



Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
168 Moo 4, Sattahip-Chachoengsao Road., Bowin, Sriracha, Chonburi Thailand 20230

P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 228466

Date Received : Jan 24, 2022

Date Reported : Feb 01, 2022

Report Number : 2209485-1

Page 1 of 10

Sample Number	228466-1
Sampled Date	Jan 24, 2022 10:30 AM
Sample Description	Surface Water
Location	SW1 : ห้วยมะนาว ก่อนไหลผ่านพื้นที่โครงการ
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	0.06	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.003	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	0.002	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	0.24	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.0008	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	No Standard	No Standard	Based on APHA (2017), Calculated	Bangkok
^[A] Zinc	mg/L	0.003	0.005	<0.005	≤1	≤1	Based on APHA (2017), 3125	Bangkok
Microbiological Testing								
^[A] Fecal Coliform	MPN/100mL	-	-	7000.0	≤4000	No Standard	APHA (2017), 9221 E	Bangkok
^[A] Total Coliform	MPN/100mL	-	-	14000.0	≤20000	No Standard	APHA (2017), 9221 B	Bangkok

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Approved by

Dej Changchon
Senior Manager

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Sample Number	228466-1
Sampled Date	Jan 24, 2022 10:30 AM
Sample Description	Surface Water
Location	SW1 : ห้วยมะนาว ก่อนไหลผ่านพื้นที่โครงการ
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Ammonia Nitrogen *	mg/L	-	0.06	0.15	≤0.5	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤2	≤4	APHA (2017), 5210 B	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	7.1	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Flow rate *	m3/s	-	-	0.079	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.44	≤5	≤5	Based on APHA (2017), 4500-NO3(E)	Rayong
pH at 25 degree C		-	-	7.9	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Temperature *	Degree C	-	-	27.1	(c)	(c)	Based on APHA (2017), 2550 B	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

Dej Changchon
Senior Manager

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168 Moo 4, Sattahip-Chachoengsao Road., Bowin, Sriracha, Chonburi Thailand 2230

P/O :

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TESTING

No.0042

Lot ID: 228466

Date Received : Jan 24, 2022

Date Reported : Feb 01, 2022

Report Number : 2209485-1

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Sample Number	228466-2
Sampled Date	Jan 24, 2022 10:45 AM
Sample Description	Surface Water
Location	SW2 : ห้วยสาธารณะ ก่อนไหลผ่านพื้นที่โครงการ
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	0.14	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.008	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	0.23	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	0.66	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	0.0005	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.03	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	No Standard	No Standard	Based on APHA (2017), Calculated	Bangkok
^[A] Zinc	mg/L	0.003	0.005	0.22	≤1	≤1	Based on APHA (2017), 3125	Bangkok
Microbiological Testing								
^[A] Fecal Coliform	MPN/100mL	-	-	70000.0	≤4000	No Standard	APHA (2017), 9221 E	Bangkok
^[A] Total Coliform	MPN/100mL	-	-	170000.0	≤20000	No Standard	APHA (2017), 9221 B	Bangkok

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Sample Number	228466-2
Sampled Date	Jan 24, 2022 10:45 AM
Sample Description	Surface Water
Location	SW2 : ห้วยสาธารณะ ก่อนไหลผ่านพื้นที่โครงการ
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Ammonia Nitrogen *	mg/L	-	0.06	2.11	≤0.5	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤2	≤4	APHA (2017), 5210 B	Rayong
Cyanide as CN	mg/L	0.001	0.005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Flow rate *	m3/s	-	-	0.470	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.48	≤5	≤5	Based on APHA (2017), 4500-NO3(E)	Rayong
pH at 25 degree C		-	-	7.5	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Temperature *	Degree C	-	-	26.4	(c)	(c)	Based on APHA (2017), 2550 B	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
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(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

D. Chumman.

Dej Changchon
Senior Manager

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Report Number : 2209485-1

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Sample Number	228466-3
Sampled Date	Jan 24, 2022 10:15 AM
Sample Description	Surface Water
Location	SW3 : ห้วยพันเสด็จ ก่อนไหลผ่านพื้นที่โครงการ
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	0.04	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.004	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	0.004	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	0.55	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.05	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	No Standard	No Standard	Based on APHA (2017), Calculated	Bangkok
^[A] Zinc	mg/L	0.003	0.005	0.007	≤1	≤1	Based on APHA (2017), 3125	Bangkok
Microbiological Testing								
^[A] Fecal Coliform	MPN/100mL	-	-	1300.0	≤4000	No Standard	APHA (2017), 9221 E	Bangkok
^[A] Total Coliform	MPN/100mL	-	-	7900.0	≤20000	No Standard	APHA (2017), 9221 B	Bangkok

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D. Chumchon

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Sample Number	228466-3
Sampled Date	Jan 24, 2022 10:15 AM
Sample Description	Surface Water
Location	SW3 : ห้วยพันเสด็จ ก่อนไหลผ่านพื้นที่โครงการ
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Ammonia Nitrogen *	mg/L	-	0.06	0.85	≤0.5	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤2	≤4	APHA (2017), 5210 B	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.3	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Flow rate *	m3/s	-	-	0.194	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.52	≤5	≤5	Based on APHA (2017), 4500-NO3(E)	Rayong
pH at 25 degree C		-	-	7.7	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Temperature *	Degree C	-	-	26.4	(c)	(c)	Based on APHA (2017), 2550 B	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
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(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Approved by

D. Chumman.

Dej Changchon
Senior Manager

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Sample Number	228466-4
Sampled Date	Jan 24, 2022 10:00 AM
Sample Description	Surface Water
Location	SW4 : ห้วยพันเสด็จ บริเวณจุดระบายน้ำทิ้งของโครงการ
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	0.13	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.005	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	0.05	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	<0.01	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	0.42	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.02	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	No Standard	No Standard	Based on APHA (2017), Calculated	Bangkok
^[A] Zinc	mg/L	0.003	0.005	0.06	≤1	≤1	Based on APHA (2017), 3125	Bangkok
Microbiological Testing								
^[A] Fecal Coliform	MPN/100mL	-	-	3300.0	≤4000	No Standard	APHA (2017), 9221 E	Bangkok
^[A] Total Coliform	MPN/100mL	-	-	13000.0	≤20000	No Standard	APHA (2017), 9221 B	Bangkok

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Sample Number	228466-4
Sampled Date	Jan 24, 2022 10:00 AM
Sample Description	Surface Water
Location	SW4 : ห้วยพันเสด็จ บริเวณจุดระบายน้ำทิ้งของโครงการ
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Ammonia Nitrogen *	mg/L	-	0.06	1.40	≤0.5	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤2	≤4	APHA (2017), 5210 B	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	7.5	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Flow rate *	m3/s	-	-	0.313	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	48.6	≤5	≤5	Based on APHA (2017), 4500-NO3(E)	Rayong
pH at 25 degree C		-	-	7.8	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Temperature *	Degree C	-	-	24.8	(c)	(c)	Based on APHA (2017), 2550 B	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

D. Chumman

Dej Changchon
Senior Manager

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Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
168 Moo 4, Sattahip-Chachoengsao Road., Bowin, Sriracha, Chonburi Thailand 20230

P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 228466

Date Received : Jan 24, 2022

Date Reported : Feb 01, 2022

Report Number : 2209485-1

Page 9 of 10

Sample Number	228466-5
Sampled Date	Jan 24, 2022 11:10 AM
Sample Description	Surface Water
Location	SW5 : ห้วยพันเสด็จ หลังผ่านพื้นที่โครงการ
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	0.12	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.007	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	0.06	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	0.48	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.02	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	No Standard	No Standard	Based on APHA (2017), Calculated	Bangkok
^[A] Zinc	mg/L	0.003	0.005	0.07	≤1	≤1	Based on APHA (2017), 3125	Bangkok
Microbiological Testing								
^[A] Fecal Coliform	MPN/100mL	-	-	3300.0	≤4000	No Standard	APHA (2017), 9221 E	Bangkok
^[A] Total Coliform	MPN/100mL	-	-	49000.0	≤20000	No Standard	APHA (2017), 9221 B	Bangkok

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168 Moo 4, Sattahip-Chachoengsao Road., Bowin, Sriracha, Chonburi Thailand 20230

P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 228466

Date Received : Jan 24, 2022

Date Reported : Feb 01, 2022

Report Number : 2209485-1

Page 10 of 10

Sample Number	228466-5
Sampled Date	Jan 24, 2022 11:10 AM
Sample Description	Surface Water
Location	SW5 : ห้วยพันเสด็จ หลังผ่านพื้นที่โครงการ
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Ammonia Nitrogen *	mg/L	-	0.06	0.64	≤0.5	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤2	≤4	APHA (2017), 5210 B	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.8	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Flow rate *	m3/s	-	-	1.970	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	21.2	≤5	≤5	Based on APHA (2017), 4500-NO3(E)	Rayong
pH at 25 degree C		-	-	7.7	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Temperature *	Degree C	-	-	28.5	(c)	(c)	Based on APHA (2017), 2550 B	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

Dej Changchon
Senior Manager

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P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2230667

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2301497-1

Page 1 of 2

Sample Number	2230667-1
Sampled Date	Apr 25, 2022 11:20 AM
Sample Description	Surface Water
Location	SW1 : ห้วยมะนาว ก่อนไหลผ่านพื้นที่โครงการ
Date Analysis Commenced	Apr 25, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	4.43	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.009	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	0.008	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	2.57	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	0.005	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.004	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	No Standard	No Standard	Based on APHA (2017), Calculated	Bangkok
^[A] Zinc	mg/L	0.003	0.005	0.02	≤1	≤1	Based on APHA (2017), 3125	Bangkok
Microbiological Testing								
^[A] Fecal Coliform	MPN/100mL	-	-	3300.0	≤4000	No Standard	APHA (2017), 9221 E	Bangkok
^[A] Total Coliform	MPN/100mL	-	-	17000.0	≤20000	No Standard	APHA (2017), 9221 B	Bangkok

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P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2230667

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2301497-1

Page 2 of 2

Sample Number	2230667-1
Sampled Date	Apr 25, 2022 11:20 AM
Sample Description	Surface Water
Location	SW1 : ห้วยมะนาว ก่อนไหลผ่านพื้นที่โครงการ
Date Analysis Commenced	Apr 25, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Ammonia Nitrogen *	mg/L	-	0.06	0.21	≤0.5	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 Degree C) *	mg/L	-	2	5	≤2	≤4	APHA (2017), 5210 B	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.6	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Flow rate *	m3/s	-	-	0.6892	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.95	≤5	≤5	Based on APHA (2017), 4500-NO3(E)	Rayong
pH at 25 degree C		-	-	7.7	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Temperature *	Degree C	-	-	30.6	(c)	(c)	Based on APHA (2017), 2550 B	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

Dej Changchon
Senior Manager

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P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2230667

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2301498-1

Page 1 of 2

Sample Number	2230667-2
Sampled Date	Apr 25, 2022 11:40 AM
Sample Description	Surface Water
Location	SW2 : ห้วยสาธารณะ ก่อนไหลผ่านพื้นที่โครงการ
Date Analysis Commenced	Apr 25, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	2.54	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.01	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	0.09	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	2.12	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	0.003	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.03	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	No Standard	No Standard	Based on APHA (2017), Calculated	Bangkok
^[A] Zinc	mg/L	0.003	0.005	0.20	≤1	≤1	Based on APHA (2017), 3125	Bangkok
Microbiological Testing								
^[A] Fecal Coliform	MPN/100mL	-	-	130000.0	≤4000	No Standard	APHA (2017), 9221 E	Bangkok
^[A] Total Coliform	MPN/100mL	-	-	790000.0	≤20000	No Standard	APHA (2017), 9221 B	Bangkok

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P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2230667

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2301498-1

Page 2 of 2

Sample Number	2230667-2
Sampled Date	Apr 25, 2022 11:40 AM
Sample Description	Surface Water
Location	SW2 : ห้วยสาธารณะ ก่อนไหลผ่านพื้นที่โครงการ
Date Analysis Commenced	Apr 25, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Ammonia Nitrogen *	mg/L	-	0.06	1.64	≤0.5	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 Degree C) *	mg/L	-	2	5	≤2	≤4	APHA (2017), 5210 B	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.1	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Flow rate *	m3/s	-	-	0.0861	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.86	≤5	≤5	Based on APHA (2017), 4500-NO3(E)	Rayong
pH at 25 degree C		-	-	7.3	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Temperature *	Degree C	-	-	28.7	(c)	(c)	Based on APHA (2017), 2550 B	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

D. Chumman

Dej Changchon
Senior Manager

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P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2230667

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2301499-1

Page 1 of 2

Sample Number	2230667-3
Sampled Date	Apr 25, 2022 11:00 AM
Sample Description	Surface Water
Location	SW3 : ห้วยพันเสด็จ ก่อนไหลผ่านพื้นที่โครงการ
Date Analysis Commenced	Apr 25, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	2.17	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.006	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	0.03	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	0.09	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	2.51	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	0.002	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.17	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	0.001	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	0.09	No Standard	No Standard	Based on APHA (2017), Calculated	Bangkok
^[A] Zinc	mg/L	0.003	0.005	0.007	≤1	≤1	Based on APHA (2017), 3125	Bangkok
Microbiological Testing								
^[A] Fecal Coliform	MPN/100mL	-	-	130000.0	≤4000	No Standard	APHA (2017), 9221 E	Bangkok
^[A] Total Coliform	MPN/100mL	-	-	330000.0	≤20000	No Standard	APHA (2017), 9221 B	Bangkok

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Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
168 Moo 4, Sattahip-Chachoengsao Road., Bowin, Sriracha, Chonburi Thailand 20230

P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2230667

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2301499-1

Page 2 of 2

Sample Number	2230667-3							
Sampled Date	Apr 25, 2022 11:00 AM							
Sample Description	Surface Water							
Location	SW3 : ห้วยพันเสด็จ ก่อนไหลผ่านพื้นที่โครงการ							
Date Analysis Commenced	Apr 25, 2022							
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Ammonia Nitrogen *	mg/L	-	0.06	0.35	≤0.5	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤2	≤4	APHA (2017), 5210 B	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Flow rate *	m3/s	-	-	2.193	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.78	≤5	≤5	Based on APHA (2017), 4500-NO3(E)	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Temperature *	Degree C	-	-	30.2	(c)	(c)	Based on APHA (2017), 2550 B	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

D. Chumman

Dej Changchon
Senior Manager

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P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2230667

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2301500-1

Page 1 of 2

Sample Number	2230667-4
Sampled Date	Apr 25, 2022 10:20 AM
Sample Description	Surface Water
Location	SW4 : ห้วยพันเสด็จ บริเวณจุดระบายน้ำทิ้งของโครงการ
Date Analysis Commenced	Apr 25, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	1.87	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.008	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	0.02	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	0.03	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	2.29	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	0.004	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.07	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	0.0009	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	0.05	No Standard	No Standard	Based on APHA (2017), Calculated	Bangkok
^[A] Zinc	mg/L	0.003	0.005	0.03	≤1	≤1	Based on APHA (2017), 3125	Bangkok
Microbiological Testing								
^[A] Fecal Coliform	MPN/100mL	-	-	33000.0	≤4000	No Standard	APHA (2017), 9221 E	Bangkok
^[A] Total Coliform	MPN/100mL	-	-	130000.0	≤20000	No Standard	APHA (2017), 9221 B	Bangkok

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Dej Changchon
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168 Moo 4, Sattahip-Chachoengsao Road., Bowin, Sriracha, Chonburi Thailand 20230

P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2230667

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2301500-1

Page 2 of 2

Sample Number	2230667-4							
Sampled Date	Apr 25, 2022 10:20 AM							
Sample Description	Surface Water							
Location	SW4 : ห้วยพันเสด็จ บริเวณจุดระบายน้ำทิ้งของโครงการ							
Date Analysis Commenced	Apr 25, 2022							
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Ammonia Nitrogen *	mg/L	-	0.06	0.77	≤0.5	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤2	≤4	APHA (2017), 5210 B	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	7.2	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Flow rate *	m3/s	-	-	1.193	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	17.2	≤5	≤5	Based on APHA (2017), 4500-NO3(E)	Rayong
pH at 25 degree C		-	-	7.6	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Temperature *	Degree C	-	-	29.9	(c)	(c)	Based on APHA (2017), 2550 B	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

D. Chumchon

Dej Changchon
Senior Manager

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P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2230667

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2301501-1

Page 1 of 2

Sample Number	2230667-5
Sampled Date	Apr 25, 2022 10:00 AM
Sample Description	Surface Water
Location	SW5 : ห้วยพันเสด็จ หลังผ่านพื้นที่โครงการ
Date Analysis Commenced	Apr 25, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	2.18	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.008	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	0.02	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	0.03	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	2.41	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	0.003	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.06	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	0.0005	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	0.05	No Standard	No Standard	Based on APHA (2017), Calculated	Bangkok
^[A] Zinc	mg/L	0.003	0.005	0.02	≤1	≤1	Based on APHA (2017), 3125	Bangkok
Microbiological Testing								
^[A] Fecal Coliform	MPN/100mL	-	-	79000.0	≤4000	No Standard	APHA (2017), 9221 E	Bangkok
^[A] Total Coliform	MPN/100mL	-	-	130000.0	≤20000	No Standard	APHA (2017), 9221 B	Bangkok

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168 Moo 4, Sattahip-Chachoengsao Road., Bowin, Sriracha, Chonburi Thailand 20230

P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2230667

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2301501-1

Page 2 of 2

Sample Number	2230667-5
Sampled Date	Apr 25, 2022 10:00 AM
Sample Description	Surface Water
Location	SW5 : ห้วยพันเสด็จ หลังผ่านพื้นที่โครงการ
Date Analysis Commenced	Apr 25, 2022
Condition of Sample	Contained in seven plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Ammonia Nitrogen *	mg/L	-	0.06	0.41	≤0.5	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤2	≤4	APHA (2017), 5210 B	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	7.5	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Flow rate *	m3/s	-	-	3.258	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	6.10	≤5	≤5	Based on APHA (2017), 4500-NO3(E)	Rayong
pH at 25 degree C		-	-	7.6	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Temperature *	Degree C	-	-	29.1	(c)	(c)	Based on APHA (2017), 2550 B	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

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Senior Manager

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P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2226179

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2248354-1

Page 1 of 2

Sample Number	2226179-1
Sampled Date	Apr 25, 2022 2:00 PM
Sample Description	Surface Water
Location	SW6 : อ่างเก็บน้ำหนองปลาไหล
Date Analysis Commenced	Apr 25, 2022
Condition of Sample	Contained in two glass vials, seven plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	0.16	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.004	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	Not Detected	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	0.15	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	<0.0005	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.002	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	No Standard	No Standard	Based on APHA (2017), Calculated	Bangkok
^[A] Zinc	mg/L	0.003	0.005	Not Detected	≤1	≤1	Based on APHA (2017), 3125	Bangkok
Microbiological Testing								
^[A] Fecal Coliform	MPN/100mL	-	-	330.0	≤4000	No Standard	APHA (2017), 9221 E	Bangkok
^[A] Total Coliform	MPN/100mL	-	-	1300.0	≤20000	No Standard	APHA (2017), 9221 B	Bangkok

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Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2226179

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2248354-1

Page 2 of 2

Sample Number	2226179-1
Sampled Date	Apr 25, 2022 2:00 PM
Sample Description	Surface Water
Location	SW6 : อ่างเก็บน้ำหนองปลาไหล
Date Analysis Commenced	Apr 25, 2022
Condition of Sample	Contained in two glass vials, seven plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	≤0.5	Based on APHA (2017), 4500-NH3 (B), (F)	Bangkok
BOD (5 days at 20 Degree C) *	mg/L	-	2	5	≤2	≤4	APHA (2017), 5210 B	Rayong
Cyanide as CN	mg/L	0.001	0.005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	8.4	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Flow rate *	m3/s	-	-	-	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	Not Detected	≤5	≤5	Based on APHA (2017), 4500-NO3(E)	Rayong
pH at 25 degree C		-	-	9.0	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Temperature *	Degree C	-	-	32.1	(c)	(c)	Based on APHA (2017), 2550 B	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
(2) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
(a) Not Change from natural condition
(b) Non Objectionable
(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

D. Changchon

Dej Changchon
Senior Manager

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Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
168 Moo 4, Sattahip-Chachoengsao Road., Bowin, Sriracha, Chonburi Thailand 20230

P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2228255

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2248380-1

Page 1 of 3

Sample Number 2228255-1
Sampled Date Apr 25, 2022 1:20 PM
Sample Description Surface Water
Location อ่างเก็บน้ำดิบ
Date Analysis Commenced Apr 25, 2022
Condition of Sample Contained in one amber glass bottle, eight plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
^[A] Aluminium	mg/L	0.003	0.005	0.07	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Arsenic	mg/L	0.0003	0.0005	0.006	≤0.01	≤0.01	Based on APHA (2017), 3125	Bangkok
^[A] Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 3125	Bangkok
^[A] Copper	mg/L	0.0003	0.0005	0.001	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3500-Cr (B)	Bangkok
^[A] Iron	mg/L	0.003	0.005	0.02	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Lead	mg/L	0.0003	0.0005	Not Detected	≤0.05	≤0.05	Based on APHA (2017), 3125	Bangkok
^[A] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	Based on US EPA, Method 1631 Revision E	Bangkok
^[A] Nickel	mg/L	0.0003	0.0005	0.001	≤0.10	≤0.10	Based on APHA (2017), 3125	Bangkok
^[A] Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	No Standard	Based on APHA (2017), 3125	Bangkok
^[A] Zinc	mg/L	0.003	0.005	Not Detected	≤1	≤1	Based on APHA (2017), 3125	Bangkok

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168 Moo 4, Sattahip-Chachoengsao Road., Bowin, Sriracha, Chonburi Thailand 20230

P/O :

Project Name : Chonburi Bowin

Project Location :

TESTING

No.0042

Lot ID: 2228255

Date Received : Apr 25, 2022

Date Reported : May 03, 2022

Report Number : 2248380-1

Page 2 of 3

Sample Number	2228255-1
Sampled Date	Apr 25, 2022 1:20 PM
Sample Description	Surface Water
Location	อ่างเก็บน้ำดิบ
Date Analysis Commenced	Apr 25, 2022
Condition of Sample	Contained in one amber glass bottle, eight plastic bottles, one BOD bottle and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤2	≤4	APHA (2017), 5210 B	Rayong
Chloride as Cl *	mg/L	0.5	1	31	No Standard	No Standard	Based on APHA (2017), 4500-Cl(B)	Rayong
COD *	mg/L	1.5	5	<5	No Standard	No Standard	APHA (2017), 5220 D	Rayong
Cyanide as CN	mg/L	0.001	0.005	Not Detected	≤0.005	≤0.005	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Dissolved Oxygen *	mg/L	-	0.1	7.4	≥4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Fluoride	mg/L	-	0.2	0.30	No Standard	No Standard	APHA (2017), 4500-F(C)	Rayong
Formaldehyde *	mg/L	0.03	0.1	Not Detected	No Standard	No Standard	Wastewater Analysis	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	No Standard	Based on APHA (2017), 5520 D	Bangkok
pH at 25 degree C	-	-	-	8.2	5.0-9.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.0005	0.001	Not Detected	≤0.005	≤0.005	APHA (2017), 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	No Standard	No Standard	Based on APHA (2017), 4500-Cl(F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	No Standard	No Standard	Based on APHA (2017), 4500-S2(C), (F)	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	140	No Standard	No Standard	APHA (2017), 2540 C	Rayong
Total Kjeldahl Nitrogen as N *	mg/L	-	1.0	<1.0	No Standard	No Standard	APHA (2017), 4500-Norg (C), NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	<5	No Standard	No Standard	APHA (2017), 2540 D	Rayong

Guideline : (1) Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

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(a) Not Change from natural condition

(b) Non Objectionable

(c) Change from Natural condition not more than 3 degree C

Sampled By : Anan Changsena

Remark :

Approved by

D. Changchon

Dej Changchon
Senior Manager

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