

ภาคผนวก ข-4

ผลการติดตามตรวจสอบระดับเสียงทั่วไป

ANALYSIS REPORT

CUSTOMER NAME : TPI POLENE POWER PUBLIC COMPANY LIMITED
ADDRESS : 299 MOO 5 MITRAPARP ROAD MITTRAPHAP TAKKWANG KAENGKOI SARABURI 18260
CONTACT INFORMATION : TEL : 081 398 5957 e-mail : chod.padmuk@gmail.com
MEASURING PLACE : BAN SAB-BON SCHOOL
MEASURING TYPE : AMBIENT (NOISE)
MEASURING DATE : FEBRUARY 2-9, 2024
MEASURING TIME : *
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER
MEASURED BY : MR PAIRAT KUMNERDRAKSA
RECEIVED DATE : FEBRUARY 2-9, 2024
ANALYTICAL DATE : FEBRUARY 2-9, 2024
REPORT NO. : 2024-U013102
WORK NO. : 2023-010647
ANALYSIS NO. : T24AC762-0008 - T24AC762-0014

TIME*	RESULT				
	BAN SAB-BON SCHOOL				
	FEBRUARY 2-3, 2024				
	T24AC762-0008				
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A10}	
07:00-08:00 HOUR	62.9	76.8	59.2	-	
08:00-09:00 HOUR	61.4	82.9	58.2	-	
09:00-10:00 HOUR	61.9	85.3	57.5	-	
10:00-11:00 HOUR	62.0	80.9	58.5	-	
11:00-12:00 HOUR	63.6	84.9	58.5	-	
12:00-13:00 HOUR	60.9	72.3	56.9	-	
13:00-14:00 HOUR	59.3	73.5	54.3	-	
14:00-15:00 HOUR	58.2	73.3	52.3	-	
15:00-16:00 HOUR	58.7	74.6	54.0	-	
16:00-17:00 HOUR	61.2	76.4	58.3	-	
17:00-18:00 HOUR	61.9	95.9	58.3	-	
18:00-19:00 HOUR	60.2	76.1	57.6	-	
19:00-20:00 HOUR	59.9	76.5	57.0	-	
20:00-21:00 HOUR	59.7	69.0	56.4	-	
21:00-22:00 HOUR	59.4	75.5	56.4	-	
22:00-23:00 HOUR	59.2	76.1	55.9	-	
23:00-00:00 HOUR	59.7	75.9	55.9	-	
00:00-01:00 HOUR	59.2	69.9	54.5	-	
01:00-02:00 HOUR	58.7	72.8	53.6	-	
02:00-03:00 HOUR	58.6	71.0	53.7	-	
03:00-04:00 HOUR	58.1	76.6	52.8	-	
04:00-05:00 HOUR	58.5	71.7	53.1	-	
05:00-06:00 HOUR	59.5	71.8	55.1	-	
06:00-07:00 HOUR	60.8	75.3	56.8	65.9	
L _{Aeq} 24 hours			60.4		
UNIT			dB(A)		

TIME*	RESULT				
	BAN SAB-BON SCHOOL				
	FEBRUARY 3-4, 2024				
	T24AC762-0009				
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A10}	
07:00-08:00 HOUR	62.0	78.0	58.8	65.9	
08:00-09:00 HOUR	62.0	78.9	58.9	65.9	
09:00-10:00 HOUR	61.8	72.6	59.2	65.9	
10:00-11:00 HOUR	61.5	74.2	58.7	65.9	
11:00-12:00 HOUR	61.4	80.5	58.6	65.9	
12:00-13:00 HOUR	60.7	72.1	58.1	65.9	
13:00-14:00 HOUR	60.3	70.2	57.8	65.9	
14:00-15:00 HOUR	60.5	72.3	57.8	65.9	
15:00-16:00 HOUR	58.0	75.2	54.9	65.9	
16:00-17:00 HOUR	60.3	76.5	57.3	65.9	
17:00-18:00 HOUR	60.8	72.9	58.1	65.9	
18:00-19:00 HOUR	60.3	75.2	57.3	65.9	
19:00-20:00 HOUR	60.0	71.0	56.7	65.9	
20:00-21:00 HOUR	60.3	79.6	56.9	65.9	
21:00-22:00 HOUR	60.6	77.1	56.5	65.9	
22:00-23:00 HOUR	60.1	71.9	56.1	66.0	
23:00-00:00 HOUR	59.4	79.5	54.7	66.0	
00:00-01:00 HOUR	58.8	75.9	52.8	65.9	
01:00-02:00 HOUR	57.9	74.6	51.5	65.9	
02:00-03:00 HOUR	57.5	69.2	51.5	65.8	
03:00-04:00 HOUR	57.2	71.6	51.9	65.7	
04:00-05:00 HOUR	57.4	72.6	51.7	65.6	
05:00-06:00 HOUR	58.1	68.7	53.3	65.5	
06:00-07:00 HOUR	59.7	74.5	55.0	65.4	
L _{Aeq} 24 hours			60.1		
UNIT			dB(A)		

TIME*	RESULT				
	BAN SAB-BON SCHOOL				
	FEBRUARY 4-5, 2024				
	T24AC762-0010				
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A10}	
07:00-08:00 HOUR	60.9	77.3	56.9	65.4	
08:00-09:00 HOUR	59.8	77.2	55.2	65.3	
09:00-10:00 HOUR	61.1	75.1	57.6	65.3	
10:00-11:00 HOUR	61.6	76.6	58.3	65.3	
11:00-12:00 HOUR	61.4	81.4	58.5	65.3	
12:00-13:00 HOUR	60.7	74.9	57.8	65.3	
13:00-14:00 HOUR	60.5	71.7	58.0	65.3	
14:00-15:00 HOUR	60.4	72.7	57.6	65.3	
15:00-16:00 HOUR	60.3	73.2	57.5	65.3	
16:00-17:00 HOUR	60.3	73.7	57.4	65.3	
17:00-18:00 HOUR	60.4	68.8	57.5	65.3	
18:00-19:00 HOUR	60.5	76.2	57.8	65.3	
19:00-20:00 HOUR	60.2	71.3	57.5	65.3	
20:00-21:00 HOUR	60.2	71.6	57.5	65.3	
21:00-22:00 HOUR	60.3	73.3	57.4	65.3	
22:00-23:00 HOUR	60.3	68.8	57.2	65.4	
23:00-00:00 HOUR	59.5	75.5	55.8	65.4	
00:00-01:00 HOUR	58.5	69.8	53.8	65.3	
01:00-02:00 HOUR	57.5	69.8	52.7	65.3	
02:00-03:00 HOUR	57.6	73.3	52.1	65.3	
03:00-04:00 HOUR	57.7	72.9	53.2	65.4	
04:00-05:00 HOUR	58.4	71.3	54.6	65.4	
05:00-06:00 HOUR	60.7	74.9	57.5	65.7	
06:00-07:00 HOUR	60.8	78.7	57.7	65.8	
L _{Aeq} 24 hours			60.1		
UNIT			dB(A)		

TIME*	RESULT				
	BAN SAB-BON SCHOOL				
	FEBRUARY 5-6, 2024				
	T24AC762-0011				
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A10}	
07:00-08:00 HOUR	60.3	80.4	56.9	65.8	
08:00-09:00 HOUR	60.0	76.4	56.9	65.8	
09:00-10:00 HOUR	59.8	76.7	56.8	65.8	
10:00-11:00 HOUR	59.8	74.5	56.5	65.8	
11:00-12:00 HOUR	59.7	69.6	55.8	65.8	
12:00-13:00 HOUR	59.5	80.3	54.7	65.7	
13:00-14:00 HOUR	57.8	72.1	52.5	65.7	
14:00-15:00 HOUR	57.9	66.8	53.3	65.7	
15:00-16:00 HOUR	60.2	70.8	56.1	65.7	
16:00-17:00 HOUR	60.5	74.9	57.5	65.7	
17:00-18:00 HOUR	60.8	77.9	57.7	65.7	
18:00-19:00 HOUR	60.7	72.4	57.7	65.7	
19:00-20:00 HOUR	59.9	83.5	56.4	65.7	
20:00-21:00 HOUR	60.1	72.0	57.2	65.7	
21:00-22:00 HOUR	60.3	70.6	57.5	65.7	
22:00-23:00 HOUR	60.3	76.5	57.6	65.7	
23:00-00:00 HOUR	60.1	71.2	57.4	65.8	
00:00-01:00 HOUR	59.5	80.5	54.2	65.9	
01:00-02:00 HOUR	58.2	73.9	53.2	65.9	
02:00-03:00 HOUR	57.9	70.4	52.6	65.9	
03:00-04:00 HOUR	57.3	69.8	51.6	65.9	
04:00-05:00 HOUR	57.5	69.0	52.6	65.8	
05:00-06:00 HOUR	59.0	70.1	55.1	65.7	
06:00-07:00 HOUR	60.8	77.8	57.3	65.7	
L _{Aeq} 24 hours			59.6		
UNIT			dB(A)		

TIME*	RESULT			
	BAN SAB-BON SCHOOL			
	FEBRUARY 6-7, 2024			
	T24AC762-0012			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A5n}
07:00-08:00 HOUR	61.0	74.9	58.1	65.7
08:00-09:00 HOUR	60.8	75.3	57.7	65.7
09:00-10:00 HOUR	60.2	75.2	57.1	65.7
10:00-11:00 HOUR	60.2	76.3	56.8	65.7
11:00-12:00 HOUR	59.8	72.6	56.5	65.7
12:00-13:00 HOUR	60.2	71.9	57.1	65.7
13:00-14:00 HOUR	60.1	72.6	57.1	65.7
14:00-15:00 HOUR	60.0	74.3	56.2	65.7
15:00-16:00 HOUR	60.9	74.0	57.6	65.7
16:00-17:00 HOUR	61.4	78.6	58.1	65.8
17:00-18:00 HOUR	59.2	78.0	54.1	65.7
18:00-19:00 HOUR	57.9	69.9	52.5	65.7
19:00-20:00 HOUR	58.1	71.1	52.6	65.7
20:00-21:00 HOUR	57.9	69.8	52.2	65.7
21:00-22:00 HOUR	57.8	70.8	52.8	65.7
22:00-23:00 HOUR	57.9	73.9	52.2	65.4
23:00-00:00 HOUR	57.3	69.1	51.8	65.2
00:00-01:00 HOUR	58.6	75.7	52.6	65.1
01:00-02:00 HOUR	58.2	74.9	51.8	65.1
02:00-03:00 HOUR	57.3	69.0	51.3	65.0
03:00-04:00 HOUR	57.0	71.4	51.7	65.0
04:00-05:00 HOUR	57.7	72.9	52.0	65.0
05:00-06:00 HOUR	57.8	68.4	53.0	64.9
06:00-07:00 HOUR	59.6	74.4	54.9	64.7
L _{Aeq} 24 hours	59.2			
UNIT	dB(A)			

TIME*	RESULT			
	BAN SAB-BON SCHOOL			
	FEBRUARY 7-8, 2024			
	T24AC762-0013			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A5n}
07:00-08:00 HOUR	61.4	77.8	57.4	64.7
08:00-09:00 HOUR	63.0	76.9	59.3	64.8
09:00-10:00 HOUR	61.7	83.2	58.5	64.8
10:00-11:00 HOUR	61.7	85.1	57.3	64.8
11:00-12:00 HOUR	61.5	80.4	58.0	64.9
12:00-13:00 HOUR	63.9	85.2	58.8	64.9
13:00-14:00 HOUR	61.2	72.6	57.2	65.0
14:00-15:00 HOUR	59.8	74.0	54.8	65.0
15:00-16:00 HOUR	57.8	72.9	51.9	64.9
16:00-17:00 HOUR	58.3	74.2	53.6	64.9
17:00-18:00 HOUR	61.7	76.9	58.8	64.9
18:00-19:00 HOUR	62.4	96.4	58.8	65.0
19:00-20:00 HOUR	60.5	76.4	57.9	65.0
20:00-21:00 HOUR	60.1	76.7	57.2	65.0
21:00-22:00 HOUR	60.0	69.3	56.7	65.1
22:00-23:00 HOUR	59.1	75.2	56.1	65.2
23:00-00:00 HOUR	58.9	75.8	55.6	65.3
00:00-01:00 HOUR	60.2	76.4	56.4	65.5
01:00-02:00 HOUR	59.1	69.8	54.4	65.6
02:00-03:00 HOUR	58.2	72.3	53.1	65.6
03:00-04:00 HOUR	58.9	71.3	54.0	65.8
04:00-05:00 HOUR	58.3	76.8	53.0	65.8
05:00-06:00 HOUR	59.0	72.2	53.6	65.9
06:00-07:00 HOUR	59.4	71.7	55.0	65.9
L _{Aeq} 24 hours	60.6			
UNIT	dB(A)			

TIME*	RESULT			
	BAN SAB-BON SCHOOL			
	FEBRUARY 8-9, 2024			
	T24AC762-0014			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A5n}
07:00-08:00 HOUR	61.2	75.7	57.2	65.9
08:00-09:00 HOUR	62.3	78.3	59.1	65.8
09:00-10:00 HOUR	61.5	78.4	58.4	65.8
10:00-11:00 HOUR	62.1	72.9	59.5	65.8
11:00-12:00 HOUR	61.0	73.7	58.2	65.8
12:00-13:00 HOUR	61.7	80.8	58.9	65.8
13:00-14:00 HOUR	61.0	72.4	58.4	65.8
14:00-15:00 HOUR	59.8	69.7	57.3	65.8
15:00-16:00 HOUR	60.1	71.9	57.4	65.8
16:00-17:00 HOUR	57.7	74.9	54.6	65.8
17:00-18:00 HOUR	60.0	76.2	57.0	65.8
18:00-19:00 HOUR	61.3	73.4	58.6	65.8
19:00-20:00 HOUR	60.2	75.1	57.2	65.8
20:00-21:00 HOUR	60.3	71.3	57.0	65.8
21:00-22:00 HOUR	60.8	80.1	57.4	65.8
22:00-23:00 HOUR	60.8	77.3	56.7	66.0
23:00-00:00 HOUR	60.5	72.3	56.5	66.1
00:00-01:00 HOUR	59.5	79.6	54.8	66.0
01:00-02:00 HOUR	59.1	76.2	53.1	66.0
02:00-03:00 HOUR	58.4	75.1	52.0	66.0
03:00-04:00 HOUR	57.6	69.3	51.6	66.0
04:00-05:00 HOUR	57.5	71.9	52.2	65.9
05:00-06:00 HOUR	57.1	72.3	51.4	65.8
06:00-07:00 HOUR	58.6	69.2	53.8	65.7
L _{Aeq} 24 hours	60.2			
UNIT	dB(A)			

ตำแหน่งพิกัดของสถานีตรวจวัด : 14.636444, 101.112537
ตำแหน่งพิกัด UTM ของสถานี : 727538E, 1619176N

ANALYSIS REPORT

CUSTOMER NAME : TPI POLENE POWER PUBLIC COMPANY LIMITED
ADDRESS : 299 MOO 5 MITRAPARP ROAD MITTRAPHAP TABKWANG KAENGKOI SARABURI 18260
CONTACT INFORMATION : TEL : 081 398 5957 e-mail : chod.padmuk@gmail.com
MEASURING PLACE : SAB-BON TEMPLE
MEASURING TYPE : AMBIENT (NOISE)
MEASURING DATE : FEBRUARY 2-9, 2024
MEASURING TIME : *
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER
MEASURED BY : MR PAIRAT KUMNERDRAKSA
RECEIVED DATE : FEBRUARY 2-9, 2024
ANALYTICAL DATE : FEBRUARY 2-9, 2024
REPORT NO. : 2024-U013103
WORK NO. : 2023-010647
ANALYSIS NO. : T24AC762-0015 - T24AC762-0021

TIME*	RESULT			
	SAB-BON TEMPLE			
	FEBRUARY 2-3, 2024			
	T24AC762-0015			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A5n}
07:00-08:00 HOUR	63.8	92.2	57.0	-
08:00-09:00 HOUR	64.5	84.8	58.6	-
09:00-10:00 HOUR	65.1	85.1	56.4	-
10:00-11:00 HOUR	65.1	81.4	59.2	-
11:00-12:00 HOUR	64.7	79.5	59.1	-
12:00-13:00 HOUR	61.8	77.8	59.6	-
13:00-14:00 HOUR	66.0	87.6	59.7	-
14:00-15:00 HOUR	64.0	93.8	58.9	-
15:00-16:00 HOUR	63.4	90.0	59.1	-
16:00-17:00 HOUR	61.7	86.5	59.3	-
17:00-18:00 HOUR	60.3	80.5	58.4	-
18:00-19:00 HOUR	60.1	74.1	58.0	-
19:00-20:00 HOUR	59.8	76.6	57.6	-
20:00-21:00 HOUR	60.2	75.5	57.7	-
21:00-22:00 HOUR	60.2	72.3	58.0	-
22:00-23:00 HOUR	58.5	68.8	56.3	-
23:00-00:00 HOUR	59.5	73.9	57.0	-
00:00-01:00 HOUR	59.3	80.4	56.9	-
01:00-02:00 HOUR	58.3	72.7	55.8	-
02:00-03:00 HOUR	57.4	74.5	55.0	-
03:00-04:00 HOUR	58.8	75.1	55.8	-
04:00-05:00 HOUR	60.0	75.8	56.6	-
05:00-06:00 HOUR	61.3	87.3	56.4	-
06:00-07:00 HOUR	64.9	92.5	56.2	67.4
L _{Aeq} 24 hours	62.4			
UNIT	dB(A)			

TIME*	RESULT			
	SAB-BON TEMPLE			
	FEBRUARY 3-4, 2024			
	T24AC762-0016			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A01}
07:00-08:00 HOUR	61.0	85.0	57.9	67.3
08:00-09:00 HOUR	65.3	88.1	58.5	67.3
09:00-10:00 HOUR	65.9	88.8	58.3	67.4
10:00-11:00 HOUR	67.0	86.4	60.1	67.4
11:00-12:00 HOUR	61.7	72.9	59.9	67.4
12:00-13:00 HOUR	61.2	75.7	59.1	67.4
13:00-14:00 HOUR	65.5	75.8	58.3	67.3
14:00-15:00 HOUR	64.7	83.6	57.7	67.4
15:00-16:00 HOUR	64.3	87.6	58.5	67.4
16:00-17:00 HOUR	65.2	87.5	57.7	67.4
17:00-18:00 HOUR	62.1	84.9	58.8	67.5
18:00-19:00 HOUR	61.3	84.6	58.3	67.5
19:00-20:00 HOUR	60.3	80.1	57.8	67.5
20:00-21:00 HOUR	61.5	76.7	59.2	67.5
21:00-22:00 HOUR	58.3	71.6	55.9	67.5
22:00-23:00 HOUR	59.4	81.4	56.8	67.5
23:00-00:00 HOUR	58.2	84.8	55.0	67.5
00:00-01:00 HOUR	58.9	77.6	55.4	67.4
01:00-02:00 HOUR	58.8	72.5	55.7	67.5
02:00-03:00 HOUR	59.0	74.6	56.5	67.5
03:00-04:00 HOUR	60.9	83.0	57.9	67.7
04:00-05:00 HOUR	68.6	95.3	55.8	69.3
05:00-06:00 HOUR	63.8	84.2	58.1	69.5
06:00-07:00 HOUR	59.8	84.8	56.1	69.0
L _{Aeq} 24 hours	63.2			
UNIT	dB(A)			

TIME*	RESULT			
	SAB-BON TEMPLE			
	FEBRUARY 4-5, 2024			
	T24AC762-0017			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A01}
07:00-08:00 HOUR	62.2	85.6	57.3	69.0
08:00-09:00 HOUR	64.2	93.4	57.3	69.0
09:00-10:00 HOUR	60.5	85.2	56.7	69.0
10:00-11:00 HOUR	63.4	84.8	57.4	68.9
11:00-12:00 HOUR	59.5	81.1	56.9	68.9
12:00-13:00 HOUR	61.3	70.0	59.3	68.9
13:00-14:00 HOUR	61.3	86.7	58.6	68.8
14:00-15:00 HOUR	60.5	71.3	58.5	68.8
15:00-16:00 HOUR	61.1	74.7	59.1	68.8
16:00-17:00 HOUR	65.7	94.3	59.8	68.8
17:00-18:00 HOUR	62.6	71.5	60.7	68.8
18:00-19:00 HOUR	62.2	73.5	60.4	68.8
19:00-20:00 HOUR	61.4	74.0	59.8	68.8
20:00-21:00 HOUR	61.8	79.7	58.8	68.8
21:00-22:00 HOUR	58.8	83.9	56.0	68.8
22:00-23:00 HOUR	58.6	71.6	56.1	68.8
23:00-00:00 HOUR	60.7	75.4	59.0	68.9
00:00-01:00 HOUR	60.5	71.3	58.9	69.0
01:00-02:00 HOUR	58.4	79.8	55.6	68.9
02:00-03:00 HOUR	60.2	74.8	58.1	69.0
03:00-04:00 HOUR	61.4	76.1	58.9	69.0
04:00-05:00 HOUR	67.5	92.6	56.9	68.7
05:00-06:00 HOUR	63.6	91.9	56.2	68.6
06:00-07:00 HOUR	60.7	77.5	56.5	68.7
L _{Aeq} 24 hours	62.2			
UNIT	dB(A)			

TIME*	RESULT			
	SAB-BON TEMPLE			
	FEBRUARY 5-6, 2024			
	T24AC762-0018			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A01}
07:00-08:00 HOUR	61.3	81.0	57.9	68.7
08:00-09:00 HOUR	61.9	80.6	58.1	68.7
09:00-10:00 HOUR	63.2	88.6	58.2	68.7
10:00-11:00 HOUR	70.1	84.5	60.1	68.9
11:00-12:00 HOUR	65.6	84.6	59.3	68.9
12:00-13:00 HOUR	66.0	79.2	60.2	69.0
13:00-14:00 HOUR	65.0	88.6	59.8	69.0
14:00-15:00 HOUR	67.5	92.2	59.4	69.1
15:00-16:00 HOUR	63.6	84.3	60.3	69.2
16:00-17:00 HOUR	62.1	84.7	59.1	69.1
17:00-18:00 HOUR	62.9	80.8	60.1	69.1
18:00-19:00 HOUR	59.6	71.9	57.3	69.1
19:00-20:00 HOUR	58.6	78.1	55.8	69.1
20:00-21:00 HOUR	57.8	67.6	55.5	69.1
21:00-22:00 HOUR	58.7	73.2	55.9	69.1
22:00-23:00 HOUR	58.2	74.6	55.6	69.1
23:00-00:00 HOUR	58.0	72.6	55.4	68.9
00:00-01:00 HOUR	57.5	78.5	54.8	68.8
01:00-02:00 HOUR	57.3	76.7	54.0	68.8
02:00-03:00 HOUR	62.0	78.1	55.5	68.9
03:00-04:00 HOUR	61.8	83.4	56.3	68.9
04:00-05:00 HOUR	64.4	90.7	55.8	68.2
05:00-06:00 HOUR	60.7	81.2	56.3	67.9
06:00-07:00 HOUR	62.5	81.6	58.6	68.0
L _{Aeq} 24 hours	63.3			
UNIT	dB(A)			

TIME*	RESULT			
	SAB-BON TEMPLE			
	FEBRUARY 6-7, 2024			
	T24AC762-0019			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A01}
07:00-08:00 HOUR	64.5	82.6	59.9	68.1
08:00-09:00 HOUR	63.1	89.2	57.4	68.1
09:00-10:00 HOUR	59.7	81.8	57.5	68.1
10:00-11:00 HOUR	60.5	71.4	58.8	67.8
11:00-12:00 HOUR	62.4	84.8	59.0	67.7
12:00-13:00 HOUR	60.8	77.4	58.0	67.7
13:00-14:00 HOUR	63.5	84.5	59.5	67.6
14:00-15:00 HOUR	62.0	84.0	58.8	67.5
15:00-16:00 HOUR	60.5	82.7	57.7	67.5
16:00-17:00 HOUR	59.4	72.9	56.9	67.4
17:00-18:00 HOUR	61.0	69.2	57.9	67.4
18:00-19:00 HOUR	62.4	81.5	60.0	67.4
19:00-20:00 HOUR	66.3	81.9	59.4	67.6
20:00-21:00 HOUR	66.1	71.7	64.0	67.7
21:00-22:00 HOUR	66.7	76.8	64.0	67.8
22:00-23:00 HOUR	61.7	71.5	56.6	68.0
23:00-00:00 HOUR	58.1	81.7	54.9	68.0
00:00-01:00 HOUR	60.5	75.0	57.7	68.2
01:00-02:00 HOUR	60.1	73.7	57.2	68.3
02:00-03:00 HOUR	58.7	80.6	54.8	68.1
03:00-04:00 HOUR	66.3	89.0	57.9	68.8
04:00-05:00 HOUR	63.2	84.4	57.7	68.6
05:00-06:00 HOUR	60.7	84.7	57.5	68.6
06:00-07:00 HOUR	68.3	81.5	58.9	69.7
L _{Aeq} 24 hours	63.3			
UNIT	dB(A)			

TIME*	RESULT				
	SAB-BON TEMPLE				
	FEBRUARY 7-8, 2024				
	T24AC762-0020				
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A50}	
07:00-08:00 HOUR	62.2	84.3	56.6	69.7	
08:00-09:00 HOUR	62.6	79.7	58.8	69.7	
09:00-10:00 HOUR	60.6	84.1	58.2	69.7	
10:00-11:00 HOUR	60.2	80.7	58.1	69.7	
11:00-12:00 HOUR	61.2	86.3	57.6	69.7	
12:00-13:00 HOUR	62.5	82.2	59.0	69.7	
13:00-14:00 HOUR	66.6	86.0	60.1	69.7	
14:00-15:00 HOUR	62.7	88.2	59.8	69.7	
15:00-16:00 HOUR	62.2	81.0	60.2	69.8	
16:00-17:00 HOUR	59.2	78.2	56.8	69.8	
17:00-18:00 HOUR	59.8	74.2	57.6	69.8	
18:00-19:00 HOUR	59.8	69.9	57.7	69.7	
19:00-20:00 HOUR	60.3	74.1	58.4	69.7	
20:00-21:00 HOUR	59.8	74.5	57.5	69.6	
21:00-22:00 HOUR	58.9	77.2	56.4	69.5	
22:00-23:00 HOUR	56.1	75.9	53.5	69.3	
23:00-00:00 HOUR	57.7	79.8	55.1	69.3	
00:00-01:00 HOUR	58.4	67.6	56.0	69.2	
01:00-02:00 HOUR	57.8	75.8	54.8	69.1	
02:00-03:00 HOUR	61.5	83.7	57.5	69.3	
03:00-04:00 HOUR	61.4	86.4	57.2	68.6	
04:00-05:00 HOUR	64.6	89.1	57.5	68.8	
05:00-06:00 HOUR	62.9	91.3	56.1	69.0	
06:00-07:00 HOUR	64.4	84.7	58.5	67.9	
L _{Aeq} 24 hours	61.6				
UNIT	dB(A)				



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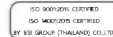
2024-U013103

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TIME*	RESULT				
	SAB-BON TEMPLE				
	FEBRUARY 8-9, 2024				
	T24AC762-0021				
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A50}	
07:00-08:00 HOUR	66.3	86.3	57.6	68.0	
08:00-09:00 HOUR	64.8	81.1	58.9	68.0	
09:00-10:00 HOUR	63.9	78.7	58.3	68.1	
10:00-11:00 HOUR	60.9	76.9	58.7	68.1	
11:00-12:00 HOUR	64.8	86.4	58.5	68.1	
12:00-13:00 HOUR	64.0	93.8	58.9	68.2	
13:00-14:00 HOUR	63.6	90.2	59.3	68.1	
14:00-15:00 HOUR	60.8	85.6	58.4	68.1	
15:00-16:00 HOUR	60.5	80.7	58.6	68.1	
16:00-17:00 HOUR	59.2	73.2	57.1	68.1	
17:00-18:00 HOUR	60.3	77.1	58.1	68.1	
18:00-19:00 HOUR	59.4	74.7	56.9	68.1	
19:00-20:00 HOUR	60.3	72.4	58.1	68.1	
20:00-21:00 HOUR	58.5	68.8	56.3	68.1	
21:00-22:00 HOUR	58.7	73.1	56.2	68.0	
22:00-23:00 HOUR	58.5	79.6	56.1	68.1	
23:00-00:00 HOUR	57.8	72.2	55.3	68.1	
00:00-01:00 HOUR	56.9	74.0	54.5	68.1	
01:00-02:00 HOUR	59.4	68.8	55.6	68.2	
02:00-03:00 HOUR	58.7	70.7	56.6	68.0	
03:00-04:00 HOUR	61.1	74.7	57.2	67.9	
04:00-05:00 HOUR	62.7	74.4	58.6	67.6	
05:00-06:00 HOUR	66.5	82.1	61.9	68.3	
06:00-07:00 HOUR	62.7	86.3	57.8	68.1	
L _{Aeq} 24 hours	62.1				
UNIT	dB(A)				

ตำแหน่งพิกัดของสถานีตรวจวัด : 14.635760, 101.125087

ตำแหน่งพิกัด UTM ของสถานี : 728891E, 1619113N



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ANALYSIS REPORT

CUSTOMER NAME : TPI POLENE POWER PUBLIC COMPANY LIMITED
ADDRESS : 299 MOO 5 MITRAFARP ROAD MITTRAHAP TABKWANG KAENGKOI SARABURI 18260
CONTACT INFORMATION : TEL : 081 398 5957 e-mail : chod.padmuk@gmail.com
MEASURING PLACE : BAN ANG HIN
MEASURING TYPE : AMBIENT (NOISE)
MEASURING DATE : FEBRUARY 2-9, 2024
MEASURING TIME : *
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER
MEASURED BY : MR PAIRAT KUMNERDRAKSA
RECEIVED DATE : FEBRUARY 2-9, 2024
ANALYTICAL DATE : FEBRUARY 2-9, 2024
REPORT NO. : 2024-U013104
WORK NO. : 2023-010647
ANALYSIS NO. : T24AC762-0022 - T24AC762-0028

TIME*	RESULT				
	BAN ANG HIN				
	FEBRUARY 2-3, 2024				
	T24AC762-0022				
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A50}	
07:00-08:00 HOUR	52.4	72.8	46.0	-	
08:00-09:00 HOUR	55.7	81.0	45.4	-	
09:00-10:00 HOUR	57.5	78.8	47.4	-	
10:00-11:00 HOUR	61.6	85.6	50.4	-	
11:00-12:00 HOUR	60.0	84.8	48.3	-	
12:00-13:00 HOUR	61.9	88.6	50.3	-	
13:00-14:00 HOUR	57.9	78.4	48.5	-	
14:00-15:00 HOUR	59.9	80.1	48.2	-	
15:00-16:00 HOUR	55.5	82.8	45.6	-	
16:00-17:00 HOUR	53.5	75.6	46.7	-	
17:00-18:00 HOUR	59.6	84.1	48.2	-	
18:00-19:00 HOUR	59.5	78.1	50.9	-	
19:00-20:00 HOUR	59.3	84.6	48.4	-	
20:00-21:00 HOUR	60.6	81.5	51.4	-	
21:00-22:00 HOUR	53.0	71.1	41.7	-	
22:00-23:00 HOUR	57.0	76.0	53.1	-	
23:00-00:00 HOUR	51.8	66.7	50.0	-	
00:00-01:00 HOUR	53.7	72.8	51.8	-	
01:00-02:00 HOUR	53.6	69.4	51.4	-	
02:00-03:00 HOUR	52.7	65.7	51.1	-	
03:00-04:00 HOUR	51.6	74.5	48.9	-	
04:00-05:00 HOUR	51.9	69.3	50.0	-	
05:00-06:00 HOUR	48.9	64.2	47.4	-	
06:00-07:00 HOUR	51.1	76.0	46.5	60.9	
L _{Aeq} 24 hours	57.4				
UNIT	dB(A)				



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TIME*	RESULT				
	BAN ANG HIN				
	FEBRUARY 3-4, 2024				
	T24AC762-0023				
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A50}	
07:00-08:00 HOUR	53.0	73.4	46.6	60.9	
08:00-09:00 HOUR	56.0	81.3	45.7	60.9	
09:00-10:00 HOUR	57.2	78.5	47.1	60.9	
10:00-11:00 HOUR	59.9	83.9	48.7	60.8	
11:00-12:00 HOUR	61.8	86.6	50.1	60.9	
12:00-13:00 HOUR	61.8	88.5	50.2	60.9	
13:00-14:00 HOUR	57.8	78.3	48.4	60.9	
14:00-15:00 HOUR	59.9	80.1	48.2	60.9	
15:00-16:00 HOUR	56.8	84.1	46.9	60.9	
16:00-17:00 HOUR	55.5	77.6	48.7	60.9	
17:00-18:00 HOUR	59.0	83.5	47.6	60.9	
18:00-19:00 HOUR	57.8	76.4	49.2	60.9	
19:00-20:00 HOUR	60.6	85.9	49.7	60.9	
20:00-21:00 HOUR	60.7	81.6	51.5	60.9	
21:00-22:00 HOUR	51.9	70.0	40.6	60.9	
22:00-23:00 HOUR	56.2	75.2	52.3	60.8	
23:00-00:00 HOUR	51.8	66.7	50.0	60.8	
00:00-01:00 HOUR	53.8	72.9	51.9	60.8	
01:00-02:00 HOUR	53.6	69.4	51.4	60.8	
02:00-03:00 HOUR	54.0	67.0	52.4	60.9	
03:00-04:00 HOUR	53.3	76.2	50.6	61.0	
04:00-05:00 HOUR	51.1	68.5	49.2	60.9	
05:00-06:00 HOUR	50.9	66.2	49.4	61.0	
06:00-07:00 HOUR	52.2	77.1	47.6	61.1	
L _{Aeq} 24 hours	57.4				
UNIT	dB(A)				



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TIME*	RESULT			
	BAN ANG HIN			
	FEBRUARY 4-5, 2024			
	T24AC762-0024			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A10}
07:00-08:00 HOUR	52.6	73.0	46.2	61.1
08:00-09:00 HOUR	56.4	81.7	46.1	61.1
09:00-10:00 HOUR	60.4	81.7	50.3	61.1
10:00-11:00 HOUR	61.2	85.2	50.0	61.2
11:00-12:00 HOUR	60.3	85.1	48.6	61.1
12:00-13:00 HOUR	60.2	86.9	48.6	61.1
13:00-14:00 HOUR	58.5	79.0	49.1	61.1
14:00-15:00 HOUR	60.2	80.4	48.5	61.1
15:00-16:00 HOUR	55.9	83.2	46.0	61.1
16:00-17:00 HOUR	56.8	78.9	50.0	61.1
17:00-18:00 HOUR	59.1	83.6	47.7	61.1
18:00-19:00 HOUR	57.2	75.8	48.6	61.1
19:00-20:00 HOUR	62.1	87.4	51.2	61.2
20:00-21:00 HOUR	60.8	81.7	51.6	61.2
21:00-22:00 HOUR	54.9	73.0	43.6	61.2
22:00-23:00 HOUR	59.9	78.9	56.0	61.9
23:00-00:00 HOUR	53.0	67.9	51.2	61.9
00:00-01:00 HOUR	53.7	72.8	51.8	61.9
01:00-02:00 HOUR	53.9	69.7	51.7	62.0
02:00-03:00 HOUR	52.4	65.4	50.8	61.9
03:00-04:00 HOUR	51.1	74.0	48.4	61.8
04:00-05:00 HOUR	49.4	66.8	47.5	61.7
05:00-06:00 HOUR	50.7	66.0	49.2	61.7
06:00-07:00 HOUR	52.6	77.5	48.0	61.7
L _{Aeq} 24 hours	57.8			
UNIT	dB(A)			

TIME*	RESULT			
	BAN ANG HIN			
	FEBRUARY 5-6, 2024			
	T24AC762-0025			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A10}
07:00-08:00 HOUR	54.6	75.0	48.2	61.7
08:00-09:00 HOUR	56.5	81.8	46.2	61.7
09:00-10:00 HOUR	57.9	79.2	47.8	61.7
10:00-11:00 HOUR	59.1	83.1	47.9	61.6
11:00-12:00 HOUR	60.0	84.8	48.3	61.6
12:00-13:00 HOUR	59.8	86.5	48.2	61.6
13:00-14:00 HOUR	57.4	77.9	48.0	61.6
14:00-15:00 HOUR	60.9	81.1	49.2	61.6
15:00-16:00 HOUR	59.3	86.6	49.4	61.7
16:00-17:00 HOUR	57.2	79.3	50.4	61.7
17:00-18:00 HOUR	59.2	83.7	47.8	61.7
18:00-19:00 HOUR	57.2	75.8	48.6	61.7
19:00-20:00 HOUR	59.5	84.8	48.6	61.6
20:00-21:00 HOUR	60.8	81.7	51.6	61.6
21:00-22:00 HOUR	53.6	71.7	42.3	61.6
22:00-23:00 HOUR	57.8	76.8	53.9	61.1
23:00-00:00 HOUR	52.6	67.5	50.8	61.0
00:00-01:00 HOUR	52.0	71.1	50.1	60.9
01:00-02:00 HOUR	55.6	71.4	53.4	61.1
02:00-03:00 HOUR	50.6	63.6	49.0	61.0
03:00-04:00 HOUR	50.9	73.8	48.2	61.0
04:00-05:00 HOUR	50.1	67.5	48.2	61.0
05:00-06:00 HOUR	49.8	65.1	48.3	61.0
06:00-07:00 HOUR	52.0	76.9	47.4	61.0
L _{Aeq} 24 hours	57.3			
UNIT	dB(A)			

TIME*	RESULT			
	BAN ANG HIN			
	FEBRUARY 6-7, 2024			
	T24AC762-0026			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A10}
07:00-08:00 HOUR	53.8	74.2	47.4	61.0
08:00-09:00 HOUR	54.3	79.6	44.0	60.9
09:00-10:00 HOUR	58.2	79.5	48.1	60.9
10:00-11:00 HOUR	60.7	84.7	49.5	61.0
11:00-12:00 HOUR	60.1	84.9	48.4	61.0
12:00-13:00 HOUR	61.6	88.3	50.0	61.1
13:00-14:00 HOUR	58.1	78.6	48.7	61.1
14:00-15:00 HOUR	60.4	80.6	48.7	61.1
15:00-16:00 HOUR	55.6	82.9	45.7	61.0
16:00-17:00 HOUR	55.4	77.5	48.6	61.0
17:00-18:00 HOUR	60.4	84.9	49.0	61.0
18:00-19:00 HOUR	56.8	75.4	48.2	61.0
19:00-20:00 HOUR	58.0	83.3	47.1	61.0
20:00-21:00 HOUR	61.0	81.9	51.8	61.0
21:00-22:00 HOUR	52.2	70.3	40.9	61.0
22:00-23:00 HOUR	56.3	75.3	52.4	60.7
23:00-00:00 HOUR	53.1	68.0	51.3	60.7
00:00-01:00 HOUR	56.0	75.1	54.1	61.1
01:00-02:00 HOUR	55.8	71.6	53.6	61.1
02:00-03:00 HOUR	54.3	67.3	52.7	61.3
03:00-04:00 HOUR	53.1	76.0	50.4	61.4
04:00-05:00 HOUR	51.9	69.3	50.0	61.5
05:00-06:00 HOUR	51.6	66.9	50.1	61.6
06:00-07:00 HOUR	51.5	76.4	46.9	61.5
L _{Aeq} 24 hours	57.4			
UNIT	dB(A)			

TIME*	RESULT			
	BAN ANG HIN			
	FEBRUARY 7-8, 2024			
	T24AC762-0027			
	L _{Aeq} 1 hour	L _{Amax}	L _{A90}	L _{A10}
07:00-08:00 HOUR	52.4	72.8	46.0	61.5
08:00-09:00 HOUR	56.4	81.7	46.1	61.5
09:00-10:00 HOUR	55.5	76.8	45.4	61.5
10:00-11:00 HOUR	62.4	86.4	51.2	61.6
11:00-12:00 HOUR	58.6	83.4	46.9	61.5
12:00-13:00 HOUR	59.4	86.1	47.8	61.5
13:00-14:00 HOUR	57.2	77.7	47.8	61.5
14:00-15:00 HOUR	59.9	80.1	48.2	61.4
15:00-16:00 HOUR	55.1	82.4	45.2	61.4
16:00-17:00 HOUR	55.4	77.5	48.6	61.4
17:00-18:00 HOUR	60.7	85.2	49.3	61.4
18:00-19:00 HOUR	57.1	75.7	48.5	61.4
19:00-20:00 HOUR	58.5	83.8	47.6	61.5
20:00-21:00 HOUR	57.7	78.6	48.5	61.4
21:00-22:00 HOUR	53.3	71.4	42.0	61.4
22:00-23:00 HOUR	57.2	76.2	53.3	61.5
23:00-00:00 HOUR	49.6	64.5	47.8	61.4
00:00-01:00 HOUR	51.7	70.8	49.8	61.0
01:00-02:00 HOUR	55.3	71.1	53.1	60.9
02:00-03:00 HOUR	54.1	67.1	52.5	60.9
03:00-04:00 HOUR	50.0	72.9	47.3	60.8
04:00-05:00 HOUR	49.7	67.1	47.8	60.7
05:00-06:00 HOUR	48.9	64.2	47.4	60.6
06:00-07:00 HOUR	50.9	75.8	46.3	60.5
L _{Aeq} 24 hours	56.8			
UNIT	dB(A)			

TIME*	RESULT			
	BAN ANG HIN			
	FEBRUARY 8-9, 2024			
	T24AC762-0028			
	L _{avg} 1 hour	L _{max}	L ₉₀	L _{dén}
07:00-08:00 HOUR	53.2	73.6	46.8	60.6
08:00-09:00 HOUR	55.6	80.9	45.3	60.5
09:00-10:00 HOUR	57.3	78.6	47.2	60.6
10:00-11:00 HOUR	59.7	83.7	48.5	60.4
11:00-12:00 HOUR	60.4	85.2	48.7	60.5
12:00-13:00 HOUR	61.8	88.5	50.2	60.6
13:00-14:00 HOUR	59.2	79.7	49.8	60.7
14:00-15:00 HOUR	60.3	80.5	48.6	60.7
15:00-16:00 HOUR	56.4	83.7	46.5	60.7
16:00-17:00 HOUR	57.2	79.3	50.4	60.7
17:00-18:00 HOUR	62.0	86.5	50.6	60.8
18:00-19:00 HOUR	57.6	76.2	49.0	60.8
19:00-20:00 HOUR	59.4	84.7	48.5	60.8
20:00-21:00 HOUR	61.4	82.3	52.2	60.9
21:00-22:00 HOUR	53.5	71.6	42.2	60.9
22:00-23:00 HOUR	55.0	74.0	51.1	60.6
23:00-00:00 HOUR	52.1	67.0	50.3	60.7
00:00-01:00 HOUR	51.1	70.2	49.2	60.7
01:00-02:00 HOUR	53.9	69.7	51.7	60.5
02:00-03:00 HOUR	53.4	66.4	51.8	60.5
03:00-04:00 HOUR	49.4	72.3	46.7	60.5
04:00-05:00 HOUR	50.4	67.8	48.5	60.5
05:00-06:00 HOUR	50.8	66.1	49.3	60.6
06:00-07:00 HOUR	51.7	76.6	47.1	60.6
L _{avg} 24 hours	57.6			
UNIT	dB(A)			

ตำแหน่งติดตั้งของสถานีตรวจวัด : 14.642456, 101.146795
ตำแหน่งพิกัด UTM ของสถานี : 731223E, 1619876N



MR SILA BANJONGJAIKUK
LABORATORY SUPERVISOR
FEBRUARY 16, 2024



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ภาคผนวก ข-5

ผลการติดตามตรวจสอบคุณภาพน้ำผิวดินและน้ำทิ้ง

ANALYSIS REPORT

CUSTOMER NAME	: TPI POLENE PUBLIC COMPANY LIMITED			RECEIVED DATE	: FEBRUARY 20, 2024
ADDRESS	: 299 MOO 5 MITRAPARP ROAD MITTRAPHAP TABKWANG KAENGKOE SARABURI 18260			ANALYTICAL DATE	: FEBRUARY 20 - MARCH 1, 2024
CONTACT INFORMATION	: TEL : 06 4294 9161 e-mail : chod.padmuk@gmail.com			ISSUE DATE	: MARCH 8, 2024
SAMPLING SOURCE	: POWER PLANT AREA			REPORT NO.	: 2024-U019845
SAMPLE TYPE	: SURFACE WATER			WORK NO.	: 2023-010273
SAMPLING DATE	: FEBRUARY 20, 2024			ANALYSIS NO.	: T24AD525-0002
SAMPLING TIME	: 11:10 HOUR				
SAMPLING METHOD °	: GRAB, GRAB AND STERILE TECHNIQUE				
SAMPLING BY °	: MR. ACHITA SAENGJIAN				
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM				

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT SURFACE WATER T24AD525-0002	REGULATORY STANDARD	DETECTION LIMIT
pH *	-	ELECTROMETRIC METHOD (AT SITE) SM. PART 4500-H+ B AND 1060 B	7.8 (29°C)	5.0-9.0	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM. PART 2550 B)	29	n ^a	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM. PART 2510 B)	1,246 (29°C)	-	0.1
ODOUR °	-	OBSERVATION METHOD	NONE	n	-
DISSOLVED OXYGEN °	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM. PART 4500-O C)	3.9	≥ 2.0	0.5
COLOUR °	Pt-Co	VISUAL COMPARISON METHOD (SM. PART 2120 B)	10	n	5
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM. PART 2520 B)	0.7	-	0.1
TURBIDITY °	NTU	NEPHELOMETRIC METHOD (SM. PART 2130 B)	18	-	0.1
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM. PART 5210 B AND PART 4500-C C)	2.5	≤ 4.0	1.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLEX, COLOURIMETRIC METHOD (SM. PART 5220 D)	29.8	-	25.0
TOTAL HARDNESS *	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM. PART 2340 C)	120	-	4.0
CYANIDE AS HCN °	mg/L HCN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM. PART 4500-CN C AND PART 4500-CN E)	ND	-	0.001
FORMALDEHYDE °	mg/L	DISTILLATION AND COLOURIMETRIC METHOD	ND	-	0.05
FREE CHLORINE °	mg/L Cl ₂	DPD FERROUS TITRIMETRIC METHOD (SM. PART 4500-Cl F)	ND	-	0.1
HYDROGEN SULPHIDE °	mg/L H ₂ S	METHYLENE BLUE METHOD (SM. PART 4500-S ² D)	ND	-	0.02
PHOSPHATE °	mg/L PO ₄ ³⁻	ASCOBIC ACID METHOD (SM. PART 4500-P E)	0.03	-	0.03
RESIDUAL CHLORINE °	mg/L Cl ₂	DPD FERROUS TITRIMETRIC METHOD (SM. PART 4500-Cl F)	ND	-	0.1
SULPHATE °	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM. PART 4500-SO ₄ ²⁻ E)	99.5	-	0.3
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE/TP WAS.001 (KJELDAHL METHOD); SM. PART 4500-Norg C	< LOQ	-	1.5



ANALYSIS REPORT

CUSTOMER NAME	: TPI POLENE PUBLIC COMPANY LIMITED			RECEIVED DATE	: FEBRUARY 20, 2024
ADDRESS	: 299 MOO 5 MITRAPARP ROAD MITTRAPHAP TABKWANG KAENGKOE SARABURI 18260			ANALYTICAL DATE	: FEBRUARY 20-27, 2024
CONTACT INFORMATION	: TEL : 06 4294 9161 e-mail : chod.padmuk@gmail.com			ISSUE DATE	: MARCH 8, 2024
SAMPLING SOURCE	: POWER PLANT AREA			REPORT NO.	: 2024-U019875
SAMPLE TYPE	: SURFACE WATER			WORK NO.	: 2023-010273
SAMPLING DATE	: FEBRUARY 20, 2024			ANALYSIS NO.	: T24AD525-0002
SAMPLING TIME	: 11:10 HOUR				
SAMPLING METHOD	: GRAB				
SAMPLING BY	: MR. ACHITA SAENGJIAN				
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM				

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT SURFACE WATER T24AD525-0002	REGULATORY STANDARD	DETECTION LIMIT
ORGANOCHLORINE PESTICIDES					
α-BHC	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	≤ 0.02	0.02
β-BHC	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	-	0.02
γ-BHC	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	-	0.02
δ-BHC	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	-	0.02
ALDRIN	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	≤ 0.1	0.02
DIELDRIN	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	≤ 0.1	0.02
ENDOSULFAN I	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	-	0.02
ENDOSULFAN II	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	-	0.04
ENDOSULFAN SULFATE	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	-	0.04
ENDRIN	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	NONE	0.04
ENDRIN ALDEHYDE	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	-	0.04
HEPTACHLOR	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	✓	0.02
HEPTACHLOR EPOXIDE	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM. PART 6630 C)	ND	✓	0.02



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SURFACE WATER T24AD525-0004		
pp-ODD	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM PART 6630 C)	ND	-	0.04
pp-DDE	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM PART 6630 C)	ND	-	0.04
pp-DDT	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM PART 6630 C)	ND	-	0.04
METHOXYCHLOR	µg/L	LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC (ECD) METHOD (SM PART 6630 C)	ND	-	0.20
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID GREEN		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
REGULATORY STANDARD : SURFACE WATER QUALITY STANDARDS CLASS 4, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, NO.8, B.E. 2537 ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT, B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 111, PART 16, DATED FEBRUARY 24, B.E. 2537 (1994).
CLASS 4 : MEDIUM CLEAN FRESH SURFACE WATER RESOURCES USED FOR
(1) CONSUMPTION, BUT PASSING THROUGH AN ORDINARY TREATMENT PROCESS BEFORE USING
(2) INDUSTRY
Y : TOTAL OF HEPTACHLOR AND HEPTACHLOR EPOXIDE FOLLOWS THE STANDARD IS LESS THAN 0.2 µg/L.
ND : NON-DETECTABLE.

Benjawan V.
(MISS BENJAWAN VIRIYOTHA)
LABORATORY SUPERVISOR

MARCH 11, 2024

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2/2 2024-U019875

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SURFACE WATER T24AD525-0004		
METALS					
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM PART 3114 C)	0.0014	≤ 0.01	0.0003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM PART 3030 F AND PART 3120 B)	0.074	-	0.003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM PART 3030 E AND PART 3111 B	ND	≤0.005*, ≤ 0.05**	0.002
HEXAVALENT CHROMIUM °	mg/L Cr ⁶⁺	EXTRACTION AND AIR-ACETYLENE FLAME METHOD (SM PART 3111 C)	ND	≤ 0.05	0.001
COPPER °	mg/L Cu	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM PART 3030 E AND PART 3111 B	< LOQ	≤ 0.1	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM PART 3030 E AND PART 3111 B	0.258	-	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM PART 3030 E AND PART 3111 B	ND	≤ 0.05	0.003
MANGANESE °	mg/L Mn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM PART 3030 E AND PART 3111 B	0.032	≤ 1.0	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM PART 3112 B	ND	≤ 0.002	0.0001
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM PART 3030 E AND PART 3111 B	ND	≤ 0.1	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM PART 3114 C)	ND	-	0.0005
TITANIUM °	mg/L Ti	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM PART 3030 F AND PART 3120 B)	0.008	-	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM PART 3030 E AND PART 3111 B	< LOQ	≤ 1.0	0.003

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2/3 2024-U019876

- End of Analysis Report -

ANALYSIS REPORT

CUSTOMER NAME : TPI POLENE PUBLIC COMPANY LIMITED
ADDRESS : 299 MOO 5 MITRAPAR ROAD MITTRAPHAP TABKWANG KAENGKIOI SARABURI 18260
CONTACT INFORMATION : TEL : 06 4294 9161 e-mail : chod.padmuk@gmail.com
SAMPLING SOURCE : วิสาหกิจชุมชน (วิสาหกิจชุมชน)
SAMPLE TYPE : SURFACE WATER
SAMPLING DATE : FEBRUARY 20, 2024
SAMPLING TIME : 13:45 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR. ACHITTA SAENGJIAN
ANALYZED BY : MISS NAPAPORN KHUNNOKKHOUM

RECEIVED DATE : FEBRUARY 20, 2024
ANALYTICAL DATE : FEBRUARY 20-28, 2024
ISSUE DATE : MARCH 8, 2024
REPORT NO. : 2024-U019876
WORK NO. : 2023-010273
ANALYSIS NO. : T24AD525-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SURFACE WATER T24AD525-0004		
pH *	-	ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H ⁺ B AND 1060 B	8.0 (32°C)	5.0-9.0	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM PART 2560 B)	32	n ^a	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM PART 2510 B)	1,109 (32°C)	-	0.1
TURBIDITY °	NTU	NEPHELOMETRIC METHOD (SM PART 2130 B)	22	-	0.1
DISSOLVED OXYGEN °	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM PART 4500-O C)	4.9	≥ 4.0	0.5
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM PART 2520 B)	0.6	-	0.1
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM PART 5210 B AND PART 4500-O C)	1.4	≤ 2.0	1.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLEX COLOURIMETRIC METHOD (SM PART 5220 D)	ND	-	25.0
TOTAL SUSPENDED SOLIDS *	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540 D)	10.4	-	5.0
TOTAL DISSOLVED SOLIDS *	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM PART 2540 C)	541	-	25
TOTAL HARDNESS *	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM PART 2340 C)	214	-	4.0
NITRATE-NITROGEN °	mg/L NO ₃ -N	CADMIUM REDUCTION METHOD (SM PART 4500-NO ₃ -E)	1.26	≤ 5.0	0.02
PHOSPHATE °	mg/L PO ₄ ³⁻	ASCOBIC ACID METHOD (SM PART 4500-P E)	0.18	-	0.03
RESIDUAL CHLORINE °	mg/L Cl ₂	DPO FERROUS TITRIMETRIC METHOD (SM PART 4500-CL F)	ND	-	0.1
SULPHATE °	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM PART 4500-SO ₄ ²⁻ E)	87.8	-	0.3
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	ND	-	3
SODIUM ADSORPTION RATIO °	-	INDUCTIVELY COUPLED PLASMA (ICP) AND CALCULATION METHOD	2.03	-	-

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			SURFACE WATER T24AD525-0004		
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA ^a	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221 E)	7.8	≤ 4,000	1.8
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221 B)	790	≤ 20,000	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
° : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
° : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED
IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
REGULATORY STANDARD : SURFACE WATER QUALITY STANDARDS CLASS 3, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, NO.8, B.E. 2537 ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT, B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 111, PART 16, DATED FEBRUARY 24, B.E. 2537 (1994).
CLASS 3 : MEDIUM CLEAN FRESH SURFACE WATER RESOURCES USED FOR
(1) CONSUMPTION, BUT PASSING THROUGH AN ORDINARY TREATMENT PROCESS BEFORE USING
(2) AGRICULTURE
n^a : THE TEMPERATURE OF THE WATER MUST NOT BE HIGHER THAN THE NATURAL TEMPERATURE EXCEEDING 3 DEGREES CELSIUS
ND : NON-DETECTABLE.
< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND < 0.025 mg/L, ZINC ≥ 0.003 AND < 0.025 mg/L).

Benjawan V.
(MISS BENJAWAN VIRIYOTHA)
LABORATORY SUPERVISOR

MARCH 11, 2024

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3/3 2024-U019876

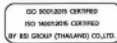
- End of Analysis Report -

ANALYSIS REPORT

CUSTOMER NAME : TP1 POLENE PUBLIC COMPANY LIMITED
ADDRESS : 299 MOO 5 MITRAPARP ROAD MITRAPHAP TABKWANG KAENGKOT SARABURI 18260
CONTACT INFORMATION : TEL : 06 4294 9161 e-mail : chod.padmuk@gmail.com
SAMPLING SOURCE : TRIANGULAR POND AREA
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JANUARY 18, 2024
SAMPLING TIME : 09:50 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR. ACHITA SAENGJIAN
ANALYZED BY : MISS NAPAPORN KHUNNOCKHUM

RECEIVED DATE : JANUARY 18, 2024
ANALYTICAL DATE : JANUARY 18-26, 2024
ISSUE DATE : FEBRUARY 7, 2024
REPORT NO. : 2024-U009576
WORK NO. : 2023-010274
ANALYSIS NO. : T24AB076-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT EFFLUENT T24AB076-0001	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM PART 4500-H ⁺ B)	8.1 (28°C)	5.5-9.0	-
TEMPERATURE ^c	°C	LABORATORY AND FIELD METHODS (SM PART 2550 B)	28	≤ 40	-
ELECTRICAL CONDUCTIVITY ^c	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM PART 2510 B)	967 (28°C)	-	0.1
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM PART 4500-O ₂ G)	3.6	-	0.5
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM PART 2520 B)	0.5	-	0.1
TURBIDITY ^c	NTU	NEPHELOMETRIC METHOD (SM PART 2100 B)	29	-	0.1
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O ₂ G)	2.5	≤ 20	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLEX, COLOURIMETRIC METHOD (SM PART 5220 D)	31.2	≤ 100	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	DRIED AT 103-105 °C (SM PART 2540 D)	26.2	≤ 50	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	DRIED AT 180 °C (SM PART 2540 C)	574	≤ 3,000	25
TOTAL HARDNESS ^c	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM PART 2340 C)	178	-	4.0
CHLORIDE ^c	mg/L Cl ⁻	ARGENTOMETRIC METHOD (SM PART 4500-Cl ⁻ B)	183	-	2.0
NITRATE-NITROGEN ^c	mg/L NO ₃ -N	CADMIUM REDUCTION METHOD (SM PART 4500-NO ₃ -E)	1.24	-	0.02
PHOSPHATE ^c	mg/L PO ₄ -P	ASCOBIC ACID METHOD (SM PART 4500-P-E)	0.28	-	0.03
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHATE ^c	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM PART 4500-SO ₄ ²⁻ E)	98.1	-	0.3
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	ND	≤ 5	3
SODIUM ADSORPTION RATIO ^c	-	INDUCTIVELY COUPLED PLASMA (ICP) AND CALCULATION METHOD	3.00	-	-



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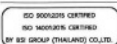


ANALYSIS REPORT

CUSTOMER NAME : TP1 POLENE PUBLIC COMPANY LIMITED
ADDRESS : 299 MOO 5 MITRAPARP ROAD MITRAPHAP TABKWANG KAENGKOT SARABURI 18260
CONTACT INFORMATION : TEL : 06 4294 9161 e-mail : chod.padmuk@gmail.com
SAMPLING SOURCE : TRIANGULAR POND AREA
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 20, 2024
SAMPLING TIME : 09:50 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR. ACHITA SAENGJIAN
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : FEBRUARY 20, 2024
ANALYTICAL DATE : FEBRUARY 20-29, 2024
ISSUE DATE : MARCH 12, 2024
REPORT NO. : 2024-U019716
WORK NO. : 2023-010274
ANALYSIS NO. : T24AD526-0005

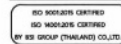
PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT EFFLUENT T24AD526-0005	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM PART 4500-H ⁺ B)	7.2 (29°C)	5.5-9.0	-
TEMPERATURE ^c	°C	LABORATORY AND FIELD METHODS (SM PART 2550 B)	29	≤ 40	-
ELECTRICAL CONDUCTIVITY ^c	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM PART 2510 B)	1,150 (29°C)	-	0.1
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM PART 4500-O ₂ G)	4.2	-	0.5
ODOUR ^c	-	OBSERVATION METHOD	NONE	-	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM PART 2520 B)	0.6	-	0.1
COLOUR (ORIGINAL pH) ^b	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM PART 2120 F)	14	≤ 300	10
COLOUR (pH 7.0) ^b	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM PART 2120 F)	12	≤ 300	10
TURBIDITY ^c	NTU	NEPHELOMETRIC METHOD (SM PART 2100 B)	11	-	0.1
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O ₂ G)	2.1	≤ 20	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLEX, COLOURIMETRIC METHOD (SM PART 5220 D)	ND	≤ 120	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	DRIED AT 103-105 °C (SM PART 2540 D)	16.6	≤ 50	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	DRIED AT 180 °C (SM PART 2540 C)	660	≤ 3,000	25
SULPHIDE ^b	mg/L	ZnS PRECIPITATION, IODOMETRIC METHOD (SM PART 4500-S ²⁻ F)	< 0.50	≤ 1	0.50
PHOSPHATE ^c	mg/L PO ₄ -P	ASCOBIC ACID METHOD (SM PART 4500-P-E)	0.09	-	0.03
TOTAL KJELDAHL NITROGEN ^c	mg/L	DIGESTION, DISTILLATION, TITRIMETRIC METHOD (SM PART 4500-Norg C)	< LOQ	≤ 100	1.5
OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	ND	≤ 5	3
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
TOTAL HARDNESS ^c	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM PART 2340 C)	95	-	4.0



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2024-U009576

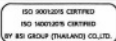
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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AD526-0005		
CYANIDE °	mg/L CN	DISTILLATION, COLOURIMETRIC METHOD (SM PART 4500-CN C AND PART 4500-CN E)	ND	≤ 0.2	0.005
NITRATE-NITROGEN °	mg/L NO ₃ -N	CADMIUM REDUCTION METHOD (SM PART 4500-NO ₃ -E)	0.74	-	0.02
PHENOLS °	mg/L	DISTILLATION, DIRECT PHOTOMETRIC METHOD (SM 5530 B AND 5530 D)	ND	≤ 1	0.100
FORMALDEHYDE °	mg/L	DISTILLATION, COLOURIMETRIC METHOD	ND	≤ 1	0.05
SULPHATE °	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM PART 4500-SO ₄ ²⁻ E)	80.1	-	0.3
CHLORIDE °	mg/L Cl	ARGENTOMETRIC METHOD (SM 4500-Cl B)	261	-	2.0
FREE CHLORINE °	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	≤ 1	0.1
SODIUM ADSORPTION RATIO °	-	INDUCTIVELY COUPLED PLASMA (ICP) AND CALCULATION METHOD	3.15	-	-
METALS					
ARSENIC °	mg/L As	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3114 C)	0.0018	≤ 0.25	0.0003
SELENIUM °	mg/L Se	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3114 C)	ND	≤ 0.02	0.0005
TRIVALENT CHROMIUM °	mg/L Cr ³⁺	DIGESTION, DIRECT AIR-ACETYLENE FLAME; FILTRATION, COLOURIMETRIC METHOD; CALCULATION (SM PART 3030 E, PART 3111 B AND PART 3500-Cr B)	0.015	≤ 0.75	0.007
HEXAVALENT CHROMIUM °	mg/L Cr ⁶⁺	FILTRATION, COLOURIMETRIC METHOD (SM 3500-Cr B)	ND	≤ 0.25	0.006
CADMIUM °	mg/L Cd	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 0.03	0.002
COPPER °	mg/L Cu	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 2.0	0.005
LEAD °	mg/L Pb	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 0.2	0.015
MANGANESE °	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	< LOQ	≤ 5.0	0.004
NICKEL °	mg/L Ni	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 1.0	0.005
ZINC °	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 5.0	0.003
MERCURY °	mg/L Hg	DIGESTION, COLD-VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3112 B)	0.0006	≤ 0.005	0.0005
BARIUM °	mg/L Ba	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	0.087	≤ 1.0	0.005

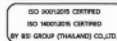


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2024-U019716

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AD526-0005		
SODIUM °	mg/L Na	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	85.3	-	0.010
TITANIUM °	mg/L Ti	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	ND	-	0.010
TOTAL IRON °	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	0.218	-	0.005
MICROBIOLOGY					
COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221 B)	2,400	-	1.8
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221 E)	2,400	-	1.8
ORGANOCHLORINE PESTICIDES					
α-BHC °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
β-BHC °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
γ-BHC °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
δ-BHC °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
ALDRIN °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
DIELDRIN °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
ENDOSULFAN I °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
ENDOSULFAN II °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
ENDOSULFAN SULFATE °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
ENDRIN °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
ENDRIN ALDEHYDE °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
HEPTACHLOR °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
HEPTACHLOR EPOXIDE °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02



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2024-U019716

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AD526-0005		
p.p.DOD °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
p.p.DOE °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
p.p.DOT °	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

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

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

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,

PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 134, PART 153 D, DATED JUNE 7, 2017.

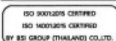
ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN IS ≥ 15 AND < 5.0 mg/L, MANGANESE ≤ 0.004 AND < 0.050 mg/L).

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

MARCH 13, 2024



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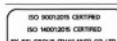
2024-U019716

- End of Analysis Report -

ANALYSIS REPORT

CUSTOMER NAME : TPI POLYMER PUBLIC COMPANY LIMITED
ADDRESS : 299 MOO 5 MITRAPAR ROAD MITRAPAR TAMBON KANGKOL SARABURI 18260
CONTACT INFORMATION : TEL : 06 4294 9161 e-mail : chod.padmuk@gmail.com
SAMPLING SOURCE : TRIANGULAR POND AREA
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MARCH 21, 2024
SAMPLING TIME : 12:10 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR. ACHITA SAENGJIAN
ANALYZED BY : MISS AKSARIN BUNKONG
RECEIVED DATE : MARCH 22, 2024
ANALYTICAL DATE : MARCH 22 - APRIL 4, 2024
ISSUE DATE : APRIL 11, 2024
REPORT NO. : 2024-U030637
WORK NO. : 2023-010274
ANALYSIS NO. : T24AG035-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AG035-0001		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM PART 4500-H ⁺ B)	8.6 (30°C)	5.5-9.0	-
TEMPERATURE °	°C	LABORATORY AND FIELD METHODS (SM PART 2550 B)	30	≤ 40	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM PART 2510 B)	948 (30°C)	-	0.1
DISSOLVED OXYGEN °	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM PART 4500-O ₂ C)	4.8	-	0.5
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM PART 2520 B)	0.5	-	0.1
TURBIDITY °	NTU	NEPHELOMETRIC METHOD (SM PART 2130 B)	25	-	0.1
BIOCHEMICAL OXYGEN DEMAND °	mg/L	5-DAY DOB TEST, MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O ₂ C)	< 2.0	≤ 20	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLEX, COLOURIMETRIC METHOD (SM PART 5220 D)	28.0	≤ 120	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	DRIED AT 103-105 °C (SM PART 2540 D)	25.0	≤ 50	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	DRIED AT 180 °C (SM PART 2540 C)	567	≤ 3,000	25
PHOSPHATE °	mg/L PO ₄ ³⁻	ASCOBIC ACID METHOD (SM PART 4500-P E)	0.18	-	0.03
OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	ND	≤ 5	3
RESIDUAL CHLORINE °	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
TOTAL HARDNESS °	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM PART 2340 C)	179	-	4.0
NITRATE-NITROGEN °	mg/L NO ₃ -N	CADMIUM REDUCTION METHOD (SM PART 4500-NO ₃ -E)	0.48	-	0.02
SULPHATE °	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM PART 4500-SO ₄ ²⁻ E)	67.7	-	0.3
CHLORIDE °	mg/L Cl	ARGENTOMETRIC METHOD (SM 4500-Cl B)	159	-	2.0
SODIUM ADSORPTION RATIO °	-	INDUCTIVELY COUPLED PLASMA (ICP) AND CALCULATION METHOD	2.99	-	-



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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AG035-0001		
METALS					
ARSENIC ^a	mg/L As	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3114 C)	0.0028	≤ 0.25	0.0003
SELENIUM ^a	mg/L Se	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3114 C)	0.0008	≤ 0.02	0.0005
HEXAVALENT CHROMIUM ^c	mg/L Cr ⁶⁺	FILTRATION, COLOURIMETRIC METHOD (SM 3500-Cr B)	ND	≤ 0.25	0.006
CADMIUM ^c	mg/L Cd	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 0.03	0.002
COPPER ^c	mg/L Cu	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	< LOQ	≤ 2.0	0.005
LEAD ^c	mg/L Pb	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 0.2	0.015
MANGANESE ^c	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	< LOQ	≤ 5.0	0.004
NICKEL ^c	mg/L Ni	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 1.0	0.005
ZINC ^c	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	< LOQ	≤ 5.0	0.003
MERCURY ^c	mg/L Hg	DIGESTION, COLD-VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3112 B)	ND	≤ 0.005	0.0005
BARIUM ^c	mg/L Ba	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	0.073	≤ 1.0	0.005
SODIUM ^c	mg/L Na	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	102	-	0.010
TITANIUM ^c	mg/L Ti	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	ND	-	0.010
TOTAL IRON ^c	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	0.140	-	0.005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AG035-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221B)	35,000	-	1.8
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221 E)	35,000	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 134, PART 153 D, DATED JUNE 7, 2017.
ND : NON-DETECTABLE
< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.005 AND < 0.050 mg/L, MANGANESE ≥ 0.004 AND < 0.050 mg/L, ZINC ≥ 0.003 AND < 0.050 mg/L).

Benjawan V.
(MISS BENJAWAN VIRIYOTHAJ)
LABORATORY SUPERVISOR

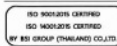
APRIL 17, 2024



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2024-U030637

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ANALYSIS REPORT

CUSTOMER NAME : TPI POLENE PUBLIC COMPANY LIMITED
ADDRESS : 299 MOO 5 MITRAPAP ROAD MITRAPAP TANGKAW KAENGKOT SARABURI 18260
CONTACT INFORMATION : TEL : 06 4294 9161 e-mail : chod.padmuk@gmail.com
SAMPLING SOURCE : TRIANGULAR POND AREA
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : APRIL 23, 2024
SAMPLING TIME : 10:25 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ACHITA SAENGJIAN
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : APRIL 24, 2024
ANALYTICAL DATE : APRIL 24 - MAY 10, 2024
ISSUE DATE : MAY 14, 2024
REPORT NO. : 2024-U040126
WORK NO. : 2023-010274
ANALYSIS NO. : T24A420-0001

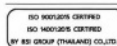
PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24A1420-0001		
pH	-	ELECTROMETRIC METHOD AT SITE (SM PART 4500-H ⁺ B)	8.3 (32°C)	5.5-9.0	-
TEMPERATURE	°C	LABORATORY AND FIELD METHODS (SM PART 2550 B)	32	≤ 40	-
ELECTRICAL CONDUCTIVITY	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM PART 2510 B)	1,159 (32°C)	-	0.1
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM PART 4500-O ₂ G)	5.2	-	0.5
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM PART 2520 B)	0.7	-	0.1
TURBIDITY	NTU	NEPHELOMETRIC METHOD (SM PART 2190 B)	45	-	0.1
BIOCHEMICAL OXYGEN DEMAND	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O ₂ G)	8.0	≤ 20	2.0
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLEX, COLOURIMETRIC METHOD (SM PART 5220 D)	58.9	≤ 120	25.0
TOTAL SUSPENDED SOLIDS	mg/L	DRIED AT 103-105 °C (SM PART 2540 D)	28.0	≤ 50	5.0
TOTAL DISSOLVED SOLIDS	mg/L	DRIED AT 180 °C (SM PART 2540 C)	677	≤ 3,000	25
TOTAL HARDNESS	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM PART 2340 C)	158	-	4.0
CHLORIDE	mg/L Cl ⁻	ARGENTOMETRIC METHOD (SM: 4500-Cl ⁻ B)	253	-	2.0
NITRATE-NITROGEN	mg/L NO ₃ -N	CADMIUM REDUCTION METHOD (SM PART 4500-NO ₃ E)	0.18	-	0.02
PHOSPHATE	mg/L PO ₄ ³⁻	ASCOBIC ACID METHOD (SM PART 4500-P E)	0.03	-	0.03
RESIDUAL CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SULPHATE	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM PART 4500-SO ₄ ²⁻ E)	72.7	-	0.3
OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	ND	≤ 5	3
SODIUM ADSORPTION RATIO	-	INDUCTIVELY COUPLED PLASMA (ICP) AND CALCULATION METHOD	3.00	-	-

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24A1420-0001		
METALS					
ARSENIC	mg/L As	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3114 C)	0.0059	≤ 0.25	0.0003
BARIUM	mg/L Ba	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	0.087	≤ 1.0	0.005
CADMIUM	mg/L Cd	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 0.03	0.002
HEXAVALENT CHROMIUM	mg/L Cr ⁶⁺	FILTRATION, COLOURIMETRIC METHOD (SM 3500-Cr B)	ND	≤ 0.25	0.006
COPPER	mg/L Cu	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 2.0	0.005
LEAD	mg/L Pb	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 0.2	0.015
MANGANESE	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	0.066	≤ 5.0	0.004
MERCURY	mg/L Hg	DIGESTION, COLD-VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3112 B)	ND	≤ 0.005	0.0005
NICKEL	mg/L Ni	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	< LOQ	≤ 1.0	0.005
SELENIUM	mg/L Se	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3114 C)	ND	≤ 0.02	0.0005
SODIUM	mg/L Na	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	72.0	-	0.010
TITANIUM	mg/L Ti	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	ND	-	0.010
TOTAL IRON	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	0.290	-	0.005
ZINC	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	< LOQ	≤ 5.0	0.003



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2024-U040126

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24A420-0001		
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221B)	7,000	-	1.8
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221E)	930	-	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

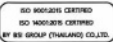
REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (NICKEL ≥ 0.005 AND < 0.100 mg/L, ZINC ≥ 0.003 AND < 0.050 mg/L).

Bhuchonk

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR



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2024-U040126

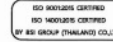
- End of Analysis Report -

ANALYSIS REPORT

CUSTOMER NAME : TPI POLENE PUBLIC COMPANY LIMITED
ADDRESS : 299 MOO 5 MITRAPAR ROAD MITTRAPHAP TABKWANG KAENGKROI SARABURI 18260
CONTACT INFORMATION : TEL : 06 4294 9161 e-mail : Chod.pa@tppolene.co.th
SAMPLING SOURCE : TRIANGULAR POND AREA
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 21, 2024
SAMPLING TIME : 09:50 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ACHITA SAENGIAN
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : MAY 21, 2024
ANALYTICAL DATE : MAY 21 - JUNE 3, 2024
ISSUE DATE : JULY 8, 2024
REPORT NO. : 2024-U062071
WORK NO. : 2023-010274
ANALYSIS NO. : T24AK829-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AK829-0005		
pH	-	ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H ⁺ B AND 1060 B	8.4 (31°C)	5.5-9.0	-
TEMPERATURE	°C	LABORATORY AND FIELD METHODS (SM PART 2550 B)	31	≤ 40	-
ELECTRICAL CONDUCTIVITY	µS/cm	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM PART 2510 B AND 1060 B	608 (31°C)	-	0.1
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM PART 4500-O ₂ G	2.4	-	0.5
ODOUR	-	OBSERVATION METHOD	NONE	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM PART 2520 B AND 1060 B	0.3	-	0.1
COLOUR (ORIGINAL pH)	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM PART 2120 F)	26	≤ 300	10
COLOUR (pH 7.0)	ADMI	ADMI WEIGHTED-ORDINATE SPECTROPHOTOMETRIC METHOD (SM PART 2120 F)	25	≤ 300	10
TURBIDITY	NTU	NEPHELOMETRIC METHOD (SM PART 2130 B)	29	-	0.1
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O ₂ G)	< 2.0	≤ 20	2.0
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLEX, COLOURIMETRIC METHOD (SM PART 5220 D)	76.0	≤ 120	25.0
TOTAL SUSPENDED SOLIDS	mg/L	DRIED FROM 103 TO 105 °C (SM PART 2540 D)	18.2	≤ 50	5.0
TOTAL DISSOLVED SOLIDS	mg/L	DRIED AT 180 °C (SM PART 2540 C)	620	≤ 3,000	25
NITRATE-NITROGEN	mg/L NO ₃ -N	CADMIUM REDUCTION METHOD (SM PART 4500-NO ₃ -E)	0.07	-	0.02
SULPHATE	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM PART 4500-SO ₄ ²⁻ E)	67.7	-	0.3
SULPHIDE	mg/L	IODO-METRIC METHOD (SM PART 4500-S ²⁻ F)	< 0.50	≤ 1	0.50
PHOSPHATE	mg/L PO ₄ ³⁻	ASCORbic ACID METHOD (SM PART 4500-P E)	0.18	-	0.03
SODIUM ADSORPTION RATIO	-	INDUCTIVELY COUPLED PLASMA (ICP) AND CALCULATION METHOD	2.10	-	-
TOTAL KJELDAHL NITROGEN	mg/L	SEM-MICRO-KJELDAHL METHOD (SM PART 4500-Norg C)	< LOQ	≤ 100	15

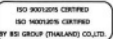


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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AK829-0005		
OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	ND	≤ 5	3
RESIDUAL CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
TOTAL HARDNESS	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM PART 2340 C)	201	-	4.0
CYANIDE	mg/L CN ⁻	DISTILLATION, COLOURIMETRIC METHOD (SM PART 4500-CN ⁻ C AND PART 4500-CN ⁻ E)	ND	≤ 0.2	0.005
PHENOLS	mg/L	DISTILLATION, DIRECT PHOTOMETRIC METHOD (SM 5530 B AND 5530 D)	ND	≤ 1	0.015
FORMALDEHYDE	mg/L	DISTILLATION, COLOURIMETRIC METHOD	ND	≤ 1	0.05
CHLORIDE	mg/L Cl ⁻	ARGENTOMETRIC METHOD (SM 4500-Cl ⁻ B)	176	-	2.0
FREE CHLORINE	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	≤ 1	0.1
METALS					
TOTAL IRON	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	0.290	-	0.005
ARSENIC	mg/L As	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3114 C)	0.0034	≤ 0.25	0.0003
SELENIUM	mg/L Se	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3114 C)	ND	≤ 0.02	0.0005
TRIVALENT CHROMIUM	mg/L Cr ³⁺	DIGESTION, DIRECT AIR-ACETYLENE FLAME; FILTRATION, COLOURIMETRIC METHOD; CALCULATION (SM PART 3030 E, PART 3111 B AND PART 3500-Cr ³⁺ B)	ND	≤ 0.75	0.007
HEXAVALENT CHROMIUM	mg/L Cr ⁶⁺	FILTRATION, COLOURIMETRIC METHOD (SM 3500-Cr ⁶⁺ B)	ND	≤ 0.25	0.006
CADMIUM	mg/L Cd	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 0.03	0.002
COPPER	mg/L Cu	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 2.0	0.005
LEAD	mg/L Pb	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 0.2	0.015
MANGANESE	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	0.052	≤ 5.0	0.004
NICKEL	mg/L Ni	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 10	0.005
ZINC	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	< LOQ	≤ 5.0	0.003
MERCURY	mg/L Hg	DIGESTION, COLD-VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3112 B)	ND	≤ 0.005	0.0005

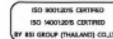


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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AK829-0005		
BARIUM	mg/L Ba	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	0.062	≤ 10	0.005
SODIUM	mg/L Na	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	60.1	-	0.010
TITANIUM	mg/L Ti	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	ND	-	0.010
MICROBIOLOGY					
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221 B AND C)	160,000	-	1.8
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221 B, C AND E)	54,000	-	1.8
ORGANOCHLORINE PESTICIDES					
α-BHC	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
β-BHC	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
γ-BHC	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
δ-BHC	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
ALDRIN	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
DIELDRIN	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
ENDOSULFAN I	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
ENDOSULFAN II	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
ENDOSULFAN SULFATE	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
ENDRIN	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
ENDRIN ALDBHYDE	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
HEPTACHLOR	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02
HEPTACHLOR EPOXIDE	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.02



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2024-U062071

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AN629-0005		
p-p-DDD	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
p-p-DDE	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
p-p-DDT	µg/L	LIQUID-LIQUID EXTRACTION, GAS CHROMATOGRAPHIC METHOD (SM PART 6630 C)	ND	NONE	0.04
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

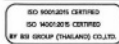
< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 15 AND < 5.0 mg/L, ZINC ≥ 0.003 AND < 0.050 mg/L).

A : SAMPLING BY CUSTOMER AT 0935 HOUR ON JUNE 19, 2024, ANALYSIS NO. T24AN671-0001 (ANALYTICAL DATE : JUNE 19-25, 2024)

THE REASON FOR ISSUING THE NEW REPORT IS SUBSTITUTE RESULT.

SUBSTITUTED REPORT FOR REPORT NO. 2024-U05106, ISSUE DATE JUNE 11, 2024.

Benjawan V.
(MISS BENJAWAN VIRIYOTHAJ)
LABORATORY SUPERVISOR



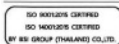
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2024-U062071

- End of Analysis Report -

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AN639-0001		
METALS					
ARSENIC ^c	mg/L As	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3114 C)	0.0016	≤ 0.25	0.0003
SELENIUM ^c	mg/L Se	DIGESTION, HYDRIDE GENERATION/ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3114 C)	ND	≤ 0.02	0.0005
HEXAVALENT CHROMIUM ^c	mg/L Cr ⁶⁺	FILTRATION, COLOURIMETRIC METHOD (SM 3500-Cr B)	ND	≤ 0.25	0.006
CADMIUM ^c	mg/L Cd	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 0.03	0.005
COPPER ^c	mg/L Cu	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 2.0	0.005
LEAD ^c	mg/L Pb	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 0.2	0.020
MANGANESE ^c	mg/L Mn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	< LOQ	≤ 5.0	0.005
NICKEL ^c	mg/L Ni	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	ND	≤ 1.0	0.005
ZINC ^c	mg/L Zn	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	< LOQ	≤ 5.0	0.003
MERCURY ^c	mg/L Hg	DIGESTION, COLD-VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD (SM PART 3112 B)	ND	≤ 0.005	0.0005
BARIUM ^c	mg/L Ba	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	0.058	≤ 1.0	0.005
SODIUM ^c	mg/L Na	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	36.7	-	0.010
TITANIUM ^c	mg/L Ti	DIGESTION, INDUCTIVELY COUPLED PLASMA METHOD (SM PART 3030 F AND PART 3120 B)	ND	-	0.010
TOTAL IRON ^c	mg/L Fe	DIGESTION, DIRECT AIR-ACETYLENE FLAME METHOD (SM PART 3030 E AND PART 3111 B)	0.162	-	0.005



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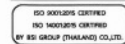
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2024-U061245

ANALYSIS REPORT

CUSTOMER NAME : TPI POLENE PUBLIC COMPANY LIMITED
ADDRESS : 299 MOO 5 MITRAPAR ROAD MITTRAPHAP TABKWANG KAENGKOE SARABURI 18260
CONTACT INFORMATION : TEL : 06 4294 9161 e-mail : Chod.pa@tpipolene.co.th
SAMPLING SOURCE : TRIANGULAR POND AREA
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JUNE 19, 2024
SAMPLING TIME : 09:22 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS AKSARIN BUNKONG
RECEIVED DATE : JUNE 19, 2024
ANALYTICAL DATE : JUNE 19 - JULY 4, 2024
ISSUE DATE : JULY 6, 2024
REPORT NO. : 2024-U061245
WORK NO. : 2023-010274
ANALYSIS NO. : T24AN639-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AN639-0001		
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM PART 4500-H ⁺ B AND 1060 B	7.8 (32°C)	5.5-9.0	-
TEMPERATURE ^c	°C	LABORATORY AND FIELD METHODS (SM PART 2550 B)	32	≤ 40	-
ELECTRICAL CONDUCTIVITY ^b	µS/cm	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM PART 2510 B AND 1060 B	700 (32°C)	-	0.1
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM PART 4500-O G	3.3	-	0.5
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM PART 2520 B AND 1060 B	0.3	-	0.1
TURBIDITY ^c	NTU	NEPHELOMETRIC METHOD (SM PART 2130 B)	17	-	0.1
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G)	< 2.0	≤ 2.0	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLEX, COLOURIMETRIC METHOD (SM PART 5220 D)	ND	≤ 120	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	DRIED FROM 103 TO 105 °C (SM PART 2540 D)	8.5	≤ 50	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	DRIED AT 180 °C (SM PART 2540 C)	341	≤ 3,000	25
PHOSPHATE ^c	mg/L PO ₄ ³⁻	ASBOERIC ACID METHOD (SM PART 4500-P E)	ND	-	0.03
OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	ND	≤ 5	3
RESIDUAL CHLORINE ^c	mg/L Cl ₂	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
TOTAL HARDNESS ^c	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM PART 2340 C)	144	-	4.0
NITRATE-NITROGEN ^c	mg/L NO ₃ -N	CADMIUM REDUCTION METHOD (SM PART 4500-NO ₃ -E)	0.75	-	0.02
SULPHATE ^c	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM PART 4500-SO ₄ ²⁻ E)	55.5	-	0.3
CHLORIDE ^c	mg/L Cl ⁻	ARGENTOMETRIC METHOD (SM 4500-Cl B)	72.5	-	2.0
SODIUM ADSORPTION RATIO ^c	-	INDUCTIVELY COUPLED PLASMA (ICP) AND CALCULATION METHOD	1.54	-	-



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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T24AN639-0001		
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221B AND C)	35,000	-	1.8
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221B, C AND E)	35,000	-	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

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

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

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

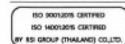
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 134, PART 153 D, DATED JUNE 7, 2017.

ND : NOT DETECTED.

< LOQ : < LIMIT OF QUANTITATION (MANGANESE ≥ 0.005 AND < 0.050 mg/L, ZINC ≥ 0.003 AND < 0.050 mg/L).

Bhuchok P.
(MR BHUCHOK PANICHLERTUMPI)
LABORATORY SUPERVISOR



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- End of Analysis Report -