

ภาคผนวกที่ 3

รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม

1. คุณภาพอากาศจากปล่องระบาย
2. คุณภาพอากาศในบรรยากาศทั่วไป
3. คุณภาพน้ำทิ้ง
4. ระดับเสียงในบรรยากาศทั่วไป
5. คุณภาพอากาศในพื้นที่ทำงาน
6. ระดับเสียงในพื้นที่ทำงาน
7. ระดับความร้อน

คุณภาพอากาศจากปล่องระบาย



บริษัท เอ็ม อี ที จำกัด MET CO.,LTD.

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501
REPORT NO. : 011350/2024

ANALYSIS REPORT

CLIENT NAME : P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS : 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR : ENVIRONMENT DEPARTMENT
CONTACT INFORMATION : TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Stack Description		Sampling Condition	
Stack Height from Ground (m)	: 37.0	Atmospheric Pressure (mm.Hg)	: 758
Diameter (m)	: 1.50	Ambient Temperature (°C)	: 30
Temperature (°C)	: 207	Type of Process	: Combustion
Gas Velocity (m/s)	: 22.22	Type of Fuel	: Biomass
Flow Rate (Nm ³ /h)	: 82878.31	Type of Air Pollution	: Cyclone
Oxygen (%)	: 7.83	GPS	: 47P 0756543 E, 1453976 N
Carbon Dioxide (%)	: 14.11	Sampling Date	: 08/05/2024
Moisture (%)	: 5.11	Received Date	: 10/05/2024
Isokinetic (%)	: 99.22	Analytical Date	: 10-24/05/2024
Excess Air (%)	: 61.25	Reported Date	: 28/05/2024
Shape	: Circle	Sampling By	: Mr. Anupong Namsrithan (ว-100-จ-6515)
		Analyzed By	: Miss Siriwan Boonpeng (ว-100-จ-7638)

Location	Parameter	Method of Analysis	Time	Result		Standard	Unit
				% Actual O ₂ ^{1/}	7% O ₂ ^{2/}		
Boiler Chinese No. 2	1. Total Suspended Particulate	Gravimetric Method (US.EPA Method 5)	08:42 a.m.-09:22 a.m.	47	50	320	mg/m ³
	2. Sulfur Dioxide	Barium-Thorin Titrimetric Method (US.EPA Method 6)	09:24 a.m.-09:44 a.m.	<0.1	<0.1	60	ppm
	3. Oxide of Nitrogen as Nitrogen Dioxide	Phenoldisulfonic Acid Method (US.EPA Method 7)	08:34 a.m.-08:40 a.m.	53	56	200	ppm
	4. Opacity	Ringelmann's Method (US.EPA Method 9)	09:47 a.m.-10:02 a.m.	6.13	-	10 ^[1]	%

Remark : Normal reference conditions are 25 degrees Celsius at 1 atm or 760 mmHg and dry basis, in the actual conditions. With the volume of oxygen in the waste air at real conditions while measuring

: Normal reference condition is 25 degrees Celsius at 1 atm or 760 mmHg and is dry basis, in the actual conditions. With 50% excess air combustion volume or 7% oxygen volume in waste air

Standard : Notification of the Ministry of Industry B.E.2549 (2006)

Standard^[1] : Notification of the Ministry of Natural Resources and Environment on establishing standards for opacity of smoke smut from establishments That uses a boiler.Prof. 2548 (2005)

: Notification of Ministry of Industry regarding the amount of contaminants in the air emitted from factories, B.E. 2549 (2006)

- = Not configured for control.

(ว-100-ก-4859)

28/05/2024

Analysis results refer to submitted sample(s) only

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REPORT NO. : 011350/2024

ANALYSIS REPORT

CLIENT NAME : P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS : 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR : ENVIRONMENT DEPARTMENT
CONTACT INFORMATION : TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Stack Description		Sampling Condition	
Stack Height from Ground (m)	: 37.0	Atmospheric Pressure (mm.Hg)	: 758
Diameter (m)	: 1.50	Ambient Temperature (°C)	: 30
Temperature (°C)	: 207	Type of Process	: Combustion
Gas Velocity (m/s)	: 22.22	Type of Fuel	: Biomass
Flow Rate (Nm ³ /h)	: 82878.31	Type of Air Pollution	: Cyclone
Oxygen (%)	7.83	GPS	: 47P 0756543 E, 1453976 N
Carbon Dioxide (%)	: 14.11	Sampling Date	: 08/05/2024
Moisture (%)	: 5.11	Received Date	: 10/05/2024
Isokinetic (%)	: 99.22	Analytical Date	: 10-24/05/2024
Excess Air (%)	: 61.25	Reported Date	: 28/05/2024
Shape	: Circle	Sampling By	: Mr. Anupong Namsrithan
		Analyzed By	: -

Location	Parameter	Method of Analysis	Time	Result		Standard	Unit
				% Actual O ₂ ^{1/}	7% O ₂ ^{2/}		
Boiler Chinese No. 2	1. Carbon Monoxide*	Non-Dispersive Infrared Method (US.EPA Method 10)	08:34 a.m.-08:40 a.m.	46	49	690	ppm

Remark : ^{1/}Normal reference conditions are 25 degrees Celsius at 1 atm or 760 mmHg and dry basis, in the actual conditions.
With the volume of oxygen in the waste air at real conditions while measuring

: ^{2/}Normal reference condition is 25 degrees Celsius at 1 atm or 760 mmHg and is dry basis, in the actual conditions.
With 50% excess air combustion volume or 7% oxygen volume in waste air

* = Results analyzed by EMEX ASSCIATION CO., LTD.

Standard : Notification of the Ministry of Industry B.E.2549 (2006)

(Ms.Sasithorn Suwanwiko)

Approved Signature

28/05/2024

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คุณภาพอากาศในบรรยากาศทั่วไป



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Page 1/1

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

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ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030585/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED								
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190								
COORDINATOR	:	ENVIRONMENT DEPARTMENT								
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733								
Sampling Date	:	08-15/05/2024	Report Date	:	31/05/2024					
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut					
Analytical Date	:	17-29/05/2024	Analyst By	:	Miss Siriwan Boonpeng					
Sampling Condition										
Atmospheric Pressure (mmHg)		:	756	Ambient Temperature (°C)		:	33			
Parameter	Method of Analysis	Result							Result	Standard
		Nong Yai Siri Worawat Witthaya School								
		(UTM : 47P 0756029 E, 1454762 N)								
		May 2024								
		08-09	09-10	10-11	11-12	12-13	13-14	14-15		
Total Suspended Particulate	Gravimetric Method (US.EPA 802)	0.024	0.020	0.016	0.038	0.027	0.018	0.025	0.33	mg/m ³

Standard : Notification of the National Environment Board, No.24, B.E.2547

31/05/2024

COMPANY LTD.

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Page 1/1

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ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030586/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED								
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190								
COORDINATOR	:	ENVIRONMENT DEPARTMENT								
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733								
Sampling Date	:	08-15/05/2024	Report Date	:	31/05/2024					
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut					
Analytical Date	:	17-29/05/2024	Analyst By	:	Miss Siriwan Boonpeng					
Sampling Condition										
Atmospheric Pressure (mmHg)		:	756	Ambient Temperature (°C)		:	33			
Parameter	Method of Analysis	Result							Result	Standard
		Wat Nong Yai Siritham								
		(UTM : 47P 0758022 E, 1454876 N)								
		May 2024								
		08-09	09-10	10-11	11-12	12-13	13-14	14-15		
Total Suspended Particulate	Gravimetric Method (US.EPA 802)	0.032	0.024	0.026	0.029	0.031	0.019	0.027	0.33	mg/m ³

Standard : Notification of the National Environment Board, No.24, B.E.2547

(Ms.Sasithorn Suwanwiko)

Technical Manager

31/05/2024



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Page 1/1

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ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED								
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190								
COORDINATOR	:	ENVIRONMENT DEPARTMENT								
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733								
Sampling Date	:	08-15/05/2024	Report Date	:	31/05/2024					
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut					
Analytical Date	:	17-29/05/2024	Analyst By	:	Miss Siriwan Boonpeng					
Sampling Condition										
Atmospheric Pressure (mmHg)		:	756	Ambient Temperature (°C)		:	33			
Parameter	Method of Analysis	Result							Result	Standard
		Project area								
		(UTM : 47P 0756498 E, 1453688 N)								
		May 2024								
		08-09	09-10	10-11	11-12	12-13	13-14	14-15		
Total Suspended Particulate	Gravimetric Method (US.EPA 802)	0.084	0.089	0.112	0.074	0.079	0.060	0.129	0.33	mg/m ³

Standard : Notification of the National Environment Board, No.24, B.E.2547

(Ms.Sasithorn Suwanwiko)

Technical Manager

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Page 1/1

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ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030588/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	08-15/05/2024	Report Date	:	31/05/2024
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut
Analytical Date	:	17-29/05/2024	Analyst By	:	-

Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (°C) : 33

Parameter	Time	Result						
		Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)						
		08-09/05/2024	09-10/05/2024	10-11/05/2024	11-12/05/2024	12-13/05/2024	13-14/05/2024	14-15/05/2024
Nitrogen Dioxide	11:00 a.m.-00:00 p.m.	1.3	<u>1.5</u>	1.4	<u>1.5</u>	<u>1.5</u>	1.4	1.4
	00:00 p.m.-01:00 p.m.	1.3	1.2	1.3	1.4	<u>1.5</u>	1.4	1.4
	01:00 p.m.-02:00 p.m.	1.2	1.2	1.3	1.5	1.4	1.5	1.4
	02:00 p.m.-03:00 p.m.	1.3	1.4	1.3	1.4	1.3	1.5	<u>1.5</u>
	03:00 p.m.-04:00 p.m.	1.4	1.4	1.4	1.4	1.2	<u>1.6</u>	1.4
	04:00 p.m.-05:00 p.m.	1.4	1.4	1.4	<u>1.5</u>	1.4	1.4	1.4
	05:00 p.m.-06:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	06:00 p.m.-07:00 p.m.	1.3	1.2	1.4	1.4	1.4	1.4	1.4
	07:00 p.m.-08:00 p.m.	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	08:00 p.m.-09:00 p.m.	1.4	1.4	1.4	1.4	1.3	1.4	1.4
	09:00 p.m.-10:00 p.m.	1.3	1.4	1.3	1.4	1.4	1.4	1.4
	10:00 p.m.-11:00 p.m.	1.4	1.4	1.4	1.4	1.3	1.3	1.4
	11:00 p.m.-00:00 a.m.	1.3	1.4	1.4	1.3	1.3	1.4	1.4
	00:00 a.m.-01:00 a.m.	1.2	1.4	1.4	1.4	1.3	1.4	1.3
	01:00 a.m.-02:00 a.m.	1.4	1.4	1.4	1.3	1.4	1.4	1.4
	02:00 a.m.-03:00 a.m.	1.4	1.4	1.4	1.4	1.4	1.3	1.4
	03:00 a.m.-04:00 a.m.	1.4	1.3	1.4	1.4	1.3	1.4	1.4
	04:00 a.m.-05:00 a.m.	1.4	1.4	1.3	1.4	1.4	1.4	1.4
	05:00 a.m.-06:00 a.m.	1.4	1.4	1.4	1.4	1.3	1.3	1.4
	06:00 a.m.-07:00 a.m.	1.4	1.4	1.4	1.4	1.3	1.4	1.4
	07:00 a.m.-08:00 a.m.	1.4	1.4	1.4	1.4	1.3	1.4	1.4
	08:00 a.m.-09:00 a.m.	1.3	1.2	1.4	1.4	1.4	1.4	1.4
	09:00 a.m.-10:00 a.m.	<u>1.5</u>	1.3	<u>1.5</u>	1.4	1.4	1.4	1.4
	10:00 a.m.-11:00 a.m.	1.3	1.3	<u>1.5</u>	1.4	<u>1.5</u>	1.4	1.3
Average 1 hour max		1.5	1.5	1.5	1.5	1.5	1.6	1.5
Average 1 hour Minimum		1.2	1.2	1.3	1.3	1.2	1.3	1.3
Average 24 hour		1.3	1.3	1.4	1.4	1.4	1.4	1.4
Standard 1 hour		170						
Standard 24 hour		-						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.

Approved Signature

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ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030589/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	08-15/05/2024	Report Date	:	31/05/2024
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut
Analytical Date	:	17-29/05/2024	Analyst By	:	-

Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

Parameter		Result						
		Wat Nong Yai Siritham (UTM : 47P 0758022 E, 1454876 N)						
		08-09/05/2024	09-10/05/2024	10-11/05/2024	11-12/05/2024	12-13/05/2024	13-14/05/2024	14-15/05/2024
Nitrogen Dioxide	00:00 p.m.-01:00 p.m.	1.2	<u>1.4</u>	1.3	<u>1.4</u>	1.4	1.4	1.3
	01:00 p.m.-02:00 p.m.	1.2	1.2	1.2	<u>1.4</u>	1.4	1.3	1.3
	02:00 p.m.-03:00 p.m.	1.1	1.2	1.2	<u>1.4</u>	1.4	1.4	<u>1.4</u>
	03:00 p.m.-04:00 p.m.	1.3	<u>1.4</u>	1.2	<u>1.4</u>	1.2	<u>1.5</u>	<u>1.4</u>
	04:00 p.m.-05:00 p.m.	1.3	1.3	1.3	<u>1.4</u>	1.2	<u>1.5</u>	1.3
	05:00 p.m.-06:00 p.m.	1.3	1.3	1.4	<u>1.4</u>	1.3	1.3	1.3
	06:00 p.m.-07:00 p.m.	1.3	1.3	1.4	<u>1.4</u>	1.3	1.3	1.3
	07:00 p.m.-08:00 p.m.	1.2	1.1	1.3	1.3	1.3	1.4	1.3
	08:00 p.m.-09:00 p.m.	1.3	1.3	1.4	1.3	1.3	1.3	1.3
	09:00 p.m.-10:00 p.m.	1.3	1.3	1.4	1.3	1.3	1.3	1.3
	10:00 p.m.-11:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	11:00 p.m.-00:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	00:00 a.m.-01:00 a.m.	1.3	1.3	1.3	1.2	1.3	1.3	1.3
	01:00 a.m.-02:00 a.m.	1.2	1.3	1.3	1.3	1.3	1.3	1.3
	02:00 a.m.-03:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	03:00 a.m.-04:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	04:00 a.m.-05:00 a.m.	1.3	1.3	1.4	1.3	1.3	1.3	1.3
	05:00 a.m.-06:00 a.m.	1.3	1.3	1.2	1.3	1.3	1.3	1.3
	06:00 a.m.-07:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	<u>1.4</u>
	07:00 a.m.-08:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	08:00 a.m.-09:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	09:00 a.m.-10:00 a.m.	1.3	1.1	1.3	1.3	1.3	1.3	<u>1.4</u>
	10:00 a.m.-11:00 a.m.	<u>1.4</u>	1.3	1.4	<u>1.4</u>	1.4	1.4	1.3
	11:00 a.m.-00:00 p.m.	1.2	1.2	<u>1.5</u>	<u>1.4</u>	<u>1.5</u>	1.4	1.3
Average 1 hour max		1.4	1.4	1.5	1.4	1.5	1.5	1.4
Average 1 hour Minimum		1.1	1.1	1.2	1.2	1.2	1.3	1.3
Average 24 hour		1.3	1.3	1.3	1.3	1.3	1.3	1.3
Standard 1 hour		170						
Standard 24 hour		-						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board No 24 B.E 2547

- = No standard.

31/05/2024

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Page 1/1

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030590/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	08-15/05/2024	Report Date	:	31/05/2024
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut
Analytical Date	:	17-29/05/2024	Analyst By	:	-

Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

Parameter	ime	Result						
		Project area (UTM : 47P 0756498 E, 1453688 N)						
		08-09/05/2024	09-10/05/2024	10-11/05/2024	11-12/05/2024	12-13/05/2024	13-14/05/2024	14-15/05/2024
Nitrogen Dioxide	10:00 p.m.-11:00 p.m.	1.5	1.3	1.3	1.3	1.3	1.3	1.4
	11:00 p.m.-00:00 a.m.	1.3	1.3	1.4	1.3	1.3	1.3	1.3
	00:00 a.m.-01:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.4	1.3
	01:00 a.m.-02:00 a.m.	1.4	1.3	1.3	1.3	1.3	1.3	1.4
	02:00 a.m.-03:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	03:00 a.m.-04:00 a.m.	1.3	1.3	1.4	1.3	1.3	1.3	1.3
	04:00 a.m.-05:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	05:00 a.m.-06:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	06:00 a.m.-07:00 a.m.	1.3	1.3	1.3	1.3	1.4	1.3	1.3
	07:00 a.m.-08:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	08:00 a.m.-09:00 a.m.	1.4	1.4	1.3	1.3	1.3	1.3	1.3
	09:00 a.m.-10:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	10:00 a.m.-11:00 a.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.1
	11:00 a.m.-00:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	00:00 p.m.-01:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	01:00 p.m.-02:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	02:00 p.m.-03:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	03:00 p.m.-04:00 p.m.	1.3	1.3	1.3	1.4	1.3	1.3	1.3
	04:00 p.m.-05:00 p.m.	1.3	1.3	1.3	1.3	1.4	1.3	1.3
	05:00 p.m.-06:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	06:00 p.m.-07:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	07:00 p.m.-08:00 p.m.	1.3	1.3	1.3	1.4	1.3	1.3	1.3
	08:00 p.m.-09:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	09:00 p.m.-10:00 p.m.	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Average 1 hour max		1.5	1.4	1.4	1.4	1.4	1.4	1.4
Average 1 hour Minimum		1.3	1.3	1.3	1.3	1.3	1.3	1.1
Average 24 hour		1.3	1.3	1.3	1.3	1.3	1.3	1.3
Standard 1 hour		170						
Standard 24 hour		-						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.

31/05/2024

Analysis results refer to submitted sample(s) only

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Page 1/1

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030591/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	08-15/05/2024	Report Date	:	31/05/2024
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut
Analytical Date	:	17-29/05/2024	Analyst By	:	-

Sampling Condition

Atmospheric Pressure (mmHg)	:	756	Ambient Temperature (oC)	:	33
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Parameter	Time	Result						
		Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)						
		08-09/05/2024	09-10/05/2024	10-11/05/2024	11-12/05/2024	12-13/05/2024	13-14/05/2024	14-15/05/2024
Sulfur Dioxide	11:00 a.m.-00:00 p.m.	1.6	1.5	1.7	1.8	1.6	1.3	1.5
	00:00 p.m.-01:00 p.m.	<u>1.7</u>	1.2	<u>1.8</u>	2.0	<u>1.8</u>	1.4	1.3
	01:00 p.m.-02:00 p.m.	1.6	1.6	<u>1.8</u>	2.0	1.1	1.4	1.6
	02:00 p.m.-03:00 p.m.	1.6	1.5	1.6	<u>2.2</u>	<u>1.8</u>	1.4	2.0
	03:00 p.m.-04:00 p.m.	1.5	1.3	1.4	1.7	1.6	1.4	1.9
	04:00 p.m.-05:00 p.m.	1.4	1.2	1.3	1.8	1.6	1.3	1.7
	05:00 p.m.-06:00 p.m.	1.3	1.2	1.2	1.8	1.5	1.5	1.7
	06:00 p.m.-07:00 p.m.	1.2	1.2	1.3	1.7	1.5	1.4	<u>2.1</u>
	07:00 p.m.-08:00 p.m.	1.3	1.3	1.4	1.7	1.4	1.5	1.6
	08:00 p.m.-09:00 p.m.	1.3	1.2	1.5	1.7	1.4	1.5	1.1
	09:00 p.m.-10:00 p.m.	1.3	1.2	1.6	1.8	1.6	1.4	1.2
	10:00 p.m.-11:00 p.m.	1.2	1.3	1.6	1.8	1.6	1.4	1.2
	11:00 p.m.-00:00 a.m.	1.2	1.2	1.6	1.6	<u>1.8</u>	1.4	1.2
	00:00 a.m.-01:00 a.m.	1.2	1.2	1.5	1.6	1.2	1.3	1.3
	01:00 a.m.-02:00 a.m.	1.3	1.2	1.5	1.6	1.2	1.2	1.2
	02:00 a.m.-03:00 a.m.	1.2	1.2	1.4	1.7	1.3	1.2	1.2
	03:00 a.m.-04:00 a.m.	1.3	1.2	1.2	1.8	1.2	1.1	1.5
	04:00 a.m.-05:00 a.m.	1.3	1.2	1.1	1.8	1.1	1.1	1.6
	05:00 a.m.-06:00 a.m.	1.2	1.1	1.1	1.5	1.2	1.3	1.5
	06:00 a.m.-07:00 a.m.	1.3	1.2	1.0	1.8	1.3	1.4	1.5
	07:00 a.m.-08:00 a.m.	1.2	1.1	1.0	1.9	1.3	<u>1.9</u>	1.6
	08:00 a.m.-09:00 a.m.	1.4	1.3	1.6	1.8	1.3	1.4	1.6
	09:00 a.m.-10:00 a.m.	1.2	1.4	1.7	1.8	1.3	1.4	1.1
	10:00 a.m.-11:00 a.m.	1.3	<u>1.8</u>	<u>1.8</u>	1.4	1.3	1.6	1.1
Average 1 hour max		1.7	1.8	1.8	2.2	1.8	1.9	2.1
Average 1 hour Minimum		1.2	1.1	1.0	1.4	1.1	1.1	1.1
Average 24 hour		1.3	1.3	1.4	1.8	1.4	1.4	1.5
Standard 1 hour		-						
Standard 24 hour		120						
Unit		ppb						

Remark : Analytical Method = Chemiluminescence Method (US.EPA RFNA-1194-099).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.

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31/05/2024

Analysis results refer to submitted sample(s) only

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Page 1/1

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030592/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	08-15/05/2024	Report Date	:	31/05/2024
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut
Analytical Date	:	17-29/05/2024	Analyst By	:	-

Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

Parameter	Time	Result							
		Wat Nong Yai Siritham (UTM : 47P 0758022 E, 1454876 N)							
		08-09/05/2024	09-10/05/2024	10-11/05/2024	11-12/05/2024	12-13/05/2024	13-14/05/2024	14-15/05/2024	
Sulfur Dioxide	00:00 p.m.-01:00 p.m.	1.3	1.4	1.4	1.8	1.5	1.6	1.4	
	01:00 p.m.-02:00 p.m.	1.2	1.6	1.5	1.8	1.3	1.5	1.2	
	02:00 p.m.-03:00 p.m.	1.2	1.6	1.3	1.7	1.9	1.5	1.6	
	03:00 p.m.-04:00 p.m.	1.3	1.5	1.4	1.4	1.8	1.6	2.1	
	04:00 p.m.-05:00 p.m.	1.2	1.4	1.5	1.5	1.7	1.5	1.8	
	05:00 p.m.-06:00 p.m.	1.3	1.2	1.3	1.5	1.6	1.6	1.9	
	06:00 p.m.-07:00 p.m.	1.2	1.1	1.5	1.4	1.7	1.5	2.2	
	07:00 p.m.-08:00 p.m.	1.1	1.2	1.3	1.4	1.5	1.6	1.8	
	08:00 p.m.-09:00 p.m.	1.2	1.2	1.5	1.3	1.6	1.7	1.2	
	09:00 p.m.-10:00 p.m.	1.2	1.2	1.6	1.4	1.8	1.6	1.4	
	10:00 p.m.-11:00 p.m.	1.2	1.3	1.6	1.4	1.7	1.6	1.4	
	11:00 p.m.-00:00 a.m.	1.1	1.2	1.5	1.3	1.4	1.6	1.4	
	00:00 a.m.-01:00 a.m.	1.1	1.2	1.5	1.2	1.2	1.5	1.5	
	01:00 a.m.-02:00 a.m.	1.2	1.2	1.5	1.2	1.2	1.3	1.3	
	02:00 a.m.-03:00 a.m.	1.1	1.2	1.4	1.4	1.2	1.3	1.4	
	03:00 a.m.-04:00 a.m.	1.2	1.2	1.4	1.4	1.2	1.3	1.1	
	04:00 a.m.-05:00 a.m.	1.2	1.2	1.3	1.5	1.2	1.3	1.3	
	05:00 a.m.-06:00 a.m.	1.2	1.1	1.2	1.7	1.3	1.5	1.2	
	06:00 a.m.-07:00 a.m.	1.2	1.2	1.2	2.0	1.5	1.5	1.2	
	07:00 a.m.-08:00 a.m.	1.1	1.1	1.2	2.1	1.5	2.1	1.3	
	08:00 a.m.-09:00 a.m.	1.3	1.2	1.2	2.0	1.5	1.5	1.3	
	09:00 a.m.-10:00 a.m.	1.4	1.4	1.3	1.4	1.5	1.6	1.2	
	10:00 a.m.-11:00 a.m.	1.5	1.3	1.6	1.1	1.4	1.2	1.3	
	11:00 a.m.-00:00 p.m.	1.3	1.4	1.6	1.2	1.5	1.7	1.2	
Average 1 hour max		1.5	1.6	1.6	2.1	1.9	2.1	2.2	
Average 1 hour Minimum		1.1	1.1	1.2	1.1	1.2	1.2	1.1	
Average 24 hour		1.2	1.3	1.4	1.5	1.5	1.5	1.5	
Standard 1 hour		-							
Standard 24 hour		120							
Unit		ppb							

Remark : Analytical Method = Ultraviolet fluorescence (US.EPA-EQSA-0495-100).

Standard : Notification of the National Environment Board, No.24 B.E.2547

- = No standard.

REPORT NO. : 030593/2024

31/05/2024

Analysis results refer to submitted sample(s) only

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Page 1/1

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Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED						
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190						
COORDINATOR	:	ENVIRONMENT DEPARTMENT						
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733						
Sampling Date	:	08-15/05/2024		Report Date	:	31/05/2024		
Received Date	:	17/05/2024		Sampling By	:	Mr.Jirayut Seehabut		
Analytical Date	:	17-29/05/2024		Analyst By	:	-		
Sampling Condition								
Atmospheric Pressure (mmHg)		:	756		Ambient Temperature (oC)		:	33
Parameter	Time	Result						
		Project area (UTM : 47P 0756498 E, 1453688 N)						
		08-09/05/2024	09-10/05/2024	10-11/05/2024	11-12/05/2024	12-13/05/2024	13-14/05/2024	14-15/05/2024
Sulfur Dioxide	10:00 p.m.-11:00 p.m.	3.0	2.3	1.5	2.1	1.5	2.5	2.3
	11:00 p.m.-00:00 a.m.	2.8	2.2	1.6	1.4	1.7	2.6	2.3
	00:00 a.m.-01:00 a.m.	2.8	2.2	1.8	1.5	1.6	2.3	2.4
	01:00 a.m.-02:00 a.m.	2.9	2.1	1.7	1.5	1.6	1.9	2.2
	02:00 a.m.-03:00 a.m.	2.9	2.1	1.5	2.2	1.6	1.7	2.0
	03:00 a.m.-04:00 a.m.	2.8	1.9	1.6	1.6	1.8	1.6	2.2
	04:00 a.m.-05:00 a.m.	2.0	1.8	1.5	1.8	1.8	1.6	2.2
	05:00 a.m.-06:00 a.m.	1.6	1.7	1.5	1.9	1.8	2.4	2.1
	06:00- a.m-07:00 a.m.	1.9	1.6	1.5	1.6	1.8	1.8	2.1
	07:00 a.m.-08:00 a.m.	2.1	1.6	1.4	1.6	1.7	1.5	2.0
	08:00 a.m.-09:00 a.m.	2.1	1.9	1.3	1.4	1.7	1.6	1.8
	09:00 a.m.-10:00 a.m.	2.3	1.6	1.3	1.7	1.7	1.7	1.9
	10:00 a.m.-11:00 a.m.	1.8	1.6	1.7	1.5	1.6	1.6	1.8
	11:00 a.m.-00:00 p.m.	1.7	1.5	1.6	1.7	1.8	1.6	1.8
	00:00 p.m.-01:00 p.m.	1.4	1.5	1.3	1.6	2.1	1.5	1.8
	01:00 p.m.-02:00 p.m.	1.5	1.4	1.3	1.5	2.0	1.4	1.8
	02:00 p.m.-03:00 p.m.	1.5	1.4	1.3	1.5	1.8	1.5	1.7
	03:00 p.m.-04:00 p.m.	1.6	1.4	1.6	1.5	1.9	1.5	1.8
	04:00 p.m.-05:00 p.m.	1.7	1.4	1.3	1.5	1.6	1.6	1.5
	05:00 p.m.-06:00 p.m.	2.0	1.4	1.9	2.1	1.6	1.8	1.6
	06:00 p.m. -07:00 p.m.	1.9	1.5	1.8	2.2	2.1	1.8	1.5
	07:00 p.m.-08:00 p.m.	1.9	1.5	1.9	2.2	2.2	1.9	1.7
	08:00 p.m.-09:00 p.m.	1.9	1.5	2.2	2.1	2.2	2.4	1.9
	09:00 p.m.-10:00 p.m.	1.8	1.6	2.3	2.0	2.3	2.5	1.9
Average 1 hour max		3.0	2.3	2.3	2.2	2.3	2.6	2.4
Average 1 hour Minimum		1.4	1.4	1.3	1.4	1.5	1.4	1.5
Average 24 hour		2.1	1.7	1.6	1.7	1.8	1.8	1.9
Standard 1 hour		-						
Standard 24 hour		120						
Unit		ppb						

Remark : Analytical Method = Ultraviolet fluorescence (US.EPA-EQSA-0495-100).

Standard : Notification of the National Environment Board, No.24, B.E.2547

- = No standard.

Approved Signature

31/05/2024

Analysis results refer to submitted sample(s) only

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Page 1/1

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Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030594/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	08-15/05/2024	Report Date	:	31/05/2024
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut
Analytical Date	:	17-29/05/2024	Analyst By	:	-

Sampling Condition

Atmospheric Pressure (mmHg)	:	756	Ambient Temperature (oC)	:	33
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Wind Speed (m/s), Wind Direction (0-360°)

Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)

Time	08-09/05/2024		09-10/05/2024		10-11/05/2024		11-12/05/2024		12-13/05/2024		13-14/05/2024		14-15/05/2024	
	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD
11:00 a.m.-00:00 p.m.	0	NE	0.4	NNE	0	NNE	0.4	SSW	0.4	SW	0.4	WSW	0	SW
00:00 p.m.-01:00 p.m.	0.9	N	0.4	NE	0.4	NNE	0	SSW	0.4	SW	0	WSW	0	S
01:00 p.m.-02:00 p.m.	0.9	N	0.4	NE	0.4	NNE	0	SSW	0.9	SW	0	W	0	S
02:00 p.m.-03:00 p.m.	0.9	N	0.4	NE	0	NNE	0	SSW	0.4	SW	0.4	W	0	S
03:00 p.m.-04:00 p.m.	0.4	N	0.4	SSW	0	NNE	0.4	SSW	0	SW	0	WNW	0	S
04:00 p.m.-05:00 p.m.	0.9	NNW	1.3	SW	0	NNE	0.4	SSW	0	SW	0.4	N	0	S
05:00 p.m.-06:00 p.m.	0.4	SSE	0.9	SW	0	NNE	0.4	SSW	0.4	NNW	0.4	N	0	SSE
06:00 p.m.-07:00 p.m.	0	SSE	1.3	NE	0.4	NNE	0.4	SW	0.4	N	0.4	N	0	SSE
07:00 p.m.-08:00 p.m.	0	SSE	0.4	SSW	0	NNE	0	SW	0.4	NNE	0.4	NW	0	SSE
08:00 p.m.-09:00 p.m.	0	SSE	0.9	SW	0	NNE	0	SW	0.4	NNE	0.4	ENE	0.4	SSE
09:00 p.m.-10:00 p.m.	0	SSE	0	SW	0	NNE	0	SW	0.4	SSE	0.4	NNE	0	SSE
10:00 p.m.-11:00 p.m.	0.4	SSW	0	NNW	0	NNE	0	SW	0	W	0.4	NNW	0	SSE
11:00 p.m.-00:00 a.m.	0.4	SSW	0.4	NNW	0.4	NNE	0.4	SW	0.4	NE	0.4	NNE	0	SSE
00:00 a.m.-01:00 a.m.	0	SSW	0	NNW	0	NNE	0	SW	0.4	ENE	0.4	NNE	0.4	SSE
01:00 a.m.-02:00 a.m.	0	SSW	0	NNW	0	NNE	0	SW	0	ENE	0.9	SW	0.4	SW
02:00 a.m.-03:00 a.m.	0	SSW	0	NNW	0	NNE	0	SW	0.9	S	1.3	SW	0	SW
03:00 a.m.-04:00 a.m.	0	SSW	0.4	E	0	NNE	0	SW	0.9	SW	0.9	SW	0	SW
04:00 a.m.-05:00 a.m.	0.4	SSW	0	NNE	0.4	SSW	0.4	SW	0.9	WSW	0.4	SW	0	SW
05:00 a.m.-06:00 a.m.	0	SSW	0	NNE	0.4	SSW	0.4	SW	0.4	NW	0	WSW	0	SW
06:00 a.m.-07:00 a.m.	0	SSW	0	NNE	0	SSW	0.4	SW	0.9	NNE	0	WNW	0.9	SW
07:00 a.m.-08:00 a.m.	0	SSW	0.4	NNE	0	SSW	0.4	SW	0.4	SW	0	SW	0.9	NNW
08:00 a.m.-09:00 a.m.	0	S	0	NNE	0	SSW	0	SW	0	WSW	0	SW	0.9	NNW
09:00 a.m.-10:00 a.m.	0.4	SSW	0	NNE	0.4	SSW	0	SW	0	WSW	0	SW	0.4	NNW
10:00 a.m.-11:00 a.m.	0	SW	0	NNE	0.9	SSW	0	SW	0	WSW	0	SW	0	NNW

Remark : Sampling Method = Cup Anemometer/Aluminium Vane.

Approved Signature

31/05/2024

Analysis results refer to submitted sample(s) only

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Page 1/1

36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030594/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

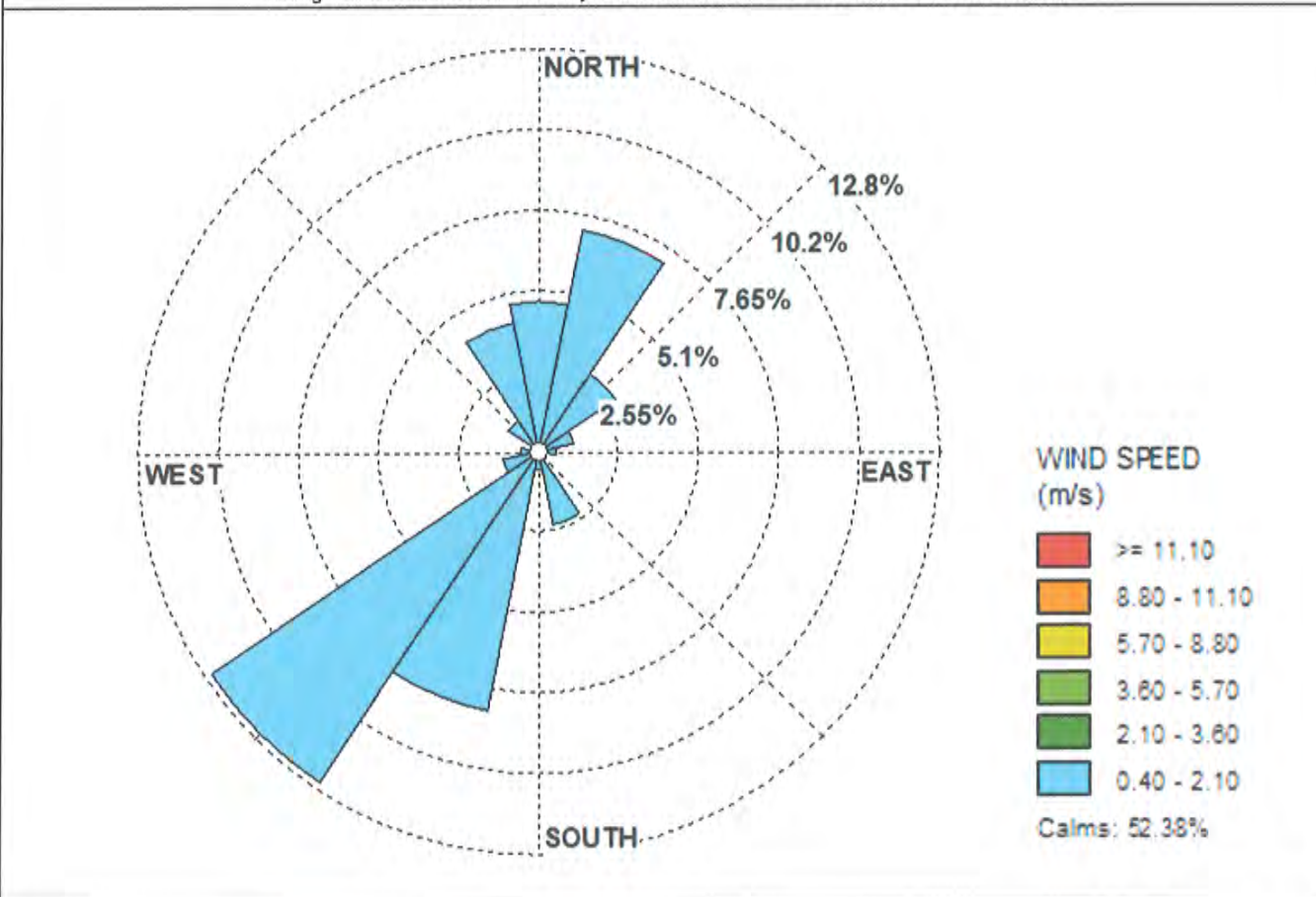
Sampling Date	:	08-15/05/2024	Report Date	:	31/05/2024
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut
Analytical Date	:	17-29/05/2024	Analyst By	:	-

Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

ผังแสดงทิศทางลม (Wind Rose)

Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756029 E, 1454762 N)



Remark : Sampling Method = Cup Anemometer/Aluminium Vane.

Analysis results refer to submitted sample(s) only

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030595/2024

ANALYSIS REPORT

CLIENT NAME : P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS : 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR : ENVIRONMENT DEPARTMENT
CONTACT INFORMATION : TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date : 08-15/05/2024 Report Date : 31/05/2024
Received Date : 17/05/2024 Sampling By : Mr.Jirayut Seehabut
Analytical Date : 17-29/05/2024 Analyst By : -

Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

Wind Speed (m/s), Wind Direction (0-360°)

Wat Nong Yai Siritham (UTM : 47P 0758022 E, 1454876 N)

Time	08-09/05/2024		09-10/05/2024		10-11/05/2024		11-12/05/2024		12-13/05/2024		13-14/05/2024		14-15/05/2024	
	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD
00:00 p.m.-01:00 p.m.	0	WNW	0.4	E	0.4	ESE	0	WSW	0.4	WSW	0	SW	0.4	NNE
01:00 p.m.-02:00 p.m.	0.4	WNW	0.4	SW	0	ESE	0	SSW	0.4	WSW	0	SW	0	NNE
02:00 p.m.-03:00 p.m.	0.4	WSW	0.9	SW	0	E	0.4	WSW	0	WSW	0.4	S	0	NNE
03:00 p.m.-04:00 p.m.	0.4	WSW	1.3	N	0	ESE	1.8	WSW	0.4	WSW	2.7	NNE	0	NNE
04:00 p.m.-05:00 p.m.	0.9	WSW	1.8	SW	0	ESE	0.4	N	0.9	WSW	0.9	NNE	0.9	NNE
05:00 p.m.-06:00 p.m.	0.9	E	0.4	SSW	0.4	WSW	0.4	N	0	SW	0	NNE	0.4	NNE
06:00 p.m.-07:00 p.m.	0.4	E	0	SSW	0.4	WSW	1.3	N	0	W	0	NNE	0	NNE
07:00 p.m.-08:00 p.m.	0.9	N	0.4	SW	0	WSW	0	N	0	W	0	NNE	0	NNE
08:00 p.m.-09:00 p.m.	0	N	0.9	ESE	0	WSW	0	N	0	W	0.4	NNE	0	NNE
09:00 p.m.-10:00 p.m.	0	N	0	ESE	0	WSW	0	N	0.4	W	0	NNE	0	NNE
10:00 p.m.-11:00 p.m.	0	N	0	ESE	0.4	WSW	0	N	0	W	0	NNE	0	NNE
11:00 p.m.-00:00 a.m.	0.4	N	0.4	ENE	0.9	WSW	0	N	0	W	0	NNE	0.4	NNE
00:00 a.m.-01:00 a.m.	0	N	0	ENE	0.4	WSW	0.4	N	0	W	0.4	NNE	0.4	NNE
01:00 a.m.-02:00 a.m.	0	N	0	ENE	0.4	WSW	0	N	0	W	0	NNE	0	NNE
02:00 a.m.-03:00 a.m.	0	N	0	ENE	0	WSW	0	N	0.4	ESE	0	NNE	0	NNE
03:00 a.m.-04:00 a.m.	0.4	N	0.4	ENE	0	WSW	0	N	0	ESE	0	NNE	0	NNE
04:00 a.m.-05:00 a.m.	0	N	0	ENE	0	WSW	0.4	N	0	ESE	0.4	NNE	0	NNE
05:00 a.m.-06:00 a.m.	0	N	0	ENE	0	WSW	0	N	0	ESE	0.9	NNE	1.3	NNE
06:00 a.m.-07:00 a.m.	0.4	N	0	ENE	0.4	WSW	0	N	0.4	ESE	0	NNE	0	NNE
07:00 a.m.-08:00 a.m.	0	N	0.4	ENE	0	WSW	0	N	0	ESE	0	NNE	0	NNE
08:00 a.m.-09:00 a.m.	0	N	0	ENE	0	WSW	0	N	0	ESE	0	NNE	0.4	NNE
09:00 a.m.-10:00 a.m.	0	N	0	ENE	0	WSW	0.4	N	0	ESE	0.4	NNE	0	NNE
10:00 a.m.-11:00 a.m.	0.4	N	0	ENE	0.4	WSW	0.4	WSW	0.4	SE	1.3	NNE	0	NNE
11:00 a.m.-00:00 p.m.	0	E	0	ESE	0	WSW	0.4	WSW	0	SW	0.4	NNE	0.4	NNE

Remark : Sampling Method = Cup Anemometer/Aluminium Vane.

(Ms.Sasithorn Suwanwiko)

Approved Signature

31/05/2024

Analysis results refer to submitted sample(s) only

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030595/2024

ANALYSIS REPORT

CLIENT NAME : P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS : 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR : ENVIRONMENT DEPARTMENT
CONTACT INFORMATION : TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

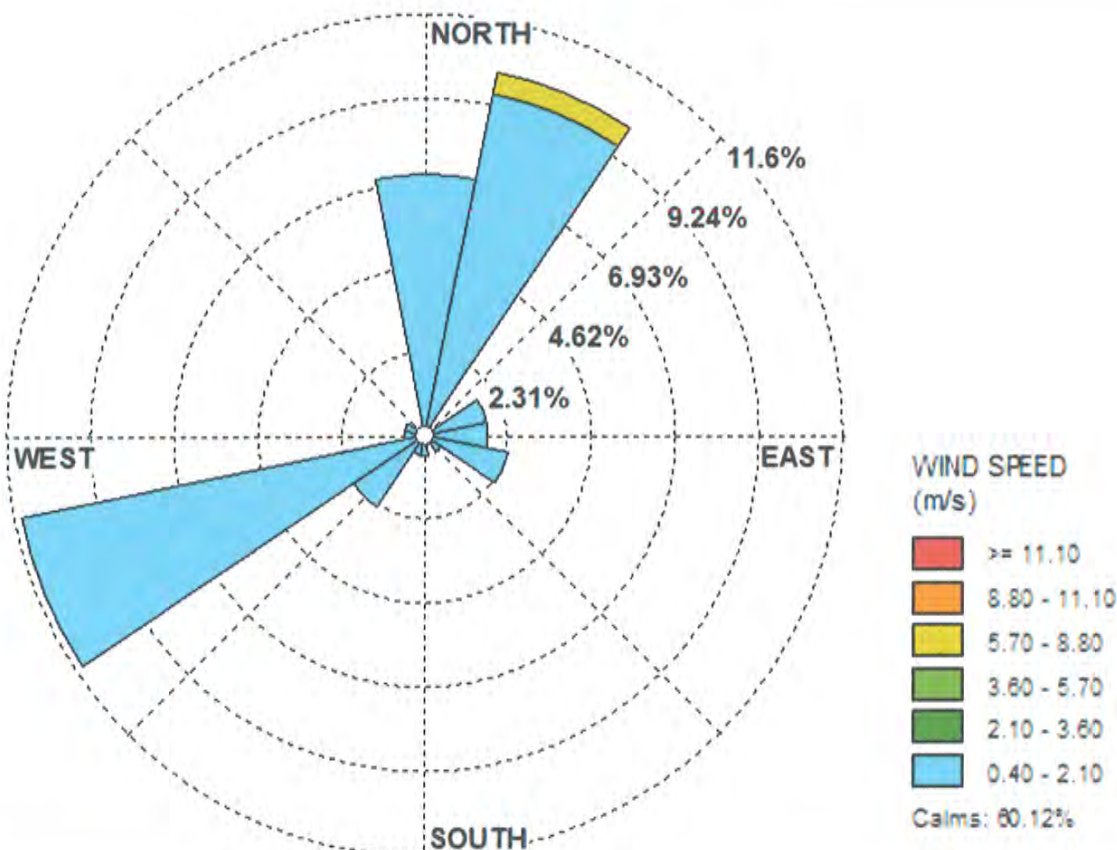
Sampling Date : 08-15/05/2024 Report Date : 31/05/2024
Received Date : 17/05/2024 Sampling By : Mr.Jirayut Seehabut
Analytical Date : 17-29/05/2024 Analyst By : -

Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

ผังแสดงทิศทางลม (Wind Rose)

Wat Nong Yai Siritham (UTM : 47P 0758022 E, 1454876 N)



Remark : Sampling Method = Cup Anemometer/Aluminium Vane.

Analysis results refer to submitted sample(s) only

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Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030596/2024

ANALYSIS REPORT

CLIENT NAME : P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS : 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR : ENVIRONMENT DEPARTMENT
CONTACT INFORMATION : TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date : 08-15/05/2024 Report Date : 31/05/2024
Received Date : 17/05/2024 Sampling By : Mr.Jirayut Seehabut
Analytical Date : 17-29/05/2024 Analyst By : -

Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

Wind Speed (m/s), Wind Direction (0-360°)

Project area (UTM : 47P 0756498 E, 1453688 N)

Time	08-09/05/2024		09-10/05/2024		10-11/05/2024		11-12/05/2024		12-13/05/2024		13-14/05/2024		14-15/05/2024	
	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD
10:00 p.m.-11:00 p.m.	0	ENE	0.4	N	0.4	NE	0.4	N	0.4	N	0.4	S	0.9	E
11:00 p.m.-00:00 a.m.	0	E	0.4	E	0.4	S	0.4	E	0	NW	0.4	E	0.9	E
00:00 a.m.-01:00 a.m.	0.4	NE	0.4	N	1.3	ENE	0.4	E	0.4	ESE	0.9	SW	0.9	SW
01:00 a.m.-02:00 a.m.	0.4	NE	0.4	ENE	0.9	SSW	0.4	S	0	NE	0.9	WSW	0.9	SW
02:00 a.m.-03:00 a.m.	0.9	N	1.8	WSW	0.9	SSW	1.3	S	0.4	WSW	0.4	NE	2.2	ENE
03:00 a.m.-04:00 a.m.	0.4	NNW	0.9	ENE	1.3	SSW	1.3	NNW	0.4	ESE	0.9	E	1.3	ENE
04:00 a.m.-05:00 a.m.	0.4	WNW	1.8	WSW	2.2	SSW	0.9	ENE	2.2	W	0.9	NNE	0.4	NNE
05:00 a.m.-06:00 a.m.	3.1	SW	0.4	N	0.9	N	0.4	WSW	0.9	W	0.4	NNE	0.4	NNE
06:00 a.m.-07:00 a.m.	1.3	SW	0.4	NW	0	NNE	0	N	0.4	W	0	NNE	0	NNE
07:00 a.m.-08:00 a.m.	0.4	ENE	0.4	E	0	N	0	N	0	W	0	NNE	0.4	NNE
08:00 a.m.-09:00 a.m.	0	ENE	0.4	S	0	N	0	N	0	W	0.4	SW	0.4	NW
09:00 a.m.-10:00 a.m.	0	E	0	NE	0	N	0.4	NNW	0	W	0.4	N	0.4	E
10:00 a.m.-11:00 a.m.	0	NNE	0.4	NE	0	N	0	NNW	0	ESE	0.4	NNE	0.4	NNE
11:00 a.m.-00:00 p.m.	0	NNE	0	NE	0	WSW	0	NNW	0	WSW	0.4	SSW	0.4	WNW
00:00 p.m.-01:00 p.m.	0	NNE	0	NE	0	WSW	0	NNW	0	WSW	0.4	WNW	0.9	N
01:00 p.m.-02:00 p.m.	0.4	NNE	0	NE	0	WSW	0.4	NNW	0	SE	0.4	NNW	0.4	NNW
02:00 p.m.-03:00 p.m.	0	NNE	0	NE	0	E	0.4	NNW	0	SSW	0.4	NNW	0	NNW
03:00 p.m.-04:00 p.m.	0	NNE	0.4	NE	0.4	S	0.4	N	0.4	N	0	E	0	E
04:00 p.m.-05:00 p.m.	0.4	E	0	NE	0	SSE	0.9	N	0.9	S	0	E	0.4	E
05:00 p.m.-06:00 p.m.	0	E	0	NE	0	SSE	0	N	0	ESE	0	E	0.4	E
06:00 p.m.-07:00 p.m.	0	E	0.4	NE	0.4	WNW	0	N	0	ESE	0.9	WNW	0	WNW
07:00 p.m.-08:00 p.m.	0	E	0	NE	0	WNW	0.4	N	0.4	E	0	WNW	0.4	WNW
08:00 p.m.-09:00 p.m.	0	E	0	NE	0	ENE	0	N	0.4	N	0.4	WNW	0.4	WNW
09:00 p.m.-10:00 p.m.	0.4	E	0.4	NE	0	N	0	N	0.4	N	0.4	E	0.4	E

Remark : Sampling Method = Cup Anemometer/Aluminium Vane.

Approved Signature

31/05/2024

Analysis results refer to submitted sample(s) only

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Page 1/1

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030596/2024

ANALYSIS REPORT

CLIENT NAME : P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS : 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR : ENVIRONMENT DEPARTMENT
CONTACT INFORMATION : TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

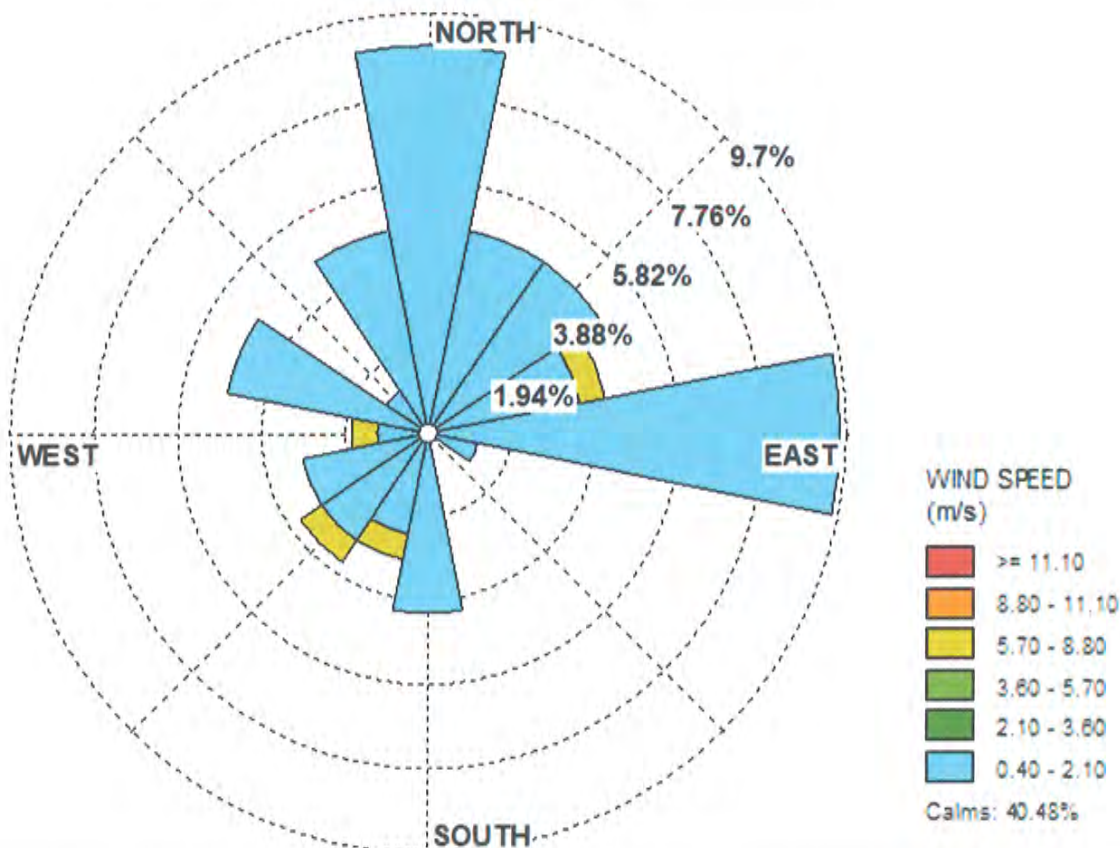
Sampling Date : 08-15/05/2024 Report Date : 31/05/2024
Received Date : 17/05/2024 Sampling By : Mr.Jirayut Seehabut
Analytical Date : 17-29/05/2024 Analyst By : -

Sampling Condition

Atmospheric Pressure (mmHg) : 756 Ambient Temperature (oC) : 33

ผังแสดงทิศทางลม (Wind Rose)

Project area (UTM : 47P 0756498 E, 1453688 N)



Remark : Sampling Method = Cup Anemometer/Aluminium Vane.

Analysis results refer to submitted sample(s) only

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คุณภาพน้ำทิ้ง



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36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong,

Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

TESTING
No.0198

ORIGINAL

REF.NO. : PM 67/0116-1

REPORT NO. : 050209/2024

ANALYSIS REPORT FOR WASTEWATER

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED					
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190					
COORDINATOR	:	ENVIRONMENT DEPARTMENT					
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733					
SAMPLING DATE		:	31/01/2024	REPORT DATE	:	15/02/2024	
RECEIVED DATE		:	31/01/2024	SAMPLING BY	:	Mr. Arnon Nonthakiattikul (จ-100-จ-7642)	
ANALYTICAL DATE		:	01-09/02/2024	ANALYZED BY	:	Miss Piyanut Phutphong (จ-100-จ-7637)	
PARAMETER	METHOD OF ANALYSIS	RESULT		STANDARD	UNIT		
		Effluence (No.8 Pit)					
SAMPLING TIME	-	02:00		-	p.m.		
SAMPLE CONDITION	Observation	Brown Turbid, Slightly SS		-	-		
1. pH	Electrometric Method (4500-H ⁺ -B)	7.9		5.5-9.0	-		
2. Temperature	Laboratory and Field Method (2550 B)	36		40	°C		
3. BOD ₅	5-Day BOD test (5210 B), Membrane Electrode Method (4500-O-G)	18		20	mg/L		
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	14.0		50	mg/L		
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S ²⁻ -F)	<0.06		1.0	mg/L		
6. COD	Closed Reflux, Titrimetric Method (5220 C)	149		120	mg/L		
7. Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method (4500-NH ₃ -C & 4500-Norg-C)	14.1		100	mg/L		
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	496		3,000	mg/L		
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5		5	mg/L		
10. Nickel	Digestion, ICP Method (3120 B)	<0.003		1.0	mg/L		
11. Lead	Digestion, ICP Method (3120 B)	<0.002		0.2	mg/L		
12. Chromium	Digestion, ICP Method (3120 B)	0.001		-	mg/L		

Remark :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, Edition 23rd, 2017.

* = Test result / Analysis Report within the scope of certification.

Standard : Notification of Ministry of Industry on setting Standards for Controlling Wastewater Drainage from Factories, B.E. 2017

- = Not configured for control.

15/02/2024

Analysis results refer to submitted sample(s) only

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MET-F-7.8-07/Rev.02/02-08-64



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36/659 หมู่ 6 ต.บางรักพัฒนา อ.บางบัวทอง จ. นนทบุรี 11110

36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong,

Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

TESTING
No.0198

ORIGINAL

REF.NO. : PM 67/0116-2

REPORT NO. : 050313/2024

ANALYSIS REPORT FOR WASTEWATER

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

SAMPLING DATE	:	06/02/2024	REPORT DATE	:	20/02/2024
RECEIVED DATE	:	06/02/2024	SAMPLING BY	:	Mr.Jirayut Seehabut (จ-100-จ-9557)
ANALYTICAL DATE	:	07-15/02/2024	ANALYZED BY	:	Miss Piyanut Phutphong (จ-100-จ-7637)

PARAMETER	METHOD OF ANALYSIS	RESULT	STANDARD	UNIT
		Effluence (No.8 Pit)		
SAMPLING TIME	-	07:00	-	a.m.
SAMPLE CONDITION	Observation	Yellow Turbid, Slightly SS	-	-
1. pH	Electrometric Method (4500-H ⁺ -B)	7.7	5.5-9.0	-
2. Temperature	Laboratory and Field Method (2550 B)	28	40	°C
3. BOD ₅	5-Day BOD test (5210 B), Membrane Electrode Method (4500-O-G)	3	20	mg/L
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	15.3	50	mg/L
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S ²⁻ -F)	<0.06	1.0	mg/L
6. COD	Closed Reflux, Titrimetric Method (5220 C)	58	120	mg/L
7. Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method (4500-NH ₃ -C & 4500-Norg-C)	<LOQ	100	mg/L
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	525	3,000	mg/L
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5	5	mg/L
10. Nickel	Digestion, ICP Method (3120 B)	0.003	1.0	mg/L
11. Lead	Digestion, ICP Method (3120 B)	0.007	0.2	mg/L
12. Chromium	Digestion, ICP Method (3120 B)	0.001	-	mg/L

Remark :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF. Edition 23rd, 2017.

* = Test result / Analysis Report within the scope of certification.

LOQ = Limit of Quantitation (Total Kjeldahl Nitrogen <10.0 mg/L)

Standard : Notification of Ministry of Industry on setting Standards for Controlling Wastewater Discharge from Factories, B.E. 2017

- = Not configured for control.

(จ-100-จ-4859)
20/02/2024

Analysis results refer to submitted sample(s) only

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MET-F-7.8-07/Rev.02/02-08-64



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Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com



TESTING
No.0198
ORIGINAL

REF.NO. : PM 67/0116-3

REPORT NO. : 050587/2024

ANALYSIS REPORT FOR WASTEWATER

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	: ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

SAMPLING DATE	: 12/03/2024	REPORT DATE	: 23/03/2024
RECEIVED DATE	: 12/03/2024	SAMPLING BY	: Mr.Jirayut Seehabut (ว-100-จ-9557)
ANALYTICAL DATE	: 13-22/03/2024	ANALYZED BY	: Miss Piyanut Phutphong (ว-100-จ-7637)

PARAMETER	METHOD OF ANALYSIS	RESULT	STANDARD	UNIT
		Influence (CL2)		
SAMPLING TIME	-	11:30	-	a.m.
SAMPLE CONDITION	Observation	Brown Turbid, Heavy SS.	-	-
1. pH	Electrometric Method (4500-H ⁺ -B)	7.4	-	-
2. Temperature	Laboratory and Field Method (2550 B)	32	-	°C
3. BOD ₅	5-Day BOD test (5210 B), Membrane Electrode Method (4500-O-G)	311	-	mg/L
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	377	-	mg/L
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S ²⁻ -F)	2.0	-	mg/L
6. COD	Closed Reflux, Titrimetric Method (5220 C)	500	-	mg/L
7. Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method (4500-NH ₃ -C & 4500-Norg-C)	42.3	-	mg/L
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	3,100	-	mg/L
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5	-	mg/L
10. Nickel	Digestion, ICP Method (3120 B)	0.004	-	mg/L
11. Lead	Digestion, ICP Method (3120 B)	<0.002	-	mg/L
12. Chromium	Digestion, ICP Method (3120 B)	0.010	-	mg/L

Remark :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF. Edition 23rd, 2017.

* = Test result / Analysis Report within the scope of certification.

- = Not configured for control.

....

Technical Manager

(ว-100-ท-4859)

23/03/2024



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Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com



TESTING
No.0198

ORIGINAL

REF.NO. : PM 67/0116-4

REPORT NO. : 050960/2024

ANALYSIS REPORT FOR WASTEWATER

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	: ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

SAMPLING DATE	: 26/04/2024	REPORT DATE	: 10/05/2024
RECEIVED DATE	: 26/04/2024	SAMPLING BY	: Mr. Anupong Namsrihan (ว-100-จ-6515)
ANALYTICAL DATE	: 27/04-09/05/2024	ANALYZED BY	: Miss Piyanut Phutphong (ว-100-จ-7637)

PARAMETER	METHOD OF ANALYSIS	RESULT	STANDARD	UNIT
		Effluence (No.8 Pit)		
SAMPLING TIME	-	01:49	-	p.m.
SAMPLE CONDITION	Observation	Green Turbid, Slightly SS	-	-
1. pH	Electrometric Method (4500-H ⁺ -B)	8.4	5.5-9.0	-
2. Temperature	Laboratory and Field Method (2550 B)	31	40	°C
3. BOD ₅	5-Day BOD test (5210 B), Membrane Electrode Method (4500-O-G)	7	20	mg/L
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	29.4	50	mg/L
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S ²⁻ -F)	<0.06	1.0	mg/L
6. COD	Closed Reflux, Titrimetric Method (5220 C)	47	120	mg/L
7. Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method (4500-NH ₃ -C & 4500-Norg-C)	<LOQ	100	mg/L
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	587	3,000	mg/L
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5	5	mg/L
10. Nickel	Digestion, ICP Method (3120 B)	<0.003	1.0	mg/L
11. Lead	Digestion, ICP Method (3120 B)	<0.002	0.2	mg/L
12. Chromium	Digestion, ICP Method (3120 B)	<0.001	-	mg/L

Remark :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF. Edition 23rd, 2017.

* = Test result / Analysis Report within the scope of certification.

LOQ = Limit of Quantitation (Total Kjeldahl Nitrogen <10.0 mg/L)

Standard : Notification of Ministry of Industry on setting Standards for Controlling Wastewater Drainage from Factories, B.E. 2017

- = Not configured for control.

Technical manager
(ว-100-ค-4859)
10/05/2024



Analysis results refer to submitted sample(s) only

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Page 1/1

TESTING
No.0198

ORIGINAL

REF.NO. : PM 67/0116-5

REPORT NO. : 051129/2024

ANALYSIS REPORT FOR WASTEWATER

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED			
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190			
COORDINATOR	:	ENVIRONMENT DEPARTMENT			
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733			
SAMPLING DATE	:	11/05/2024	REPORT DATE	:	23/05/2024
RECEIVED DATE	:	11/05/2024	SAMPLING BY	:	Mr. Santipap Khaonual (จ-100-จ-9555)
ANALYTICAL DATE	:	11-21/05/2024	ANALYZED BY	:	Miss Piyanut Phutphong (จ-100-จ-7637)
PARAMETER	METHOD OF ANALYSIS	RESULT	STANDARD	UNIT	
		Effluence (No.8 Pit)			
SAMPLING TIME	-	07:00	-	a.m.	
SAMPLE CONDITION	Observation	Brown Turbid, Slightly SS	-	-	
1. pH	Electrometric Method (4500-H ⁺ -B)	8.0	5.5-9.0	-	
2. Temperature	Laboratory and Field Method (2550 B)	28	40	°C	
3. BOD ₅	5-Day BOD test (5210 B), Membrane Electrode Method (4500-O-G)	8	20	mg/L	
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	35.6	50	mg/L	
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S ²⁻ -F)	0.16	1.0	mg/L	
6. COD	Closed Reflux, Titrimetric Method (5220 C)	85	120	mg/L	
7. Total Kjeldahl Nitrogen	Semi-Micro-Kjeldahl Method (4500-NH ₃ -C & 4500-Norg-C)	<LOQ	100	mg/L	
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	556	3,000	mg/L	
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5	5	mg/L	
10. Nickel	Digestion, ICP Method (3120 B)	<0.003	1.0	mg/L	
11. Lead	Digestion, ICP Method (3120 B)	<0.002	0.2	mg/L	
12. Chromium	Digestion, ICP Method (3120 B)	0.001	-	mg/L	

Remark :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF. Edition 23rd, 2017.

* = Test result / Analysis Report within the scope of certification.

LOQ = Limit of Quantitation (Total Kjeldahl Nitrogen <10.0 mg/L)

Standard : Notification of Ministry of Industry on setting Standards for Controlling Wastewater Drainage from Factories, B.E. 2017

- = Not configured for control.

Technical Manager
(จ-100-ท-4859)
23/05/2024



Analysis results refer to submitted sample(s) only

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Page 1/1

TESTING
No.0198

ORIGINAL

REF.NO. : PM 67/0116-6

REPORT NO. : 051549/2024

ANALYSIS REPORT FOR WASTEWATER

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED			
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190			
COORDINATOR	:	ENVIRONMENT DEPARTMENT			
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733			
SAMPLING DATE		: 17/06/2024	REPORT DATE	:	28/06/2024
RECEIVED DATE		: 17/06/2024	SAMPLING BY	:	Mr. Anupong Namsrithan (ว-100-จ-6515)
ANALYTICAL DATE		: 18-27/06/2024	ANALYZED BY	:	Miss Piyanut Phutphong (ว-100-จ-7637)
PARAMETER	METHOD OF ANALYSIS	RESULT	STANDARD	UNIT	
		Effluence (No.8 Pit)			
SAMPLING TIME	-	11:00	-	a.m.	
SAMPLE CONDITION	Observation	Green Turbid, Slightly SS	-	-	
1. pH	Electrometric Method (4500-H ⁺ -B)	8.2	5.5-9.0	-	
2. Temperature	Laboratory and Field Method (2550 B)	31	40	°C	
3. BOD ₅	5-Day BOD test (5210 B), Membrane Electrode Method (4500-O-G)	7	20	mg/L	
4. Total Suspended Solids	Dried at 103-105 °C (2540 D)	31.8	50	mg/L	
5. Hydrogen Sulfide	ZnS Precipitation, Iodometric Method (4500-S ²⁻ -F)	<0.06	1.0	mg/L	
6. COD	Closed Reflux, Titrimetric Method (5220 C)	79	120	mg/L	
7. Total Kjeldahl Nitrogen**	Macro-Kjeldahl Method (4500-N _{org} B.) & Titrimetric (4500-NH ₃ C.)	20	100	mg/L	
8. Total Dissolved Solids*	Dried at 180 °C (2540 C)	640	3,000	mg/L	
9. Oil & Grease	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	<5	5	mg/L	
10. Nickel	Digestion, ICP Method (3120 B)	0.015	1.0	mg/L	
11. Lead	Digestion, ICP Method (3120 B)	0.024	0.2	mg/L	
12. Chromium	Digestion, ICP Method (3120 B)	<0.001	-	mg/L	

Remark :

Method = Base on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF. Edition 23rd, 2017.

* = Test result / Analysis Report within the scope of certification.

** = Results analyzed by S.P.S. Consulting Service Co.,Ltd.

Standard : Notification of Ministry of Industry on setting Standards for Controlling Wastewater Drainage from Factories, B.E. 2017

- = Not configured for control.

28/06/2024

Analysis results refer to submitted sample(s) only

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ระดับเสียงในบรรยากาศทั่วไป

REF.NO. : PM 67/0501
REPORT NO. : 030632/2024

ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	: ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	: 12-15/05/2024	Report Date	: 31/05/2024
Received Date	: 17/05/2024	Sampling By	: Mr.Jirayut Seehabut
Analytical Date	: 17-29/05/2024	Analyst By	: -

Time	Result								
	Nong Yai Siri Worawat Witthaya School (UTM : 47P 0756083 E, 1454831 N)								
	12-13/05/2024			13-14/05/2024			14-15/05/2024		
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90
09:00 p.m.-10:00 p.m.	52.5	77.1	46.0	46.7	71.2	43.6	62.3	76.1	45.8
10:00 p.m.-11:00 p.m.	50.1	65.2	45.3	47.3	62.4	44.0	60.9	75.8	47.2
11:00 p.m.-00:00 a.m.	57.6	76.3	46.2	46.9	67.5	43.4	61.5	76.2	47.6
00:00 a.m.-01:00 a.m.	51.5	75.5	45.3	47.1	69.4	43.3	63.8	76.9	59.7
01:00 a.m.-02:00 a.m.	61.0	76.4	47.2	46.9	69.3	43.3	65.2	76.7	60.4
02:00 a.m.-03:00 a.m.	60.0	76.3	47.7	56.4	75.1	45.0	65.3	76.2	40.3
03:00 a.m.-04:00 a.m.	46.2	68.6	42.6	44.4	58.2	42.2	44.8	49.3	43.8
04:00 a.m.-05:00 a.m.	55.7	74.4	44.3	43.6	50.7	42.4	45.9	52.7	44.6
05:00 a.m.-06:00 a.m.	49.9	78.6	44.5	44.1	48.6	43.1	50.7	72.7	45.2
06:00- a.m-07:00 a.m.	47.5	68.5	44.0	46.0	67.0	42.5	47.9	67.7	44.8
07:00 a.m.-08:00 a.m.	45.1	58.9	42.9	43.6	57.4	41.4	50.3	69.3	46.0
08:00 a.m.-09:00 a.m.	44.3	51.4	43.1	42.8	49.9	41.6	51.5	69.7	47.1
09:00 a.m.-10:00 a.m.	49.1	77.8	43.7	43.3	47.8	42.3	50.1	66.1	45.3
10:00 a.m.-11:00 a.m.	46.7	67.7	43.2	44.4	51.2	43.1	49.6	73.7	45.4
11:00 a.m.-00:00 p.m.	44.3	58.1	42.1	49.2	71.2	43.7	47.5	72.0	44.4
00:00 p.m.-01:00 p.m.	43.5	50.6	42.3	46.4	66.2	43.3	48.1	63.2	44.8
01:00 p.m.-02:00 p.m.	44.0	48.5	43.0	48.8	67.8	44.5	47.7	68.3	44.2
02:00 p.m.-03:00 p.m.	45.1	51.9	43.8	50.0	68.2	45.6	47.9	70.2	44.1
03:00 p.m.-04:00 p.m.	49.9	71.9	44.4	48.6	64.6	43.8	47.7	70.1	44.1
04:00 p.m.-05:00 p.m.	47.1	66.9	44.0	48.1	72.2	43.9	57.2	75.9	45.8
05:00 p.m.-06:00 p.m.	49.5	68.5	45.2	46.0	70.5	42.9	51.1	75.1	44.9
06:00 p.m. -07:00 p.m.	50.7	68.9	46.3	46.6	61.7	43.3	60.6	76.0	46.8
07:00 p.m.-08:00 p.m.	49.3	65.3	44.5	46.2	66.8	42.7	59.6	75.9	47.3
08:00 p.m.-09:00 p.m.	48.8	72.9	44.6	46.4	68.7	42.6	46.8	67.8	43.3
Leq 24 hr	52.9			48.0			58.6		
Ldn	55.8			54.3			61.9		
Lmax	78.6			75.1			76.9		
Standard 24 hour	70			70			70		
Standard max	115			115			115		
Unit	dB(A)								

Remark : Sampling Method = Integrated Sound Level Meter.

Standard : Notification of the National Environment Board, No.15, B.E. 2540 (1997), dated July 12, B.E. 2540 (1997)
level standard

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Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 030633/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	12-15/05/2024	Report Date	:	31/05/2024
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut
Analytical Date	:	17-29/05/2024	Analyst By	:	-

Time	Result								
	Wat Nong Yai Siritham (UTM : 47P 0758022 E, 1454876 N)								
	12-13/05/2024			13-14/05/2024			14-15/05/2024		
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90
10:00 a.m.-11:00 a.m.	56.0	70.9	44.1	45.1	71.2	37.9	50.7	60.9	41.6
11:00 a.m.-00:00 p.m.	56.8	79.6	46.0	51.1	72.3	39.6	46.5	69.2	37.6
12:00 p.m.-01:00 p.m.	58.8	94.1	45.6	51.9	77.3	39.9	46.1	65.7	38.9
01:00 p.m.-02:00 p.m.	46.6	66.1	38.7	49.4	74.3	41.8	51.9	76.1	40.7
02:00 p.m.-03:00 p.m.	53.8	81.5	43.6	56.5	79.5	48.4	57.3	67.1	53.7
03:00 p.m.-04:00 p.m.	56.4	66.0	51.4	59.1	70.1	54.6	59.5	67.7	56.5
04:00 p.m.-05:00 p.m.	58.3	67.8	55.1	59.5	86.7	56.5	58.0	68.5	53.8
05:00 p.m.-06:00 p.m.	57.8	67.8	53.3	62.4	66.9	60.5	60.4	66.0	58.4
06:00 p.m. -07:00 p.m.	60.0	68.9	57.5	61.4	66.4	59.3	59.9	65.7	57.4
07:00 p.m.-08:00 p.m.	59.6	64.4	57.1	56.9	64.3	52.1	55.6	61.3	52.3
08:00 p.m.-09:00 p.m.	57.3	62.9	52.4	52.9	60.6	49.5	51.5	59.3	46.9
09:00 p.m.-10:00 p.m.	53.7	61.3	51.6	52.1	59.4	50.9	55.9	62.0	52.9
10:00 p.m.-11:00 p.m.	52.8	60.1	51.7	54.6	58.5	52.9	58.5	60.9	57.6
11:00 p.m.-00:00 a.m.	53.2	57.0	51.7	55.6	62.9	54.0	58.4	66.6	57.4
00:00 a.m.-01:00 a.m.	54.7	62.0	51.3	51.1	60.8	47.2	57.2	62.7	56.3
01:00 a.m.-02:00 a.m.	54.4	63.6	48.0	52.4	70.5	43.5	55.2	67.2	44.3
02:00 a.m.-03:00 a.m.	48.9	65.0	42.4	54.3	75.6	46.3	48.6	68.8	41.8
03:00 a.m.-04:00 a.m.	52.7	69.6	44.6	51.7	70.7	44.2	52.4	65.1	44.3
04:00 a.m.-05:00 a.m.	50.8	65.4	42.3	48.9	69.9	41.4	55.4	70.6	53.4
05:00 a.m.-06:00 a.m.	48.0	64.9	39.7	49.4	66.7	41.2	65.4	95.8	41.5
06:00- a.m-07:00 a.m.	49.5	72.6	38.8	53.8	71.7	42.0	46.3	62.9	39.3
07:00 a.m.-08:00 a.m.	48.7	68.2	39.9	47.2	64.8	39.3	45.6	64.1	38.8
08:00 a.m.-09:00 a.m.	52.1	68.2	45.2	46.1	68.6	38.8	54.8	78.3	52.6
09:00 a.m.-10:00 a.m.	46.6	64.3	38.1	52.5	72.5	39.5	53.7	71.3	52.7
Leq 24 hr	55.3			55.5			57.1		
Ldn	96.6			60.1			64.6		
Lmax	94.1			86.7			95.8		
Standard 24 hour	70			70			70		
Standard max	115			115			115		
Unit	dB(A)								

Remark : Sampling Method = Integrated Sound Level Meter.

Standard : Notification of the National Environment Board, No.15, B.E. 2540 (1997), dated July 12, B.E. 2540 (1997)
level standard

31/05/2024

Analysis results refer to submitted sample(s) only

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF .NO. : PM 67/0501

REPORT NO. : 030634/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	12-15/05/2024	Report Date	:	31/05/2024
Received Date	:	17/05/2024	Sampling By	:	Mr.Jirayut Seehabut
Analytical Date	:	17-29/05/2024	Analyst By	:	-

Time	Result								
	Project area (UTM : 47P 0756498 E, 1453688 N)								
	12-13/05/2024			13-14/05/2024			14-15/05/2024		
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90
11:00 a.m.-12:00 p.m.	65.3	84.5	64.6	66.6	68.5	66.1	66.8	71.2	66.3
12:00 p.m.-01:00 p.m.	65.3	75.2	64.7	66.6	68.7	66.1	66.4	76.2	65.9
01:00 p.m.-02:00 p.m.	65.7	69.3	65.0	66.6	71.6	66.2	66.4	71.5	65.9
02:00 p.m.-03:00 p.m.	66.8	80.8	65.5	66.7	77.4	66.2	66.3	69.0	65.8
03:00 p.m.-04:00 p.m.	66.8	83.8	65.6	66.8	84.0	66.2	66.3	72.7	65.9
04:00 p.m.-05:00 p.m.	66.5	72.0	65.0	66.7	75.6	65.8	66.1	68.2	65.6
05:00 p.m.-06:00 p.m.	69.8	71.9	68.2	66.1	84.1	65.2	66.3	68.0	65.7
06:00 p.m. -07:00 p.m.	68.6	76.6	67.1	66.6	83.1	65.0	66.8	69.6	66.3
07:00 p.m.-08:00 p.m.	68.4	84.8	66.9	66.0	76.4	61.8	66.7	68.6	66.3
08:00 p.m.-09:00 p.m.	67.4	69.3	66.5	69.7	79.4	64.0	66.8	71.1	66.3
09:00 p.m.-10:00 p.m.	66.4	76.3	65.4	70.4	79.3	64.8	66.8	68.7	66.3
10:00 p.m.-11:00 p.m.	68.0	72.4	66.4	70.9	80.6	64.7	66.8	68.9	66.3
11:00 p.m.-12:00 a.m.	68.4	77.4	67.9	69.9	82.3	65.6	66.1	71.1	65.7
12:00 a.m.-01:00 a.m.	66.8	69.5	65.7	66.5	80.5	65.2	66.2	76.9	65.7
01:00 a.m.-02:00 a.m.	66.6	71.0	66.1	66.5	83.5	65.3	66.3	83.5	65.7
02:00 a.m.-03:00 a.m.	66.2	76.0	65.7	66.2	71.7	64.7	66.2	75.1	65.3
03:00 a.m.-04:00 a.m.	66.2	71.3	65.7	69.5	71.6	67.9	65.6	83.6	64.7
04:00 a.m.-05:00 a.m.	66.1	68.8	65.6	68.3	76.3	66.8	66.1	82.6	64.5
05:00 a.m.-06:00 a.m.	66.1	72.5	65.7	68.1	84.5	66.6	65.5	75.9	61.3
06:00- a.m-07:00 a.m.	65.9	68.0	65.4	67.1	69.0	66.2	69.2	78.9	63.5
07:00 a.m.-08:00 a.m.	66.1	67.8	65.5	66.1	76.0	65.1	69.9	78.8	64.3
08:00 a.m.-09:00 a.m.	66.6	69.4	66.1	68.2	72.6	66.6	70.4	80.1	64.2
09:00 a.m.-10:00 a.m.	66.5	68.4	66.1	68.6	77.6	68.1	69.4	81.8	65.1
10:00 a.m.-11:00 a.m.	66.6	70.9	66.1	67.0	69.7	65.9	66.9	68.8	66.5
Leq 24 hrs.	66.9			67.8			67.2		
Ldn	73.2			74.7			73.1		
Lmax	84.8			84.5			83.6		
Standard 24 hour	70			70			70		
Standard max	115			115			115		
Unit	dB(A)								

Remark : Sampling Method = Integrated Sound Level Meter.

Standard : Notification of the National Environment Board, No.15, B.E. 2540 (1997), dated July 12, B.E. 2540 (1997)
level standard

31/05/2024

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Page 1/1

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

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ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 021102/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED				
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190				
COORDINATOR	:	ENVIRONMENT DEPARTMENT				
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733				
Sampling Date	:	09/05/2024	Report Date	:	28/05/2024	
Received Date	:	14/05/2024	Sampling By	:	Mr. Santipap Khaonual	
Analytical Date	:	14-27/05/2024	Analyst By	:	Miss Nitsara Phananikit	
Location	Parameters	Method of Analysis	Time	Result	Standard	Unit
Cassava grinding/milling area	1. Total Dust	Gravimetric Method (NIOSH 0500)	09:30 a.m.-11:30 a.m.	0.417	15 ^[1]	mg/m ³
	2. Respirable Dust	Gravimetric Method (NIOSH 0600)	09:30 a.m.-11:30 a.m.	0.270	5 ^[1]	mg/m3
	3. Ethyl Alcohol	GC Method (NIOSH 1400)	09:30 a.m.-11:30 a.m.	<0.04	1,000	ppm
	4. TVOCs	VOC Analyzer (PID) (US.EPA Method 21)	09:30 a.m.-09:40 a.m.	1	1	ppm

Standard : Notification of Department of Labor Protection and Welfare, Concentration Limitation of Hazardous Substances, 2017.

Standard^[1] : Occupational Safety and Health Administration (OSHA).



vis.sasitorn - Savanwike/

Technical Manager

28/05/2024



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Page 1/1

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ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 021103/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED				
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190				
COORDINATOR	:	ENVIRONMENT DEPARTMENT				
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733				
Sampling Date	:	09/05/2024	Report Date	:	28/05/2024	
Received Date	:	14/05/2024	Sampling By	:	Mr. Santipap Khaonual	
Analytical Date	:	14-27/05/2024	Analyst By	:	Miss Nitsara Phananikit	
Location	Parameters	Method of Analysis	Time	Result	Standard	Unit
Fermentation building area	1. Total Dust	Gravimetric Method (NIOSH 0500)	09:55 a.m.-00:00 p.m.	0.880	15 ⁽¹⁾	mg/m ³
	2. Respirable Dust	Gravimetric Method (NIOSH 0600)	09:55 a.m.-00:00 p.m.	0.612	5 ⁽¹⁾	mg/m3
	3. Ethyl Alcohol	GC Method (NIOSH 1400)	09:55 a.m.-00:00 p.m.	<0.04	1,000	ppm
	4. TVOCs	VOC Analyzer (PID) (US.EPA Method 21)	09:55 a.m.-10:05 a.m.	<1	1	ppm

Standard : Notification of Department of Labor Protection and Welfare, Concentration Limitation of Hazardous Substances, 2017.

Standard^[1] : Occupational Safety and Health Administration (OSHA).

Technical Manager

28/05/2024

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Page 1/1

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ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 021107/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED				
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190				
COORDINATOR	:	ENVIRONMENT DEPARTMENT				
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733				
Sampling Date	:	09/05/2024	Report Date	:	28/05/2024	
Received Date	:	14/05/2024	Sampling By	:	Mr. Santipap Khaonual	
Analytical Date	:	14-27/05/2024	Analyst By	:	Miss Nitsara Phananikit	
Location	Parameters	Method of Analysis	Time	Result	Standard	Unit
Fermentation 1	1. Total Dust	Gravimetric Method (NIOSH 0500)	09:38 a.m.-11:50 a.m.	0.720	15 ^[1]	mg/m ³
	2. Sodium Hydroxide	Titrimetric Method (NIOSH 7401)	09:38 a.m.-11:50 a.m.	0.445	2	mg/m ³
	3. Hydrogen Chloride	IC Method (OSHA ID 1745G)	09:38 a.m.-11:50 a.m.	<0.01	5	ppm
	4. Chlorine	IC Method (NIOSH 6011)	09:38 a.m.-11:50 a.m.	<0.01	1	ppm

Standard : Notification of Department of Labor Protection and Welfare, Concentration Limitation of Hazardous Substances, 2017.

Standard^[1] : Occupational Safety and Health Administration (OSHA).

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Page 1/1

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ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 021108/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR	:	ENVIRONMENT DEPARTMENT
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date	:	09/05/2024	Report Date	:	28/05/2024
Received Date	:	14/05/2024	Sampling By	:	Mr. Santipap Khaonual
Analytical Date	:	14-27/05/2024	Analyst By	:	Miss Nitsara Phanakit

Location	Parameters	Method of Analysis	Time	Result	Standard	Unit
Fermentation 2	1. Total Dust	Gravimetric Method (NIOSH 0500)	09:39 a.m.-11:50 a.m.	0.229	15 ^[1]	mg/m ³
	2. Sodium Hydroxide	Titrimetric Method (NIOSH 7401)	09:39 a.m.-11:50 a.m.	0.150	2	mg/m ³
	3. Hydrogen Chloride	IC Method (OSHA ID 1745G)	09:39 a.m.-11:50 a.m.	<0.01	5	ppm
	4. Chlorine	IC Method (NIOSH 6011)	09:39 a.m.-11:50 a.m.	<0.01	1	ppm

Standard : Notification of Department of Labor Protection and Welfare, Concentration Limitation of Hazardous Substances, 2017.

Standard^[1] : Occupational Safety and Health Administration (OSHA).

Technical Manager

28/05/2024



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Page 1/1

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ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 021109/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED				
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190				
COORDINATOR	:	ENVIRONMENT DEPARTMENT				
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733				
Sampling Date	:	09/05/2024	Report Date	:	28/05/2024	
Received Date	:	14/05/2024	Sampling By	:	Mr. Santipap Khaonual	
Analytical Date	:	14-27/05/2024	Analyst By	:	Miss Nitsara Phananikit	
Location	Parameters	Method of Analysis	Time	Result	Standard	Unit
Loading area	1. Total Dust	Gravimetric Method (NIOSH 0500)	01:00 p.m.-03:00 p.m.	0.583	15 ^[1]	mg/m ³
	2. Sodium Hydroxide	Titrimetric Method (NIOSH 7401)	01:00 p.m.-03:00 p.m.	0.163	2	mg/m ³
	3. Hydrogen Chloride	IC Method (OSHA ID 174SG)	01:00 p.m.-03:00 p.m.	<0.01	5	ppm

Standard : Notification of Department of Labor Protection and Welfare, Concentration Limitation of Hazardous Substances, 2017.

Standard^[1] : Occupational Safety and Health Administration (OSHA).

Technical Manager

28/05/2024

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Page 1/1

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 041760/2024

ANALYSIS REPORT

CLIENT NAME : P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED
ADDRESS : 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190
COORDINATOR : ENVIRONMENT DEPARTMENT
CONTACT INFORMATION : TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733

Sampling Date : 10/05/2024 Report Date : 28/05/2024
Received Date : 14/05/2024 Sampling By : Ms.Laddawan Wongkamjan
Analytical Date : 14-27/05/2024 Analyst By : -

Time	Location	
	Cassava Grinding and Milling Area	
	Leq 1 hr	L _{max}
09:00 a.m.- 10:00 a.m.	84.8	103.9
10:00 a.m.- 11:00 a.m.	84.5	94.6
11:00 a.m.- 00:00 p.m.	84.7	105.1
00:00 p.m.- 01:00 p.m.	84.8	95.3
01:00 p.m.- 02:00 p.m.	85.0	97.3
02:00 p.m.- 03:00 p.m.	85.1	104.0
03:00 p.m.- 04:00 p.m.	84.8	101.9
04:00 pm.- 05:00 p.m.	84.8	102.1
TWA 8 hr	85	-
TWA 8 hr (L _{max})	-	105.1
Standard	85/90 ^[1]	115 ^[1]
Unit	dB(A)	

Remark : Sampling Method = Integrated Sound Level Meter.

Standard : Announces of the Department of Labor Protection and Welfare. The standard of Time Weighted Average (TWA), B.E. 2561 (2018).

Standard^[1] : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

: Notification Of Ministry Of Industry: The Safety Protection Measures For Business Operation Regarding To Working Environment, B.E.2546 (2003).



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Page 1/1

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Tel : 0 2920 1458-9 Fax : 0 2920 1460 E-mail : met_jj@yahoo.com

ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 041761/2024

ANALYSIS REPORT

CLIENT NAME	:	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED			
ADDRESS	:	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190			
COORDINATOR	:	ENVIRONMENT DEPARTMENT			
CONTACT INFORMATION	:	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733			
Sampling Date	:	10/05/2024	Report Date	:	28/05/2024
Received Date	:	14/05/2024	Sampling By	:	Ms.Laddawan Wongkamjan
Analytical Date	:	14-27/05/2024	Analyst By	:	-
Time	Location				
	Boiler area				
	Leq 1 hr		L _{max}		
09:00 a.m.- 10:00 a.m.	83.5		105.1		
10:00 a.m.- 11:00 a.m.	81.5		94.7		
11:00 a.m.- 00:00 p.m.	81.4		92.2		
00:00 p.m.- 01:00 p.m.	81.2		94.9		
01:00 p.m.- 02:00 p.m.	80.6		98.5		
02:00 p.m.- 03:00 p.m.	82.8		90.8		
03:00 p.m.- 04:00 p.m.	82.7		100.2		
04:00 pm.- 05:00 p.m.	82.6		93.5		
TWA 8 hr	82		-		
TWA 8 hr (Lmax)	-		105.1		
Standard	85/90 ^[1]		115 ^[1]		
Unit	dB(A)				

Remark : Sampling Method = Integrated Sound Level Meter.

Standard : Announces of the Department of Labor Protection and Welfare. The standard of Time Weighted Average (TWA), B.E. 2561 (2018).

Standard^[1] : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

: Notification Of Ministry Of Industry: The Safety Protection Measures For Business Operation Regarding To Working Environment, B.E.2546 (2003).

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ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 030583/2024

ANALYSIS REPORT

CLIENT NAME	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED		
ADDRESS	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190		
COORDINATOR	ENVIRONMENT DEPARTMENT		
CONTACT INFORMATION	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733		
Sampling Date	10-11/05/2024	Report Date	28/05/2024
Received Date	14/05/2024	Sampling By	Mr. Santipap Khaonual
Analytical Date	14-27/05/2024	Analyst By	-
Time	Result		
	Cassava Grinding and Milling Area		
	10-11/05/2024		
	Leq	Lmax	L ₉₀
10:00 p.m.-11:00 p.m.	70.8	103.6	70.2
11:00 p.m.-00:00 a.m.	68.3	94.3	68.0
00:00 a.m.-01:00 a.m.	70.7	104.8	70.0
01:00 a.m.-02:00 a.m.	70.8	95.0	70.0
02:00 a.m.-03:00 a.m.	69.9	97.0	68.4
03:00 a.m.-04:00 a.m.	71.1	103.7	70.3
04:00 a.m.-05:00 a.m.	70.8	101.6	70.2
05:00 a.m.-06:00 a.m.	70.8	101.8	70.1
06:00 a.m.-07:00 a.m.	66.2	97.7	65.7
07:00 a.m.-08:00 a.m.	66.8	109.8	64.4
08:00 a.m.-09:00 a.m.	64.7	97.5	63.7
09:00 a.m.-10:00 a.m.	64.9	99.1	63.4
10:00 a.m.-11:00 a.m.	66.1	94.9	65.7
11:00 a.m.-00:00 p.m.	66.9	98.3	65.8
00:00 p.m.-01:00 p.m.	66.7	104.5	65.7
01:00 p.m.-02:00 p.m.	66.5	98.7	65.5
02:00 p.m.-03:00 p.m.	65.8	102.0	64.3
03:00 p.m.-04:00 p.m.	66.8	101.6	64.3
04:00 p.m.-05:00 p.m.	67.1	109.1	65.5
05:00 p.m.-06:00 p.m.	70.5	95.3	70.0
06:00 p.m.-07:00 p.m.	70.4	103.8	68.3
07:00 p.m.-08:00 p.m.	71.8	98.8	69.5
08:00 p.m.-09:00 p.m.	72.3	105.4	69.5
09:00 p.m.-10:00 p.m.	70.9	95.5	70.3
Leq 24 hr	69.3		
Ldn	74.6		
Lmax	109.8		
Standard 24 hour	70		
Standard max	115		
Unit	dB(A)		

Remark : Sampling Method = Integrated Sound Level Meter.

Standard : Standard Notification of the Ministry of industry on configure volume disturbances and noise generated by the factory
B.E. 2548 (2005)

Measurement Staff and Analyst

28/05/2024

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Page 1/1

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36/659 Moo 6, Tambon Bangrakpattana, Amphoe Bangbuatong, Changwat Nonthaburi 11110

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ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 030584/2023

ANALYSIS REPORT

CLIENT NAME	P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED		
ADDRESS	999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190		
COORDINATOR	ENVIRONMENT DEPARTMENT		
CONTACT INFORMATION	TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733		
Sampling Date	10-11/05/2024	Report Date	28/05/2024
Received Date	14/05/2024	Sampling By	Mr. Santipap Khaonual
Analytical Date	14-27/05/2024	Analyst By	-
Time	Result		
	Boiler area		
	10-11/05/2024		
	Leq	Lmax	L ₉₀
10:00 p.m.-11:00 p.m.	69.2	104.8	66.4
11:00 p.m.-00:00 a.m.	70.3	94.4	68.5
00:00 a.m.-01:00 a.m.	70.9	91.9	70.1
01:00 a.m.-02:00 a.m.	70.3	94.6	69.2
02:00 a.m.-03:00 a.m.	72.5	98.2	72.1
03:00 a.m.-04:00 a.m.	72.4	90.5	72.0
04:00 a.m.-05:00 a.m.	72.3	99.9	71.8
05:00 a.m.-06:00 a.m.	67.6	93.2	67.1
06:00 a.m.-07:00 a.m.	67.1	90.6	66.2
07:00 a.m.-08:00 a.m.	67.6	93.1	66.3
08:00 a.m.-09:00 a.m.	69.5	94.6	69.0
09:00 a.m.-10:00 a.m.	69.6	96.1	68.9
10:00 a.m.-11:00 a.m.	69.5	97.3	68.3
11:00 a.m.-00:00 p.m.	69.5	95.2	67.6
00:00 p.m.-01:00 p.m.	69.7	93.7	69.3
01:00 p.m.-02:00 p.m.	69.7	92.0	69.4
02:00 p.m.-03:00 p.m.	69.9	96.0	69.3
03:00 p.m.-04:00 p.m.	66.8	92.3	65.7
04:00 p.m.-05:00 p.m.	66.6	95.0	65.8
05:00 p.m.-06:00 p.m.	66.0	98.6	64.9
06:00 p.m.-07:00 p.m.	68.2	90.9	67.8
07:00 p.m.-08:00 p.m.	68.1	100.3	67.7
08:00 p.m.-09:00 p.m.	68.0	93.6	67.5
09:00 p.m.-10:00 p.m.	71.6	91.0	69.8
Leq 24 hr	69.7		
Ldn	75.3		
Lmax	104.8		
Standard 24 hour	70		
Standard max	115		
Unit	dB(A)		

Remark : Sampling Method = Integrated Sound Level Meter.

Standard : Standard Notification of the Ministry of industry on configure volume disturbances and noise generated by the factory
B.E. 2548 (2005)

Measurement Staff and Analyst

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ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 041762/2024

ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED					
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190					
COORDINATOR	: ENVIRONMENT DEPARTMENT					
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733					
Sampling Date	: 10/05/2024	Report Date	: 28/05/2024			
Received Date	: 14/05/2024	Sampling By	: Ms.Laddawan Wongkamjan			
Analytical Date	: 14-27/05/2024	Analyst By	: -			
Location						
Grinding and Milling area						
Time	Process	Heat Stress (°C)			Result (°C)	
		NWB	DB	GT	WBGT	WBGT (Average)
09:30 a.m.-11:30 a.m.	Control the operation of machines	27.0	31.6	34.5	29.3	29.3
Standard		-	-	-	32	
Unit		°C				

Remark : Sampling Method = ACGIH Method

WBGT = Wet Bulb Globe Temperature

GT = Globe Temperature

DB = Dry Bulb Temperature

NWB = Natural Wet Bulb Temperature

Standard : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)



Measurement Staff and Analyst

28/05/2024

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ORIGINAL

REF.NO. : PM 67/0501

REPORT NO : 041763/2024

ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED					
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190					
COORDINATOR	: ENVIRONMENT DEPARTMENT					
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733					
Sampling Date	: 10/05/2024	Report Date	: 28/05/2024			
Received Date	: 14/05/2024	Sampling By	: Ms.Laddawan Wongkamjan			
Analytical Date	: 14-27/05/2024	Analyst By	: -			
Location						
Boiler						
Time	Process	Heat Stress (°C)			Result (°C)	
		NWB	DB	GT	WBGT	WBGT _(Average)
09:33 a.m.-11:33 a.m.	Controlling the loading of substances from trucks	26.8	31.4	34.3	29.1	29.1
Standard		-	-	-	32	
Unit		°C				

Remark : Sampling Method = ACGIH Method

WBGT = Wet Bulb Globe Temperature

GT = Globe Temperature

DB = Dry Bulb Temperature

NWB = Natural Wet Bulb Temperature

Standard : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

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ORIGINAL

REF.NO. : PM 67/0501

REPORT NO. : 041764/2024

ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED					
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190					
COORDINATOR	: ENVIRONMENT DEPARTMENT					
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733					
Sampling Date	: 10/05/2024	Report Date	: 28/05/2024			
Received Date	: 14/05/2024	Sampling By	: Ms.Laddawan Wongkamjan			
Analytical Date	: 14-27/05/2024	Analyst By	: -			
Location						
Fermentation building						
Time	Process	Heat Stress (°C)			Result (°C)	
		NWB	DB	GT	WBGT	WBGT _(Average)
09:35 a.m.-11:35 a.m.	Control the operation of machines	26.5	31.5	33.7	28.7	28.7
Standard		-	-	-	32	
Unit		°C				

Remark : Sampling Method = ACGIH Method

WBGT = Wet Bulb Globe Temperature

GT = Globe Temperature

DB = Dry Bulb Temperature

NWB = Natural Wet Bulb Temperature

Standard : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

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REF.NO. : PM 67/0501

REPORT NO. : 041765/2024

ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED					
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190					
COORDINATOR	: ENVIRONMENT DEPARTMENT					
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733					
Sampling Date	: 10/05/2024	Report Date	: 28/05/2024			
Received Date	: 14/05/2024	Sampling By	: Ms.Laddawan Wongkamjan			
Analytical Date	: 14-27/05/2024	Analyst By	: -			
Location						
Refinery and water separation plant						
Time	Process	Heat Stress (°C)			Result (°C)	
		NWB	DB	GT	WBGT	WBGT _(Average)
09:38 a.m.-11:38 a.m.	Control the operation of the boiler	27.0	31.7	35.4	29.5	29.5
Standard		-	-	-	32	
Unit		°C				

Remark : Sampling Method = ACGIH Method

WBGT = Wet Bulb Globe Temperature

GT = Globe Temperature

DB = Dry Bulb Temperature

NWB = Natural Wet Bulb Temperature

Standard : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

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ORIGINAL

REF.NO. : PM 67/0501

REPORT NO : 041766/2024

ANALYSIS REPORT

CLIENT NAME	: P.S.C. STARCH PRODUCTS PUBLIC COMPANY LIMITED					
ADDRESS	: 999 Moo 5, Tambon Nong Yai, Amphoe Nong Yai, Changwat Chonburi 20190					
COORDINATOR	: ENVIRONMENT DEPARTMENT					
CONTACT INFORMATION	: TELEPHONE NO. 038 219730-4 FACIMILE NO. 038 219733					
Sampling Date	: 10/05/2024	Report Date	: 28/05/2024			
Received Date	: 14/05/2024	Sampling By	: Ms.Laddawan Wongkamjan			
Analytical Date	: 14-27/05/2024	Analyst By	: -			
Location						
Product dispensing building						
Time	Process	Heat Stress (°C)			Result (°C)	
		NWB	DB	GT	WBGT	WBGT (Average)
09:40 a.m.-11:40 a.m.	Check gauges/gauges/valves.	26.5	31.4	32.7	28.4	28.4
	Standard	-	-	-	32	
	Unit	°C				

Remark : Sampling Method = ACGIH Method

WBGT = Wet Bulb Globe Temperature

GT = Globe Temperature

DB = Dry Bulb Temperature

NWB = Natural Wet Bulb Temperature

Standard : Standard Ministerial Regulations the Standard of Management and Operation on Safety, Occupation, And Workplace Environment Regarding to Heat, Light and Noise, B.E.2559 (2016)

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