

เอกสารแนบที่ 31
แผนฉุกเฉินของสนามบึงตราด

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2-10-1

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1. อากาศยานอุบัติเหตุ

นิยาม

เรื่องที่เกิดขึ้นกับยานที่ทำการดำเนินการเป็นของสายการบิน ซึ่งกรณีนี้ไม่ได้เกิดขึ้นระหว่างเวลาที่บุคลากรใด ๆ ขึ้นไปบนอากาศยาน โดยมีเหตุการณ์จะทำการบินหรือขึ้นทางไปอากาศยานกับเวลาที่บุคคลเหล่านั้นจะลงจอดลงอากาศยานและในกรณีที่เกิดขึ้นเป็น

ค. มีบุคคลเสียชีวิตหรือได้รับบาดเจ็บสาหัส โดยคนอยู่ในทวีตบนอากาศยานนั้น ตามโดยกระทรวงคมนาคมหรือสิ่งอื่นใดที่ติดอยู่กับอากาศยานนั้น หรือได้รับบาดเจ็บจากอากาศยาน (Jet Blast) ในบางครั้งอาจขึ้นไปยังคนจวนจวนตก การกระแทกจะก่อให้เกิดอันตรายต่อผู้ที่อยู่บนเครื่องบิน หรือการกระแทกเช่นนี้ เช่น ต้นไม้ หรือการกระแทกอื่น ๆ ในพื้นที่ที่ไม่ใช่พื้นที่ที่ห้ามไว้ผู้โดยสารหรือลูกเรือ หรือ

ข. อากาศยาน ได้รับความเสียหายในเชิงโครงสร้าง (Sustains damage or structural failure) ซึ่งความเสียหายนั้นส่งผลเกี่ยวกับความแข็งแรงของโครงสร้าง สามารถจะ หรือ Flight characteristics ของอากาศยาน หรือทำให้มันถึงขั้นอยู่ใน (Major Region) หรือเกือบถึงจุดการที่เสียหาย ในความเสียหายที่ใกล้เคียงกับตัวเครื่องบินหรือเครื่องยนต์ ในที่สุด ไปจนถึง (Wing loss) (สายอากาศ) (Antenna) ฯลฯ รวมทั้ง engine การปล่อยหรือการบาดเจ็บของอากาศยาน)

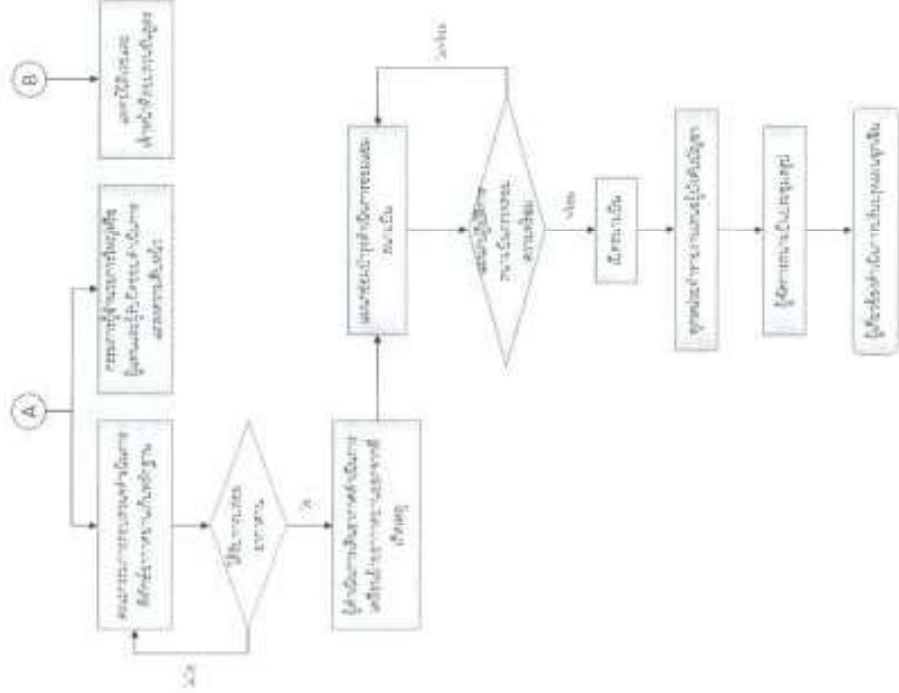
ค. อากาศยานสูญหาย

หลักการทั่วไป

ในขณะนี้ไม่สามารถเขียนครอบคลุมของอากาศยานได้ทั้งหมดทุกประเภทที่อาจเกิดขึ้นได้ตามการบินสากล เหตุการณ์แต่ละประเภทนั้นมีความคล้ายคลึงกันและจะถูกจัดแยกต่างหาก อย่างไรก็ตามส่วนที่สามนี้ให้หลักการและการปฏิบัติที่รับเหมาผู้ให้บริการเปลี่ยนไปใช้ร่วมกัน ดังนี้ เช่น พบพยานอากาศยาน จำนวนผู้โดยสาร กระแสลม ความรุนแรงของพายุจนถึงน้ำ (คลื่น) เวลาที่ถึงท่าอากาศยาน และในกรณีที่เกิดความล่าช้าในการดำเนินการของสายการบินในการดำเนินการหรือการรับทราบถึงเหตุการณ์เป็น 3 ระดับ ได้แก่

- การเรียกความช่วยเหลือ (Alert 1: Local Sundry) จะเกิดขึ้นเมื่อทราบหรือสงสัยว่าอากาศยานเกิดความเสียหายที่ไม่สามารถจะนำความล่าช้าในการดำเนินการของสายการบินในการดำเนินการหรือการรับทราบถึงเหตุการณ์เป็น 3 ระดับ ได้แก่
- การเรียกความช่วยเหลือ (Alert 2: Full Emergency) จะเกิดขึ้นเมื่อทราบหรือสงสัยว่าอากาศยานเกิดความเสียหายที่คาดว่าจะเกิดการปฏิบัติการฉุกเฉิน และมีการดำเนินการที่อาจทำให้เกิดอุบัติเหตุ ในขั้นนี้ผู้แทนและไปประจำตัวที่ส่งถึงท่าอากาศยาน

ขั้นตอนการตอบสนองต่อเหตุฉุกเฉินการพิชิตอากาศยานอุบัติเหตุ
ในสนามบิน (ต่อ)



สรุปขั้นตอนการตอบสนองต่อเหตุฉุกเฉินการพิชิตอากาศยานอุบัติเหตุในสนามบิน (ต่อ)

	แผนฉุกเฉินสนามบินตราด ส่วนที่ 3 อุบัติภัยและขั้นตอนปฏิบัติ (Hazard Specification and SOP)	PAGE 3 - 1 - 14
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ขั้นตอนการปฏิบัติ

แผนซ่อมบำรุง

การปฏิบัติ	ผู้ปฏิบัติ	การปฏิบัติ (✓ หรือ ✕)	เวลาที่ ปฏิบัติ
จัดเจ้าหน้าที่เตรียมพื้นที่ในบริเวณที่มีผู้โดยสาร ณ ที่เกิดเหตุ ส่วนคนไข้ไม่ขึ้นเครื่องบิน			
พื้นที่ที่จัดเตรียมผู้บาดเจ็บ			
พื้นที่สำหรับผู้ป่วยบาดเจ็บ			
พื้นที่สำหรับผู้บาดเจ็บที่ติดเตียง			
พื้นที่สำหรับผู้ป่วยบาดเจ็บ			
จุดพักศพ			
จัดเจ้าหน้าที่สนับสนุนการจัดเก็บศพต่าง ๆ บริเวณท่าอากาศยานตราดและอาคารสนามบินตราด			
จัดอุปกรณ์ให้แสงสว่างและเสียงเตือน			
ให้การช่วยเหลือในทางเคลื่อนย้ายผู้บาดเจ็บในบริเวณที่เกิดเหตุ			
นำเครื่องขนย้ายศพมาวาง (ถ้ามี)			
สำรวจและจัดทำบันทึกสภาพศพของเครื่องขนย้ายศพและรถพยาบาล และแพทย์ VISUAL AIDS อุปกรณ์ให้แสงสว่าง เครื่องหมายภาคพื้น รวมทั้งจุดตรวจที่สนามบินของสนามบิน			
จัดทำรายงานการปฏิบัติงานของหน่วยงานและผู้เกี่ยวข้องการสนับสนุนในเวลา			

	แผนฉุกเฉินสนามบินตราด ส่วนที่ 3 อุบัติภัยและขั้นตอนปฏิบัติ (Hazard Specification and SOP)	PAGE 3 - 1 - 15
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ศูนย์รับมือเหตุและภัยพิบัติ (1669) และสำนักงานสาธารณสุขจังหวัดตราด

ขั้นตอนการปฏิบัติ

การปฏิบัติ	ผู้ปฏิบัติ	การปฏิบัติ (✓ หรือ ✕)	เวลาที่ ปฏิบัติ
LMD ศูนย์รับมือเหตุและภัยพิบัติ สำนักงานระบบนิเวศทางการแพทย์ฉุกเฉิน จังหวัดตราด (1669) ส่งเจ้าหน้าที่ปฏิบัติงานในรถบรรทุกแพทย์ฉุกเฉินออกปฏิบัติงาน ณ จุดเกิดเหตุ เมื่อได้รับแจ้งเหตุ			
ศูนย์รับมือเหตุฯ รายงานให้โรงพยาบาลตราดและศูนย์ฯ ทิศราภรณ์ หน่วยปฏิบัติการฉุกเฉินจัดส่งผู้บาดเจ็บเข้า รพ.ศูนย์ปฏิบัติภารกิจฉุกเฉินเพื่อประสานการปฏิบัติ			
จัดส่งผู้บาดเจ็บไปยังศูนย์สุขภาพก่อนที่พื้นที่ประสานการปฏิบัติ จัดส่งแพทย์ พยาบาล ไปยังบริเวณที่เกิดเหตุและไปเป็นพื้นที่จัดแยกผู้บาดเจ็บ (Triage area)			
จัดส่งแพทย์ พยาบาล ไปยังบริเวณที่เกิดเหตุให้ขึ้นพื้นที่รับผู้ป่วยบาดเจ็บ (Cane area) เพื่อให้บริการช่วยเหลือผู้บาดเจ็บและนำส่งโรงพยาบาล			
ทำการจัดแยกและรักษาพยาบาลผู้บาดเจ็บ			
ดำเนินการขนส่งผู้บาดเจ็บไปยังสถานพยาบาลที่ใกล้ที่สุดหรือรถเคลื่อนย้ายศพ			
ขอส่งศพมาพบศพ			
บันทึกประวัติและข้อมูลเกี่ยวกับผู้บาดเจ็บ ชื่อ-สกุล อ.การและโรงพยาบาลที่เข้ารับการรักษา			
จัดทำรายงานการปฏิบัติงานของหน่วยงานและผู้เกี่ยวข้องการสนับสนุนในเวลา			

หมายเหตุ : ผู้ประสานงานแพทย์สามารถติดต่อขอความช่วยเหลือจากทีมแพทย์ที่ประจำที่ "MEDICAL COORDINATOR" ศูนย์ควบคุมและจัดการเหตุและภัยพิบัติ ทั้งนี้เพื่อให้เป็นที่ยอมรับได้และลดความเสียหาย

เอกสารแนบที่ 32

สำเนาจดหมายนำส่งแผ่นพับสรุปการดำเนินการ
ด้านสิ่งแวดล้อม สนามบิณฑราด
ต่อหน่วยงานที่เกี่ยวข้องกับการท่องเที่ยวในจังหวัด

ที่ 18-10-030

25 กุมภาพันธ์ 2564

เรื่อง ขอนำส่งแผนปฏิบัติการดำเนินการด้านสิ่งแวดล้อม สนามบินตราด

เรียน ผู้อำนวยการการท่องเที่ยวแห่งประเทศไทย สำนักงานตราด

สิ่งที่แนบ 1. แผนปฏิบัติการดำเนินการด้านสิ่งแวดล้อม สนามบินตราด ระหว่างเดือนมกราคม-มิถุนายน 2563 จำนวน 5 แผ่น

2. แผนปฏิบัติการดำเนินการด้านสิ่งแวดล้อม สนามบินตราด ระหว่างเดือนกรกฎาคม-ธันวาคม 2563 จำนวน 5 แผ่น

ด้วยสนามบินตราด ในสังกัดบริษัท การบินกรุงเทพ จำกัด (มหาชน) ได้ปฏิบัติตามมาตรการป้องกันและแก้ไขผลกระทบสิ่งแวดล้อม และมาตรการติดตาม ตรวจสอบ ผลกระทบสิ่งแวดล้อม ตามที่สำนักงานนโยบายและแผนทรัพยากรธรรมชาติและสิ่งแวดล้อม (สผ.) กำหนด

ในการนี้ องค์ประกอบทางสิ่งแวดล้อมในด้านการท่องเที่ยว สุนทริยภาพ และภูมิทัศน์ มีผลกระทบด้านสิ่งแวดล้อม คือ การพัฒนาโครงการสนามบินจะส่งผลดีต่อการท่องเที่ยวของจังหวัดมากขึ้น ซึ่ง สผ. มีคำแนะนำให้ประสานกับหน่วยงานที่เกี่ยวข้องกับการท่องเที่ยวในจังหวัด เพื่อประชาสัมพันธ์การดำเนินโครงการดังกล่าว สนามบินตราดจึงขอส่งแผนปฏิบัติการดำเนินการด้านสิ่งแวดล้อม สนามบินตราด ระหว่างเดือนมกราคม-มิถุนายน 2563 และกรกฎาคม-ธันวาคม 2563 (รายละเอียดตามสิ่งที่แนบมา)

จึงเรียนมาเพื่อโปรดพิจารณา

ขอแสดงความนับถือ



(นางสมพร บึงโพธิ์)


ผู้จัดการสนามบินตราด

สนามบินตราด/TRAT AIRPORT	
เคสเลขที่.....	
หมายเลขผู้รับ.....	
ลายชื่อผู้รับ.....	
วันที่รับหนังสือ.....	12/2/64

งานด้านสิ่งแวดล้อมสนามบินตราด

อีเมล : tdxairport@bangkokair.com โทรศัพท์ : 0 3952 5777 โทรสาร : 0 3952 5778

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หนังสือรับรองผลการตรวจวิเคราะห์

คุณภาพอากาศในบรรยากาศ

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Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : Khun Bodin Thaiyim
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-6, 2021
SAMPLING BY : Oran Boonphan

Station	Date	Parameter	
		TSP (mg/m ³)	PM10 (mg/m ³)
พื้นที่โครงการ	April 3-4, 2021	0.047	0.012
	April 4-5, 2021	0.044	0.015
	April 5-6, 2021	0.052	0.017
Standard *		≥0.33	≥0.12

Remark : - Sampling and analytical technique for TSP based on High Volume Air Sampler / Gravimetric Method and PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Source : * The notification of the National Environment Board No. 24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004).

TY/OJ/STT/STT




 (Thepsan Yommana)
 Technical Manager

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Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : Khun Bodin Thaiyim
ADDRESS : 99 Moo 14, Vibhavadirangsil Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : ท่าอากาศยานสุวรรณภูมิ
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Time	NO ₂ Concentration (ppm)		
	April 3, 2021	April 4, 2021	April 5, 2021
00:00-01:00	0.006	0.005	0.006
01:00-02:00	0.005	0.005	0.006
02:00-03:00	0.005	0.005	0.006
03:00-04:00	0.005	0.006	0.005
04:00-05:00	0.005	0.005	0.006
05:00-06:00	0.004	0.005	0.006
06:00-07:00	0.005	0.006	0.006
07:00-08:00	0.006	0.008	0.007
08:00-09:00	0.006	0.007	0.008
09:00-10:00	0.006	0.007	0.009
10:00-11:00	0.006	0.005	0.009
11:00-12:00	0.005	0.006	0.008
12:00-13:00	0.005	0.006	0.006
13:00-14:00	0.005	0.007	0.006
14:00-15:00	0.004	0.008	0.005
15:00-16:00	0.004	0.006	0.005
16:00-17:00	0.004	0.005	0.005
17:00-18:00	0.004	0.005	0.005
18:00-19:00	0.004	0.005	0.005
19:00-20:00	0.006	0.009	0.008
20:00-21:00	0.006	0.008	0.007
21:00-22:00	0.009	0.008	0.007
22:00-23:00	0.007	0.007	0.007
23:00-00:00	0.007	0.007	0.006
1 hr-Minimum	0.004	0.005	0.005
1 hr-Maximum	0.009	0.009	0.009
Avg. 24 hr	0.005	0.006	0.006
Standard* (avg. 1 hr)	0.17		

Analytical Method : Chemiluminescence Method.

Source : The notification of the National Environment Board No. 33, B.E. 2552 (2009), subjected "The nitrogen dioxide in ambient air standards", published in the Royal Gazette, Vol. 126, Special part 114D, dated August 14, B.E. 2552 (2009).



(Thepsan Yommana)
 Technical Manager

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E 230385

Report No. : 2021-5001408_1 / 001-1 (Page 3 of 8)

Issued date : April 29, 2021

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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Time	CO Concentration (ppm)		
	April 3, 2021	April 4, 2021	April 5, 2021
00:00-01:00	0.471	0.341	0.615
01:00-02:00	0.539	0.320	0.630
02:00-03:00	0.380	0.358	0.488
03:00-04:00	0.396	0.689	0.471
04:00-05:00	0.312	0.589	0.518
05:00-06:00	0.374	0.585	0.467
06:00-07:00	0.250	0.625	0.545
07:00-08:00	0.384	0.707	0.457
08:00-09:00	0.419	0.738	0.520
09:00-10:00	0.425	0.662	0.451
10:00-11:00	0.212	0.610	0.410
11:00-12:00	0.169	0.495	0.332
12:00-13:00	0.199	0.459	0.251
13:00-14:00	0.348	0.580	0.344
14:00-15:00	0.340	0.552	0.296
15:00-16:00	0.416	0.602	0.312
16:00-17:00	0.372	0.648	0.319
17:00-18:00	0.426	0.560	0.335
18:00-19:00	0.389	0.470	0.307
19:00-20:00	0.417	0.466	0.304
20:00-21:00	0.444	0.577	0.282
21:00-22:00	0.331	0.555	0.199
22:00-23:00	0.329	0.573	0.232
23:00-00:00	0.254	0.570	0.316
1 hr-Minimum	0.169	0.320	0.199
1 hr-Maximum	0.539	0.738	0.630
Avg. 8 hrs	00:00-08:00	0.388	0.524
	08:00-16:00	0.316	0.365
	16:00-00:00	0.370	0.287
Standard* (avg. 1 hr)	30		
Standard* (avg. 8 hrs)	9		

Analytical Method : Non-dispersive Infrared (NDIR) Method.
Source : The notification of the National Environment Board No.10, B.E. 2538 (1995) and "Guidelines for the implementation of air standards", published in the Royal Government Gazette, Vol. 112, Part 42D, dated May 19, 1969.

SGS (THAILAND) LIMITED

Technical Manager

TY/OJ/STT/STT

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E 230386

Report No. : 2021-5001408_1 / 001-1 (Page 4 of 8)

Issued date : April 29, 2021

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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Station	Date	THC (ppm)
พื้นที่โครงการ	April 3, 2021	4.31
	April 4, 2021	4.04
	April 5, 2021	3.87

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SGS (THAILAND) LIMITED



(Thepsan Yommana)
 Technical Manager

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E 230387

Report No. : 2021-5001408_1 / 001-1 (Page 5 of 8)

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Time	SO ₂ Concentration (ppm)		
	April 3, 2021	April 4, 2021	April 5, 2021
00:00-01:00	0.002	0.002	0.002
01:00-02:00	0.003	0.002	0.002
02:00-03:00	0.003	0.002	0.002
03:00-04:00	0.003	0.002	0.004
04:00-05:00	0.002	0.004	0.002
05:00-06:00	0.003	0.002	0.002
06:00-07:00	0.003	0.002	0.002
07:00-08:00	0.003	0.001	0.002
08:00-09:00	0.003	0.002	0.002
09:00-10:00	0.003	0.002	0.002
10:00-11:00	0.002	0.002	0.001
11:00-12:00	0.002	0.002	0.002
12:00-13:00	0.002	0.003	0.002
13:00-14:00	0.002	0.002	0.002
14:00-15:00	0.006	0.002	0.002
15:00-16:00	0.001	0.002	0.002
16:00-17:00	0.002	0.002	0.001
17:00-18:00	0.002	0.001	0.002
18:00-19:00	0.002	0.002	0.002
19:00-20:00	0.001	0.003	0.001
20:00-21:00	0.002	0.002	0.002
21:00-22:00	0.002	0.002	0.002
22:00-23:00	0.002	0.002	0.002
23:00-00:00	0.001	0.001	0.002
1 hr-Minimum	0.001	0.001	0.001
1 hr-Maximum	0.006	0.004	0.004
Avg. 24 hr	0.002	0.002	0.002
Standard* (avg. 1 hr)		0.30	
Standard** (avg. 24 hr)		0.12	

Analytical Method :
Sources :

- UV Fluorescence Method.
- The notification of the National Environment Board No.21, B.E. 2544 (2001), subject: "The ambient air standards", published in the Royal Government Gazette, Vol. 118, Part 39E, dated April 30, B.E. 2544 (2001).
- The notification of the National Environment Board No. 24, B.E. 2547 (2004), subject: "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 1, B.E. 2547 (2004).

SGS (THAILAND) LIMITED

Technical Manager

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Report No. : 2021-5001408_1 / 001-1 (Page 6 of 8)

Issued date : April 29, 2021

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE: April 3-5, 2021
SAMPLING BY : Oran Boonphan

TIME	April 3, 2021		April 4, 2021		April 5, 2021	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	-	CALM	-	CALM	-	CALM
01:00-02:00	-	CALM	-	CALM	-	CALM
02:00-03:00	-	CALM	-	CALM	-	CALM
03:00-04:00	-	CALM	-	CALM	-	CALM
04:00-05:00	-	CALM	-	CALM	-	CALM
05:00-06:00	-	CALM	-	CALM	-	CALM
06:00-07:00	-	CALM	-	CALM	-	CALM
07:00-08:00	-	CALM	-	CALM	-	CALM
08:00-09:00	-	CALM	-	CALM	-	CALM
09:00-10:00	-	CALM	-	CALM	-	CALM
10:00-11:00	-	CALM	SSW	1.3	NE	0.9
11:00-12:00	ESE	2.7	SSW	2.7	-	CALM
12:00-13:00	SE	2.2	S	0.9	ESE	1.3
13:00-14:00	S	0.9	SSW	0.9	SE	1.8
14:00-15:00	WSW	1.8	SSW	2.7	SE	2.2
15:00-16:00	SW	2.2	SSW	3.1	SSW	3.1
16:00-17:00	SSW	2.7	SSW	3.1	SSW	4.0
17:00-18:00	SSW	2.7	SSW	3.1	SSW	3.6
18:00-19:00	SSW	3.1	SSW	2.2	SSW	3.6
19:00-20:00	SSW	3.1	-	CALM	SSW	2.7
20:00-21:00	SSW	1.3	-	CALM	ESE	0.9
21:00-22:00	-	CALM	-	CALM	ESE	1.3
22:00-23:00	-	CALM	-	CALM	-	CALM
23:00-00:00	-	CALM	-	CALM	-	CALM

Measurement Method : - Wind Speed and Wind Direction recording meter
Remarks : - WS = Wind Speed
 - WD = Wind Direction



(Thepsan Yommana)
 Technical Manager

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E 230389

Report No. : 2021-5001408_1 / 001-1 (Page 7 of 8)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE: April 3-5, 2021
SAMPLING BY : Oran Boonphan

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	1.39	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	1.39	2.78	1.39	-	-
SE	-	1.39	2.78	-	-
SSE	-	-	-	-	-
S	2.78	-	-	-	-
SSW	1.39	2.78	8.33	12.50	-
SW	-	-	1.39	-	-
WSW	-	1.39	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	58.33				

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SGS (THAILAND) LIMITED



(Thepsan Yommana)
 Technical Manager

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Report No. : 2021-5001408_1 / 001-1 (Page 8 of 8)

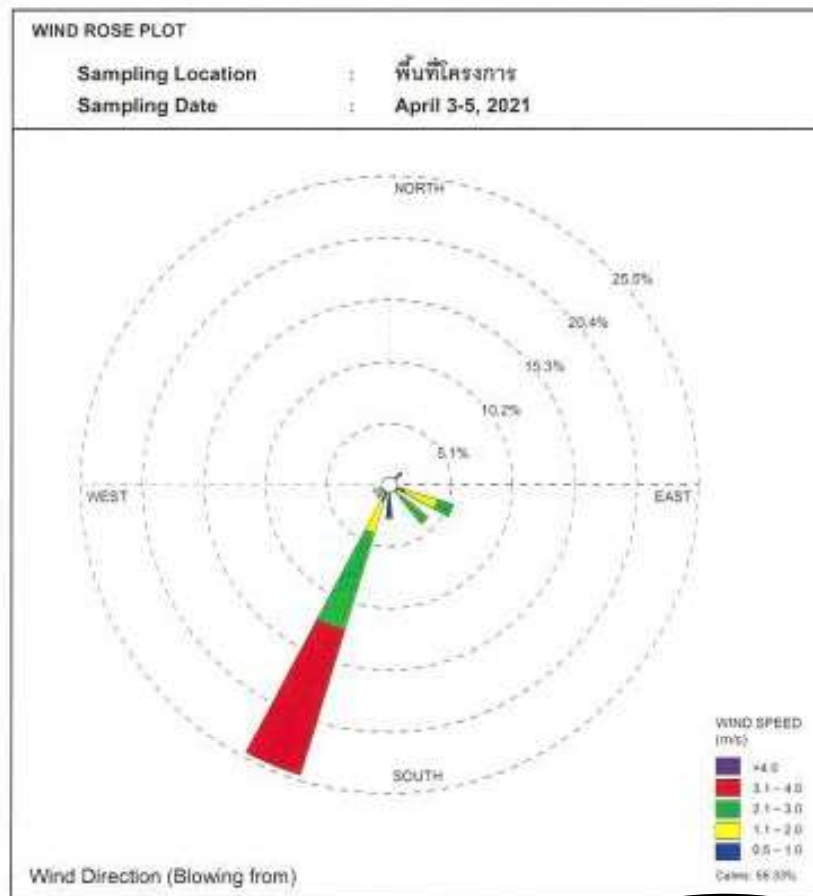
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : ท่าอากาศยานสุวรรณภูมิ
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE: April 3-5, 2021
SAMPLING BY : Oran Boonphan



(Thepsan Yommana)
 Technical Manager

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E 230391

Report No. : 2021-5001408_1 / 001-2 (Page 1 of 8)

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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าไทม
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-6, 2021
SAMPLING BY : Oran Boonphan

Station	Date	Parameter	
		TSP (mg/m ³)	PM10 (mg/m ³)
บ้านท่าไทม	April 3-4, 2021	0.046	0.022
	April 4-5, 2021	0.041	0.020
	April 5-6, 2021	0.045	0.025
Standard *		≥0.33	≥0.12

Remark : - Sampling and analytical technique for TSP based on High Volume Air Sampler / Gravimetric Method and PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Source : - The notification of the National Environment Board No. 24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004).

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(Thepsan Yommana)
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Report No. : 2021-5001408_1 / 001-2 (Page 2 of 8)

Issued date : April 29, 2021

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าโสม
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Time	NO ₂ Concentration (ppm)		
	April 3, 2021	April 4, 2021	April 5, 2021
00:00-01:00	0.005	0.006	0.006
01:00-02:00	0.004	0.005	0.006
02:00-03:00	0.004	0.005	0.005
03:00-04:00	0.004	0.005	0.005
04:00-05:00	0.004	0.004	0.005
05:00-06:00	0.003	0.005	0.005
06:00-07:00	0.004	0.005	0.006
07:00-08:00	0.004	0.006	0.008
08:00-09:00	0.005	0.006	0.008
09:00-10:00	0.005	0.007	0.010
10:00-11:00	0.005	0.005	0.010
11:00-12:00	0.005	0.006	0.010
12:00-13:00	0.005	0.007	0.007
13:00-14:00	0.004	0.009	0.008
14:00-15:00	0.004	0.010	0.006
15:00-16:00	0.004	0.007	0.006
16:00-17:00	0.004	0.005	0.004
17:00-18:00	0.003	0.005	0.005
18:00-19:00	0.004	0.005	0.006
19:00-20:00	0.004	0.007	0.009
20:00-21:00	0.005	0.007	0.007
21:00-22:00	0.010	0.007	0.007
22:00-23:00	0.007	0.007	0.007
23:00-00:00	0.007	0.006	0.006
1 hr-Minimum	0.003	0.004	0.004
1 hr-Maximum	0.010	0.010	0.010
Avg. 24 hr	0.005	0.006	0.007
Standard* (avg. 1 hr)	0.17		

Analytical Method : - Chemiluminescence Method.

Source : * The notification of the National Environment Board No. 33, B.E. 2552 (2009), subjected "The nitrogen dioxide in ambient air standards", published in the Royal Gazette, Vol. 126, Special part 114D, dated August 14, B.E. 2552 (2009).

SGS (THAILAND) LIMITED

(Thepsan Tummara)
 Technical Manager

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Report No. : 2021-5001408_1 / 001-2 (Page 3 of 8)

Issued date : April 29, 2021

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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าโสม
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Time	CO Concentration (ppm)		
	April 3, 2021	April 4, 2021	April 5, 2021
00:00-01:00	0.420	0.284	0.261
01:00-02:00	0.357	0.283	0.262
02:00-03:00	0.327	0.280	0.259
03:00-04:00	0.323	0.279	0.257
04:00-05:00	0.320	0.279	0.257
05:00-06:00	0.316	0.279	0.256
06:00-07:00	0.313	0.286	0.255
07:00-08:00	0.311	0.285	0.255
08:00-09:00	0.309	0.304	0.253
09:00-10:00	0.305	0.300	0.251
10:00-11:00	0.307	0.282	0.251
11:00-12:00	0.304	0.276	0.248
12:00-13:00	0.299	0.275	0.246
13:00-14:00	0.296	0.270	0.246
14:00-15:00	0.295	0.268	0.245
15:00-16:00	0.293	0.267	0.244
16:00-17:00	0.291	0.265	0.244
17:00-18:00	0.289	0.265	0.244
18:00-19:00	0.289	0.265	0.256
19:00-20:00	0.288	0.265	0.266
20:00-21:00	0.287	0.274	0.278
21:00-22:00	0.287	0.264	0.246
22:00-23:00	0.286	0.263	0.246
23:00-00:00	0.286	0.262	0.246
1 hr-Minimum	0.286	0.262	0.244
1 hr-Maximum	0.420	0.304	0.278
Avg. 8 hrs	00:00-08:00	0.336	0.258
	08:00-16:00	0.301	0.248
	16:00-00:00	0.288	0.253
Standard* (avg. 1 hr)	30		
Standard* (avg. 8 hrs)	9		

Analytical Method : Non-dispersive Infrared (NDIR) Method.
Source : The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 112, Part 42D, dated May 25, B.E. 2538.



(Signature)
Technical Manager

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E 230394

Report No. : 2021-5001408_1 / 001-2 (Page 4 of 8)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : Khun Bodin Thaiyim
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าโสม
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Station	Date	THC (ppm)
บ้านท่าโสม	April 3, 2021	4.25
	April 4, 2021	4.10
	April 5, 2021	4.25

TY/OJ/STT/STT

SGS (THAILAND) LIMITED



Technical Manager

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E 230395

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Member of the SGS Group

Report No. : 2021-5001408_1 / 001-2 (Page 5 of 8)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าโพธิ์
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Time	SO ₂ Concentration (ppm)		
	April 3, 2021	April 4, 2021	April 5, 2021
00:00-01:00	0.002	0.002	0.003
01:00-02:00	0.002	0.002	0.002
02:00-03:00	0.002	0.003	0.002
03:00-04:00	0.003	0.002	0.002
04:00-05:00	0.002	0.003	0.002
05:00-06:00	0.002	0.002	0.003
06:00-07:00	0.003	0.002	0.002
07:00-08:00	0.002	0.002	0.002
08:00-09:00	0.002	0.001	0.002
09:00-10:00	0.003	0.002	0.002
10:00-11:00	0.002	0.001	0.003
11:00-12:00	0.002	0.001	0.002
12:00-13:00	0.002	0.001	0.002
13:00-14:00	0.003	0.002	0.002
14:00-15:00	0.002	0.002	0.003
15:00-16:00	0.001	0.002	0.002
16:00-17:00	0.002	0.003	0.002
17:00-18:00	0.002	0.002	0.003
18:00-19:00	0.002	0.002	0.002
19:00-20:00	0.002	0.002	0.002
20:00-21:00	0.001	0.003	0.001
21:00-22:00	0.002	0.002	0.002
22:00-23:00	0.002	0.002	0.002
23:00-00:00	0.001	0.002	0.002
1 hr-Minimum	0.001	0.001	0.001
1 hr-Maximum	0.003	0.003	0.003
Avg. 24 hr	0.002	0.002	0.002
Standard* (avg. 1 hr)		0.30	
Standard** (avg. 24 hr)		0.12	

Analytical Method :

Sources :

- UV Fluorescence Method.
- The notification of the National Environment Board No.21, B.E. 2544 (2001), subject "The ambient air standards", published in the Royal Government Gazette, Vol. 118, Part 39E, dated April 30, B.E. 2544 (2001).
- The notification of the National Environment Board No. 24, B.E. 2547 (2004), subject "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 1, B.E. 2547 (2004).

SGS (THAILAND) LIMITED

Technical Manager

TY/OJ/STT/STT

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E 230396

SGS (Thailand) Limited

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Report No. : 2021-5001408_1 / 001-2 (Page 6 of 8)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าโสม
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

TIME	April 3, 2021		April 4, 2021		April 5, 2021	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	-	CALM	-	CALM	-	CALM
01:00-02:00	-	CALM	-	CALM	-	CALM
02:00-03:00	-	CALM	-	CALM	-	CALM
03:00-04:00	-	CALM	-	CALM	-	CALM
04:00-05:00	-	CALM	-	CALM	-	CALM
05:00-06:00	-	CALM	-	CALM	-	CALM
06:00-07:00	-	CALM	-	CALM	-	CALM
07:00-08:00	-	CALM	-	CALM	-	CALM
08:00-09:00	-	CALM	-	CALM	-	CALM
09:00-10:00	-	CALM	-	CALM	ENE	0.9
10:00-11:00	ESE	1.3	S	1.3	E	0.9
11:00-12:00	SSE	1.8	SSW	0.9	E	0.9
12:00-13:00	-	CALM	S	0.9	E	0.9
13:00-14:00	S	0.9	S	0.9	S	1.3
14:00-15:00	WNW	0.9	NW	0.9	S	1.8
15:00-16:00	NW	0.9	SSW	1.3	S	1.3
16:00-17:00	NW	1.3	S	1.3	S	1.3
17:00-18:00	SW	0.9	S	0.9	SSW	1.3
18:00-19:00	SSW	0.9	-	CALM	SSW	1.3
19:00-20:00	-	CALM	-	CALM	NE	1.3
20:00-21:00	-	CALM	-	CALM	SSE	0.9
21:00-22:00	-	CALM	-	CALM	-	CALM
22:00-23:00	-	CALM	-	CALM	-	CALM
23:00-00:00	-	CALM	-	CALM	-	CALM

Measurement Method : - Wind Speed and Wind Direction recording meter
Remarks : - WS = Wind Speed
 - WD = Wind Direction



(Thepsan Yonmaha)
 Technical Manager

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E 230397

Report No. : 2021-5001408_1 / 001-2 (Page 7 of 8)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE : April 3-5, 2021

SAMPLING LOCATION : บ้านท่าโพธิ์

SAMPLING BY : Oran Boonphan

LABORATORY NAME : SGS (Thailand) Limited

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	1.39	-	-	-
ENE	1.39	-	-	-	-
E	4.17	-	-	-	-
ESE	-	1.39	-	-	-
SE	-	-	-	-	-
SSE	1.39	1.39	-	-	-
S	5.56	8.33	-	-	-
SSW	2.78	4.17	-	-	-
SW	1.39	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	1.39	-	-	-	-
NW	2.78	1.39	-	-	-
NNW	-	-	-	-	-
CALM	61.11				

TY/OJ/STT/STT



(Thepsan Yommana)
 Technical Manager

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E 230398

Report No. : 2021-5001408_1 / 001-2 (Page 8 of 8)

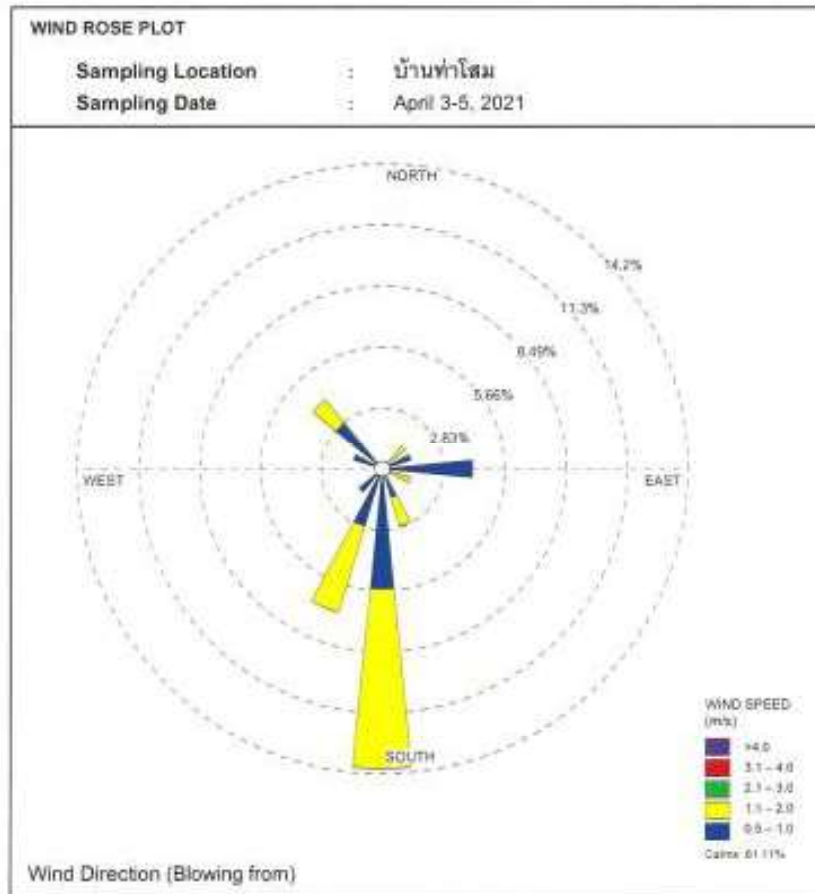
Issued date : April 29, 2021

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าโสม
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan



(Thepsan Yommana)
 Technical Manager

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E 230399

Report No. : 2021-5001408_1 / 001-3 (Page 1 of 8)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านบางกระเจตวัน
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-6, 2021
SAMPLING BY : Oran Boonphan

Station	Date	Parameter	
		TSP (mg/m ³)	PM10 (mg/m ³)
บ้านบางกระเจตวัน	April 3-4, 2021	0.041	0.010
	April 4-5, 2021	0.044	0.016
	April 5-6, 2021	0.052	0.017
Standard *		≥0.33	≥0.12

Remark : - Sampling and analytical technique for TSP based on High Volume Air Sampler / Gravimetric Method and PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Source : - The notification of the National Environment Board No. 24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004).

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(Thepsan Yommana)
 Technical Manager

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E 230400

Report No. : 2021-5001408_1 / 001-3 (Page 2 of 8)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าอากาศยาน
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Time	NO ₂ Concentration (ppm)		
	April 3, 2021	April 4, 2021	April 5, 2021
00:00-01:00	0.005	0.005	0.006
01:00-02:00	0.005	0.005	0.006
02:00-03:00	0.005	0.005	0.006
03:00-04:00	0.006	0.006	0.006
04:00-05:00	0.006	0.006	0.006
05:00-06:00	0.005	0.006	0.005
06:00-07:00	0.006	0.006	0.005
07:00-08:00	0.007	0.009	0.006
08:00-09:00	0.007	0.008	0.006
09:00-10:00	0.006	0.006	0.006
10:00-11:00	0.006	0.005	0.006
11:00-12:00	0.005	0.005	0.005
12:00-13:00	0.005	0.005	0.005
13:00-14:00	0.005	0.005	0.005
14:00-15:00	0.004	0.005	0.004
15:00-16:00	0.004	0.005	0.004
16:00-17:00	0.004	0.004	0.004
17:00-18:00	0.004	0.004	0.004
18:00-19:00	0.004	0.005	0.004
19:00-20:00	0.008	0.010	0.006
20:00-21:00	0.007	0.009	0.006
21:00-22:00	0.007	0.008	0.005
22:00-23:00	0.006	0.007	0.006
23:00-00:00	0.006	0.007	0.005
1 hr-Minimum	0.004	0.004	0.004
1 hr-Maximum	0.008	0.010	0.006
Avg. 24 hr	0.006	0.006	0.005
Standard* (avg. 1 hr)	0.17		

Analytical Method : Chemiluminescence Method.

Source : The notification of the National Environment Board No. 33, B.E. 2552 (2009), subjected "The nitrogen dioxide in ambient air standards", published in the Royal Government Gazette, Vol. 126, Special part 114D, dated August 14, B.E. 2552 (2009).



Technical Manager

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E 230401

Report No. : 2021-5001408_1 / 001-3 (Page 3 of 8)

Issued date : April 29, 2021

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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านบางกระดาน
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Time	CO Concentration (ppm)		
	April 3, 2021	April 4, 2021	April 5, 2021
00:00-01:00	0.397	0.288	0.524
01:00-02:00	0.369	0.291	0.389
02:00-03:00	0.438	0.423	0.351
03:00-04:00	0.427	0.312	0.376
04:00-05:00	0.446	0.338	0.366
05:00-06:00	0.344	0.324	0.367
06:00-07:00	0.377	0.289	0.446
07:00-08:00	0.365	0.395	0.401
08:00-09:00	0.399	0.426	0.373
09:00-10:00	0.420	0.365	0.429
10:00-11:00	0.305	0.418	0.435
11:00-12:00	0.429	0.498	0.326
12:00-13:00	0.364	0.545	0.318
13:00-14:00	0.360	0.472	0.328
14:00-15:00	0.437	0.365	0.312
15:00-16:00	0.407	0.376	0.340
16:00-17:00	0.420	0.398	0.342
17:00-18:00	0.391	0.362	0.253
18:00-19:00	0.380	0.415	0.327
19:00-20:00	0.383	0.393	0.313
20:00-21:00	0.365	0.548	0.268
21:00-22:00	0.448	0.524	0.333
22:00-23:00	0.441	0.524	0.341
23:00-00:00	0.271	0.549	0.256
1 hr-Minimum	0.271	0.288	0.253
1 hr-Maximum	0.448	0.549	0.524
Avg. 8 hrs	00:00-08:00	0.395	0.403
	08:00-16:00	0.390	0.358
	16:00-00:00	0.387	0.304
Standard* (avg. 1 hr)	30		
Standard* (avg. 8 hrs)	9		

Analytical Method : Non-dispersive Infrared (NDIR) Method.
Source : The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 112, Part 42D, dated May 25, B.E. 2538.



Technical Manager

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E 230402

Report No. : 2021-5001408_1 / 001-3 (Page 4 of 8)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
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ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านบางกระดาน
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Station	Date	THC (ppm)
บ้านบางกระดาน	April 3, 2021	3.90
	April 4, 2021	4.60
	April 5, 2021	4.61

TY/OJ/STT/STT



Technical Manager

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E 230403

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Report No. : 2021-5001408_1 / 001-3 (Page 5 of 8)

Issued date : April 29, 2021

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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านบางกะเจดาม
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Time	SO ₂ Concentration (ppm)		
	April 3, 2021	April 4, 2021	April 5, 2021
00:00-01:00	0.002	0.001	0.001
01:00-02:00	0.002	0.002	0.002
02:00-03:00	0.001	0.002	0.002
03:00-04:00	0.001	0.002	0.002
04:00-05:00	0.002	0.002	0.001
05:00-06:00	0.003	0.001	0.001
06:00-07:00	0.002	0.001	0.001
07:00-08:00	0.003	0.002	0.002
08:00-09:00	0.002	0.002	0.002
09:00-10:00	0.002	0.002	0.002
10:00-11:00	0.002	0.002	0.002
11:00-12:00	0.002	0.002	0.001
12:00-13:00	0.001	0.001	0.001
13:00-14:00	0.001	0.001	0.001
14:00-15:00	0.001	0.001	0.001
15:00-16:00	0.002	0.002	0.002
16:00-17:00	0.001	0.001	0.001
17:00-18:00	0.001	0.001	0.001
18:00-19:00	0.002	0.001	0.001
19:00-20:00	0.001	0.002	0.002
20:00-21:00	0.002	0.002	0.002
21:00-22:00	0.002	0.001	0.001
22:00-23:00	0.002	0.001	0.001
23:00-00:00	0.002	0.001	0.002
1 hr-Minimum	0.001	0.001	0.001
1 hr-Maximum	0.003	0.002	0.002
Avg. 24 hr	0.002	0.002	0.001
Standard* (avg. 1 hr)	0.30		
Standard** (avg. 24 hr)	0.12		

Analytical Method :

Sources :

- UV Fluorescence Method

* The notification of the National Environment Board No.21, B.E. 2544 (2001), subject "The ambient air standards",

published in the Royal Government Gazette, Vol. 115, Part 36E, dated April 30, B.E. 2544 (2001).

** The notification of the National Environment Board No. 24, B.E. 2547 (2004), subject

published in the Royal Government Gazette, Vol. 121, Part 104D, dated September

Technical Manager

SGS (THAILAND) LIMITED

TY/OJ/STT/STT

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E 230404

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Report No. : 2021-5001408_1 / 001-3 (Page 6 of 8)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : Khun Bodin Thaiyim
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE : April 3-5, 2021

SAMPLING LOCATION : บ้านบางกะเจตนา

SAMPLING BY : Oran Boonphan

LABORATORY NAME : SGS (Thailand) Limited

TIME	April 3, 2021		April 4, 2021		April 5, 2021	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	-	CALM	-	CALM	-	CALM
01:00-02:00	-	CALM	SW	0.9	-	CALM
02:00-03:00	-	CALM	-	CALM	-	CALM
03:00-04:00	-	CALM	-	CALM	-	CALM
04:00-05:00	-	CALM	-	CALM	-	CALM
05:00-06:00	-	CALM	-	CALM	-	CALM
06:00-07:00	-	CALM	-	CALM	-	CALM
07:00-08:00	-	CALM	-	CALM	-	CALM
08:00-09:00	-	CALM	-	CALM	-	CALM
09:00-10:00	-	CALM	-	CALM	-	CALM
10:00-11:00	ESE	0.9	S	1.3	ENE	0.9
11:00-12:00	SSE	1.3	SSW	0.9	-	CALM
12:00-13:00	-	CALM	S	0.9	-	CALM
13:00-14:00	S	0.9	-	CALM	S	0.9
14:00-15:00	-	CALM	NW	0.9	S	1.3
15:00-16:00	-	CALM	SSW	1.3	S	1.3
16:00-17:00	NW	0.9	S	0.9	S	1.3
17:00-18:00	SW	0.9	S	0.9	SSW	1.3
18:00-19:00	SSW	0.9	-	CALM	SSW	1.3
19:00-20:00	-	CALM	-	CALM	NE	1.3
20:00-21:00	-	CALM	-	CALM	SSE	0.9
21:00-22:00	-	CALM	-	CALM	ESE	0.9
22:00-23:00	-	CALM	-	CALM	E	0.9
23:00-00:00	-	CALM	-	CALM	-	CALM

Measurement Method : - Wind Speed and Wind Direction recording meter

Remarks : - WS = Wind Speed
 - WD = Wind Direction

SGS (THAILAND) LIMITED

TY/QJ/STT/STT



(Thapan Pongmanee)
 Technical Manager

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Report No. : 2021-5001408_1 / 001-3 (Page 7 of 8)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านบางกระดาน
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan

Wind Direction \ Wind Speed	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	-	-	-	-	-
NNE	-	-	-	-	-
NE	-	1.39	-	-	-
ENE	1.39	-	-	-	-
E	1.39	-	-	-	-
ESE	2.78	-	-	-	-
SE	-	-	-	-	-
SSE	1.39	1.39	-	-	-
S	6.94	5.56	-	-	-
SSW	2.78	4.17	-	-	-
SW	2.78	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	2.78	-	-	-	-
NNW	-	-	-	-	-
CALM	65.28				

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 (Thepsan Yommana)
 Technical Manager

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E 230406

Report No. : 2021-5001408_1 / 001-3 (Page 8 of 8)

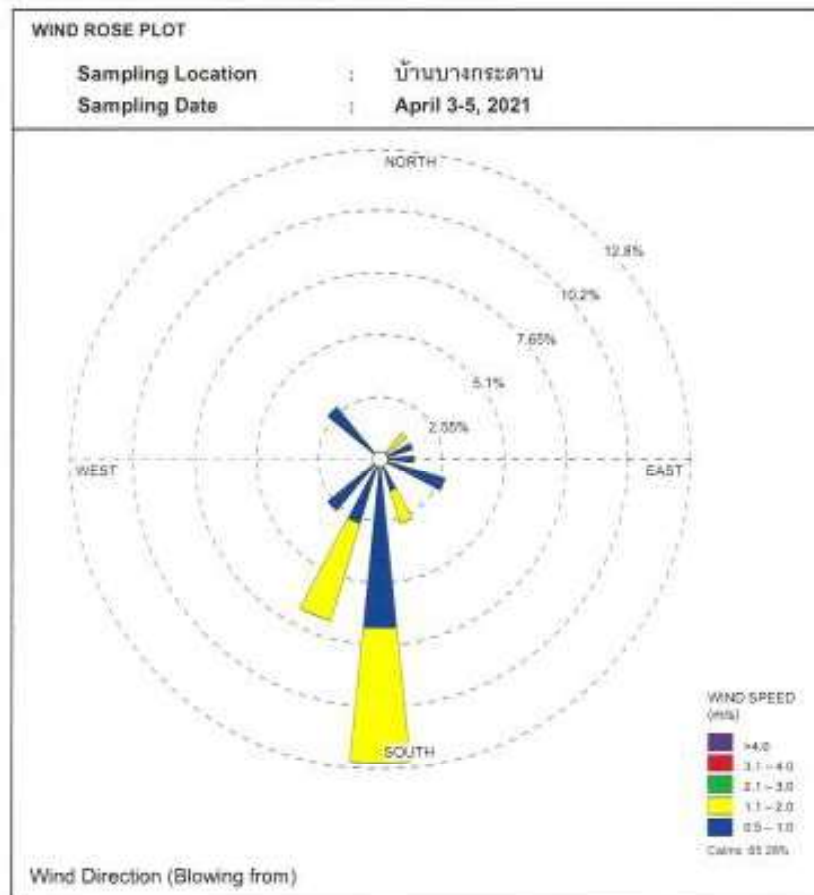
Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
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ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านบางกระดาน
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : April 3-5, 2021
SAMPLING BY : Oran Boonphan



(Thiraporn Pongmanee)
 Technical Manager

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E 230407

ระดับเสียงทั่วไป (Leq-24 hr)

Report No. : 2021-5001408_1 / 002-1 (Page 1 of 1)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : Khun Bodin Thaiyim
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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Noise Level
MEASUREMENT DATE : April 3-5, 2021
MEASUREMENT LOCATION : พื้นที่โครงการ
MEASUREMENT BY : Oran Boonphan
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81969,
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.7 dB(A), Post Cal. : 93.7 dB(A)
SOUND LEVEL METER NO. : Model CR:171B, Cirrus Research plc, Serial No. G068723

Time	Noise Level [dB(A)]									Standard ¹⁾
	April 3, 2021			April 4, 2021			April 5, 2021			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00-01:00	46.5	68.5	42.4	55.4	70.7	54.1	51.0	59.9	49.1	
01:00-02:00	44.4	60.4	42.2	55.0	70.0	53.9	50.7	61.5	48.8	
02:00-03:00	45.3	64.7	42.3	54.4	62.9	54.0	51.1	67.0	48.8	
03:00-04:00	44.1	58.0	42.1	54.3	59.2	53.8	51.2	61.8	49.0	
04:00-05:00	44.4	58.9	41.8	54.2	57.3	53.7	51.8	57.1	50.5	
05:00-06:00	49.4	66.5	41.8	54.4	59.2	53.8	51.9	60.1	49.7	
06:00-07:00	50.7	73.3	42.5	54.6	61.9	53.6	52.9	67.8	50.0	
07:00-08:00	51.5	66.2	43.5	54.8	62.9	53.5	53.8	68.0	50.1	
08:00-09:00	53.4	68.8	44.0	55.7	69.9	53.7	54.2	64.7	51.1	
09:00-10:00	56.5	72.6	50.7	58.4	69.2	54.9	54.4	69.0	50.4	
10:00-11:00	56.5	70.3	53.5	57.4	66.1	53.2	55.6	63.0	54.0	
11:00-12:00	56.3	72.6	53.0	54.8	67.6	51.7	56.1	69.6	54.1	
12:00-13:00	56.9	77.2	52.9	55.5	74.6	52.0	56.3	64.1	54.4	
13:00-14:00	55.0	68.1	53.2	59.7	78.9	51.4	55.9	63.8	54.5	
14:00-15:00	55.3	69.5	53.0	53.6	68.4	49.8	56.4	64.8	54.4	
15:00-16:00	54.9	70.4	53.0	51.7	62.6	48.7	55.6	63.9	54.1	
16:00-17:00	55.4	73.4	53.6	52.6	65.4	49.1	56.0	68.7	54.1	
17:00-18:00	56.5	71.5	53.9	53.0	68.7	49.8	66.5	94.6	55.7	
18:00-19:00	56.1	67.5	54.3	55.0	71.7	49.5	75.9	100.0	56.8	
19:00-20:00	55.3	63.7	54.0	53.3	71.5	49.3	56.3	65.5	55.4	
20:00-21:00	56.7	72.1	53.9	52.1	64.8	50.0	57.7	63.1	56.0	
21:00-22:00	55.4	70.9	54.0	51.4	58.4	50.0	56.3	63.9	55.3	
22:00-23:00	55.0	65.4	54.0	51.4	67.9	48.9	56.0	69.0	55.1	
23:00-00:00	54.6	60.7	54.1	51.4	63.3	49.7	55.6	62.2	55.0	
Leq 24 hrs	54.3	-	-	54.9	-	-	63.2	-	-	70
Ldn	58.0	-	-	60.7	-	-	64.4	-	-	-
Lmax	-	77.2	-	-	78.9	-	-	100.0	-	115

Source : ¹⁾ Notification of the National Environment Board No.15, B.E. 2540 (1997).



(Thiraporn Pannima)
 Technical Manager

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Report No. : 2021-5001408_1 / 002-2 (Page 1 of 1)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE:** April 3-5, 2021
MEASUREMENT LOCATION : บ้านท่าโสม **MEASUREMENT BY :** Oran Boonphan
CALIBRATION DATA : Model CR-515, Cirrus Research plc, Serial No. 81969,
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.7 dB(A), Post Cal. : 93.7 dB(A)
SOUND LEVEL METER NO. : Model CR-171B, Cirrus Research plc, Serial No. G078141

Time	Noise Level [dB(A)]									Standard ¹⁾
	April 3, 2021			April 4, 2021			April 5, 2021			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00-01:00	40.2	53.1	37.5	48.0	59.6	43.6	56.6	70.7	43.8	
01:00-02:00	45.2	64.6	35.1	46.2	51.2	42.0	59.4	73.2	45.6	
02:00-03:00	41.4	56.0	37.2	48.7	67.4	40.9	56.9	73.5	46.7	
03:00-04:00	41.6	60.7	37.3	44.8	60.3	42.4	53.2	70.1	46.9	
04:00-05:00	41.4	61.5	37.2	45.7	56.8	44.0	53.7	71.0	47.9	
05:00-06:00	45.4	53.6	39.8	50.6	61.0	43.1	54.6	71.2	48.4	
06:00-07:00	48.2	68.6	38.9	47.3	67.6	39.2	51.7	76.0	42.9	
07:00-08:00	49.5	68.1	40.1	49.8	67.2	43.9	54.5	76.0	41.8	
08:00-09:00	53.4	84.1	40.1	52.8	79.2	40.9	52.4	68.8	43.0	
09:00-10:00	49.1	68.6	41.8	60.8	80.6	41.3	51.6	68.8	40.8	
10:00-11:00	50.8	69.6	40.6	56.5	71.8	42.3	49.4	69.0	40.3	
11:00-12:00	46.9	65.9	38.3	50.8	66.7	40.8	47.1	65.3	41.8	
12:00-13:00	57.7	79.7	41.4	61.2	84.5	41.7	64.4	78.1	44.9	
13:00-14:00	61.4	78.8	38.8	63.4	81.6	45.1	49.0	64.8	41.8	
14:00-15:00	48.5	64.8	38.3	49.2	66.5	41.4	49.3	60.6	43.4	
15:00-16:00	46.7	69.1	40.1	50.7	79.1	40.0	51.0	75.8	43.3	
16:00-17:00	45.1	60.9	39.7	47.7	68.3	39.2	47.5	66.7	41.6	
17:00-18:00	48.0	64.9	39.3	45.8	60.6	39.1	50.4	76.2	40.2	
18:00-19:00	46.8	62.3	37.2	48.3	64.2	39.6	62.4	90.8	43.9	
19:00-20:00	46.8	58.0	42.8	68.1	94.1	47.3	45.9	64.2	37.4	
20:00-21:00	47.4	59.8	44.4	52.8	71.2	44.8	47.1	56.1	38.2	
21:00-22:00	47.3	59.1	44.4	55.3	70.0	44.7	51.2	56.3	47.3	
22:00-23:00	48.2	62.9	46.2	63.7	89.5	48.3	50.9	54.6	47.2	
23:00-00:00	46.1	65.7	42.9	57.0	72.7	47.0	48.9	57.0	43.5	
Leq 24 hrs	51.3	-	-	58.3	-	-	55.6	-	-	70
Ldn	53.9	-	-	62.8	-	-	61.6	-	-	-
Lmax	-	84.1	-	-	94.1	-	-	90.8	-	115

Source : ¹⁾ Notification of the National Environment Board No.15, B.E. 2540 (1997).



(Thepsan Yommana)
Technical Manager

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E 230409

Report No. : 2021-5001408_1 / 002-3 (Page 1 of 1)

Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : Khun Bodin Thalyim
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Noise Level
SAMPLING LOCATION : บ้านบางกะเจตนา
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81969,
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.7 dB(A), Post Cal. : 93.7 dB(A)
SOUND LEVEL METER NO. : Model CR:171B, Cirrus Research plc, Serial No. G078137

Time	Noise Level [dB(A)]									Standard ¹⁾
	April 3, 2021			April 4, 2021			April 5, 2021			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00-01:00	54.5	80.8	38.6	45.4	64.3	40.2	48.8	75.8	37.0	
01:00-02:00	46.2	71.3	35.8	43.8	63.0	39.9	42.1	61.5	37.5	
02:00-03:00	44.1	62.4	34.7	45.0	65.3	38.8	41.8	62.5	37.2	
03:00-04:00	44.8	62.0	35.9	41.4	58.7	35.5	45.0	66.9	38.9	
04:00-05:00	46.7	64.9	36.7	45.4	62.9	36.0	46.0	67.8	38.5	
05:00-06:00	52.4	77.0	40.1	52.5	72.3	39.6	51.1	64.9	43.6	
06:00-07:00	59.1	81.9	43.9	55.4	72.1	43.5	56.3	71.4	46.1	
07:00-08:00	57.3	74.8	44.8	57.9	75.9	44.5	57.6	76.1	47.4	
08:00-09:00	55.8	72.4	43.2	58.4	73.8	48.0	57.4	77.9	47.1	
09:00-10:00	57.1	77.4	46.2	65.3	75.4	51.8	56.8	73.4	45.5	
10:00-11:00	57.7	75.5	45.3	63.4	71.3	53.0	56.8	72.3	43.9	
11:00-12:00	57.3	77.3	42.6	59.0	78.7	47.5	57.1	76.6	45.4	
12:00-13:00	63.5	85.9	42.1	57.5	71.7	46.5	57.3	75.4	44.6	
13:00-14:00	56.1	71.8	42.7	61.6	80.2	47.4	55.6	68.5	43.7	
14:00-15:00	55.4	75.9	41.6	57.6	79.5	44.7	55.8	74.8	43.2	
15:00-16:00	57.3	84.2	41.5	57.1	76.8	43.3	58.1	82.1	43.9	
16:00-17:00	54.9	70.7	41.6	55.7	69.3	45.2	56.0	77.1	44.3	
17:00-18:00	57.6	84.9	43.8	56.4	75.2	43.9	56.9	77.9	44.0	
18:00-19:00	57.1	74.6	44.4	57.5	78.8	44.7	61.8	77.9	47.1	
19:00-20:00	54.8	75.5	43.0	54.3	74.0	44.7	55.9	73.4	46.7	
20:00-21:00	51.6	70.1	41.5	52.9	71.9	42.5	52.1	73.2	43.3	
21:00-22:00	54.5	82.1	40.8	50.0	69.4	41.4	50.0	70.4	40.0	
22:00-23:00	50.4	74.1	40.6	53.9	81.4	40.0	50.8	78.5	38.7	
23:00-00:00	48.4	73.5	39.8	49.8	78.8	38.4	50.0	73.8	38.6	
Leq 24 hrs	56.1	-	-	57.6	-	-	55.5	-	-	70
Ldn	60.0	-	-	59.8	-	-	58.5	-	-	-
Lmax	-	85.9	-	-	81.4	-	-	82.1	-	115

Source : Notification of the National Environment Board No.15, B.E. 2540 (1997)

(Thiraporn Kinnana)
 Technical Manager

TY/OJ/STT/STT

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ความสั่นสะเทือน

Report No. : 2021-5001408_1 / 003-1 (Page 1 of 2) **Issued date : April 29, 2021**

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : Khun Bodin Thaiyim
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Vibration **SAMPLING DATE :** April 3-5, 2021
SAMPLING LOCATION : ขอบสนามบินตำแหน่งที่เครื่องบิน **SAMPLING BY :** Oran Boonphan
 และพื้นทางวิ่งขณะบินลง (UTM 48 P 208660 E, 1358656 N)

Date	Time	Transverse			Vertical			Longitudinal		
		PPV (mm/s)	Frequency (Hz)	PD (mm)	PPV (mm/s)	Frequency (Hz)	PD (mm)	PPV (mm/s)	Frequency (Hz)	PD (mm)
April 3, 2021	-	<0.254	N/A	N/A	<0.254	N/A	N/A	<0.254	N/A	N/A
April 4, 2021	-	<0.254	N/A	N/A	<0.254	N/A	N/A	<0.254	N/A	N/A
April 5, 2021	-	<0.254	N/A	N/A	<0.254	N/A	N/A	<0.254	N/A	N/A
Standard^{1), 2)}	-	-	-	-	-	-	-	-	-	-

Remarks : - N/A = Not Applicable
 - PPV = Peak Particle Velocity
 - PD = Peak Displacement

Sources : ¹⁾ Notification of the National Environmental Board. No. 37, 2553 (B.E. 2010).
²⁾ Peak Component Velocity (mm/s) at Foundation for Short-Term Vibration (DIN 4150).

(Thepsan Ponnimana)
 Technical Manager

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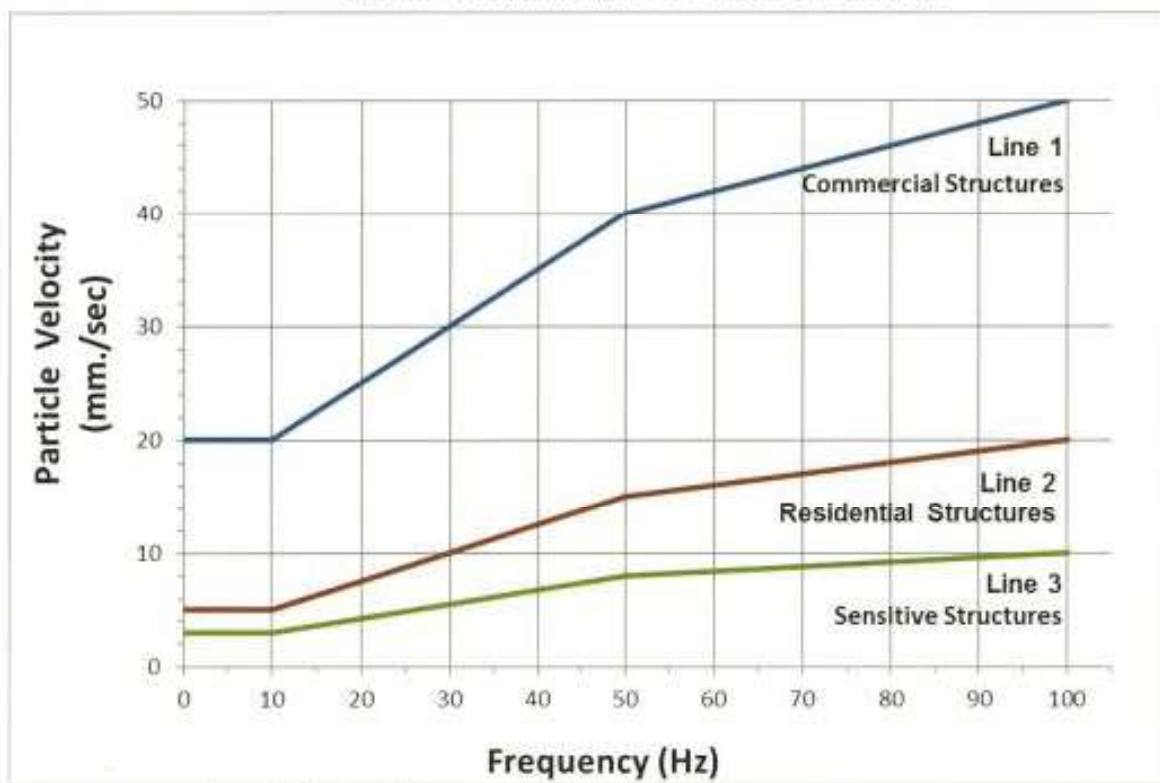
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Report No. : 2021-5001408_1 / 003-1 (Page 2 of 2) Issued date : April 29, 2021

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
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ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Vibration **SAMPLING DATE :** April 3-5, 2021
SAMPLING LOCATION : ซอยสนามบินตำแหน่งที่เครื่องบิน
SAMPLING BY : Oran Boonphan
 แผนที่ทางวิ่งขบวนบินลง (UTM 48 P 208660 E, 1358656 N)



- หมายเหตุ**
- เส้นที่ 1 = ค่าการสั่นไหวที่มาตรฐานซึ่งใช้กันโดยทั่วไปสำหรับการพาณิชย์
 - เส้นที่ 2 = ค่าการสั่นไหวที่มาตรฐานซึ่งใช้กันโดยทั่วไปสำหรับอาคารพาณิชย์
 - เส้นที่ 3 = ค่าการสั่นไหวที่มาตรฐานซึ่งใช้กันโดยทั่วไปสำหรับอาคารที่มีความละเอียดอ่อน
 - ค่าขีดจำกัดการสั่นไหวที่มาตรฐานซึ่งใช้กันโดยทั่วไปสำหรับอาคารที่มีความละเอียดอ่อน (ISO 2631-1:1997)
- ที่มา**
- ข้อมูลการสั่นไหวที่มาตรฐานซึ่งใช้กันโดยทั่วไปสำหรับอาคารที่มีความละเอียดอ่อน (ISO 2631-1:1997) และมาตรฐาน ISO 2631-1:1997
 - ข้อมูลการสั่นไหวที่มาตรฐานซึ่งใช้กันโดยทั่วไปสำหรับอาคารที่มีความละเอียดอ่อน (ISO 2631-1:1997) และมาตรฐาน ISO 2631-1:1997
 - ข้อมูลการสั่นไหวที่มาตรฐานซึ่งใช้กันโดยทั่วไปสำหรับอาคารที่มีความละเอียดอ่อน (ISO 2631-1:1997) และมาตรฐาน ISO 2631-1:1997



(Thespa Punnana)
 Technical Manager

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คุณภาพน้ำผิวดิน

Report No. : 2021-5001408_1 / 007-1 (Page 1 of 1)

Issued date: June 16, 2021

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : Khun Bodin Thaiyim
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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality Analysis
SAMPLING LOCATION : ที่วัดวังปลาต้นน้ำก่อนผ่านพื้นที่โครงการ
 (UTM 48P 0209027E, 1358705N)
 Trat Airport, Trat Province
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : June 4, 2021
SAMPLING TIME : 10:20
SAMPLING BY : Chalermwut Phunikom

Parameter	Unit	Method	Analytical Value	Standard ^{1/}
Temperature	°C	APHA, 2550 B	29.73	-
pH	-	APHA, 4500-H ⁺ B	6.1	5.0-9.0
Turbidity	NTU	APHA, 2130 B	5.0	-
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	4.6	Not less than 4.0
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	1.5	Not more than 2.0
Suspended Solids (SS)	mg/l	APHA, 2540 D	2.5	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	10	-
Chloride (Cl)	mg/l	APHA, 4500-Cl D	4	-
Nitrate (as N)	mg/l	APHA, 4500-NO ₃ E	0.257	Not more than 5.0
Total Coliform Bacteria	MPN/100ml	APHA, 9221 B	350	Not more than 20,000
Fecal Coliform Bacteria	MPN/100ml	APHA, 9221 E	33	Not more than 4,000

Remark : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF.

Standard : ^{1/} Notification of the National Environment Board No. 8, B.E. 2537 (1994), which was issued under the Enhancement and Conservation of National Environmental Quality Act B.E. 2535 (1992) dated January 20, B.E. 2537 (1994) Class 3 Moderately clean fresh surface water resources use for:
 (1) Consumption, but the water should be treated before use.
 (2) Agriculture.



(Thepsan Yommana)
 Technical Manager



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Report No. : 2021-5001408_1 / 007-2 (Page 1 of 1)

Issued date: June 16, 2021

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
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ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality Analysis
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดหลังผ่านพื้นที่โครงการ)
 (UTM 48P 0208737E, 1359034N)
 Trat Airport, Trat Province
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : June 4, 2021
SAMPLING TIME : 11:00
SAMPLING BY : Chalermwut Phunikom

Parameter	Unit	Method	Analytical Value	Standard ^{1/}
Temperature	°C	APHA, 2550 B	31.03	-
pH	-	APHA, 4500-H ⁺ B	5.5	5.0-9.0
Turbidity	NTU	APHA, 2130 B	2.9	-
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	6.7	Not less than 4.0
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	1.5	Not more than 2.0
Suspended Solids (SS)	mg/l	APHA, 2540 D	3.5	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	14	-
Chloride (Cl)	mg/l	APHA, 4500-Cl D	4	-
Nitrate (as N)	mg/l	APHA, 4500-NO ₃ E	N.D.	Not more than 5.0
Total Coliform Bacteria	MPN/100ml	APHA, 9221 B	350	Not more than 20,000
Fecal Coliform Bacteria	MPN/100ml	APHA, 9221 E	33	Not more than 4,000

Remark : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF.

- N.D. = Not Detected; Detection limit for Nitrate < 0.02 mg/l

Standard : ^{1/} Notification of the National Environment Board No. 8, B.E. 2537 (1994), which was issued under the Enhancement and Conservation of National Environmental Quality Act B.E. 2535 (1992) dated January 20, B.E. 2537 (1994) Class 3 Moderately clean fresh surface water resources use for:
 (1) Consumption, but the water should be treated before use.
 (2) Agriculture.



(Thepsan Yommana)
 Technical Manager



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Report No. : 2021-5001408_1 / 007-3 (Page 1 of 1)

Issued date: June 16, 2021

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : Khun Bodin Thaiyim
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 Tel: 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality Analysis
SAMPLING LOCATION : ดักชุมชนแสง (ในจุดก่อนผ่านพื้นที่โครงการ)
 (UTM 48P 0207851E, 1357800N)
 Trat Airport, Trat Province
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : June 4, 2021
SAMPLING TIME : 09:40
SAMPLING BY : Chalermwut Phunikom

Parameter	Unit	Method	Analytical Value	Standard ¹⁾
Temperature	°C	APHA, 2550 B	31.10	-
pH	-	APHA, 4500-H ⁺ B	6.4	5.0-9.0
Turbidity	NTU	APHA, 2130 B	13	-
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	6.6	Not less than 4.0
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	2.0	Not more than 2.0
Suspended Solids (SS)	mg/l	APHA, 2540 D	6.5	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	14	-
Chloride (Cl)	mg/l	APHA, 4500-Cl D	5	-
Nitrate (as N)	mg/l	APHA, 4500-NO ₃ E	0.250	Not more than 5.0
Total Coliform Bacteria	MPN/100ml	APHA, 9221 B	2,200	Not more than 20,000
Fecal Coliform Bacteria	MPN/100ml	APHA, 9221 E	1,400	Not more than 4,000

Remark : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF.

Standard : ¹⁾ Notification of the National Environment Board No. 8, B.E. 2537 (1994), which was issued under the Enhancement and Conservation of National Environmental Quality Act B.E. 2535 (1992) dated January 20, B.E. 2537 (1994) Class 3 Moderately clean fresh surface water resources use for:
 (1) Consumption, but the water should be treated before use.
 (2) Agriculture.



(Thepsan Yommana)
 Technical Manager



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Report No. : 2021-5001408_1 / 007-4 (Page 1 of 1)

Issued date: June 16, 2021

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
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ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality Analysis
SAMPLING LOCATION : ห้วยขุมแดง (ในจุดหลังผ่านพื้นที่โครงการ)
 (UTM 48P 0207629E, 1357924N)
 Trat Airport, Trat Province
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : June 4, 2021
SAMPLING TIME : 12:00
SAMPLING BY : Chalermwut Phunikom

Parameter	Unit	Method	Analytical Value	Standard ^{1/}
Temperature	°C	APHA, 2550 B	29.52	-
pH	-	APHA, 4500-H* B	5.5	5.0-9.0
Turbidity	NTU	APHA, 2130 B	11	-
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	6.8	Not less than 4.0
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	0.5	Not more than 2.0
Suspended Solids (SS)	mg/l	APHA, 2540 D	4.5	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	11	-
Chloride (Cl)	mg/l	APHA, 4500-Cl D	4	-
Nitrate (as N)	mg/l	APHA, 4500-NO ₃ E	0.032	Not more than 5.0
Total Coliform Bacteria	MPN/100ml	APHA, 9221 B	1,300	Not more than 20,000
Fecal Coliform Bacteria	MPN/100ml	APHA, 9221 E	240	Not more than 4,000

Remark : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF.

Standard : ^{1/} Notification of the National Environment Board No. 8, B.E. 2537 (1994), which was issued under the Enhancement and Conservation of National Environmental Quality Act B.E. 2535 (1992) dated January 20, B.E. 2537 (1994) Class 3 Moderately clean fresh surface water resources use for:
 (1) Consumption, but the water should be treated before use.
 (2) Agriculture.



(Thepsan Yummana)
 Technical Manager

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E 232387

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Report No. : 2021-5001408_1 / 004-1 (Page 1 of 1) Issued date : April 30, 2021

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : Khun Bodin Thaiyim
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Groundwater Quality Analysis
SAMPLING LOCATION : ปอชบาตาสโรงกรองน้ำดิบ
 (UTM 48P 208528E, 1358811N)
 Trat Airport, Trat Province
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : April 5, 2021
SAMPLING TIME : 11:15
SAMPLING BY : Oran Boonphan

Parameter	Unit	Method	Analytical Value	Standard ^{1/}	
				Suitable Value	Maximum Allowable
pH	-	APHA, 4500-H ⁺ B	7.1	7.0-8.5	6.5-9.2
Color	Pt.Co	APHA, 2120 C	Less than 1	5	15
Turbidity	NTU	APHA, 2130 B	Less than 1	5	20
Suspended Solids (SS)	mg/l	APHA, 2540 D	Less than 2.5	-	-
Conductivity	µs/cm	APHA, 2510 B	313	-	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	180	Not more than 300	500
Chloride (Cl)	mg/l	APHA, 4500-Cl D	3	Not more than 250	600
Total Kjeldahl Nitrogen (TKN)	mg/l	APHA, 4500 N _{org} B	Less than 1	-	-
Sulfate (SO ₄)	mg/l	APHA, 4500-SO ₄ E	4.7	Not more than 200	250
Nitrate (NO ₃)	mg/l	APHA, 4110 B	0.017	Not more than 45	45
Iron (Fe)	mg/l	APHA, 3125 B	0.39	Not more than 0.5	1.0
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	Less than 1.1	Less than 2.2	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 E	Less than 1.1	-	-

Remarks : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF.

- The groundwater from this source will be improved the quality before using in the airport.

Source : ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E. 2551 (2008), published in the Royal Government Gazette, Vol. 125, Special Part 85D, dated May 21, B.E. 2551 (2008)

(Thepsan Ponnirana)
 Technical Manager

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Report No. : 2021-5001408_1 / 004-2 (Page 1 of 1) Issued date : April 30, 2021

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
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 Tel. 02-265-5678 E-mail: shinchana@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Groundwater Quality Analysis
SAMPLING LOCATION : บ้านชุมแสง
 (UTM 48P 207420E, 1359494N)
 Trat Airport, Trat Province
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : April 5, 2021
SAMPLING TIME : 11:47
SAMPLING BY : Oran Boonphan

Parameter	Unit	Method	Analytical Value	Standard ^{1/}	
				Suitable Value	Maximum Allowable
pH	-	APHA, 4500-H ⁺ B	6.5	7.0-8.5	6.5-9.2
Color	Pl.Co	APHA, 2120 C	Less than 1	5	15
Turbidity	NTU	APHA, 2130 B	Less than 1	5	20
Suspended Solids (SS)	mg/l	APHA, 2540 D	Less than 2.5	-	-
Conductivity	µs/cm	APHA, 2510 B	164	-	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	68	Not more than 300	500
Chloride (Cl)	mg/l	APHA, 4500-Cl D	4	Not more than 250	600
Total Kjeldahl Nitrogen (TKN)	mg/l	APHA, 4500 N _{org} B	1.95	-	-
Sulfate (SO ₄)	mg/l	APHA, 4500-SO ₄ E	Less than 2	Not more than 200	250
Nitrate (NO ₃)	mg/l	APHA, 4110 B	0.015	Not more than 45	45
Iron (Fe)	mg/l	APHA, 3125 B	0.83	Not more than 0.5	1.0
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	Less than 1.1	Less than 2.2	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 E	Less than 1.1	-	-

Remark : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF.

Source : ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E. 2551 (2008), published in the Royal Government Gazette, Vol. 125, Special Part 85D, dated May 21, B.E. 2551 (2008).

(Thepsan Tominana)
 Technical Manager



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