ภาคผนวก ค-3

ผลการตรวจวิเคราะห์คุณภาพน้ำผิวดิน

Analysis / Test Report

TESTING
No.0042

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-1
Sampled Date	Nov 14, 2023 11:06 AM
Sample Description	Surface Water
Location	SW1 : ห้วยมาบบริเวณต้นน้ำเมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 1,320 เมตร
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, 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	0.10	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Arsenic	mg/L	0.0003	0.0005	0.008	≤0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Copper	mg/L	0.0003	0.0005	0.002	≤0.10	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
[A] Iron	mg/L	0.003	0.005	2.32	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Lead	mg/L	0.0003	0.0005	0.0006	≤0.05	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Manganese	mg/L	0.0003	0.0005	1.68	≤1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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Supervisor

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2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-1
Sampled Date	Nov 14, 2023 11:06 AM
Sample Description	Surface Water
Location	SW1 : ห้วยมาบบริเวณต้นน้ำเมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 1,320 เมตร
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, 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] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
[A] Nickel	mg/L	0.0003	0.0005	0.002	≤0.10	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Zinc	mg/L	0.003	0.005	0.02	≤1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing								
[A] Fecal Coliform	MPN/100mL	-	-	700.0	≤4000	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
Water Testing								
Ammonia Nitrogen *	mg/L	0.02	0.05	0.39	≤0.5	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (D)	Rayong
BOD (5 days at 20 Degree C) *	mg/L	-	2.0	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	In-house method : STM 02-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - CN (C, E)	Rayong

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ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
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Analysis / Test Report

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2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
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Project Name : Laemchabang
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Sample Number	23127689-1
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Sample Description	Surface Water
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Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Dissolved Oxygen *	mg/L	-	0.1	3.9	≥4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.000	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.48	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.5	(c)	(c)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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 Gazettle, 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 Gazettle, 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

Sampling By : Tanasit Wongsachai ทะเบียนเลขที่ ว-323-จ-9460

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.
-
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-2
Sampled Date	Nov 14, 2023 10:45 AM
Sample Description	Surface Water
Location	SW2 : ห้วยมาบบริเวณจุดปล่อยน้ำทิ้งของโครงการ
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, 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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Arsenic	mg/L	0.0003	0.0005	0.003	≤0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Copper	mg/L	0.0003	0.0005	0.001	≤0.10	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
[A] Iron	mg/L	0.003	0.005	0.61	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Lead	mg/L	0.0003	0.0005	Not Detected	≤0.05	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Manganese	mg/L	0.0003	0.0005	0.20	≤1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-2
Sampled Date	Nov 14, 2023 10:45 AM
Sample Description	Surface Water
Location	SW2 : ห้วยมาบบริเวณจุดปล่อยน้ำทิ้งของโครงการ
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, 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] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
[A] Nickel	mg/L	0.0003	0.0005	0.001	≤0.10	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Zinc	mg/L	0.003	0.005	0.010	≤1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing								
[A] Fecal Coliform	MPN/100mL	-	-	2200.0	≤4000	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
Water Testing								
Ammonia Nitrogen *	mg/L	0.02	0.05	0.11	≤0.5	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (D)	Rayong
BOD (5 days at 20 Degree C) *	mg/L	-	2.0	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	In-house method : STM 02-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - CN (C, E)	Rayong

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Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-2
Sampled Date	Nov 14, 2023 10:45 AM
Sample Description	Surface Water
Location	SW2 : ห้วยมาบบริเวณจุดปล่อยน้ำทิ้งของโครงการ
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.000	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.62	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.3	(c)	(c)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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 Gazettle, 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

Sampling By : Tanasit Wongsachai ทะเบียนเลขที่ ว-323-จ-9460

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.
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-3
Sampled Date	Nov 14, 2023 10:20 AM
Sample Description	Surface Water
Location	SW3 : ห้วยมาบบริเวณท้ายน้ำเมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 675 เมตร
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, 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	0.19	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Arsenic	mg/L	0.0003	0.0005	0.003	≤0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Copper	mg/L	0.0003	0.0005	0.0008	≤0.10	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
[A] Iron	mg/L	0.003	0.005	0.51	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Lead	mg/L	0.0003	0.0005	<0.0005	≤0.05	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Manganese	mg/L	0.0003	0.0005	0.31	≤1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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Project Name : Laemchabang
Project Location :

Lot ID: 23127689
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Sample Number	23127689-3
Sampled Date	Nov 14, 2023 10:20 AM
Sample Description	Surface Water
Location	SW3 : ห้วยมาบบริเวณท้ายน้ำเมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 675 เมตร
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, 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] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
[A] Nickel	mg/L	0.0003	0.0005	0.001	≤0.10	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Zinc	mg/L	0.003	0.005	0.01	≤1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing								
[A] Fecal Coliform	MPN/100mL	-	-	33.0	≤4000	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
Water Testing								
Ammonia Nitrogen *	mg/L	0.02	0.05	0.15	≤0.5	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (D)	Rayong
BOD (5 days at 20 Degree C) *	mg/L	-	2.0	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	In-house method : STM 02-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - CN (C, E)	Rayong

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Sample Number	23127689-3
Sampled Date	Nov 14, 2023 10:20 AM
Sample Description	Surface Water
Location	SW3 : ห้วยมาบบริเวณท้ายน้ำเมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 675 เมตร
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Dissolved Oxygen *	mg/L	-	0.1	2.9	≥4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.000	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.14	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	28.6	(c)	(c)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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 Gazettle, 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 Gazettle, 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

Sampling By : Tanasit Wongsachai ทะเบียนเลขที่ จ-323-จ-9460

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.
-
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Narumon Banchongkit
Supervisor

Analysis / Test Report

TESTING
No.0042

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-4
Sampled Date	Nov 14, 2023 9:30 AM
Sample Description	Surface Water
Location	SW4 : ห้วยอีคุดบริเวณต้นน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 680 เมตร
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, 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	0.41	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Arsenic	mg/L	0.0003	0.0005	0.008	≤0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Copper	mg/L	0.0003	0.0005	0.002	≤0.10	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
[A] Iron	mg/L	0.003	0.005	2.11	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Lead	mg/L	0.0003	0.0005	0.0005	≤0.05	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Manganese	mg/L	0.0003	0.0005	0.93	≤1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING
No.0042

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-4
Sampled Date	Nov 14, 2023 9:30 AM
Sample Description	Surface Water
Location	SW4 : ห้วยอีคดบริเวณต้นน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 680 เมตร
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, 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] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
[A] Nickel	mg/L	0.0003	0.0005	0.0010	≤0.10	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Zinc	mg/L	0.003	0.005	0.01	≤1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing								
[A] Fecal Coliform	MPN/100mL	-	-	240.0	≤4000	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
Water Testing								
Ammonia Nitrogen *	mg/L	0.02	0.05	0.10	≤0.5	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (D)	Rayong
BOD (5 days at 20 Degree C) *	mg/L	-	2.0	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	In-house method : STM 02-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - CN (C, E)	Rayong

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Narumon Banchongkit
Supervisor

Analysis / Test Report

TESTING
No.0042

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-4
Sampled Date	Nov 14, 2023 9:30 AM
Sample Description	Surface Water
Location	SW4 : ห้วยอีคดบริเวณต้นน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 680 เมตร
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Dissolved Oxygen *	mg/L	-	0.1	9.5	≥4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.000	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.62	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
pH at 25 degree C		-	-	7.6	5.0-9.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.5	(c)	(c)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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 Gazettle, 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 Gazettle, 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

Sampling By : Tanasit Wongsachai ทะเบียนเลขที่ ว-323-จ-9460

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.
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Supervisor

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Analysis / Test Report

TESTING
No.0042

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-5
Sampled Date	Nov 14, 2023 9:50 AM
Sample Description	Surface Water
Location	SW5 : ห้วยอีคุดบริเวณท่ายน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 400 เมตร
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, 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	0.29	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Arsenic	mg/L	0.0003	0.0005	0.007	≤0.01	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Copper	mg/L	0.0003	0.0005	0.002	≤0.10	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
[A] Iron	mg/L	0.003	0.005	1.85	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Lead	mg/L	0.0003	0.0005	0.001	≤0.05	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Manganese	mg/L	0.0003	0.0005	1.28	≤1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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Narumon Banchongkit
Supervisor

Analysis / Test Report

TESTING
No.0042

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-5
Sampled Date	Nov 14, 2023 9:50 AM
Sample Description	Surface Water
Location	SW5 : ห้วยอีคุดบริเวณท่ายน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 400 เมตร
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, 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] Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	≤0.002	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
[A] Nickel	mg/L	0.0003	0.0005	0.005	≤0.10	≤0.10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
[A] Zinc	mg/L	0.003	0.005	0.007	≤1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing								
[A] Fecal Coliform	MPN/100mL	-	-	490.0	≤4000	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Bangkok
Water Testing								
Ammonia Nitrogen *	mg/L	0.02	0.05	0.39	≤0.5	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (D)	Rayong
BOD (5 days at 20 Degree C) *	mg/L	-	2.0	<2.0	≤2	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.005	≤0.005	In-house method : STM 02-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - CN (C, E)	Rayong

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Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING
No.0042

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang,
Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23127689
Date Received : Nov 14, 2023
Date Reported : Nov 21, 2023
Report Number : 2824290-1

Sample Number	23127689-5
Sampled Date	Nov 14, 2023 9:50 AM
Sample Description	Surface Water
Location	SW5 : ห้วยอีคตบริเวณท่ายน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 400 เมตร
Date Analysis Commenced	Nov 14, 2023
Condition of Sample	Contained in two glass vials, one BOD bottle and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
Dissolved Oxygen *	mg/L	-	0.1	5.5	≥4	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
Flow rate *	m3/s	-	-	0.000	No Standard	No Standard	Flow meter	Rayong
Nitrate as N *	mg/L	0.015	0.05	0.69	≤5	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NO3 (E)	Rayong
pH at 25 degree C		-	-	7.8	5.0-9.0	5.0-9.0	In-house method : STM 02-005 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	27.8	(c)	(c)	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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 Gazettle, 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 Gazettle, 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

Sampling By : Tanasit Wongsachai ทะเบียนเลขที่ ว-323-จ-9460

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.
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Narumon Banchongkit
Supervisor

ภาคผนวก ค-4

ผลการตรวจวิเคราะห์คุณภาพน้ำใต้ดิน

Analysis / Test Report

TESTING
No.0009

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok
Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location:

Lot ID: 23128384
Date Received : Nov 16, 2023
Date Reported : Nov 27, 2023
Report Number : 2824298-1

Sample Number	23128384-5
Sampled Date	Nov 16, 2023 10:50 AM
Sample Description	Ground Water
Location	GW5 : พื้นที่สีเขียวด้านทิศตะวันออกเฉียงเหนือของโครงการ
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium	mg/L	0.003	0.005	0.21	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Arsenic	mg/L	0.0003	0.0005	0.001	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.47	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.003	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Chromium	mg/L	0.0003	0.0005	0.002	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.0008	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok

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Approved by
Sawitree N.
Sawitree Noisangiam
Manager

Analysis / Test Report

TESTING
No.0009

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok
Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location:

Lot ID: 23128384
Date Received : Nov 16, 2023
Date Reported : Nov 27, 2023
Report Number : 2824298-1

Sample Number	23128384-5
Sampled Date	Nov 16, 2023 10:50 AM
Sample Description	Ground Water
Location	GW5 : พื้นที่สีเขียวด้านทิศตะวันออกเฉียงเหนือของโครงการ
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.17	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.52	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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Sawitree N.
Sawitree Noisangiam
Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
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Analysis / Test Report

TESTING
No.0009

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location:

Lot ID: 23128384
Date Received : Nov 16, 2023
Date Reported : Nov 27, 2023
Report Number : 2824298-1

Sample Number	23128384-5
Sampled Date	Nov 16, 2023 10:50 AM
Sample Description	Ground Water
Location	GW5 : พื้นที่สีเขียวด้านทิศตะวันออกเฉียงเหนือของโครงการ
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Zinc	mg/L	0.003	0.005	Not Detected	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Escherichia coli	MPN/100mL	-	-	<1.8	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, F	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	0.02	0.05	0.12	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (D)	Rayong
Chloride as Cl *	mg/L	0.06	0.2	53.6	No Standard	In - house method : STM 04-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Color *	Color unit	-	5	<5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 B	Rayong
Flow rate *	m3/s	-	-	0.000	No Standard	Flow meter	Rayong
Fluoride *	mg/L	-	0.2	0.6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (C)	Rayong
Permanent Hardness as CaCO3 *	mg/L	-	1	28	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Bangkok
pH at 25 degree C *		-	-	6.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

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Manager

Analysis / Test Report

TESTING
No.0009

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location:

Lot ID: 23128384
Date Received : Nov 16, 2023
Date Reported : Nov 27, 2023
Report Number : 2824298-1

Sample Number	23128384-5
Sampled Date	Nov 16, 2023 10:50 AM
Sample Description	Ground Water
Location	GW5 : พื้นที่สีเขียวด้านทิศตะวันออกเฉียงเหนือของโครงการ
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Sulfate *	mg/L	0.6	2	23.9	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SO4 (E)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	197	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	402	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Hardness as CaCO3 *	mg/L	-	1	224	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Bangkok
Turbidity *	NTU	-	0.1	7.4	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543

Sampling By : Tanasit Wongsachai , Samart Khumphlee

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.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Analysis / Test Report

TESTING
No.0009

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23133901
Date Received : Nov 17, 2023
Date Reported : Nov 28, 2023
Report Number : 2838267-1

Sample Number	23133901-1
Sampled Date	Nov 17, 2023 10:05 AM
Sample Description	Ground Water
Location	GW6 : พื้นที่สีเขียวด้านทิศตะวันตกเฉียงใต้ของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Aluminium	mg/L	0.003	0.005	2.51	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Arsenic	mg/L	0.0003	0.0005	0.007	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.64	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.003	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Chromium	mg/L	0.0003	0.0005	0.002	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok

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Analysis / Test Report

TESTING
No.0009

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23133901
Date Received : Nov 17, 2023
Date Reported : Nov 28, 2023
Report Number : 2838267-1

Sample Number	23133901-1
Sampled Date	Nov 17, 2023 10:05 AM
Sample Description	Ground Water
Location	GW6 : พื้นที่สีเขียวด้านทิศตะวันตกเฉียงใต้ของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.89	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Lead	mg/L	0.0003	0.0005	0.006	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.34	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.001	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Nickel	mg/L	0.0003	0.0005	0.008	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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Analysis / Test Report

TESTING
No.0009

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23133901
Date Received : Nov 17, 2023
Date Reported : Nov 28, 2023
Report Number : 2838267-1

Sample Number	23133901-1
Sampled Date	Nov 17, 2023 10:05 AM
Sample Description	Ground Water
Location	GW6 : พื้นที่สีเขียวด้านทิศตะวันตกเฉียงใต้ของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Zinc	mg/L	0.003	0.005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Escherichia coli	MPN/100mL	-	-	22.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, F	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	0.02	0.05	0.09	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (D)	Rayong
Chloride as Cl *	mg/L	0.06	0.2	74.0	No Standard	In - house method : STM 04-004 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Color *	Color unit	-	5	5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 B	Rayong
Fluoride *	mg/L	-	0.2	0.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (C)	Rayong
Permanent Hardness as CaCO3 *	mg/L	-	1	<1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Bangkok
pH at 25 degree C *		-	-	6.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

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Analysis / Test Report

TESTING
No.0009

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23133901
Date Received : Nov 17, 2023
Date Reported : Nov 28, 2023
Report Number : 2838267-1

Sample Number	23133901-1
Sampled Date	Nov 17, 2023 10:05 AM
Sample Description	Ground Water
Location	GW6 : พื้นที่สีเขียวด้านทิศตะวันตกเฉียงใต้ของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Sulfate *	mg/L	0.6	2	20.3	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-SO4 (E)	Rayong
Total Alkalinity as CaCO3 *	mg/L	-	1	81	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	358	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Hardness as CaCO3 *	mg/L	-	1	49	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Bangkok
Turbidity *	NTU	-	0.1	55.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Rayong

Guideline : Notification of the National Environmental Board, No. 20, B.E.2543

Sampling By : Tanasit Wongsachai , Samart Khumphlee

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.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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ภาคผนวก ค-5

ผลการตรวจวิเคราะห์นิเวศวิทยาทางน้ำ

สถานีวิจัยประมงศรีราชา
101/12 หมู่ 9 ต. บางพระ
อ. ศรีราชา จ. ชลบุรี 20110
โทร./โทรสาร. (038) 311379

Client : Rojana Industrial Park Public Co., Ltd.

Address : 2034/115 26TH Fl. Italthai Tower, New Petchburi Road, Bangkapi, Huaykwang, Bangkok, Thailand, 10310

Project Name : Laemchabang

รายงานผลการวิเคราะห์แพลงก์ตอนพืช

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 14 พฤศจิกายน 2566)

ชนิดแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)				
	23128392-1	23128392-2	23128392-3	23128392-4	23128392-5
Division Cyanophyta					
Class Cyanophyceae					
Order Nostocales					
Family Oscillatoriaceae					
1. *Oscillatoria anguina*	-	-	-	14,000	9,000
2. *Oscillatoria brevis*	9,000	-	-	-	-
3. *Oscillatoria limnetica*	-	31,000	8,000	420,000	18,000
4. *Oscillatoria princeps*	-	-	-	21,000	-
5. *Oscillatoria* sp.	-	8,000	30,000	14,000	-
6. *Oscillatoria tenuis*	55,000	8,000	68,000	21,000	90,000
7. *Spirulina platensis*	9,000	23,000	593,000	-	-
Family Nostocaceae					
8. *Anabaena azollae*	9,000	-	8,000	-	-
9. *Anabaenopsis arnoldii*	-	-	-	-	9,000

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 14 พฤศจิกายน 2566)

(ต่อ)

ชนิดแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)				
	23128392-1	23128392-2	23128392-3	23128392-4	23128392-5
10. *Raphidiopsis* sp.	-	-	8,000	-	-
Family Rivulariaceae					
11. *Calothrix* sp.	-	-	-	84,000	-
Division Chlorophyta					
Class Chlorophyceae					
Order Volvocales					
Family Volvocaceae					
12. *Pandorina morum*	9,000	-	-	-	-
Order Chlorococcales					
Family Oocystaceae					
13. *Ankistrodesmus falcatus*	-	-	8,000	-	-
Order Ulotrichales					
Family Ulotrichaceae					
14. *Ulothrix zonata*	9,000	-	-	-	9,000
Order Zygematales					
Family Desmidiaceae					
15. *Closterium ehrenbergii*	-	8,000	-	7,000	9,000
16. *Closterium linearis*	-	-	8,000	-	-
17. *Cosmarium* sp.	-	-	-	-	9,000
18. *Hyalotheca dissiliens*	-	-	-	378,000	63,000
Class Euglenophyceae					
Order Euglenales					
Family Euglenaceae					
19. *Euglena acus*	119,000	85,000	-	7,000	117,000
20. *Euglena oxyuris*	73,000	47,000	38,000	-	27,000
21. *Euglena* sp.	18,000	8,000	-	-	-
22. *Euglena splendens*	-	-	-	14,000	9,000

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 14 พฤศจิกายน 2566)

(ต่อ)

ชนิดแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)				
	23128392-1	23128392-2	23128392-3	23128392-4	23128392-5
23. *Euglena viridis*	9,000	-	-	-	-
24. *Lepocinclis ovum*	146,000	85,000	15,000	14,000	153,000
25. *Phacus angulatus*	82,000	8,000	8,000	-	-
26. *Phacus hamatus*	27,000	23,000	8,000	21,000	45,000
27. *Phacus longicauda*	18,000	31,000	-	-	-
28. *Phacus platalea*	9,000	-	-	-	-
29. *Phacus ranula*	9,000	-	8,000	-	-
30. *Phacus* sp.	-	-	46,000	-	18,000
31. *Phacus stokesii*	27,000	23,000	-	14,000	27,000
32. *Phacus tortus*	27,000	8,000	-	14,000	45,000
33. *Strombomonas australica*	9,000	-	-	-	-
34. *Strombomonas deflandrei*	9,000	-	-	-	-
35. *Strombomonas gibberosa*	9,000	8,000	-	-	-
36. *Tetraedron trigonum*	-	-	8,000	-	-
37. *Trachelomonas crebea*	9,000	-	-	-	9,000
38. *Trachelomonas hispida*	110,000	39,000	38,000	7,000	54,000
39. *Trachelomonas mirabilis*	-	8,000	-	-	-
40. *Trachelomonas superba*	-	-	8,000	-	-
Division Chromophyta					
Class Bacillariophyceae					
Order Biddulphiales					
Suborder Coscinodiscineae					
Family Thalassiosiraceae					
41. *Cyclotella stelligera*	-	-	-	21,000	-
Family Aulacoseiraceae					
42. *Aulacoseira granulata*	-	-	8,000	14,000	-

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 14 พฤศจิกายน 2566)

(ต่อ)

ชนิดแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)				
	23128392-1	23128392-2	23128392-3	23128392-4	23128392-5
Order Bacillariales					
Suborder Fragilariineae					
Family Fragilariaceae					
43. *Fragilaria capucina*	46,000	16,000	8,000	826,000	198,000
44. *Synedra acus*	-	-	8,000	-	18,000
45. *Synedra ulna*	-	8,000	30,000	3,836,000	693,000
Family Tabellariaceae					
46. *Tabellaria fenestrata*	18,000	-	-	-	18,000
Suborder Bacillariineae					
Family Eunotiaceae					
47. *Eunotia lineolata*	-	8,000	-	-	-
48. *Eunotia pectinalis*	-	70,000	30,000	21,000	63,000
Family Achnanthaceae					
49. *Achnanthidium lanceolatum*	9,000	8,000	-	-	-
Family Cymbellaceae					
50. *Gomphonema parvulum*	-	-	8,000	-	9,000
Family Naviculaceae					
51. *Cratticula cuspidata*	-	-	-	7,000	-
52. *Gyrosigma attenuatum*	9,000	8,000	-	966,000	1,071,000
53. *Navicula cuspidata*	18,000	-	-	-	9,000
54. *Pinnularia gibba*	9,000	8,000	23,000	-	9,000
Family Bacillariaceae					
55. *Bacillaria paxillifer*	-	-	-	21,000	-
56. *Nitzschia reversa*	9,000	-	-	7,000	18,000
57. *Nitzschia siomoidea*	9,000	-	-	-	-
58. *Tryblionella navicularis*	9,000	-	-	-	-

ตาราง ผลการวิเคราะห์แพลงก์ตอนพืช (เก็บตัวอย่างวันที่ 14 พฤศจิกายน 2566)

(ต่อ)

ชนิดแพลงก์ตอนพืช	ปริมาณแพลงก์ตอนพืช (หน่วยต่อลูกบาศก์เมตร)				
	23128392-1	23128392-2	23128392-3	23128392-4	23128392-5
Family Rhopalodiaceae					
59. *Epithemia argus*	-	8,000	-	-	18,000
Family Surirellaceae					
60. *Surirella elegans*	18,000	-	-	-	9,000
61. *Surirella robusta*	18,000	-	-	-	-
62. *Surirella tenera*	-	8,000	-	-	-
Class Dinophyceae					
Order Peridiniales					
Family Peridiniaceae					
63. *Peridinium gatunense*	-	-	23,000	7,000	-
64. *Peridinium* sp.	55,000	-	-	-	9,000
ชนิดแพลงก์ตอนพืช	**35**	**26**	**25**	**25**	**31**
ปริมาณแพลงก์ตอนพืช	**1,037,000**	**593,000**	**1,046,000**	**6,776,000**	**2,862,000**
ดัชนีความหลากหลายแพลงก์ตอนพืช	**3.0483**	**2.8445**	**1.9338**	**1.4836**	**2.1623**
ดัชนีความสม่ำเสมอแพลงก์ตอนพืช	**0.8574**	**0.8031**	**0.6008**	**0.4609**	**0.6297**

Sample Location :

1. สถานี 23128392-1 : สถานี B1 : ห้วยมาบบริเวณต้นน้ำเมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 1,320 เมตร
2. สถานี 23128392-2 : สถานี B2 : ห้วยมาบบริเวณจุดปล่อยน้ำทิ้งของโครงการ
3. สถานี 23128392-3 : สถานี B3 : ห้วยมาบบริเวณท้ายน้ำ เมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 675 เมตร
4. สถานี 23128392-4 : สถานี B4 : ห้วยอีลุดบริเวณต้นน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 680 เมตร
5. สถานี 23128392-5 : สถานี B5 : ห้วยอีลุดบริเวณท้ายน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 400 เมตร

Condition of Sample : contained in one plastic bottle, sample containers comply to pretreatment-preservation standards (APHA, USEPA)

(นางสาวกนกวรรณ ขาวด่อน)
ผู้วิเคราะห์

(นายอลงกต อินทรชาติ)
หัวหน้าสถานีวิจัยประมงศรีราชา

สถานีวิจัยประมงศรีราชา
101/12 หมู่ 9 ต. บางพระ
อ. ศรีราชา จ. ชลบุรี 20110
โทร./โทรสาร. (038) 311379

Client : Rojana Industrial Park Public Co., Ltd.

Address : 2034/115 26TH Fl. Italthai Tower, New Petchburi Road, Bangkapi, Huaykwang, Bangkok, Thailand, 10310

Project Name : Laemchabang

รายงานผลการวิเคราะห์แพลงก์ตอนสัตว์

ตาราง ผลการวิเคราะห์แพลงก์ตอนสัตว์ (เก็บตัวอย่างวันที่ 14 พฤศจิกายน 2566)

ชนิดแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)				
	23128392-1	23128392-2	23128392-3	23128392-4	23128392-5
Phylum Protozoa					
Subphylum Plasmodroma					
Class Sarcodina					
Subclass Rhizopoda					
Order Testacida					
Family Arcellidae					
1. *Arcella vulgaris*	55,000	78,000	23,000	7,000	90,000
Family Difflugiidae					
2. *Centropyxis aculeata*	-	16,000	-	-	-
Family Euglyphidae					
3. *Euglypha acanthophora*	18,000	62,000	-	14,000	18,000
4. *Euglypha cristata*	-	8,000	-	-	-
5. *Euglypha rotunda*	37,000	54,000	-	-	54,000

ตาราง ผลการวิเคราะห์แพลงก์ตอนสัตว์ (เก็บตัวอย่างวันที่ 14 พฤศจิกายน 2566)

(ต่อ)

ชนิดแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)				
	23128392-1	23128392-2	23128392-3	23128392-4	23128392-5
Subphylum Ciliophora					
Class Ciliata					
Subclass Holotricha					
Order Gymnostomatida					
6. *Coleps* sp.	27,000	8,000	-	-	18,000
7. *Didinium* sp.	18,000	-	15,000	28,000	36,000
Order Hymenostomatida					
8. *Paramecium* sp.	9,000	-	-	-	9,000
Subclass Spirotricha					
Order Tintinnida					
Family Tintinnididae					
9. *Tintinnidium* sp.	18,000	-	-	7,000	-
Subclass Peritricha					
Order Peritrichida					
10. *Pyxicola* sp.	-	8,000	-	-	-
11. *Vorticella* sp.	-	-	-	35,000	9,000
Phylum Rotifera					
Class Monogononta					
Order Ploima					
Family Brachionidae					
12. *Colurella obtusa*	27,000	8,000	-	-	-
13. *Dipleuchlanis propaluta*	-	-	-	7,000	9,000
14. *Lepadella acuminata*	9,000	-	15,000	7,000	27,000
Family Lecanidae					
15. *Lecane bulla*	-	-	-	-	9,000
16. *Lecane closterocerca*	18,000	-	-	-	-
17. *Lecane decipiens*	9,000	-	8,000	-	-

ตาราง ผลการวิเคราะห์แพลงก์ตอนสัตว์ (เก็บตัวอย่างวันที่ 14 พฤศจิกายน 2566)

(ต่อ)

ชนิดแพลงก์ตอนสัตว์	ปริมาณแพลงก์ตอนสัตว์ (หน่วยต่อลูกบาศก์เมตร)				
	23128392-1	23128392-2	23128392-3	23128392-4	23128392-5
18. *Lecane inopinata*	-	8,000	8,000	-	-
19. *Lecane* sp.	-	-	-	-	9,000
Family Notommatidae					
20. *Cephalodella gibba*	55,000	-	-	7,000	36,000
Family Tricocercidae					
21. *Trichocerca* sp.	9,000	-	-	-	-
Family Asplanchnidae					
22. *Asplanchna priodonta*	46,000	-	8,000	-	9,000
Family Synchaetidae					
23. *Polyarthra vulgaris*	-	-	-	-	9,000
Class Digononta					
Family Philodinidae					
24. *Rotaria rotatoria*	-	8,000	-	-	9,000
Phylum Arthropoda					
Class Crustacea					
Subclass Branchiopoda					
Order Diplostraca					
Suborder Cladocera					
Family Bosminidae					
25. *Bosminopsis* sp.	-	8,000	-	-	-
Subclass Copepoda					
26. Copepod nauplii	37,000	-	-	-	-
ชนิดแพลงก์ตอนสัตว์	**15**	**11**	**6**	**8**	**15**
ปริมาณแพลงก์ตอนสัตว์	**392,000**	**266,000**	**77,000**	**112,000**	**351,000**
ดัชนีความหลากหลายแพลงก์ตอนสัตว์	**2.5291**	**1.9297**	**1.7040**	**1.8364**	**2.3575**
ดัชนีความสม่ำเสมอแพลงก์ตอนสัตว์	**0.9339**	**0.8047**	**0.9510**	**0.8831**	**0.8706**

Sample Location :

1. สถานี 23128392-1 : สถานี B1 : ห้วยมาบบริเวณต้นน้ำเมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 1,320 เมตร
2. สถานี 23128392-2 : สถานี B2 : ห้วยมาบบริเวณจุดปล่อยน้ำทิ้งของโครงการ
3. สถานี 23128392-3 : สถานี B3 : ห้วยมาบบริเวณท้ายน้ำ เมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 675 เมตร
4. สถานี 23128392-4 : สถานี B4 : ห้วยอีคุตบริเวณต้นน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 680 เมตร
5. สถานี 23128392-5 : สถานี B5 : ห้วยอีคุตบริเวณท้ายน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 400 เมตร

Condition of Sample : contained in one plastic bottle, sample containers comply to pretreatment preservation standards (APHA, USEPA)

(นางสาวกนกวรรณ ขาวด่อน)
ผู้วิเคราะห์

(นายอลงกต อินทรชาติ)
หัวหน้าสถานีวิจัยประมงศรีราชา

สถาบันวิจัยประมงศรีราชา

101/12 หมู่ 9 ต. บางพระ อ. ศรีราชา จ. ชลบุรี 20110

โทร./โทรสาร. (038) 311379

Client : Rojana Industrial Park Public Co., Ltd.

Address : 2034/115 26TH Fl. Italthai Tower, New Petchburi Road, Bangkapi, Huaykwang, Bangkok, Thailand, 10310

Project Name : Laemchabang

รายงานผลการวิเคราะห์สัตว์น้ำ

ตาราง ผลการวิเคราะห์สัตว์น้ำ (Aquatic animal) (เก็บตัวอย่างเมื่อวันที่ 14 พฤศจิกายน 2566)

ชนิดสัตว์น้ำ	ปริมาณสัตว์น้ำ (ตัว)					ช่วงขนาด	น้ำหนักรวม
	23128392-1	23128392-2	23128392-3	23128392-4	23128392-5	(ซม.)	(กรัม)
Phylum Chordata							
Class Actinopterygii							
Order Anabantiformes							
Family Osphronemidae							
Trichopodus trichopterus (ปลากระดี่หม้อ)	4	6	2	-	2	4.20-8.20	37.00
Trichopsis vittata (ปลากริมควาย)	-	2	-	-	-	4.60-4.80	1.80

ตาราง ผลการวิเคราะห์สัตว์น้ำ (Aquatic animal) (เก็บตัวอย่างเมื่อวันที่ 14 พฤศจิกายน 2566) (ต่อ)

ชนิดสัตว์น้ำ	ปริมาณสัตว์น้ำ (ตัว)					ช่วงขนาด	น้ำหนักรวม
	23128392-1	23128392-2	23128392-3	23128392-4	23128392-5	(ซม.)	(กรัม)
Order Cichliformes							
Family Cichlidae							
Oreochromis niloticus (ปลานิล)	-	-	1	-	-	4.30	0.80
Order Cypriniformes							
Family Cyprinidae							
Puntius brevis (ปลาตะเพียนทราย)	1	6	4	4	3	3.80-8.70	60.80
Rasbora paviana (ปลาซิวควายแถบดำ)	-	-	2	3	2	5.70-7.00	14.80
Order Siluriformes							
Family Bagridae							
Mystus mysticetus (ปลาแขยงข้างลาย)	-	1	-	-	5	6.80-10.00	24.00
ชนิดสัตว์น้ำ	**2**	**4**	**4**	**2**	**4**	**3.80-10.00**	**139.20**
ปริมาณสัตว์น้ำ	**5**	**15**	**9**	**7**	**12**		
ดัชนีความหลากหลายสัตว์น้ำ	**0.5004**	**1.1822**	**1.2730**	**0.6829**	**1.3086**		

Sample Location : 1. สถานี 23128392-1 : สถานี B1 : ห้วยมาบบริเวณต้นน้ำเมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 1,320 เมตร
2. สถานี 23128392-2 : สถานี B2 : ห้วยมาบบริเวณจุดปล่อยน้ำทิ้งของโครงการ
3. สถานี 23128392-3 : สถานี B3 : ห้วยมาบบริเวณท้ายน้ำเมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 675 เมตร
4. สถานี 23128392-4 : สถานี B4 : ห้วยอีคุดบริเวณต้นน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 680 เมตร
5. สถานี 23128392-5 : สถานี B5 : ห้วยอีคุดบริเวณท้ายน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 400 เมตร

Condition of Sample : fishing gear

(นายสาโรจน์ เริ่มดำริห์)
ผู้วิเคราะห์

(นายอลงกต อินทรชาติ)
หัวหน้าสถานีวิจัยประมงศรีราชา

สถานีวิจัยประมงศรีราชา
101/12 หมู่ 9 ต. บางพระ
อ. ศรีราชา จ. ชลบุรี 20110
โทร./โทรสาร. (038) 311379

Client : Rojana Industrial Park Public Co., Ltd.

Address : 2034/115 26TH Fl. Italthai Tower, New Petchburi Road, Bangkapi, Huaykwang, Bangkok, Thailand, 10310

Project Name : Laemchabang

รายงานผลการวิเคราะห์สัตว์หน้าดิน

ตาราง ผลการวิเคราะห์สัตว์หน้าดิน (เก็บตัวอย่างวันที่ 14 พฤศจิกายน 2566)

สกุลสัตว์หน้าดิน	ปริมาณสัตว์หน้าดิน (ตัวต่อตารางเมตร)				
	23128402-1	**23128402-2**	**23128402-3**	**23128402-4**	**23128402-5**
Phylum Annelida					
Class Clitellata					
Order Lumbriculida					
Family Lumbriculidae					
Lumbriculus sp. (ไส้เดือนน้ำ)	-	-	-	-	89
Order Tubificida					
Family Naididae					
Branchiura sp. (ไส้เดือนน้ำ)	-	-	-	-	149
Phylum Arthropoda					
Class Insecta					
Order Diptera					
Family Chironomidae					
Chironomus sp. (หนอนแดง)	519	119	193	60	149

ภาคผนวก ค-6

ผลการตรวจวิเคราะห์โลหะหนักในตะกอนดินใต้ท้องน้ำ

Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location:

Lot ID: 23128408
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2824316-1

Sample Number	23128408-1
Sampled Date	Nov 14, 2023 11:12 AM
Sample Description	ตะกอนดินใต้ท้องน้ำ
Location	SD1 : ห้วยมาบบริเวณต้นน้ำเมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 1,320 เมตร
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/kg	-	0.50	2.43	≤10	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤0.16	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Copper	mg/kg	-	1.00	<1.00	≤21.5	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3060A and 7196A	Bangkok
Lead	mg/kg	-	1.00	3.34	≤36	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	202	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.2	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	<1.00	≤27.5	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	14.7	≤80	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	17.4	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
Chanattagarn Imchom
Section Head

Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location:

Lot ID: 23128408
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2824316-1

Guideline : ประกาศกรมควบคุมมลพิษ เรื่อง เกณฑ์คุณภาพตะกอนดินในแหล่งน้ำผิวดินเพื่อคุ้มครองสัตว์หน้าดิน

Note : Analysis Results expressed on dry basis.

Sampling By : Panupong Manit

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23128408
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2824316-1

Sample Number	23128408-2
Sampled Date	Nov 14, 2023 10:50 AM
Sample Description	ตะกอนดินใต้ท้องน้ำ
Location	SD2 : ห้วยมาบบริเวณจุดปล่อยน้ำทิ้งของโครงการ
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/kg	-	0.50	2.42	≤10	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤0.16	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Copper	mg/kg	-	1.00	<1.00	≤21.5	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3060A and 7196A	Bangkok
Lead	mg/kg	-	1.00	3.60	≤36	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	56.4	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.2	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	<1.00	≤27.5	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	7.99	≤80	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	21.7	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok

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Chanattagarn Imchom
Section Head

Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23128408
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2824316-1

Guideline : ประกาศกรมควบคุมมลพิษ เรื่อง เกณฑ์คุณภาพตะกอนดินในแหล่งน้ำผิวดินเพื่อคุ้มครองสัตว์หน้าดิน

Note : Analysis Results expressed on dry basis.

Sampling By : Panupong Manit

Remark :
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Chanattagarn Imchom
Section Head

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Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location:

Lot ID: 23128408
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2824316-1

Sample Number	23128408-3
Sampled Date	Nov 14, 2023 10:25 AM
Sample Description	ตะกอนดินใต้ท้องน้ำ
Location	SD3 : ห่วยมาบบริเวณท้ายน้ำเมื่อเทียบกับจุดปล่อยน้ำทิ้งของโครงการประมาณ 675 เมตร
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/kg	-	0.50	0.93	≤10	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤0.16	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Copper	mg/kg	-	1.00	<1.00	≤21.5	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3060A and 7196A	Bangkok
Lead	mg/kg	-	1.00	1.85	≤36	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	8.09	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.2	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	<1.00	≤27.5	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	<1.00	≤80	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	11.9	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok

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Chanattagarn Imchom
Section Head

Analysis / Test Report

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2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location:

Lot ID: 23128408
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2824316-1

Guideline : ประกาศกรมควบคุมมลพิษ เรื่อง เกณฑ์คุณภาพตะกอนดินในแหล่งน้ำผิวดินเพื่อคุ้มครองสัตว์หน้าดิน

Note : Analysis Results expressed on dry basis.

Sampling By : Panupong Manit

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23128408
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2824316-1

Sample Number	23128408-4
Sampled Date	Nov 14, 2023 9:35 AM
Sample Description	ตะกอนดินใต้ท้องน้ำ
Location	SD4 : ห้วยอีคุดบริเวณต้นน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 680 เมตร
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/kg	-	0.50	17.4	≤10	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤0.16	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Copper	mg/kg	-	1.00	8.97	≤21.5	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3060A and 7196A	Bangkok
Lead	mg/kg	-	1.00	9.63	≤36	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	591	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.2	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	5.04	≤27.5	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	54.6	≤80	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	22.1	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok

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Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23128408
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2824316-1

Guideline : ประกาศกรมควบคุมมลพิษ เรื่อง เกณฑ์คุณภาพตะกอนดินในแหล่งน้ำผิวดินเพื่อคุ้มครองสัตว์หน้าดิน

Note : Analysis Results expressed on dry basis.

Sampling By : Panupong Manit

Remark :
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Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23128408
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2824316-1

Sample Number	23128408-5
Sampled Date	Nov 14, 2023 9:55 AM
Sample Description	ตะกอนดินใต้ท้องน้ำ
Location	SD5 : ห้วยอีคุบริเวณท้ายน้ำเมื่อเทียบกับที่ตั้งโครงการประมาณ 400 เมตร
Date Analysis Commenced	Nov 16, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/kg	-	0.50	6.74	≤10	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤0.16	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Copper	mg/kg	-	1.00	2.87	≤21.5	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3060A and 7196A	Bangkok
Lead	mg/kg	-	1.00	8.60	≤36	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	237	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.2	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	2.28	≤27.5	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	21.4	≤80	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	20.8	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok

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Chanattagarn Imchom
Section Head

Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23128408
Date Received : Nov 14, 2023
Date Reported : Nov 22, 2023
Report Number : 2824316-1

Guideline : ประกาศกรมควบคุมมลพิษ เรื่อง เกณฑ์คุณภาพตะกอนดินในแหล่งน้ำผิวดินเพื่อคุ้มครองสัตว์หน้าดิน

Note : Analysis Results expressed on dry basis.

Sampling By : Panupong Manit

Remark :
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Chanattagarn Imchom
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ภาคผนวก ค-7

ผลการตรวจวิเคราะห์คุณภาพดิน

Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23126950
Date Received : Nov 16, 2023
Date Reported : Nov 24, 2023
Report Number : 2824350-1

Sample Number	23126950-1
Sampled Date	Nov 16, 2023 3:30 PM
Sample Description	Soil
Location	S1 : พื้นที่สีเขียวด้านทิศเหนือของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/kg	-	0.50	<0.50	≤25	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Barium	mg/kg	-	1.00	1.65	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	≤212	United States Environmental Protection Agency, EPA Method 3060A and 7196A	Bangkok
Iron	mg/kg	-	1.00	482	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	1.50	≤800	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	12.8	≤19640	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	<1.00	≤5205	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	1.19	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok

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Sawitree N.
Sawitree Noisangiam
Manager

Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23126950
Date Received : Nov 16, 2023
Date Reported : Nov 24, 2023
Report Number : 2824350-1

Sample Number	23126950-1
Sampled Date	Nov 16, 2023 3:30 PM
Sample Description	Soil
Location	S1 : พื้นที่สีเขียวด้านทิศเหนือของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Physical Parameters							
Moisture	%	-	0.1	3.7	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	5.2	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564
Class 2: Soil usage for commercial, agricultural and others.
Sampling By : Samart Khumphlee

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Sawitree N.
Sawitree Noisangiam
Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
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Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23126950
Date Received : Nov 16, 2023
Date Reported : Nov 24, 2023
Report Number : 2824350-1

Sample Number	23126950-2
Sampled Date	Nov 16, 2023 2:55 PM
Sample Description	Soil
Location	S2 : พื้นที่สีเขียวด้านทิศตะวันออกของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/kg	-	0.50	<0.50	≤25	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Barium	mg/kg	-	1.00	3.83	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	≤212	United States Environmental Protection Agency, EPA Method 3060A and 7196A	Bangkok
Iron	mg/kg	-	1.00	598	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	1.28	≤800	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	26.7	≤19640	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	1.62	≤5205	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	6.33	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok

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Sawitree N.
Sawitree Noisangiam
Manager

Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23126950
Date Received : Nov 16, 2023
Date Reported : Nov 24, 2023
Report Number : 2824350-1

Sample Number	23126950-2
Sampled Date	Nov 16, 2023 2:55 PM
Sample Description	Soil
Location	S2 : พื้นที่สีเขียวด้านทิศตะวันออกของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Physical Parameters							
Moisture	%	-	0.1	3.7	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	5.7	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564
Class 2: Soil usage for commercial, agricultural and others.
Sampling By : Samart Khumphlee

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
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Analysis / Test Report

Client : Rojana Industrial Park Public Co., Ltd.
2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23126950
Date Received : Nov 16, 2023
Date Reported : Nov 24, 2023
Report Number : 2824350-1

Sample Number	23126950-3
Sampled Date	Nov 16, 2023 2:00 PM
Sample Description	Soil
Location	S3 : พื้นที่สีเขียวด้านทิศใต้ของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/kg	-	0.50	0.82	≤25	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Barium	mg/kg	-	1.00	26.5	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	≤212	United States Environmental Protection Agency, EPA Method 3060A and 7196A	Bangkok
Iron	mg/kg	-	1.00	6428	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	9.46	≤800	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	105	≤19640	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	1.71	≤5205	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	3.01	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok

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Sawitree Noisangiam
Manager

Analysis / Test Report

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2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23126950
Date Received : Nov 16, 2023
Date Reported : Nov 24, 2023
Report Number : 2824350-1

Sample Number	23126950-3
Sampled Date	Nov 16, 2023 2:00 PM
Sample Description	Soil
Location	S3 : พื้นที่สีเขียวด้านทิศใต้ของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Physical Parameters							
Moisture	%	-	0.1	8.0	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	5.0	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564
Class 2: Soil usage for commercial, agricultural and others.
Sampling By : Samart Khumphlee

Remark :
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Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd , Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
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Analysis / Test Report

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2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location:

Lot ID: 23126950
Date Received : Nov 16, 2023
Date Reported : Nov 24, 2023
Report Number : 2824350-1

Sample Number	23126950-4
Sampled Date	Nov 16, 2023 2:35 PM
Sample Description	Soil
Location	S4 : พื้นที่สีเขียวด้านทิศตะวันตกของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/kg	-	0.50	<0.50	≤25	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Barium	mg/kg	-	1.00	5.19	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	≤212	United States Environmental Protection Agency, EPA Method 3060A and 7196A	Bangkok
Iron	mg/kg	-	1.00	738	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	2.82	≤800	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	27.2	≤19640	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	1.23	≤5205	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	2.62	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok

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Sawitree Noisangiam
Manager

Analysis / Test Report

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P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location:

Lot ID: 23126950
Date Received : Nov 16, 2023
Date Reported : Nov 24, 2023
Report Number : 2824350-1

Sample Number	23126950-4
Sampled Date	Nov 16, 2023 2:35 PM
Sample Description	Soil
Location	S4 : พื้นที่สีเขียวด้านทิศตะวันตกของโครงการ
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Physical Parameters							
Moisture	%	-	0.1	3.4	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	4.7	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564
Class 2: Soil usage for commercial, agricultural and others.
Sampling By : Samart Khumphlee

Remark :
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Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
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Analysis / Test Report

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2034/115 26TH Fl. Italthai Towe, New Petchburi Road, Bangkapi, Huaykwang, Bangkok Thailand 10310
P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23126950
Date Received : Nov 16, 2023
Date Reported : Nov 24, 2023
Report Number : 2824350-1

Sample Number	23126950-5
Sampled Date	Nov 16, 2023 2:15 PM
Sample Description	Soil
Location	S5 : บ้านตะเคียนเตี้ย
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/kg	-	0.50	7.47	≤25	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Barium	mg/kg	-	1.00	41.3	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤762	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	≤212	United States Environmental Protection Agency, EPA Method 3060A and 7196A	Bangkok
Iron	mg/kg	-	1.00	4230	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	7.47	≤800	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	180	≤19640	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤263	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	1.22	≤5205	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Selenium	mg/kg	-	0.50	<0.50	≤4380	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Silver	mg/kg	-	1.00	<1.00	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	3.38	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok

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P/O : RJN-LCB-011/66
Project Name : Laemchabang
Project Location :

Lot ID: 23126950
Date Received : Nov 16, 2023
Date Reported : Nov 24, 2023
Report Number : 2824350-1

Sample Number	23126950-5
Sampled Date	Nov 16, 2023 2:15 PM
Sample Description	Soil
Location	S5 : บ้านตะเคียนเตี้ย
Date Analysis Commenced	Nov 17, 2023
Condition of Sample	Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Physical Parameters							
Moisture	%	-	0.1	3.6	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok
Soil Testing							
pH aqueous phase 50% (w/v)		-	-	4.8	No Standard	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

Guideline : Notification of National Environmental Board B.E. 2564 (2021), published in the Royal Government Gazette No. 138 Special Part 54 D dated March 11, B.E.2564
Class 2: Soil usage for commercial, agricultural and others.
Sampling By : Samart Khumphlee

Remark :
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