

โรงงานอุตสาหกรรม

Client : Wata Oilers and Power Pubs Company Limited
202 Moo 11, Bawha Nongkhai Rd., Nongkhai, Sakon Nakhon Thailand 21120

P/O :
Project Name : Factory 1 Monthly
Project Location: Wata 202,

[illegible]

The laboratory has been recognized as an accredited laboratory conformity with the ISO/IEC 17025.

Technical Management

Savitree N

Savitree N, Program
New York
ms@nyu.edu + 212-998-0007

Approved by

Karl W. Auk

Karl W. Auk
Assistant General Manager
ms@nyu.edu + 212-998-0004

[illegible]

Analysis / Test Report

Client : WTA Unides and Power Public Company Limited
222 Moo 11, Buekha Hongthai Rd., Hongthai, Banbua, Rayong Thailand 21120

PTO :
Project Name : Factory Machinery

[illegible]

Technical Management

Sauveterre N.
Savette Program
Manager
with email + 204 x 6007

Approved by

Lark Aub
Lark's Area
Assistant General Manager
with email + 204 x 6004

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TESTING

No. 0042

Lab ID: 2471054

Date Received: 24 Jul 2024

Date Reported: 24 Jul 2024

Report Number: 2427391.1

Client: WML Utilities and Power Public Company Limited
P/O : 222 Moo 11, Ban Nong, Bang Pakong Rd., Bangpakong, Samut Prakan, Bangkok Thailand 11120
Project Name : Factory / Industry
Project Location : WML S1

Sample By : Thana Kuanthong (No. 232) + 6629
Lab : (User of Service)
Contract ID : 222 Moo 11, Ban Nong, Bang Pakong Rd., Bangpakong, Samut Prakan, Bangkok Thailand 11120
Approved / Issued : (User of Service)
The laboratory has been inspected and is accredited to ISO 17025:2017

Analysis / Test Report

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Analysis / Test Report

TESTING

No. 0042

Lab ID: 2471054

Date Received: 24 Jul 2024

Date Reported: 24 Jul 2024

Report Number: 2427391.1

Conditions of Sample	Unit	LOQ	Recovery	Addition of spike (ppm)	Method	Recovery (%)
Water Testing	Water Testing					
	1000 L of water at 25 degrees C	mg/L	± 0.0	21.3	5000	Recovery
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
CO ₂	CO ₂	mg/L	± 1.5	25	82	Recovery
					5000	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
CO ₂ in Gas	CO ₂ in Gas	mg/L	± 3	4	510	Recovery
					5000	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
Residual free of Chlorine *	Residual free of Chlorine *	mg/L	± 0.1	<0.1	1	Recovery
					5000	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
Frequency *	Frequency *	degrees C	±	30.3	146	Recovery
					5000	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
Total Dissolved Solids (Total at 180 degrees C)	Total Dissolved Solids (Total at 180 degrees C)	mg/L	± 5	146	3000	Recovery
					5000	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
Total Suspended Solids (Total at 100 degrees C)	Total Suspended Solids (Total at 100 degrees C)	mg/L	± 5	20	1000	Recovery
					5000	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995
					1000 L of water at 25 degrees C	Standard method for water and wastewater analysis, 19th ed., APHA, AWWA, WEF, 1995

[illegible][illegible]



Analysis / Test Report

Client: WMS Utilities and Power Public Company Limited
Lot ID: 2408090812
Date Reported: Sep 18, 2024
Date Expected: Sep 18, 2024
Report Number: 891915-1

Project Location: WMS SL

Sample Date: Sep 18, 2024 14:00 PM

Sample Description: Group 2: Customer Water (W/CCT)

Contract ID: RIL 001 2564

Site: Onshore (Thailand) Co., Ltd.

Conditions of Sample: Groundwater under glass bottle and four plastic bottles. Sample containers comply to pre-treatment - preservation standards.

Physical Property: Volume: 1 L of water, some acid and sealed

Analyte	Unit	EQD	EQD	Result	Guideline / Specification	Method	Testing Laboratory
Water Testing							
ROD 15 days at 25 Degree C	mg/L	-	2.0	63.0	2500		Repping
COO	mg/L	1.5	25	296	<50		Repping
Oil & Grease	mg/L	-	3	5	610		Repping
pH (on site) *	-	-	-	7.7	5.5-9.0		Repping
Residual Free Chlorine *	mg/L	-	0.1	<0.1	41		Repping
Temperature *	Degree C	-	-	32.2	15-25		Repping
Total Dissolved Solids Over at 180 degree C	mg/L	-	5	260	2000		Repping
Total Suspended Solids Over at 125-155 degree C	mg/L	-	5	110	<200		Repping

Guidelines: Standard of WMS Sampling Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant (Customer and Monitoring Area after 30/11/2023)

Technical Management: Photchanh S. (Signature)
Approved by: D. Chongtham (Signature)
Senior Manager
www.alstest.com



Analysis / Test Report

Client: WMS Utilities and Power Public Company Limited
Lot ID: 2408090812
Date Reported: Sep 18, 2024
Date Expected: Sep 18, 2024
Report Number: 891915-1

Project Location: WMS SL

Sample Date: Sep 18, 2024 14:00 PM

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Oil & Grease	mg/L	-	3	5	610		Repping
pH (on site) *	-	-	-	7.7	5.5-9.0		Repping
Residual Free Chlorine *	mg/L	-	0.1	<0.1	41		Repping
Temperature *	Degree C	-	-	32.2	15-25		Repping
Total Dissolved Solids Over at 180 degree C	mg/L	-	5	260	2000		Repping
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Technical Management: Photchanh S. (Signature)
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Senior Manager
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Client: WMS Utilities and Power Public Company Limited
Lot ID: 2408090812
Date Reported: Sep 18, 2024
Date Expected: Sep 18, 2024
Report Number: 891915-1

Project Location: WMS SL

Sample Date: Sep 18, 2024 13:14 PM

Sample Description: Group 2: Customer Water (W/CCT)

Contract ID: RIL 001 2564

Site: Onshore (Thailand) Co., Ltd.

Conditions of Sample: Groundwater under glass bottle and four plastic bottles. Sample containers comply to pre-treatment - preservation standards.

Physical Property: Volume: 1 L of water, some acid and sealed

Analyte	Unit	EQD	EQD	Result	Guideline / Specification	Method	Testing Laboratory
Water Testing							
ROD 15 days at 25 Degree C	mg/L	-	2.0	<2.0	2500		Repping
COO	mg/L	1.5	25	<45	5700		Repping
Oil & Grease	mg/L	-	3	<3	610		Repping
pH (on site) *	-	-	-	7.3	5.5-9.0		Repping
Residual Free Chlorine *	mg/L	-	0.1	<0.1	41		Repping
Temperature *	Degree C	-	-	31.7	15-25		Repping
Total Dissolved Solids Over at 180 degree C	mg/L	-	5	124	2000		Repping
Total Suspended Solids Over at 125-155 degree C	mg/L	-	5	10	<200		Repping

Guidelines: Standard of WMS Sampling Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant (Customer and Monitoring Area after 30/11/2023)

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Water Testing							
ROD 15 days at 25 Degree C	mg/L	-	2.0	<2.0	2500		Repping
COO	mg/L	1.5	25	<45	5700		Repping
Oil & Grease	mg/L	-	3	<3	610		Repping
pH (on site) *	-	-	-	7.3	5.5-9.0		Repping
Residual Free Chlorine *	mg/L	-	0.1	<0.1	41		Repping
Temperature *	Degree C	-	-	31.7	15-25		Repping
Total Dissolved Solids Over at 180 degree C	mg/L	-	5	124	2000		Repping
Total Suspended Solids Over at 125-155 degree C	mg/L	-	5	10	<200		Repping

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Senior Manager
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Report Number: 891915-1

Project Location: WMS SL

Sample Date: Sep 18, 2024 13:14 PM

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Site: Onshore (Thailand) Co., Ltd.

Conditions of Sample: Groundwater under glass bottle and four plastic bottles. Sample containers comply to pre-treatment - preservation standards.

Physical Property: Volume: 1 L of water, some acid and sealed

Analyte	Unit	EQD	EQD	Result	Guideline / Specification	Method	Testing Laboratory
Water Testing							
ROD 15 days at 25 Degree C	mg/L	-	2.0	344	2500		Repping
COO	mg/L	1.5	25	346	5700		Repping
Oil & Grease	mg/L	-	3	7	610		Repping
pH (on site) *	-	-	-	6.9	5.5-9.0		Repping
Residual Free Chlorine *	mg/L	-	0.1	<0.1	41		Repping
Temperature *	Degree C	-	-	30.0	15-25		Repping
Total Dissolved Solids Over at 180 degree C	mg/L	-	5	492	2000		Repping
Total Suspended Solids Over at 125-155 degree C	mg/L	-	5	57	<200		Repping

Guidelines: Standard of WMS Sampling Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant (Customer and Monitoring Area after 30/11/2023)

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Physical Property: Volume: 1 L of water, some acid and sealed

Analyte	Unit	EQD	EQD	Result	Guideline / Specification	Method	Testing Laboratory
Water Testing							
ROD 15 days at 25 Degree C	mg/L	-	2.0	344	2500		Repping
COO	mg/L	1.5	25	346	5700		Repping
Oil & Grease	mg/L	-	3	7	610		Repping
pH (on site) *	-	-	-	6.9	5.5-9.0		Repping
Residual Free Chlorine *	mg/L	-	0.1	<0.1	41		Repping
Temperature *	Degree C	-	-	30.0	15-25		Repping
Total Dissolved Solids Over at 180 degree C	mg/L	-	5	492	2000		Repping
Total Suspended Solids Over at 125-155 degree C	mg/L	-	5	57	<200		Repping

Guidelines: Standard of WMS Sampling Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant (Customer and Monitoring Area after 30/11/2023)

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Report Number: 891915-1

Project Location: WMS SL

Sample Date: Sep 18, 2024 13:14 PM

Sample Description: Group 2: Customer Water (W/CCT)

Contract ID: RIL 001 2564

Site: Onshore (Thailand) Co., Ltd.

Conditions of Sample: Groundwater under glass bottle and four plastic bottles. Sample containers comply to pre-treatment - preservation standards.

Physical Property: Volume: 1 L of water, some acid and sealed

Analyte	Unit	EQD	EQD	Result	Guideline / Specification	Method	Testing Laboratory
Water Testing							
ROD 15 days at 25 Degree C	mg/L	-	2.0	344	2500		Repping
COO	mg/L	1.5	25	346	5700		Repping
Oil & Grease	mg/L	-	3	7	610		Repping
pH (on site) *	-	-	-	6.9	5.5-9.0		Repping
Residual Free Chlorine *	mg/L	-	0.1	<0.1	41		Repping
Temperature *	Degree C	-	-	30.0	15-25		Repping
Total Dissolved Solids Over at 180 degree C	mg/L	-	5	492	2000		Repping
Total Suspended Solids Over at 125-155 degree C	mg/L	-	5	57	<200		Repping

Guidelines: Standard of WMS Sampling Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant (Customer and Monitoring Area after 30/11/2023)

Technical Management: Photchanh S. (Signature)
Approved by: D. Chongtham (Signature)
Senior Manager
www.alstest.com



Analysis / Test Report

Client: WTS Motors and Power Solutions Company Limited
P/O 1: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
P/O 2: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
Project Location: WTS 11

Sample Number: 24000001
Sample Date: Sep 09, 2024 1:00 PM
Sample Description: Group 2: Customer Warehouse (WWS-CT)
Contract ID: RL 002 2507 Pkt. A370
Date Analyzed: Sep 09, 2024
Date Reported: Sep 16, 2024
Report Number: 20240916-1

Analysis	Unit	LOD (ppm)	Result	Guideline / Specification	Method	Testing Location
Water Testing						
NO3 (5 days at 20 Degrees C)	mg/L	2.0	36.3	2500	Standard Method for the Determination of Nitrate Nitrogen in Water by Cadmium Reduction, APHA 4500-NO3 F	Factory
COD	mg/L	15	109	4000	Standard Method for the Determination of Chemical Oxygen Demand in Water by Potassium Dichromate Oxidation, APHA 5210-COD	Factory
Oil & Grease	mg/L	3	7	410	Standard Method for the Determination of Oil and Grease in Water by Spectrophotometry, APHA 157.1-06-01-01	Factory
pH (at 20°C)			7.1	5.5-9.0	Standard Method for the Determination of pH in Water by Glass Electrode, APHA 4500-OR	Factory
Residual Free Chlorine *	mg/L	0.1	<0.1	41	Standard Method for the Determination of Residual Free Chlorine in Water by N,N-Dimethyl-p-Phenylenediamine Di-Hydrochloride (DPD) Colorimetry, APHA 4500-Clor	Factory
Temperature *	Degrees C		29.9	45	Standard Method for the Determination of Temperature in Water by Thermometer, APHA 2550-T	Factory
Total Dissolved Solids (TDS) at 180 degrees C	mg/L	5	291	2000	Standard Method for the Determination of Total Dissolved Solids in Water by Gravimetry, APHA 2540-TDS	Factory
Total Suspended Solids (TSS) at 105 degrees C	mg/L	5	123	2000	Standard Method for the Determination of Total Suspended Solids in Water by Gravimetry, APHA 2540-TSS	Factory

Guideline: Standard of WHO Reporting Industrial Land. Maximum levels for wastewater discharging to water treatment plant (Customer and factory use after July 2013).

Technical Management: Phichonn S.
Approved by: Dr. Chongkarn S.
Signature: [Signature]
Date: 2024-09-16



Analysis / Test Report

Client: WTS Motors and Power Solutions Company Limited
P/O 1: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
P/O 2: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
Project Location: WTS 11

Sample Number: 24000002
Sample Date: Sep 09, 2024 1:00 PM
Sample Description: Group 2: Customer Warehouse (WWS-CT)
Contract ID: RL 002 2507 Pkt. A370
Date Analyzed: Sep 09, 2024
Date Reported: Sep 16, 2024
Report Number: 20240916-2

Analysis	Unit	LOD (ppm)	Result	Guideline / Specification	Method	Testing Location
Water Testing						
Phenol	mg/L	0.001	0.01	<0.010	Standard Method for the Determination of Phenol in Water by 4-Aminoantipyrine Method, APHA 5510-Phen	Factory
Temperature *	Degrees C		30.4	45	Standard Method for the Determination of Temperature in Water by Thermometer, APHA 2550-T	Factory
Degrees C	mg/L	5	2308	2000	Standard Method for the Determination of Chemical Oxygen Demand in Water by Potassium Dichromate Oxidation, APHA 5210-COD	Factory
Total Suspended Solids (TSS) at 105 degrees C	mg/L	5	37	2000	Standard Method for the Determination of Total Suspended Solids in Water by Gravimetry, APHA 2540-TSS	Factory

Guideline: Standard of WHO Reporting Industrial Land. Maximum levels for wastewater discharging to water treatment plant (Customer and factory use after July 2013).

UO: Limit of Detection
Approved by: Dr. Chongkarn S.
Signature: [Signature]
Date: 2024-09-16

Technical Management: Phichonn S.
Approved by: Dr. Chongkarn S.
Signature: [Signature]
Date: 2024-09-16



Analysis / Test Report

Client: WTS Motors and Power Solutions Company Limited
P/O 1: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
P/O 2: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
Project Location: WTS 11

Sample Number: 24000003
Sample Date: Sep 09, 2024 1:00 PM
Sample Description: Group 2: Customer Warehouse (WWS-CT)
Contract ID: RL 002 2507 Pkt. A370
Date Analyzed: Sep 09, 2024
Date Reported: Sep 16, 2024
Report Number: 20240916-3

Analysis	Unit	LOD (ppm)	Result	Guideline / Specification	Method	Testing Location
Water Testing						
NO3 (5 days at 20 Degrees C)	mg/L	2.0	42.0	2500	Standard Method for the Determination of Nitrate Nitrogen in Water by Cadmium Reduction, APHA 4500-NO3 F	Factory
COD	mg/L	15	425	4000	Standard Method for the Determination of Chemical Oxygen Demand in Water by Potassium Dichromate Oxidation, APHA 5210-COD	Factory
Oil & Grease	mg/L	3	7	410	Standard Method for the Determination of Oil and Grease in Water by Spectrophotometry, APHA 157.1-06-01-01	Factory
pH (at 20°C)			7.1	5.5-9.0	Standard Method for the Determination of pH in Water by Glass Electrode, APHA 4500-OR	Factory
Residual Free Chlorine *	mg/L	0.1	<0.005	41	Standard Method for the Determination of Residual Free Chlorine in Water by N,N-Dimethyl-p-Phenylenediamine Di-Hydrochloride (DPD) Colorimetry, APHA 4500-Clor	Factory
Temperature *	Degrees C		30.3	45	Standard Method for the Determination of Temperature in Water by Thermometer, APHA 2550-T	Factory
Total Dissolved Solids (TDS) at 180 degrees C	mg/L	5	43	2000	Standard Method for the Determination of Total Dissolved Solids in Water by Gravimetry, APHA 2540-TDS	Factory
Total Suspended Solids (TSS) at 105 degrees C	mg/L	5	6.6	2000	Standard Method for the Determination of Total Suspended Solids in Water by Gravimetry, APHA 2540-TSS	Factory

Guideline: Standard of WHO Reporting Industrial Land. Maximum levels for wastewater discharging to water treatment plant (Customer and factory use after July 2013).

Technical Management: Phichonn S.
Approved by: Dr. Chongkarn S.
Signature: [Signature]
Date: 2024-09-16



Analysis / Test Report

Client: WTS Motors and Power Solutions Company Limited
P/O 1: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
P/O 2: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
Project Location: WTS 11

Sample Number: 24000004
Sample Date: Sep 09, 2024 1:00 PM
Sample Description: Group 2: Customer Warehouse (WWS-CT)
Contract ID: RL 002 2507 Pkt. A370
Date Analyzed: Sep 09, 2024
Date Reported: Sep 16, 2024
Report Number: 20240916-4

Analysis	Unit	LOD (ppm)	Result	Guideline / Specification	Method	Testing Location
Water Testing						
Hardness	mg/L	0.001	0.005	0.04	Standard Method for the Determination of Hardness in Water by EDTA Titrimetry, APHA 2100-Hard	Factory
Boron	mg/L	0.001	0.005	0.02	Standard Method for the Determination of Boron in Water by Inductively Coupled Plasma Atomic Emission Spectrometry, APHA 3100-Bor	Factory
Calcium	mg/L	0.001	0.005	Not Detected	Standard Method for the Determination of Calcium in Water by Inductively Coupled Plasma Atomic Emission Spectrometry, APHA 3100-Calc	Factory
Copper	mg/L	0.001	0.005	0.08	Standard Method for the Determination of Copper in Water by Inductively Coupled Plasma Atomic Emission Spectrometry, APHA 3100-Cup	Factory
Nitrate Nitrogen	mg/L	0.001	0.01	Not Detected	Standard Method for the Determination of Nitrate Nitrogen in Water by Cadmium Reduction, APHA 4500-NO3 F	Factory
Lead	mg/L	0.001	0.005	0.05	Standard Method for the Determination of Lead in Water by Inductively Coupled Plasma Atomic Emission Spectrometry, APHA 3100-Pb	Factory
Ringworm	mg/L	0.001	0.005	0.46	Standard Method for the Determination of Ringworm in Water by Inductively Coupled Plasma Atomic Emission Spectrometry, APHA 3100-Ring	Factory

Guideline: Standard of WHO Reporting Industrial Land. Maximum levels for wastewater discharging to water treatment plant (Customer and factory use after July 2013).

UO: Limit of Detection
Approved by: Dr. Chongkarn S.
Signature: [Signature]
Date: 2024-09-16

Technical Management: Phichonn S.
Approved by: Dr. Chongkarn S.
Signature: [Signature]
Date: 2024-09-16



Analysis / Test Report

Client: WTS Motors and Power Solutions Company Limited
P/O 1: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
P/O 2: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
Project Location: WTS 11

Sample Number: 24000005
Sample Date: Sep 09, 2024 1:00 PM
Sample Description: Group 2: Customer Warehouse (WWS-CT)
Contract ID: RL 002 2507 Pkt. A370
Date Analyzed: Sep 09, 2024
Date Reported: Sep 16, 2024
Report Number: 20240916-5

Analysis	Unit	LOD (ppm)	Result	Guideline / Specification	Method	Testing Location
Water Testing						
NO3 (5 days at 20 Degrees C)	mg/L	2.0	42.0	2500	Standard Method for the Determination of Nitrate Nitrogen in Water by Cadmium Reduction, APHA 4500-NO3 F	Factory
COD	mg/L	15	425	4000	Standard Method for the Determination of Chemical Oxygen Demand in Water by Potassium Dichromate Oxidation, APHA 5210-COD	Factory
Oil & Grease	mg/L	3	7	410	Standard Method for the Determination of Oil and Grease in Water by Spectrophotometry, APHA 157.1-06-01-01	Factory
pH (at 20°C)			7.1	5.5-9.0	Standard Method for the Determination of pH in Water by Glass Electrode, APHA 4500-OR	Factory
Residual Free Chlorine *	mg/L	0.1	<0.005	41	Standard Method for the Determination of Residual Free Chlorine in Water by N,N-Dimethyl-p-Phenylenediamine Di-Hydrochloride (DPD) Colorimetry, APHA 4500-Clor	Factory
Temperature *	Degrees C		30.3	45	Standard Method for the Determination of Temperature in Water by Thermometer, APHA 2550-T	Factory
Total Dissolved Solids (TDS) at 180 degrees C	mg/L	5	43	2000	Standard Method for the Determination of Total Dissolved Solids in Water by Gravimetry, APHA 2540-TDS	Factory
Total Suspended Solids (TSS) at 105 degrees C	mg/L	5	6.6	2000	Standard Method for the Determination of Total Suspended Solids in Water by Gravimetry, APHA 2540-TSS	Factory

Guideline: Standard of WHO Reporting Industrial Land. Maximum levels for wastewater discharging to water treatment plant (Customer and factory use after July 2013).

Technical Management: Phichonn S.
Approved by: Dr. Chongkarn S.
Signature: [Signature]
Date: 2024-09-16



Analysis / Test Report

Client: WTS Motors and Power Solutions Company Limited
P/O 1: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
P/O 2: 222 No. 11, Bantua Mangrove Rd., Mangrove, Bangkok, Bangkok 10100
Project Location: WTS 11

Sample Number: 24000006
Sample Date: Sep 09, 2024 1:00 PM
Sample Description: Group 2: Customer Warehouse (WWS-CT)
Contract ID: RL 002 2507 Pkt. A370
Date Analyzed: Sep 09, 2024
Date Reported: Sep 16, 2024
Report Number: 20240916-6

Analysis	Unit	LOD (ppm)	Result	Guideline / Specification	Method	Testing Location
Water Testing						
Hardness	mg/L	0.001	0.005	<0.005	Standard Method for the Determination of Hardness in Water by EDTA Titrimetry, APHA 2100-Hard	Factory
Boron	mg/L	0.001	0.005	0.01	Standard Method for the Determination of Boron in Water by Inductively Coupled Plasma Atomic Emission Spectrometry, APHA 3100-Bor	Factory
Calcium	mg/L	0.001	0.005	Not Detected	Standard Method for the Determination of Calcium in Water by Inductively Coupled Plasma Atomic Emission Spectrometry, APHA 3100-Calc	Factory
Copper	mg/L	0.001	0.005	0.08	Standard Method for the Determination of Copper in Water by Inductively Coupled Plasma Atomic Emission Spectrometry, APHA 3100-Cup	Factory
Nitrate Nitrogen	mg/L	0.001	0.01	Not Detected	Standard Method for the Determination of Nitrate Nitrogen in Water by Cadmium Reduction, APHA 4500-NO3 F	Factory
Lead	mg/L	0.001	0.005	0.05	Standard Method for the Determination of Lead in Water by Inductively Coupled Plasma Atomic Emission Spectrometry, APHA 3100-Pb	Factory
Ringworm	mg/L	0.001	0.005	0.26	Standard Method for the Determination of Ringworm in Water by Inductively Coupled Plasma Atomic Emission Spectrometry, APHA 3100-Ring	Factory

Guideline: Standard of WHO Reporting Industrial Land. Maximum levels for wastewater discharging to water treatment plant (Customer and factory use after July 2013).

UO: Limit of Detection
Approved by: Dr. Chongkarn S.
Signature: [Signature]
Date: 2024-09-16

Technical Management: Phichonn S.
Approved by: Dr. Chongkarn S.
Signature: [Signature]
Date: 2024-09-16





Analysis / Test Report

Client: WWA Utilities and Power Public Company Limited
222 Moo 11, Bantha Hongdang Rd., Hongdang, Bantha, Rayong Thailand 21120
Date Received: Oct 07, 2024
Date Reported: Oct 07, 2024
Project Name: Factory Upgrade
Project Location: WWA RIL

Sampling By: Thonchai Sathaporn on 2024-10-07 13:21:00

Notes:
1. Lower than 100 (Limit of Quantitation) (LOQ) Limit of Detection
2. The detection limit is based on the standard deviation of the blank sample.
3. The detection limit is based on the standard deviation of the blank sample.

Sample Number: 2411107-1
Sample Date: Oct 07, 2024 12:30:04
Sample Description: Group 2: Customer Wastewater (WWCCT)
Sample Location: WWA RIL
Sample ID: 2411107-1
Sample Name: Factory Upgrade
Sample Location: WWA RIL

Condition of Sample: Consistent in one and same place and time. Sample containers comply to preservation - preservation.
Physical Property: Yellow, some odor, and not solid

Water Testing: 800 (15 min at 25 Degree C) mg/L - 2.0 318 4500

CO2 mg/L - 1.5 25 78 5750

Oil & Grease mg/L - 3 43 510

pH (on site) - 7.8 5.9-9.0

Residual Free Chlorine * mg/L - 0.1 <0.1 5.1

Temperature * Degree C - 30.1 30.1 545

Total Dissolved Solids Dried at 180 mg/L - 5 46 5300

Total Suspended Solids Dried at 180 mg/L - 5 19 5200

Guidelines: Standard of WWA Factory Industrial Land. Maximum level for wastewater discharging to central wastewater treatment plant.

Technical Management: Photachon S. Approved by: D. Chongkarn

Signature: [Signature]

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Analysis / Test Report

Client: WWA Utilities and Power Public Company Limited
222 Moo 11, Bantha Hongdang Rd., Hongdang, Bantha, Rayong Thailand 21120
Date Received: Oct 07, 2024
Date Reported: Oct 07, 2024
Project Name: Factory Upgrade
Project Location: WWA RIL

Sampling By: Thonchai Sathaporn on 2024-10-07 13:21:00

Notes:
1. Lower than 100 (Limit of Quantitation) (LOQ) Limit of Detection
2. The detection limit is based on the standard deviation of the blank sample.
3. The detection limit is based on the standard deviation of the blank sample.

Sample Number: 2411107-1
Sample Date: Oct 07, 2024 12:30:04
Sample Description: Group 2: Customer Wastewater (WWCCT)
Sample Location: WWA RIL
Sample ID: 2411107-1
Sample Name: Factory Upgrade
Sample Location: WWA RIL

Condition of Sample: Consistent in one and same place and time. Sample containers comply to preservation - preservation.
Physical Property: Yellow, some odor, and not solid

Water Testing: 800 (15 min at 25 Degree C) mg/L - 2.0 318 4500

CO2 mg/L - 1.5 25 78 5750

Oil & Grease mg/L - 3 43 510

pH (on site) - 7.8 5.9-9.0

Residual Free Chlorine * mg/L - 0.1 <0.1 5.1

Temperature * Degree C - 30.1 30.1 545

Total Dissolved Solids Dried at 180 mg/L - 5 46 5300

Total Suspended Solids Dried at 180 mg/L - 5 19 5200

Guidelines: Standard of WWA Factory Industrial Land. Maximum level for wastewater discharging to central wastewater treatment plant.

Technical Management: Photachon S. Approved by: D. Chongkarn

Signature: [Signature]

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Analysis / Test Report

Client: WWA Utilities and Power Public Company Limited
222 Moo 11, Bantha Hongdang Rd., Hongdang, Bantha, Rayong Thailand 21120
Date Received: Oct 07, 2024
Date Reported: Oct 07, 2024
Project Name: Factory Upgrade
Project Location: WWA RIL

Sampling By: Thonchai Sathaporn on 2024-10-07 13:21:00

Notes:
1. Lower than 100 (Limit of Quantitation) (LOQ) Limit of Detection
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Sample Number: 2411107-1
Sample Date: Oct 07, 2024 12:30:04
Sample Description: Group 2: Customer Wastewater (WWCCT)
Sample Location: WWA RIL
Sample ID: 2411107-1
Sample Name: Factory Upgrade
Sample Location: WWA RIL

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CO2 mg/L - 1.5 25 78 5750

Oil & Grease mg/L - 3 43 510

pH (on site) - 7.8 5.9-9.0

Residual Free Chlorine * mg/L - 0.1 <0.1 5.1

Temperature * Degree C - 30.1 30.1 545

Total Dissolved Solids Dried at 180 mg/L - 5 46 5300

Total Suspended Solids Dried at 180 mg/L - 5 19 5200

Guidelines: Standard of WWA Factory Industrial Land. Maximum level for wastewater discharging to central wastewater treatment plant.

Technical Management: Photachon S. Approved by: D. Chongkarn

Signature: [Signature]

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Analysis / Test Report

222 Joo 11, Bedokh Singapore Rd, Singapore, Rashee, Rango Thailand 21120
 Email: info@rashee.com and rashee@rashee.com
 Project Name : Factory | Monthly
 Project Location : West Hill
 Report Number : 311605 1
 Date Reported : 14/04/2024
 Date Received : 15/04/2024
 Lot ID: 24124802
 Date Recd : 15/04/2024

[illegible]

TechGlobal Management

Photocharms

Programme No.
Semester(s) : 3rd & 6th
enrolled as : 323 & 0078

Approved by _____

Dt: 09/08/2018

Srini Manager
mfr@photocharms.com

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Analysis / Test Report

Client: WPA Utilities and Power Public Company Limited
222 Moo 11, Baekha Hongkai Rd., Bangkai, Bangkok, Thailand 21120
P/O: _____
Lot ID: 24124799
Date Received: Nov 07, 2024
Date Registered: Nov 14, 2024
Project Name: Factory Machinery
Project Location: Factory Machinery
Project Leader: With All
Report Number: 31582-1

[illegible]

Technical Management

Photobahn 5.

Approved by _____

(By) D. J. Dunham
Senior Manager

Sentiment (4)
mscSigned = 3731 + 0028
mscSigned = 3731 + 0001

[illegible]

Analysis / Test Report

222 Joo 11, Bedok, Singapore 437000, Republic of Singapore
 Tel: +65 6349 1111 Fax: +65 6349 1112
 Email: info@wipac.com.sg
 Website: www.wipac.com.sg

[illegible]

TechGlobal Management
 Photocharms
 Approved by *D. Kumbhar*
 The Owington
 Senior Manager
 on 24/04/2018 at 20:23:00
 Payment made
 on 24/04/2018 at 20:23:00

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Analysis / Test Report

Client: WPA Utilities and Power Public Company Limited
222 Moo 11, Baekha Hongkai Rd., Bangkai, Bangkok, Thailand 11220
P/O: _____
Lot ID: 24124799
Date Received: Nov 07, 2024
Date Registered: Nov 14, 2024
Project Name: Factory Machinery
Project Location: Factory Machinery
Project Leader: With All
Report Number: 31582-1

[illegible]

Technical Management

Photobooks 5.

Approved by *D. Dunham*

By: Dunham
Senior Manager
msdunham@msd.com

Submitted by:
Photobooks 5
msdunham@msd.com

[illegible]

Analysis / Test Report

Client : VWS (Utilities and Power Public Company Limited)
222 Hua Hin Rd., Bangkok, Bangkok, Bangkok, Bangkok 10110
Tel : 02-111-1111
Project Name : Factory Monthly
Project Location : Wido RIL
Lot ID : 241124802
Date Received : Nov 01, 2024
Date Reported : Jan 14, 2024
Report Number : 3116802

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Analysis / Test Report

Client: WMA Utilities and Power Public Company Limited
222 Moo 11, Santhar (Tongdalo) Rd., Bangkhalo, Bangkok, Thailand 11120
P/O :
Project Name : Factory Monthly
Project Location : WMA all
Lot ID: 24129799
Date Received: Nov 07, 2024
Date Reported: Nov 14, 2024
Report Number: 315582-2

[illegible]

Approved by _____

Photomana S.

Photomana Sarda
Sardania (N)

ACP 156610-0005 | Myanmar Air, Myanmar Airways Pte Ltd Thailand | T: +66 0 2391 8555 | F: +66 0 2391 8556
 101, 102 & 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905,

Client: WMA Utilities and Power Public Company Limited
222 Moo 11, Binha (Longphak) rd., Hongthong, Bangkok, Bangkok Thailand 11120
P/O :
Publisher Name : Eastern University
No 0042
Lot ID: 24124777
Date Received : Nov 08, 2024
Our Reported : Nov 14, 2024

[illegible][illegible]

Client: WMA Utilities and Power Public Company Limited
222 Moo 11, Bangkhai Hongkai Rd., Hongkai, Bangkok, Bangkok, Bangkok Thailand 11120
Analysis / Test Report
No 0042
Lot ID: 24133653
Date Received: Dec 02, 2024
Date Reported: Dec 07, 2024

[illegible]

Building Standard of Wuli Ziyang Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant (Cspatmon and Cspatmon)

Technical Management

Chontachak
General Manager
Sales (IT)

Approved by *Dhanu*
General Manager
Sales Manager

Endorsed: 1321-0031

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Client : VNA Utilities and Power Public Company Limited
222 Moo 11, Bangkha Hongdai Rd., Hongdai, Bangkha, Rayong Thailand 21120
P/O :
Project Name : Factory / Manoby

Sampling Site: Primary Thungyai National Park (2°32'N, 102°30'E), Sarawak, Borneo, Malaysia

[illegible]

Guideline : Standard of VMA Rayong Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

Technical Management

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Chontichak Sathongkarn
Secretary (T)
MOU-001, 123-0001
MOU-001, 123-0001

Approved by D. Chongkarn
Dr. Chongkarn
Senior Manager
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Client : WTA Utilities and Power Public Company Limited
222 Moo 11, Banwa Nganglak Rd , Nanglak, Banthua, Rayong Thailand 21220
P/O :
Project Name : Factory / Monthly

Sampling By: Arthur Thompson on 08/05/01 10:23 AM, Street: Dunelm Way, Dunelm, North Yorkshire, YO19 1QF

Data Analyst Generated									
Confidentiality of Sample									
Source: National Center for Health Statistics, Sample obtained through participant's permission through									
Study ID	Study Name	Study Location	Study Period	Study Design	Study Population	Study Size	Study Status	Study Date	Study Version
1001	Study 1	Study 1 Location	Study 1 Period	Study 1 Design	Study 1 Population	Study 1 Size	Study 1 Status	Study 1 Date	Study 1 Version
1002	Study 2	Study 2 Location	Study 2 Period	Study 2 Design	Study 2 Population	Study 2 Size	Study 2 Status	Study 2 Date	Study 2 Version
1003	Study 3	Study 3 Location	Study 3 Period	Study 3 Design	Study 3 Population	Study 3 Size	Study 3 Status	Study 3 Date	Study 3 Version
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1006	Study 6	Study 6 Location	Study 6 Period	Study 6 Design	Study 6 Population	Study 6 Size	Study 6 Status	Study 6 Date	Study 6 Version
1007	Study 7	Study 7 Location	Study 7 Period	Study 7 Design	Study 7 Population	Study 7 Size	Study 7 Status	Study 7 Date	Study 7 Version
1008	Study 8	Study 8 Location	Study 8 Period	Study 8 Design	Study 8 Population	Study 8 Size	Study 8 Status	Study 8 Date	Study 8 Version
1009	Study 9	Study 9 Location	Study 9 Period	Study 9 Design	Study 9 Population	Study 9 Size	Study 9 Status	Study 9 Date	Study 9 Version
1010	Study 10	Study 10 Location	Study 10 Period	Study 10 Design	Study 10 Population	Study 10 Size	Study 10 Status	Study 10 Date	Study 10 Version
1011	Study 11	Study 11 Location	Study 11 Period	Study 11 Design	Study 11 Population	Study 11 Size	Study 11 Status	Study 11 Date	Study 11 Version
1012	Study 12	Study 12 Location	Study 12 Period	Study 12 Design	Study 12 Population	Study 12 Size	Study 12 Status	Study 12 Date	Study 12 Version
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1024	Study 24	Study 24 Location	Study 24 Period	Study 24 Design	Study 24 Population	Study 24 Size	Study 24 Status	Study 24 Date	Study 24 Version
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1026	Study 26	Study 26 Location	Study 26 Period	Study 26 Design	Study 26 Population	Study 26 Size	Study 26 Status	Study 26 Date	Study 26 Version
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Technical Management: Chontichak
Chonticha Subongkath
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Approved by: D. J. J. J.
(Dr) Dangdon
Senior Manager
Date: 2011-11-11

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