO. : 2019-002022

ANALYSIS NO. : T25AC547-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AC547-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.005	0.020
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	27.4	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	30.3	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.0	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.2	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	74.0	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	7.8	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,200	-	25
CYANIDE	µg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	15.9	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.6	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AC547-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-02-002



(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : FEBRUARY 13, 2025
SAMPLING TIME : 09:55 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : FEBRUARY 13, 2025
ANALYTICAL DATE : FEBRUARY 13-18, 2025
ISSUE DATE : FEBRUARY 24, 2025
REPORT NO. : 2025-U014998
WORK NO. : 2019-002022
ANALYSIS NO. : T25AC978-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW006. 500 M OFFSHORE (JETTY) T25AC978-0006	
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	8.0 (25°C)	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	29.5	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,860	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-13-02-004


.....
(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : MARCH 6, 2025
SAMPLING TIME : 10:30 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MARCH 7, 2025
ANALYTICAL DATE : MARCH 7-20, 2025
ISSUE DATE : MARCH 25, 2025
REPORT NO. : 2025-U025348
WORK NO. : 2019-002022
ANALYSIS NO. : T25AE892-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AE892-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.005	0.020
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30.9	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	27.4	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	4.8	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.2	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	65.6	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	8.6	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	37,160	-	25
CYANIDE	µg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	10.2	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.8	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AE892-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-03-002

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : MARCH 13, 2025
SAMPLING TIME : 10:50 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR. THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MARCH 14, 2025
ANALYTICAL DATE : MARCH 14-19, 2025
ISSUE DATE : MARCH 25, 2025
REPORT NO. : 2025-U025325
WORK NO. : 2019-002022
ANALYSIS NO. : T25AF460-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW006. 500 M OFFSHORE (JETTY) T25AF460-0006	
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	29.5	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	34,660	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-13-03-004


 (MRS PIYAPAT SUTTAMANUTWONG)
 LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY		
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED		
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230		
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th		
SAMPLING SOURCE	: -		
SAMPLE TYPE	: SEAWATER	RECEIVED DATE	: APRIL 3, 2025
SAMPLING DATE	: APRIL 3, 2025	ANALYTICAL DATE	: APRIL 3-23, 2025
SAMPLING TIME	: 10:25 HOUR	ISSUE DATE	: APRIL 25, 2025
SAMPLING METHOD	: COMPOSITE	REPORT NO.	: 2025-U035948
SAMPLING BY	: MR THANADET WANSANOR	WORK NO.	: 2019-002022
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM	ANALYSIS NO.	: T25AH271-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AH271-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.001	0.001	0.005
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30.2	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	30.5	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.4	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.0	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	63.4	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	7.8	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,620	-	25
CYANIDE	µg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	2.30	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AH271-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-03-04-001

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : APRIL 10, 2025
SAMPLING TIME : 09:00 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : APRIL 11, 2025
ANALYTICAL DATE : APRIL 11-22, 2025
ISSUE DATE : APRIL 25, 2025
REPORT NO. : 2025-U035224
WORK NO. : 2019-002022
ANALYSIS NO. : T25AI019-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW006. 500 M OFFSHORE (JETTY) T25AI019-0006	
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	8.0 (25°C)	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30.6	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,960	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.7	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-10-04-003

Wilailak Simuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	RECEIVED DATE	: MAY 3, 2025
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	ANALYTICAL DATE	: MAY 3-16, 2025
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	ISSUE DATE	: MAY 20, 2025
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	REPORT NO.	: 2025-U043161
SAMPLING SOURCE	: -	WORK NO.	: 2019-002022
SAMPLE TYPE	: SEAWATER	ANALYSIS NO.	: T25AJ461-0001
SAMPLING DATE	: MAY 2, 2025		
SAMPLING TIME	: 10:25 HOUR		
SAMPLING METHOD	: COMPOSITE		
SAMPLING BY	: MR THANADET WANSANOR		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AJ461-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.001	0.005
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.6	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	28.8	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.7	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.7	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	85.3	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	19.0	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	34,740	-	25
CYANIDE	µg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	3.66	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AJ461-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	1.03	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-05-001

Wibulak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : MAY 13, 2025
SAMPLING TIME : 11:00 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MAY 14, 2025
ANALYTICAL DATE : MAY 14-16, 2025
ISSUE DATE : MAY 22, 2025
REPORT NO. : 2025-U045200
WORK NO. : 2019-002022
ANALYSIS NO. : T25AK236-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW006. 500 M OFFSHORE (JETTY) T25AK236-0006	
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.1	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	37,240	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.6	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN	

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-13-05-004

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY

CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED

ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230

CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th

SAMPLING SOURCE : -

SAMPLE TYPE : SEAWATER

SAMPLING DATE : JUNE 16, 2025

SAMPLING TIME : 10:40 HOUR

SAMPLING METHOD : COMPOSITE

SAMPLING BY : MR THANADET WANSANOR

ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : JUNE 17, 2025

ANALYTICAL DATE : JUNE 17-27, 2025

ISSUE DATE : JULY 3, 2025

REPORT NO. : 2025-U059327

WORK NO. : 2019-002022

ANALYSIS NO. : T25AN153-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AN153-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.7 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.001	0.005
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30.8	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	25.0	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.0	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.9	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	68.8	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	6.3	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	29,720	-	25
CYANIDE	µg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	15.0	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	2.7	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AN153-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.340	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			BROWN		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-16-06-004

Wibilds Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : JUNE 19, 2025
SAMPLING TIME : 10:30 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : JUNE 20, 2025
ANALYTICAL DATE : JUNE 20-27, 2025
ISSUE DATE : JUNE 30, 2025
REPORT NO. : 2025-U059291
WORK NO. : 2019-002022
ANALYSIS NO. : T25AN557-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW006. 500 M OFFSHORE (JETTY) T25AN557-0006	
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.3	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	29,620	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-19-06-005

Wilailak Sriskuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : JANUARY 2, 2025
SAMPLING TIME : 09:50 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : JANUARY 3, 2025
ANALYTICAL DATE : JANUARY 3-17, 2025
ISSUE DATE : JANURAY 20, 2025
REPORT NO. : 2025-U004562
WORK NO. : 2019-002022
ANALYSIS NO. : T25AA028-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AA028-0002		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	27.1	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	31.0	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.4	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	0.9	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	59.8	-	40.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	33,190	-	25
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	12.6	0.50	-
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	10	-
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AA028-0002		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.240	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-01-001

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : FEBRUARY 6, 2025
SAMPLING TIME : 10:40 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : FEBRUARY 7, 2025
ANALYTICAL DATE : FEBRUARY 7-26, 2025
ISSUE DATE : FEBRUARY 26, 2025
REPORT NO. : 2025-U016284
WORK NO. : 2019-002022
ANALYSIS NO. : T25AC547-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AC547-0002		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	28.4	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	30.5	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.6	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.4	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	67.6	-	40.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,814	-	25
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	9.51	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AC547-0002		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-02-002

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : FEBRUARY 6, 2025
SAMPLING TIME : 10:20 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KANNIKAR SUMLEETHA

RECEIVED DATE : FEBRUARY 7, 2025
ANALYTICAL DATE : FEBRUARY 7-20, 2025
ISSUE DATE : FEBRUARY 26, 2025
REPORT NO. : 2025-U016285
WORK NO. : 2019-002022
ANALYSIS NO. : T25AC547-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW008 : CRUDE SEA BERTH T25AC547-0003		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	28.2	-	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.3	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.4	0.5	-
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-02-002

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY		
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED		
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230		
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th		
SAMPLING SOURCE	: -		
SAMPLE TYPE	: SEAWATER	RECEIVED DATE	: MARCH 7, 2025
SAMPLING DATE	: MARCH 6, 2025	ANALYTICAL DATE	: MARCH 7-20, 2025
SAMPLING TIME	: 10:50 HOUR	ISSUE DATE	: MARCH 25, 2025
SAMPLING METHOD	: COMPOSITE	REPORT NO.	: 2025-U025351
SAMPLING BY	: MR THANADET WANSANOR	WORK NO.	: 2019-002022
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM	ANALYSIS NO.	: T25AE892-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AE892-0002		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.8 (25°C)	-	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	29.7	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	27.0	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	4.8	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	0.7	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	60.8	-	40.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	34,980	-	25
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	8.17	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.6	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AE892-0002		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-03-002

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER **RECEIVED DATE** : MARCH 7, 2025
SAMPLING DATE : MARCH 6, 2025 **ANALYTICAL DATE** : MARCH 7, 2025
SAMPLING TIME : 10:50 HOUR **ISSUE DATE** : MARCH 25, 2025
SAMPLING METHOD : COMPOSITE **REPORT NO.** : 2025-U025353
SAMPLING BY : MR THANADET WANSANOR **WORK NO.** : 2019-002022
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM **ANALYSIS NO.** : T25AE892-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			LBW007 : BERTH ISLAND T25AE892-0003	
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	3.6	1.0
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

RELEASE ORDER NO. : EV-06-03-002

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : MARCH 6, 2025
SAMPLING TIME : 11:10 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KANNIKAR SUMLEETHA

RECEIVED DATE : MARCH 7, 2025
ANALYTICAL DATE : MARCH 7-20, 2025
ISSUE DATE : MARCH 25, 2025
REPORT NO. : 2025-U025355
WORK NO. : 2019-002022
ANALYSIS NO. : T25AE892-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW008 : CRUDE SEA BERTH T25AE892-0004		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	7.9 (25°C)	-	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	29.6	-	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	4.7	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.2	0.5	-
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.7	-	3
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-03-002

Wibubk Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : APRIL 3, 2025
SAMPLING TIME : 11:30 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : APRIL 3, 2025
ANALYTICAL DATE : APRIL 3-23, 2025
ISSUE DATE : APRIL 25, 2025
REPORT NO. : 2025-U035949
WORK NO. : 2019-002022
ANALYSIS NO. : T25AH271-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AH271-0002		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	8.0 (25°C)	-	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.0	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	31.8	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.0	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	0.7	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	66.5	-	40.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	36,180	-	25
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	< 2.00	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.6	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AH271-0002		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			BROWN		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-03-04-001

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : APRIL 3, 2025
SAMPLING TIME : 11:45 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KANNIKAR SUMLEETHA

RECEIVED DATE : APRIL 3, 2025
ANALYTICAL DATE : APRIL 3-17, 2025
ISSUE DATE : APRIL 25, 2025
REPORT NO. : 2025-U035950
WORK NO. : 2019-002022
ANALYSIS NO. : T25AH271-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW008 : CRUDE SEA BERTH T25AH271-0003		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	8.0 (25°C)	-	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.1	-	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.2	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	0.6	0.5	-
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.6	-	3
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-03-04-001

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : MAY 2, 2025
SAMPLING TIME : 11:25 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MAY 3, 2025
ANALYTICAL DATE : MAY 3-16, 2025
ISSUE DATE : MAY 20, 2025
REPORT NO. : 2025-U043163
WORK NO. : 2019-002022
ANALYSIS NO. : T25AJ461-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AJ461-0003		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500 -H+ B)	8.0 (25°C)	-	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30.4	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	29.1	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.7	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	19	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	83.7	-	40.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	34,540	-	25
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	< 2.00	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AJ461-0003		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.220	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-05-001

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : MAY 2, 2025
SAMPLING TIME : 11:10 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KANNIKAR SUMLEETHA

RECEIVED DATE : MAY 3, 2025
ANALYTICAL DATE : MAY 3-14, 2025
ISSUE DATE : MAY 20, 2025
REPORT NO. : 2025-U043164
WORK NO. : 2019-002022
ANALYSIS NO. : T25AJ461-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW008 : CRUDE SEA BERTH T25AJ461-0004		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500 -H+ B)	8.0 (25°C)	-	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30.5	-	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.6	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.7	0.5	-
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.300	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-05-001

Wibulak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	RECEIVED DATE	: MAY 3, 2025
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	ANALYTICAL DATE	: MAY 3-16, 2025
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	ISSUE DATE	: MAY 20, 2025
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	REPORT NO.	: 2025-U043165
SAMPLING SOURCE	: -	WORK NO.	: 2019-002022
SAMPLE TYPE	: BLANK (SEAWATER)	ANALYSIS NO.	: 2025-FB0644, 2025-TB0540
SAMPLING DATE	: -		
SAMPLING TIME	: -		
SAMPLING METHOD	: -		
SAMPLING BY	: -		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1 2025-FB0644	2 2025-TB0540		
CYANIDE	µg/L CN ⁻	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	< 5	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	< 0.50	< 0.50	0.50	2.00
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.001	< 0.001	0.001	0.005
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	< 10	-	10
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 0.5	< 0.5	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	< 40.0	< 40.0	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	< 1.0	< 1.0	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	< 25	< 25	-	25
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	< 3	< 3	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			1	2		
			2025-FB0644	2025-TB0540		
METALS						
MERCURY	µg/L Hg	US EPA 2005: 245.7, REVISION 2.0, FEBRUARY 2005	< 0.010	< 0.010	0.010	0.020
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	< 0.100	0.100	-
SAMPLE CONDITION						
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	COLOURLESS/CLEAR		
SEDIMENT			-	-		

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

RESULT 1 : FIELD BLANK

RESULT 2 : TRIP BLANK

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : JUNE 16, 2025
SAMPLING TIME : 11:28 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : JUNE 17, 2025
ANALYTICAL DATE : JUNE 17-27, 2025
ISSUE DATE : JULY 3, 2025
REPORT NO. : 2025-U059330
WORK NO. : 2019-002022
ANALYSIS NO. : T25AN153-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AN153-0002		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	8.1 (25°C)	-	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.9	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	26.1	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	4.9	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.3	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	67.2	-	40.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	30,240	-	25
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	17.1	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.8	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW007 : BERTH ISLAND T25AN153-0002		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-16-06-004

Wilailak Srisuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : JUNE 16, 2025
SAMPLING TIME : 11:05 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KANNIKAR SUMLEETHA

RECEIVED DATE : JUNE 17, 2025
ANALYTICAL DATE : JUNE 17-26, 2025
ISSUE DATE : JULY 3, 2025
REPORT NO. : 2025-U059332
WORK NO. : 2019-002022
ANALYSIS NO. : T25AN153-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW008 : CRUDE SEA BERTH T25AN153-0003		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H ⁺ B)	8.0 (25°C)	-	-
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.5	-	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	4.7	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.1	0.5	-
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.8	-	3
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			YELLOW		

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

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-16-06-004

Wibulak Simuk

(MISS WILAILAK SRISUK)
LABORATORY SUPERVISOR



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER **RECEIVED DATE** : APRIL 29, 2025
SAMPLING DATE : APRIL 28, 2025 **ANALYTICAL DATE** : APRIL 29 - MAY 7, 2025
SAMPLING TIME : * **ISSUE DATE** : MAY 14, 2025
SAMPLING METHOD : PLANKTON NET **REPORT NO.** : 2025-U041492
SAMPLING BY : MR THANADET WANSANOR **WORK NO.** : 2019-002022
ANALYZED BY : MISS NAPAPORN PURATAKO **ANALYSIS NO.** : T25AJ115-0001, T25AJ115-0003

PHYTOPLANKTON (UNITS/m ³)	COUNTING UNIT	RESULT	
		SAMPLE NO. 1 10:27 HOUR * T25AJ115-0001	SAMPLE NO. 2 10:12 HOUR * T25AJ115-0003
Division Cyanophyta			
Class Cyanophyceae			
Family Oscillatoriaceae			
<i>Oscillatoria</i> spp.	FILAMENT	0	14,860
Division Chromophyta			
Class Bacillariophyceae			
Family Thalassiosiraceae			
<i>Lauderia annulata</i>	FILAMENT	33,367	12,686
<i>Thalassiosira</i> spp.	CELL	146,761	52,536
Family Melosiraceae			
<i>Paralia sulcata</i>	CELL	18,099	52,536
Family Leptocylindraceae			
<i>Leptocylindrus danicus</i>	FILAMENT	0	21,382
Family Coscinodiscaceae			
<i>Coscinodiscus</i> spp.	CELL	0	15,577
Family Rhizosoleniaceae			
<i>Guinardia</i> spp.	CELL	69,564	14,860
<i>Proboscia alata</i>	CELL	0	62,689
<i>Rhizosolenia</i> spp.	CELL	29,536	34,785
Family Hemiaulaceae			
<i>Hemiaulus</i> spp.	CELL	0	19,208
Family Chaetocerotaceae			
<i>Bacteriastrum</i> spp.	FILAMENT	108,649	103,626
<i>Chaetoceros</i> spp.	CELL	722,003,954	305,339,026
Family Lithodsmaceae			
<i>Ditylum</i> spp.	CELL	13,353	9,055
Family Eupodiscaceae			
<i>Odontella</i> spp.	CELL	27,649	10,512



PHYTOPLANKTON (UNITS/m ³)	COUNTING UNIT	RESULT	
		SAMPLE NO. 1 10:27 HOUR * T25AJ115-0001	SAMPLE NO. 2 10:12 HOUR * T25AJ115-0003
Family Thalassionemataceae			
<i>Thalassionema nitzschioides</i>	CELL	52,409	119,214
Family Naviculaceae			
<i>Amphora</i> spp.	CELL	33,367	61,961
<i>Navicula</i> spp.	CELL	91,494	40,220
<i>Pleurosigma</i> spp.	CELL	1,241,822	1,265,648
Family Bacillariaceae			
<i>Bacillaria paxillifer</i>	CELL	304,016	769,251
<i>Nitzschia</i> spp.	CELL	50,522	0
<i>N. longissima</i>	CELL	0	25,730
Family Surirellaceae			
<i>Entomoneis</i> spp.	CELL	90,550	105,083
<i>Surirella</i> spp.	CELL	5,333,287	1,781,982
Class Dictyochophyceae			
Family Dictyochophyceae			
<i>Dictyocha</i> spp.	CELL	0	19,208
Class Dinophyceae			
Family Prorocentraceae			
<i>Prorocentrum</i> spp.	CELL	0	15,577
Family Dinophysiaceae			
<i>Dinophysis</i> spp.	CELL	0	10,512
Family Noctilucaeae			
<i>Noctiluca</i> spp.	CELL	18,099	42,753
Family Ceratiaceae			
<i>Ceratium</i> spp.	CELL	0	4,707
Family Peridiniaceae			
<i>Peridinium</i> spp.	CELL	99,128	93,484
Family Protoperidiniaceae			
<i>Protoperidinium</i> spp.	CELL	61,959	46,384
TOTAL ABUNDANCE	UNITS/m ³	729,827,585	310,165,052
ORGANISMS COUNTED	NUMBER	20	29
SAMPLE CONDITION (VISUAL OBSERVATION)			
COLOUR AND TURBIDITY OF WATER		GREEN/TURBID	GREEN/TURBID
COLOUR OF SEDIMENT		GREEN	GREEN


REMARK : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023 PART 10200 F.

ZOOPLANKTON (UNITS/m ³)	COUNTING UNIT	RESULT	
		SAMPLE NO. 1 10:27 HOUR * T25AJ115-0001	SAMPLE NO. 2 10:12 HOUR * T25AJ115-0003
Phylum Protozoa			
Class Sarcodina			
Foraminifera	INDIVIDUAL	1,671	0
Class Ciliata			
Family Cyttarocylindae			
<i>Favella</i> sp.	INDIVIDUAL	9,471	5,018
Phylum Chaetognatha			
Class Sagittoidea			
Family Sagittidae			
<i>Sagitta</i> sp.	INDIVIDUAL	0	1,847
Phylum Annelida			
Class Polychaeta			
Polychaete Larva	INDIVIDUAL	3,892	8,458
Phylum Arthropoda			
Class Crustacea			
Cyclopoid Copepod	INDIVIDUAL	42,307	37,254
Calanoid Copepod	INDIVIDUAL	53,447	31,174
Harpacticoid Copepod	INDIVIDUAL	12,811	13,213
Nauplius of Copepod	INDIVIDUAL	212,117	175,430
Cerripedia Nauplius	INDIVIDUAL	3,341	793
Zoea	INDIVIDUAL	0	793
Phylum Mollusca			
Class Gastropoda			
Gastropod Larva	INDIVIDUAL	0	793
Class Bivalvia			
Bivalvia Larva	INDIVIDUAL	1,671	15,322

ZOOPLANKTON (UNITS/m ³)	COUNTING UNIT	RESULT	
		SAMPLE NO. 1 10:27 HOUR * T25AJ115-0001	SAMPLE NO. 2 10:12 HOUR * T25AJ115-0003
Phylum Chordata Class Larvacea Family Oikopleuridae <i>Oikopleura</i> sp.	INDIVIDUAL	49,555	31,705
TOTAL ABUNDANCE	UNITS/m ³	390,283	321,800
ORGANISMS COUNTED	NUMBER	10	12
SAMPLE CONDITION (VISUAL OBSERVATION) COLOUR AND TURBIDITY OF WATER COLOUR OF SEDIMENT		GREEN/TURBID GREEN	GREEN/TURBID GREEN

SAMPLE NAME SAMPLE NO. 1 500 METERS OFFSHORE (JETTY)

SAMPLE NO. 2 BERTH ISLAND


.....
(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th
SAMPLING SOURCE : -
SAMPLE TYPE : SEDIMENT
SAMPLING DATE : APRIL 28, 2025
SAMPLING TIME : *
SAMPLING METHOD : PETERSEN GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KRISSANA KOMOLWANICH
RECEIVED DATE : APRIL 29, 2025
ANALYTICAL DATE : APRIL 29 - MAY 2, 2025
ISSUE DATE : MAY 14, 2025
REPORT NO. : 2025-U041494
WORK NO. : 2019-002022
ANALYSIS NO. : T25AJ115-0002, T25AJ115-0004

BENTHOS (INDIVIDUALS/m ²)	RESULT	
	SAMPLE NO. 1 10:30 HOUR * T25AJ115-0002	SAMPLE NO. 2 10:18 HOUR * T25AJ115-0004
Phylum Annelida		
Class Polychaeta		
Family Spionidae	7	7
Family Cossuridae	7	0
TOTAL DENSITY (INDIVIDUALS/m ²)	14	7
AMOUNT OF SPECIES	2	1
SAMPLE CONDITION	CLAY	CLAY

SAMPLE NO. 1 500 METERS OFFSHORE (JETTY)

SAMPLE NO. 2 BERTH ISLAND



(MISS CHAWEEWAN BOONLA)
LABORATORY SUPERVISOR





Your P.O. #: 4510185441
Your Project #: SRT-RF-2025-01

Attention: Tanaphorn Taweeyat

BANGCHAK SRIRACHA REFINING COMPANY
3195/17-29 Rama 4 Road
Klongton, Klongtoey
Bangkok, --
Thailand

Report Date: 07/16/2025
Report #: R8577182
Version: 1 - Final

ANALYTICAL REPORT

BUREAU VERITAS JOB #: C583955

Received: 07/14/2025, 00:00

Sample Matrix: Passive Monitor
Samples Received: 2

Analyses	Quantity	Date Analyzed	Laboratory Method	Analytical Method
Naphthas by NIOSH 1550 - Monitor	2	07/15/2025	NOV4SOP-00001	NIOSH 1550 / 1551
Hydrocarbons by NIOSH 1501 - Monitor	2	07/15/2025	NOV SOP-00005	NIOSH 1501

Remarks:

Report Qualifier - Any general comments can be added to appear here.
This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Please direct all questions regarding this Analytical Report to your Project Manager.
Wendy Lesniak, CS
Email: Wendy.Lesniak@bureauveritas.com
Phone# (248) 344-1770

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
This report is authorized by Shawn Heier, VP & COO North American ENV Laboratories responsible for Michigan Industrial Hygiene laboratory operations.



Bureau Veritas Job #: C583955
Report Date: 07/16/2025

BANGCHAK SRIRACHA REFINING COMPANY
Client Project #: SRT-RF-2025-01
Your P.O. #: 4510185441

ANALYTICAL RESULTS

Client ID:	SRT-RF-2025-01-001					Matrix:	Passive Monitor
Bureau Veritas ID:	ASXR76					Sample Media:	AT 566/3M3500+
Date Sampled:	06/17/2025					Sampling Time (Minutes):	480
ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3 ppm		RL ug	Test Method	Date Analyzed
Benzene	9.7	<0.50	<0.11	<0.034	0.50	NIOSH 1501	07/15/2025
Gasoline	9.2	<30	<6.8	N/A	30	NIOSH 1550 / 1551	07/15/2025
Toluene	9.5	<3.0	<0.66	<0.17	3.0	NIOSH 1501	07/15/2025
Xylenes	7.5	<6.0	<1.7	<0.38	6.0	NIOSH 1501	07/15/2025
THCs as n-Hexane	9.9	<30	<6.3	<1.8	30	NIOSH 1550 / 1551	07/15/2025
RL = Reporting Limit							

Client ID:	SRT-RF-2025-01-BLANK					Matrix:	Passive Monitor
Bureau Veritas ID:	ASXR77					Sample Media:	AT 566/3M3500+
Date Sampled:	06/17/2025						
ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3 ppm		RL ug	Test Method	Date Analyzed
Benzene	9.7	<0.50	N/A	N/A	0.50	NIOSH 1501	07/15/2025
Gasoline	9.2	<30	N/A	N/A	30	NIOSH 1550 / 1551	07/15/2025
Toluene	9.5	<3.0	N/A	N/A	3.0	NIOSH 1501	07/15/2025
Xylenes	7.5	<6.0	N/A	N/A	6.0	NIOSH 1501	07/15/2025
THCs as n-Hexane	9.9	<30	N/A	N/A	30	NIOSH 1550 / 1551	07/15/2025
RL = Reporting Limit							



Bureau Veritas Job #: C583955
Report Date: 07/16/2025

BANGCHAK SRIRACHA REFINING COMPANY
Client Project #: SRT-RF-2025-01
Your P.O. #: 4510185441

GENERAL COMMENTS

Unless otherwise noted below the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and /or do not adversely affect the reported results and 3) the industrial hygiene results have not been blank corrected.

The client provided their pertinent field sampling data on the analysis request paperwork submitted with the samples. Results apply to the sample as received.

Results relate only to the items tested.



Request for Laboratory Analytical Services

IMPORTANT: Date results required: _____

Rush charges authorized? Yes ☒ No ☐

Fax or ☐ E-mail results ☐

E-mail Address: _____

Page: _____

For Lab Use Only

Lab Project #: _____

C583955

Bureau Veritas North America, Inc.

Report results to:	Client Project Number:	SRT-RF-2025-01	Send invoice to: BV Thailand	P.O. No.	4510185441
Name	Tanaphorn Taweeyat		Name	Sathaporn Rungnaparoichai	
Company	Bangchak Sriracha Public Company Limited		Company	Bureau Veritas (Thailand) Co., Ltd.	
Mailing Address	Tanaphorn.taweeyat@bangchak.co.th		Address	2170 New Petchburi Road, 16th Floor, Bangkok Tower Bangkapi, Huaykwang, Bangkok, Thailand	
City, State, Zip	118 Moo 2, Sukhaphibhan 7 Road, Tungsukla, Sriracha, Chonburi 20230		City, State, Zip	10310	
Telephone No.	+66649292822	Fax No.	-		

Special instructions and/or specific regulatory requirements:
(method, limit of detection, etc.)

Asbestos/Soil samples only: Which state are these from? _____

Client Sample Identification	Date Sampled	Time Sampled	Matrix/Media	Air Volume (Liters)	# of Jars	ANALYSIS REQUESTED (List each analyte on the lines below, multiple analytes per line)
SRT-RF-2025-01-001	17-Jun-25	480 mins	AT 566	-	-	Bz, Toluene, Xylene, Gasoline & THC
SRT-RF-2025-01-BLANK	-	-	AT 566	-	-	Bz, Toluene, Xylene, Gasoline & THC

Collected by: Tanaphorn Taweeyat	Date/Time: 11-Jul-25	Collector's Signature: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: 7-14-25
Method of Shipment: _____		Sample Condition on Receipt: _____	
Authorized by: Tanaphorn Taweeyat	Date/Time: 11-Jul-25	Acceptable: <input checked="" type="checkbox"/>	Other: _____
(Signature MUST accompany request)		(Explain) _____	

Ship to:	Detroit Lab	Atlanta Lab
	22345 Roethel Drive	3380 Chastain Meadows Pkwy., Ste 300
	Novi, MI 48375	Kennesaw, GA 30144
	248.344.2652	770.499.7701
	800.806.5887	800.806.5887

Fax: 248.344.2655

Fax: 770.499.7511

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
888.576.7522
847.726.3320

Fax: 847.726.3323

Canadian Clients
1415 Janette Ave
Windsor, ON N8X 1Z1

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas' standard Terms & Conditions. Signing of this Chain of Custody document is acknowledgment & acceptance of our terms available at <http://www.bvlabs.com/terms-and-conditions>



Your Project #: SRT-RF-2025-03

Attention: Theerasak Chompubud

Bangchak Sriacha Public Company Limited
118 Moo2, Sukhaphibhan 7 Rd
Tungsuhkla, Sriracha
Chonburi, --
Thailand 20230

Report Date: 04/03/2025

Report #: R8514221

Version: 1 - Final

ANALYTICAL REPORT

BV LABS JOB #: C533511

Received: 03/27/2025, 00:00

Sample Matrix: Passive Monitor
Samples Received: 6

Analyses	Quantity	Date Analyzed	Laboratory Method	Analytical Method
Naphthas by NIOSH 1550 - Monitor	2	03/31/2025	NOV4SOP-00001	NIOSH 1550 / 1551
Volatiles (VOC) - List 1 -GC/FID-Monitor	6	03/31/2025	NOV SOP-00005	NOV SOP-00005

Remarks:

Report Qualifier - Any general comments can be added to appear here.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Results relate only to the items tested.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Please direct all questions regarding this Analytical Report to your Project Manager.

Wendy Lesniak, CS

Email: Wendy.Lesniak@bureauveritas.com

Phone# (248) 344-1770

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. This report is authorized by Jason Forbes, Director of Operations responsible for Michigan Industrial Hygiene laboratory operations.



BV Labs Job #: C533511
Report Date: 04/03/2025

Bangchak Sriacha Public Company Limited
Client Project #: SRT-RF-2025-03

ANALYTICAL RESULTS

Client ID:	SRT-RF-2025-03-001				Matrix:	Passive Monitor	
BV Labs ID:	APHY22				Sample Media:	AT 566/3M3500+	
Date Sampled:	02/28/2025				Sampling Time (Minutes):	480	
ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3 ppm		RL ug	Test Method	Date Analyzed
Benzene	9.7	<0.50	<0.11	<0.034	0.50	NOV SOP-00005	03/31/2025
THCs as n-Hexane	9.9	<30	<6.3	<1.8	30	NIOSH 1550 / 1551	03/31/2025
RL = Reporting Limit							

Client ID:	SRT-RF-2025-03-002				Matrix:	Passive Monitor	
BV Labs ID:	APHY23				Sample Media:	AT 566/3M3500+	
Date Sampled:	03/07/2025				Sampling Time (Minutes):	897	
ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3 ppm		RL ug	Test Method	Date Analyzed
Benzene	9.7	<0.50	<0.058	<0.018	0.50	NOV SOP-00005	03/31/2025
RL = Reporting Limit							

Client ID:	SRT-RF-2025-03-003				Matrix:	Passive Monitor	
BV Labs ID:	APHY24				Sample Media:	AT 566/3M3500+	
Date Sampled:	03/07/2025				Sampling Time (Minutes):	715	
ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3 ppm		RL ug	Test Method	Date Analyzed
Benzene	9.7	<0.50	<0.072	<0.023	0.50	NOV SOP-00005	03/31/2025
RL = Reporting Limit							

Client ID:	SRT-RF-2025-03-004				Matrix:	Passive Monitor	
BV Labs ID:	APHY25				Sample Media:	AT 566/3M3500+	
Date Sampled:	03/19/2025				Sampling Time (Minutes):	510	
ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3 ppm		RL ug	Test Method	Date Analyzed
Benzene	9.7	<0.50	<0.10	<0.032	0.50	NOV SOP-00005	03/31/2025
RL = Reporting Limit							

Client ID:	SRT-RF-2025-03-005				Matrix:	Passive Monitor	
BV Labs ID:	APHY26				Sample Media:	AT 566/3M3500+	
Date Sampled:	03/20/2025				Sampling Time (Minutes):	581	
ANALYTE	Samp Rate cc/min	Mass ug	Concentration mg/m3 ppm		RL ug	Test Method	Date Analyzed
Benzene	9.7	<0.50	<0.089	<0.028	0.50	NOV SOP-00005	03/31/2025
RL = Reporting Limit							



BV Labs Job #: C533511
Report Date: 04/03/2025

Bangchak Sriacha Public Company Limited
Client Project #: SRT-RF-2025-03

ANALYTICAL RESULTS

Client ID: SRT-RF-2025-03-BLANK					Matrix: Passive Monitor		
BV Labs ID: APHY27					Sample Media: AT 566/3M3500+		
Date Sampled:							
	Samp Rate	Mass	Concentration		RL		Date
ANALYTE	cc/min	ug	mg/m3	ppm	ug	Test Method	Analyzed
Benzene	9.7	<0.50	N/A	N/A	0.50	NOV SOP-00005	03/31/2025
THCs as n-Hexane	9.9	<30	N/A	N/A	30	NIOSH 1550 / 1551	03/31/2025
RL = Reporting Limit							



BV Labs Job #: C533511
Report Date: 04/03/2025

Bangchak Sriacha Public Company Limited
Client Project #: SRT-RF-2025-03

GENERAL COMMENTS

Unless otherwise noted below the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and /or do not adversely affect the reported results and 3) the industrial hygiene results have not been blank corrected.

The client provided their pertinent field sampling data on the analysis request paperwork submitted with the samples. Results apply to the sample as received.

Results relate only to the items tested.



Request for Laboratory Analytical Services

IMPORTANT: Date results required: _____

Rush charges authorized? Yes ☐ No ☐

Fax or ☐ E-mail results _____

E-mail Address: _____

Page: _____

For Lab Use Only

Lab Project #: _____

C533511

Bureau Veritas North America, Inc.

Report results to:	Client Project Number:	SRT-RF-2025-03	Send invoice to: BV Thailand	P.O. No.
Name	Theerasak Chompubud		Name	Sathaporn Rungnaparoichai
Company	Bangchak Sriracha Public Company Limited		Company	Bureau Veritas (Thailand) Co., Ltd.
Mailing Address	Theerasak.chompubud@bangchak.co.th		Address	2170 New Petchburi Road, 16th Floor, Bangkok Tower Bangkapi, Huaykwang, Bangkok, Thailand
	118 Moo 2, Sukhaphibhan 7 Road, Tungsuhkla, Sriracha, Chonburi 20230		City, State, Zip	10310
City, State, Zip				
Telephone No.	+6697-393-0193	Fax No. -		

Special instructions and/or specific regulatory requirements:
(method, limit of detection, etc.)

Asbestos/Soil samples only: Which state are these from?

Client Sample Identification	Date Sampled	Time Sampled	Matrix/Media	Air Volume (Liters)	# of Jars	ANALYSIS REQUESTED (List each analyte on the lines below, multiple analytes per line)
SRT-RF-2025-03-001	28-Feb-25	480 mins	AT 566	-	-	Bz & THC
SRT-RF-2025-03-002	7-Mar-25	897 mins	AT 566	-	-	Bz
SRT-RF-2025-03-003	7-Mar-25	715 mins	AT 566	-	-	Bz
SRT-RF-2025-03-004	19-Mar-25	510 mins	AT 566	-	-	Bz
SRT-RF-2025-03-005	20-Mar-25	581 mins	AT 566	-	-	Bz
SRT-RF-2025-03-Blank	-	-	AT 566	-	-	Bz
						Bz & THC

Collected by: Theerasak C.	Date/Time: 25-Mar-2025	Collector's Signature: Theerasak C.	Date/Time: 25-Mar-2025
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time: 3-27-25
Method of Shipment:		Sample Condition on Receipt:	Date/Time: 1635
Authorized by: Theerasak C.		Acceptable: X	Other:
(Signature MUST accompany request)		(Explain)	

Ship to:

Detroit Lab 22345 Roethel Drive Novi, MI 48375 248.344.2652 800.806.5887	Atlanta Lab 3380 Chastain Meadows Pkwy., Ste 300 Kennesaw, GA 30144 770.499.7701 800.806.5887
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Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
888.576.7522
847.726.3320

Canadian Clients
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