

ภาคผนวก ก

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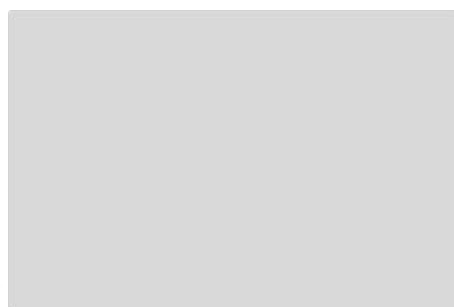
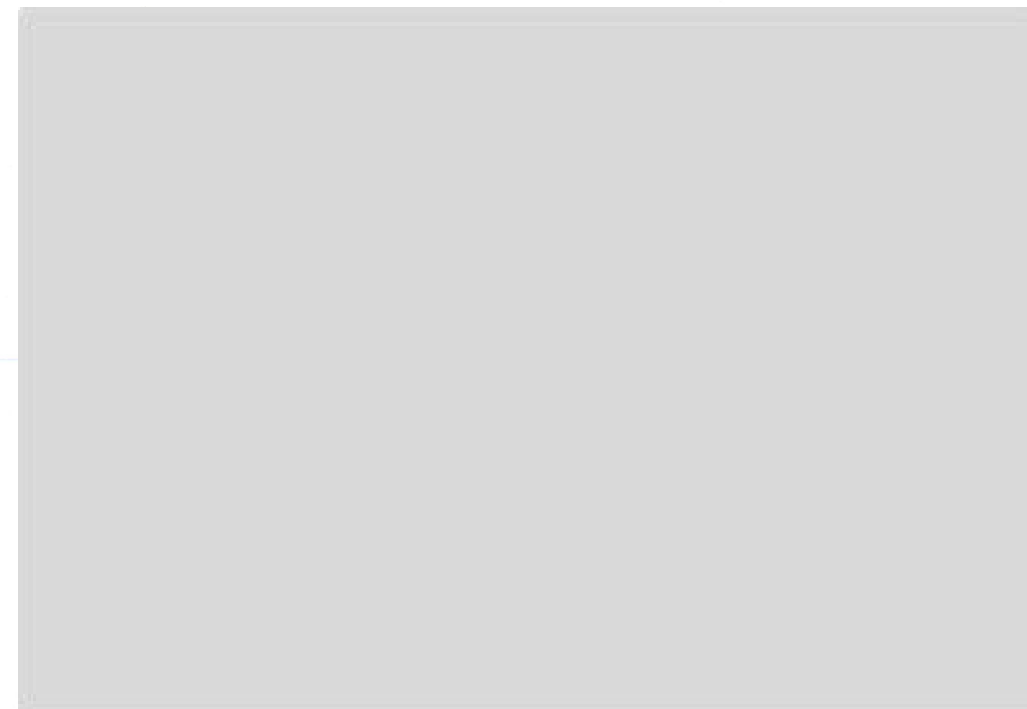
เอกสารประกอบการปฏิบัติตาม  
มาตรการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม

## ภาคผนวก ค.1

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### ผลการวิเคราะห์ห้องค์ประกอบของผงคาร์บอนแบดก





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*Unless otherwise stated the results shown in this test report refer only to the sample(s) received and such sample(s) are retained for 30 days only.*

5835914



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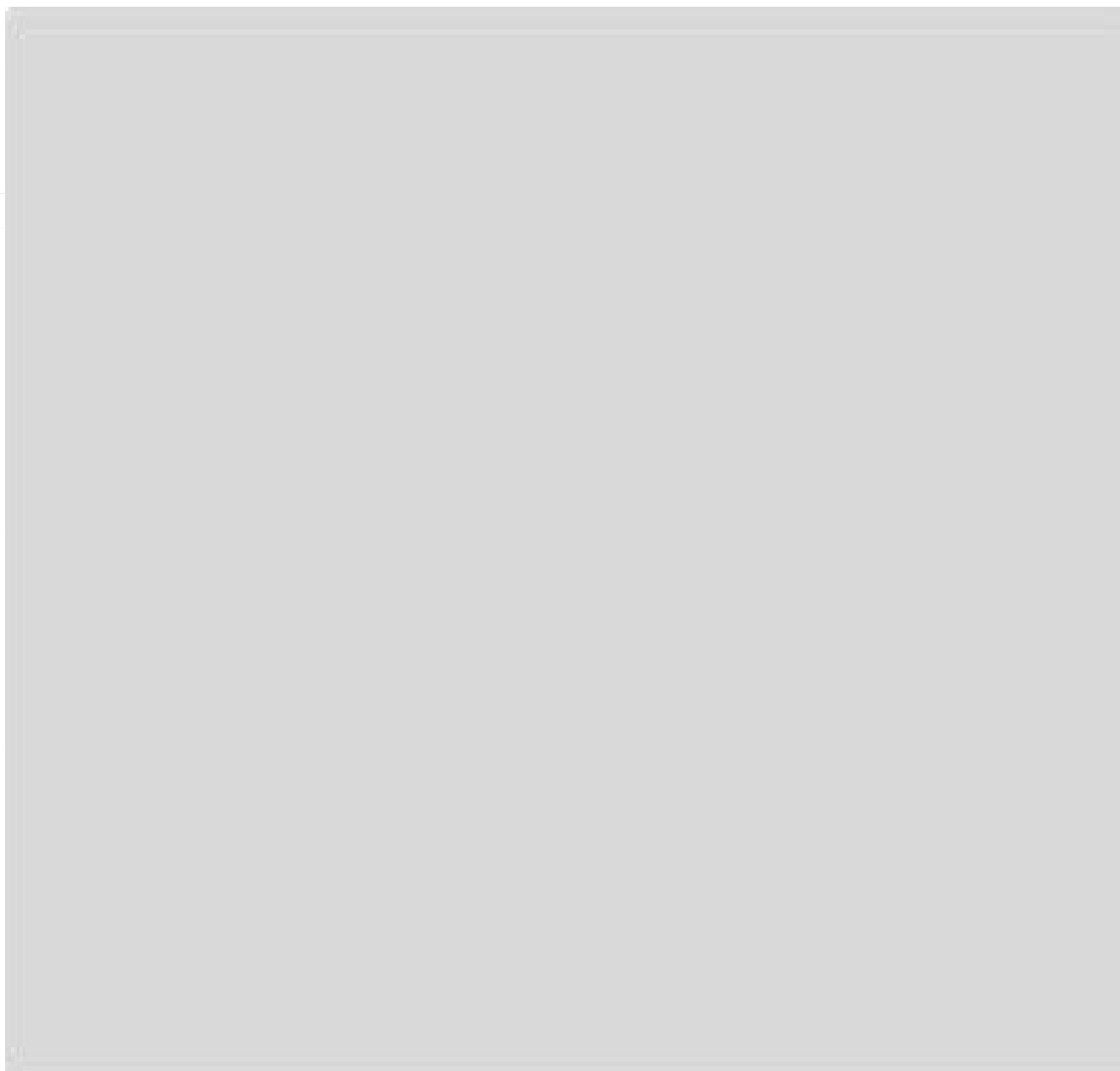
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**Test Report No.**  
**TEST RESULTS**

6134201

Date : 14-Feb-2025

Page 3 of 8



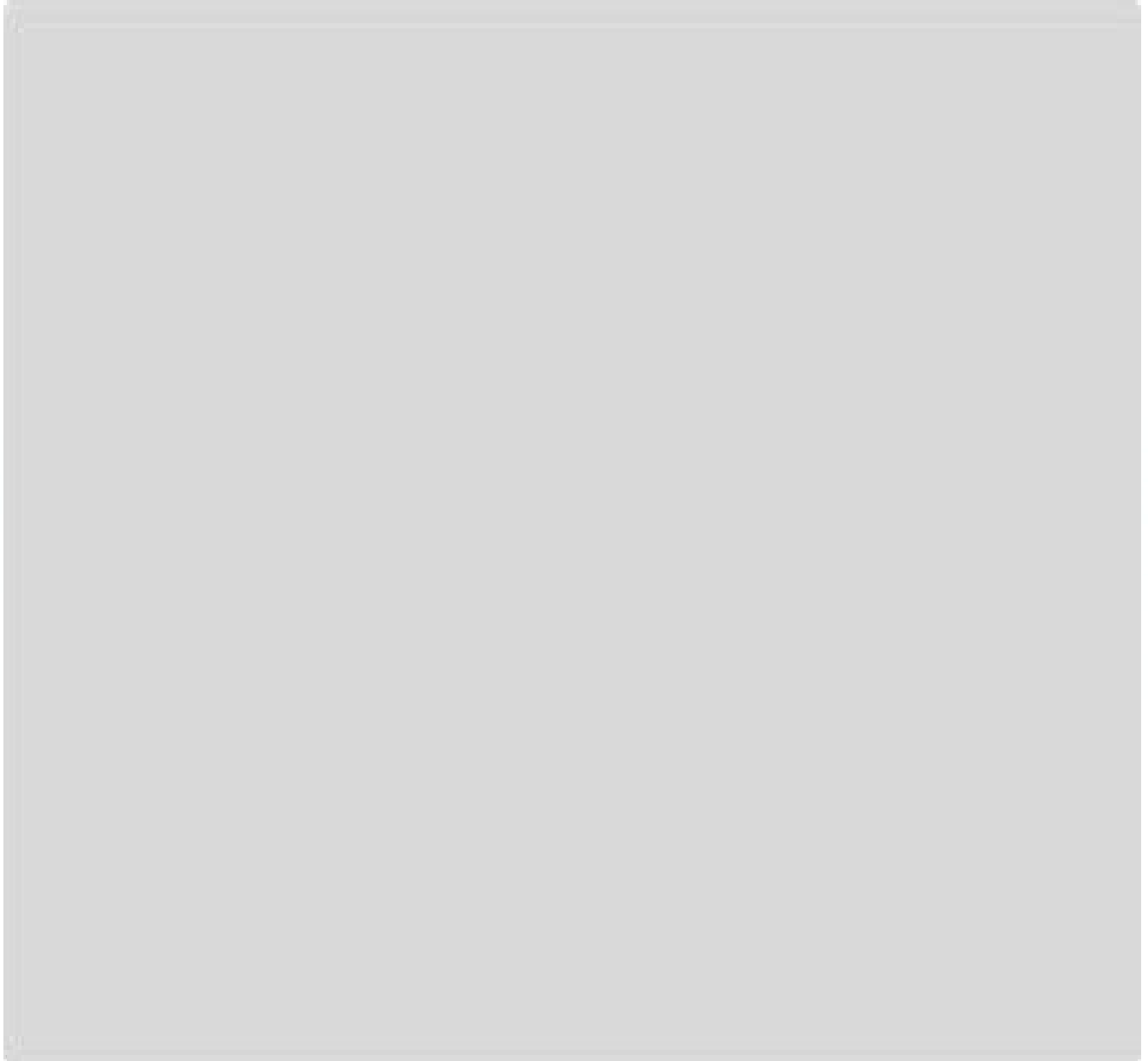
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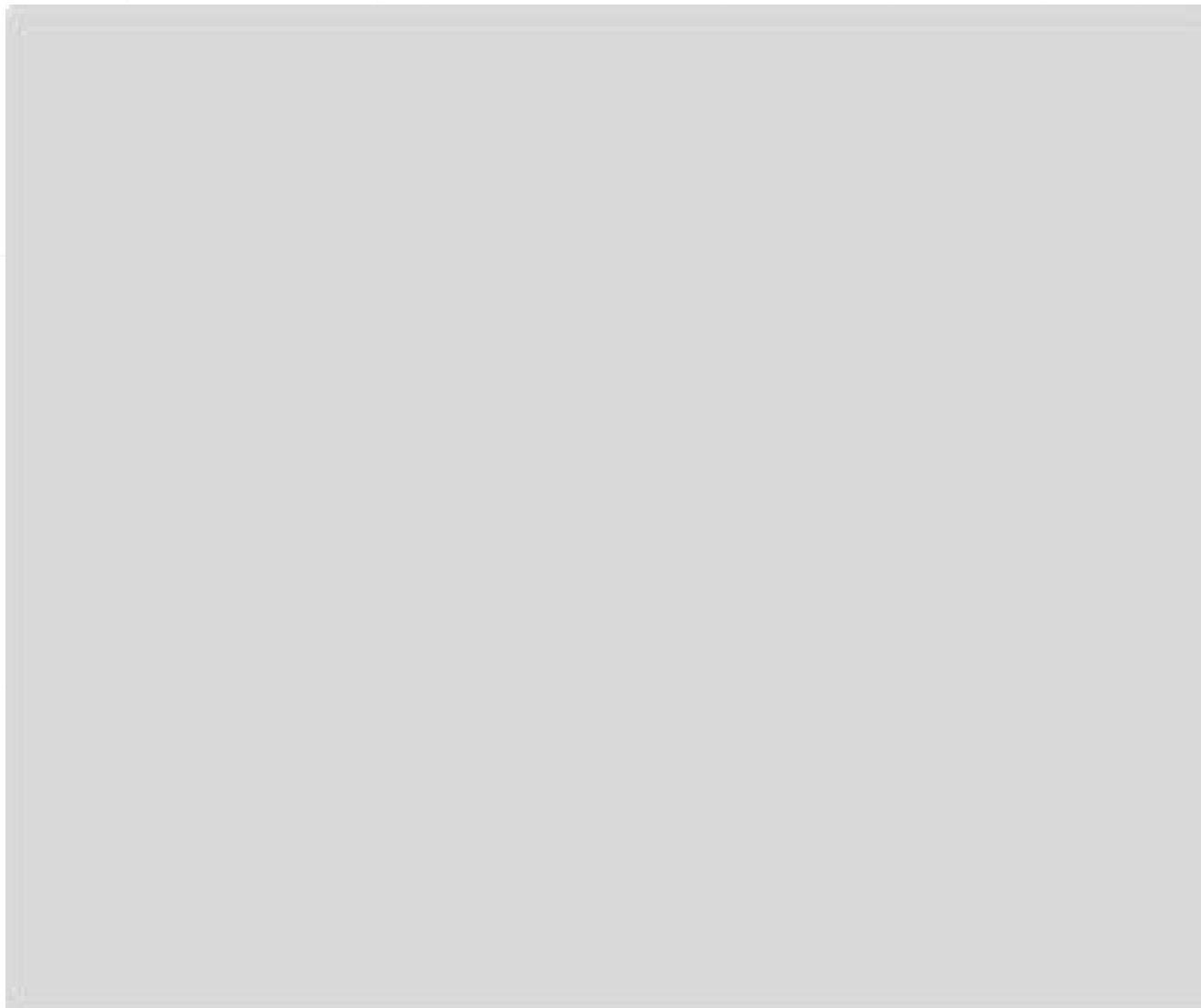
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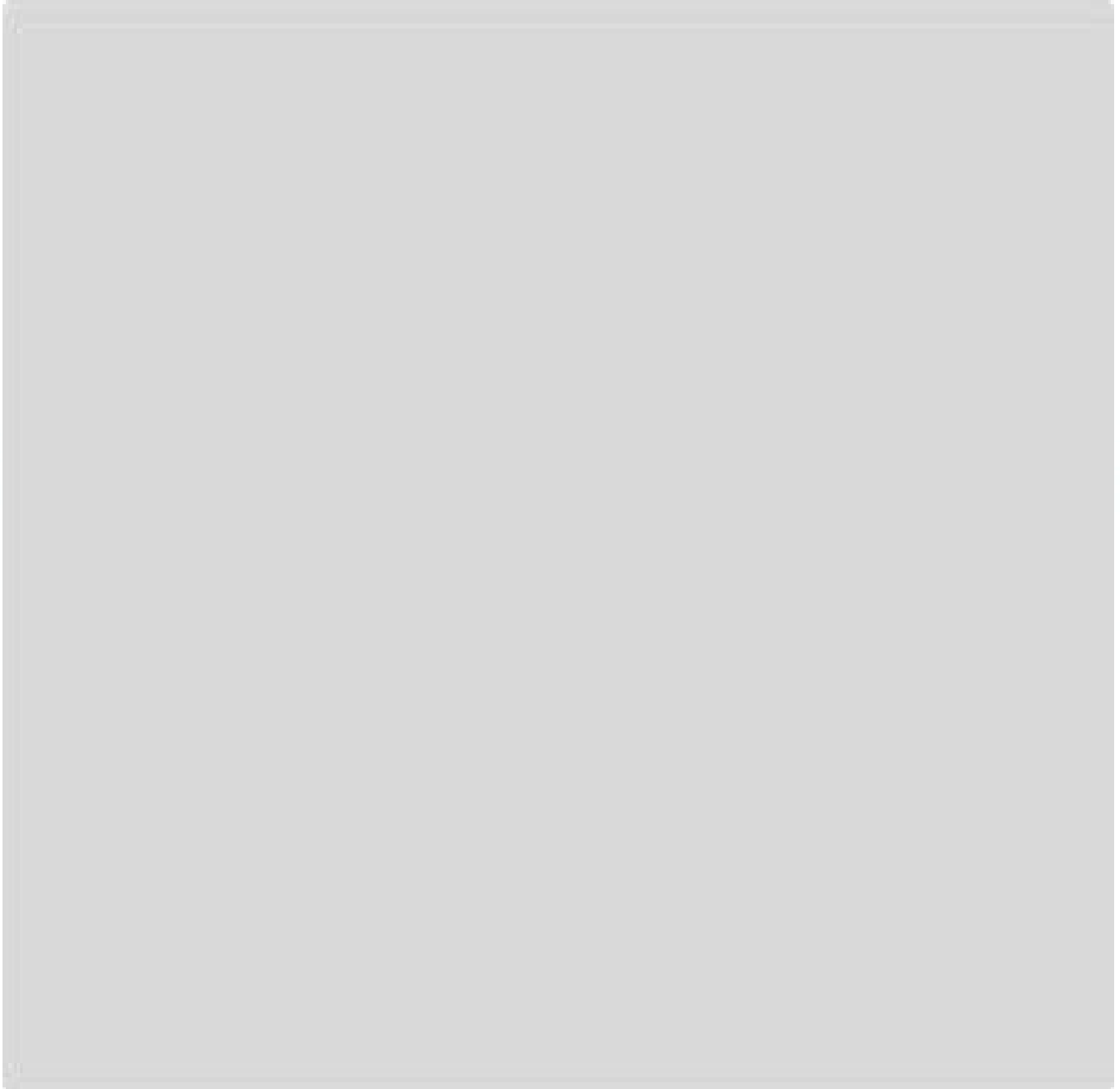
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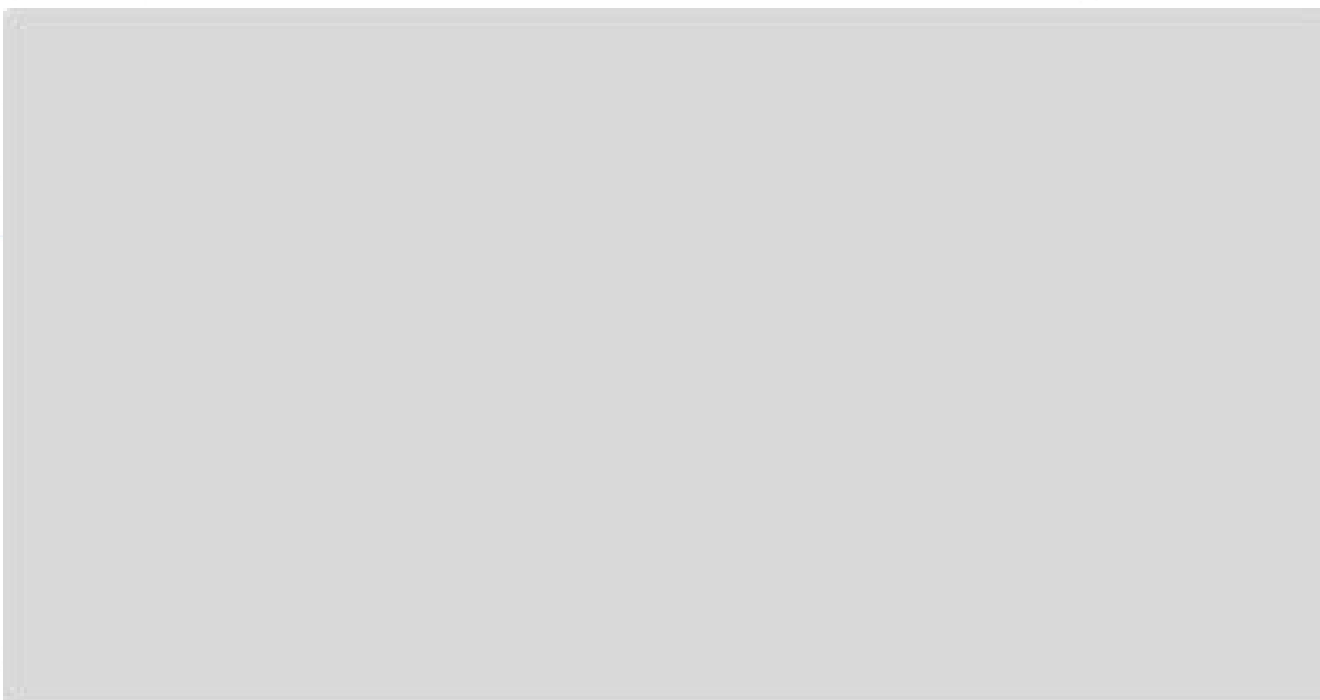
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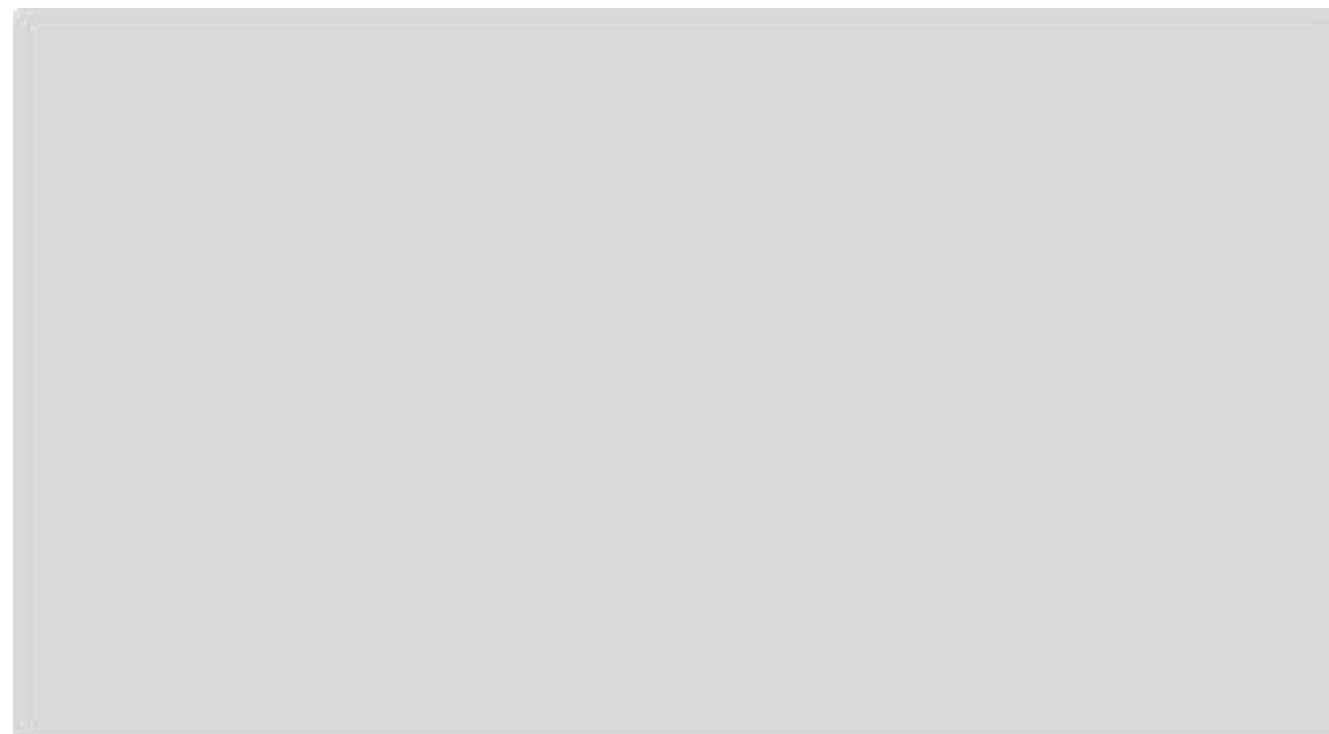


Test Report No.

6134201

Date : 14-Feb-2025

Page 8 of 8



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## ภาคผนวก ก.2

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### การตรวจสอบสภาพพนักงาน

- วิธีการปฏิบัติ เรื่อง การตรวจสอบสภาพพนักงาน  
และพนักงานผู้รับเหมา
- ผลการตรวจสอบสภาพพนักงานใหม่
- ผลการตรวจสอบสภาพทั่วไปของพนักงาน  
ประจำปี พ.ศ.2567 (ตรวจซ้ำ)
- แผนการตรวจสอบสภาพทั่วไปของพนักงาน  
ประจำปี พ.ศ.2568

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## วิธีการปฏิบัติ เรื่อง การตรวจสอบภาพพนักงาน และพนักงานผู้รับเหมา

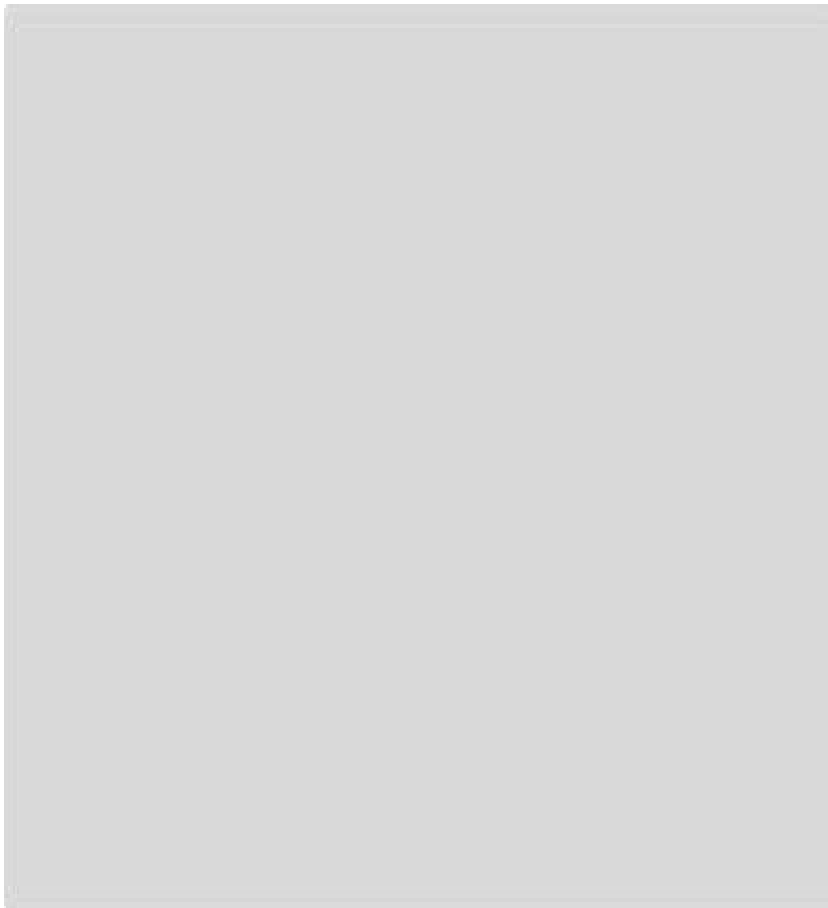


บริษัท ไทยโกลคาร์บอนโปรดักท์ จำกัด  
Thai Total Carbon Product Company Limited



A

## การตรวจสอบสภาพพนักงานและ พนักงานผู้รับเหมา



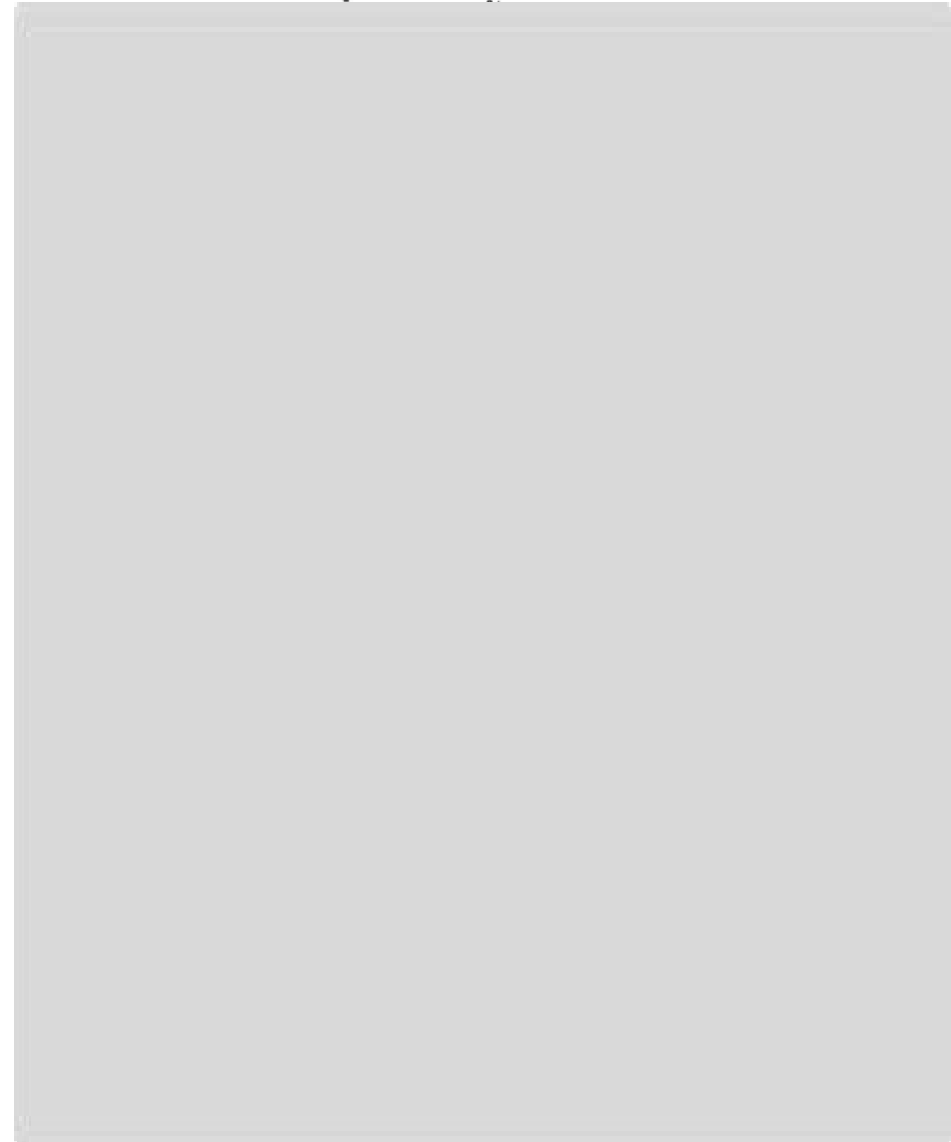
บริษัท ไทยโกลคาร์บอนโปรดักท์ จำกัด  
Thai Total Carbon Product Company Limited



|           |          |
|-----------|----------|
| ADM-FR-01 |          |
| REV. 01   | 01/12/98 |

## เอกสารไม่ควบคุม

B



|           |          |
|-----------|----------|
| ADM-FR-02 |          |
| REV. 01   | 01/12/98 |

## เอกสารไม่ควบคุม

|           |          |
|-----------|----------|
| ADM-FR-03 |          |
| REV. 01   | 01/12/98 |

## เอกสารไม่ควบคุม

D



บริษัท ไทยโกลคาร์บอนโปรดักท์ จำกัด  
Thai Total Carbon Product Company Limited



บริษัท ไทยโกลคาร์บอนโปรดักท์ จำกัด  
Thai Total Carbon Product Company Limited





บริษัท ไทยโตคาร์บอนโปรดักต์ จำกัด  
Thai Total Carbon Product Company Limited



บริษัท ไทยโตคาร์บอนโปรดักต์ จำกัด  
Thai Total Carbon Product Company Limited

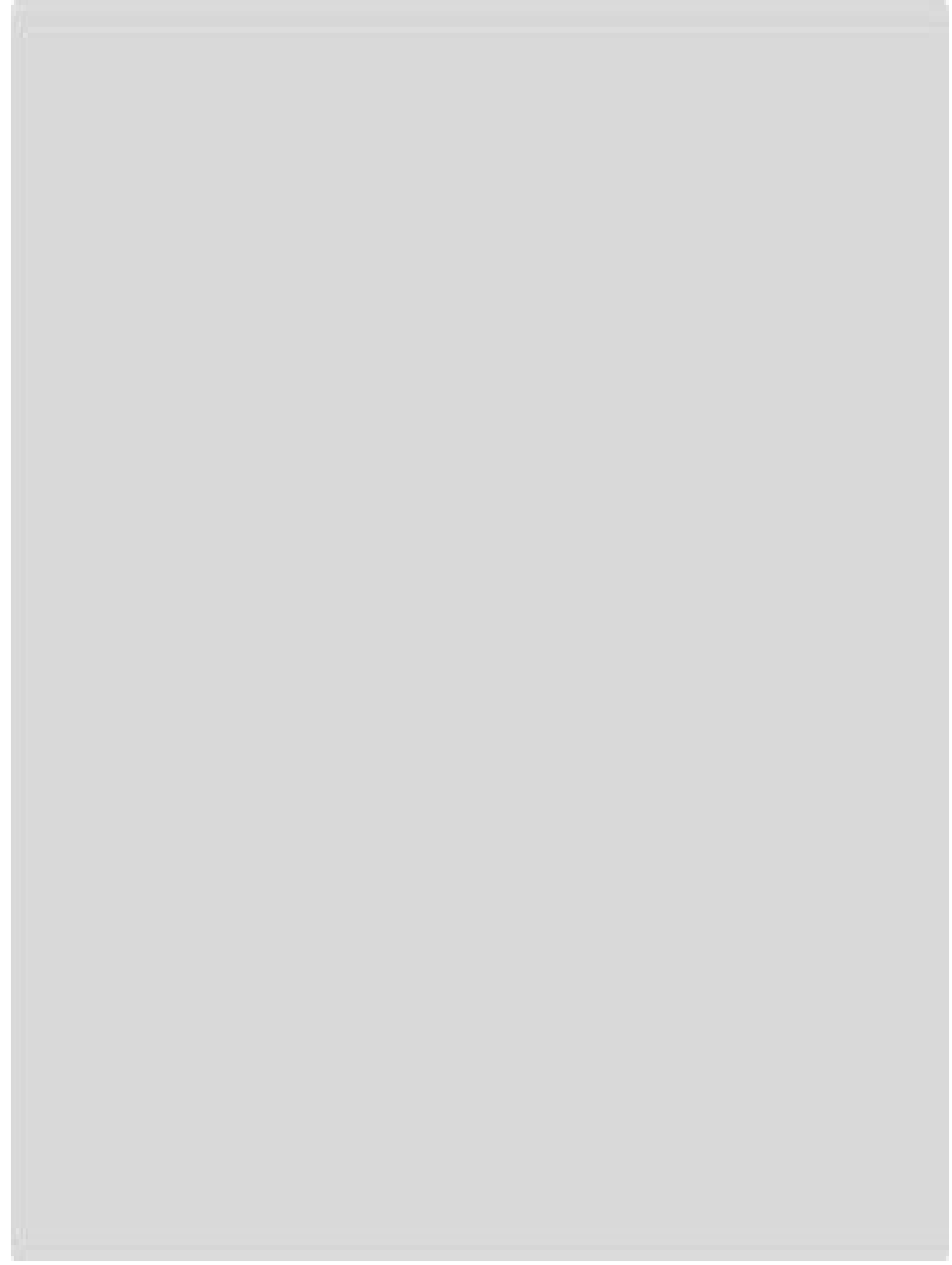
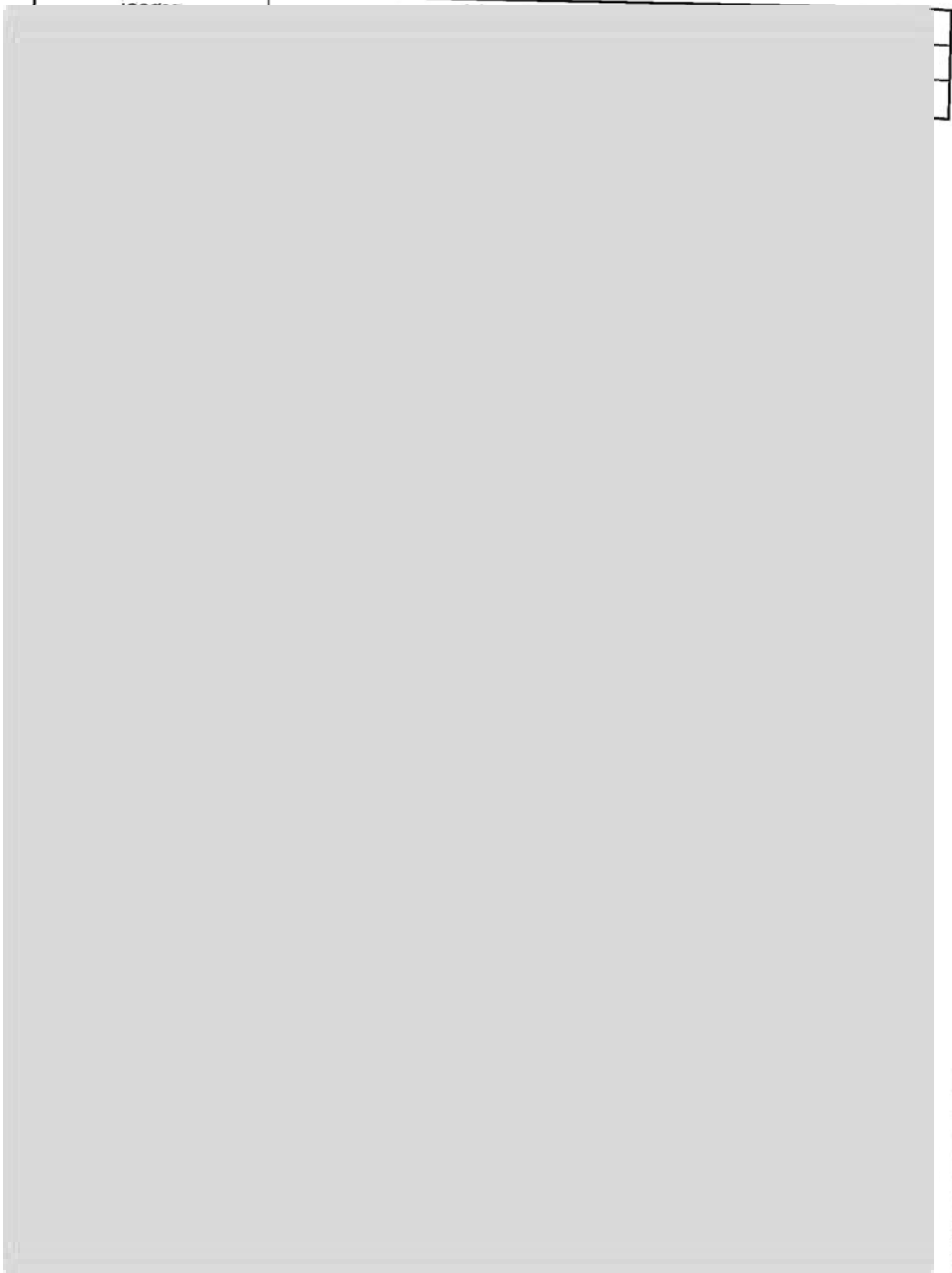




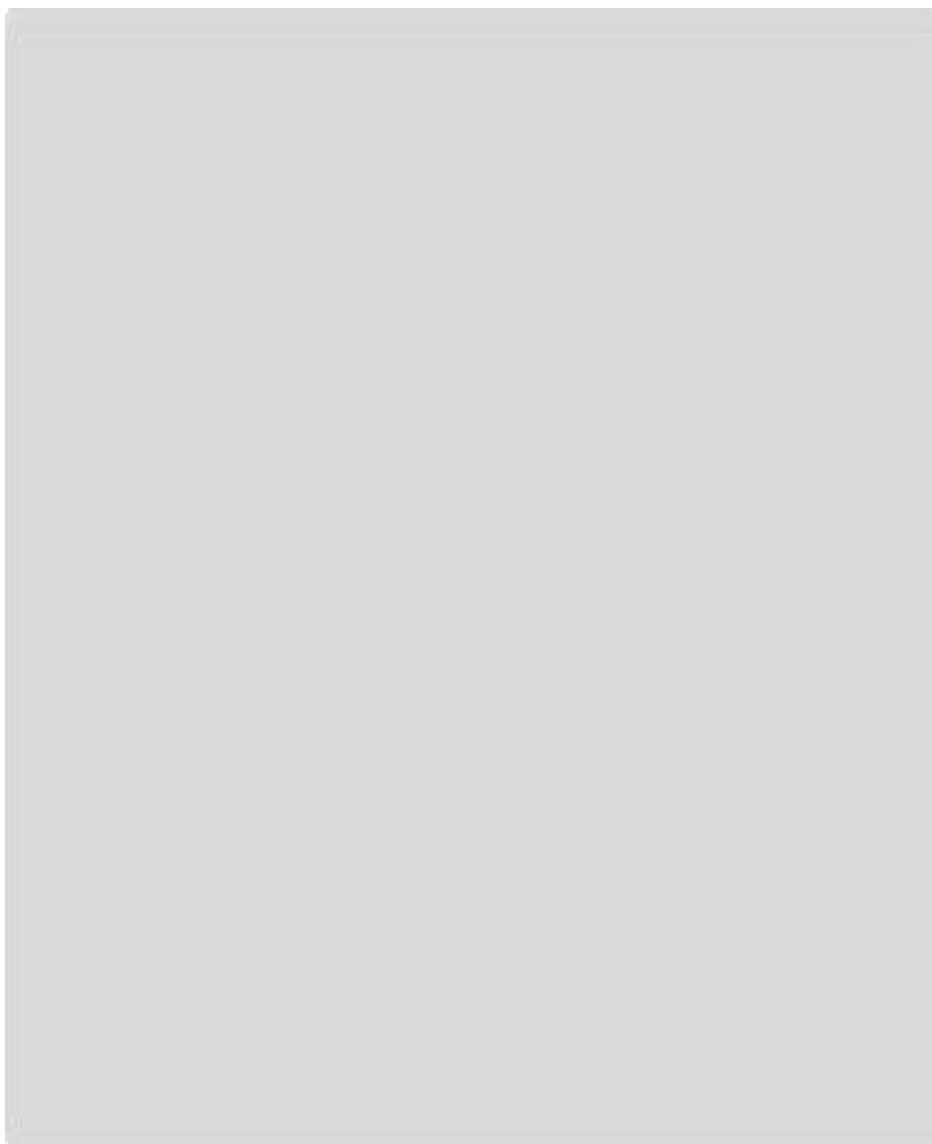
บริษัท ไทยโตคาร์บอนโปรดักท์ จำกัด  
Thai Total Carbon Product Company Limited



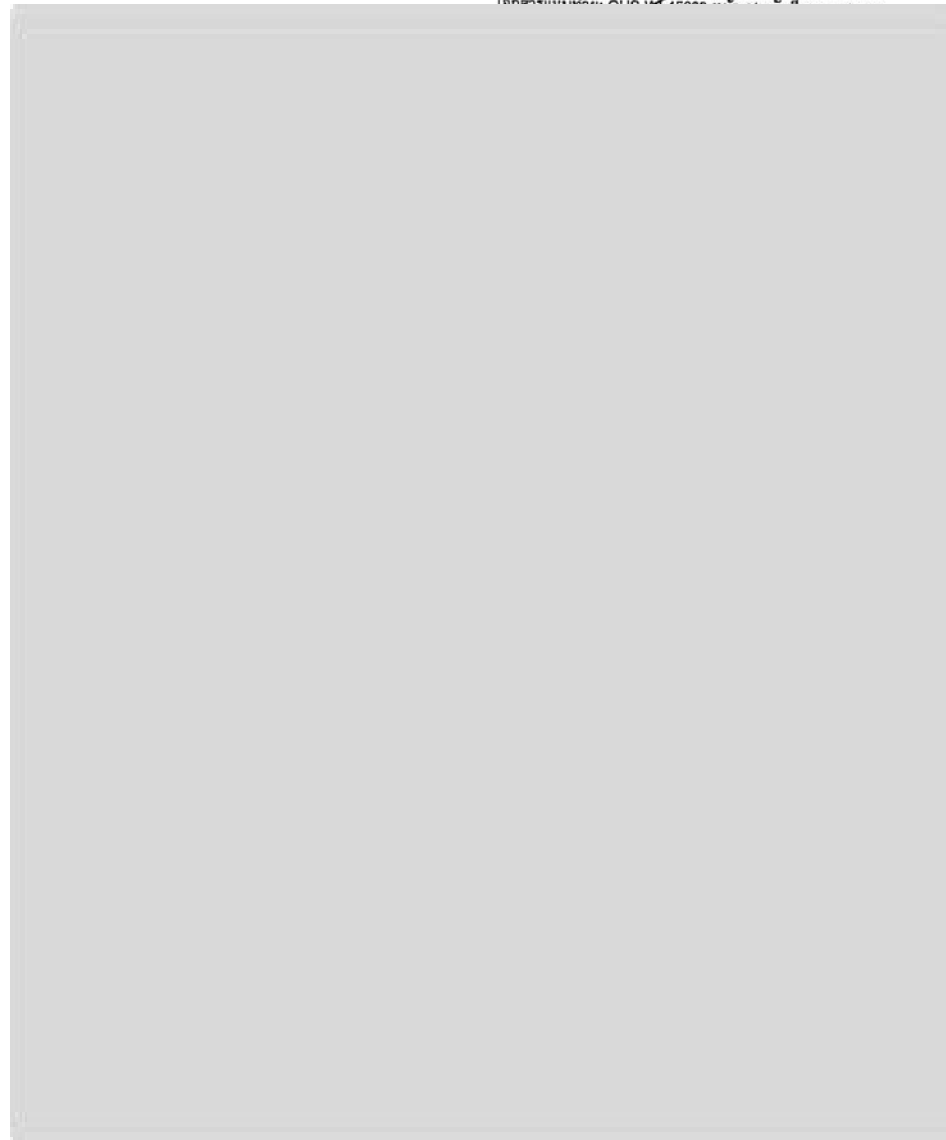
## เอกสารไม่ควบคุม



## เอกสารไม่ควบคุม

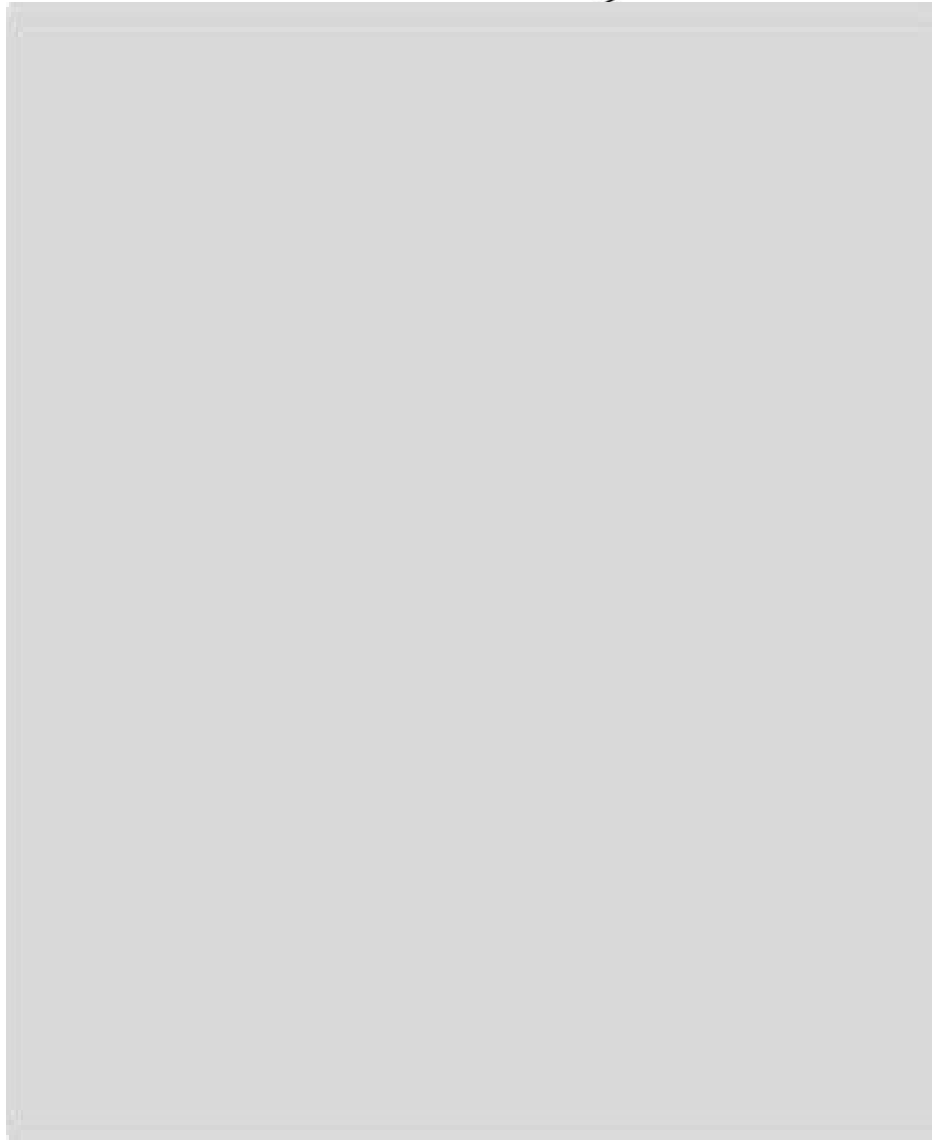


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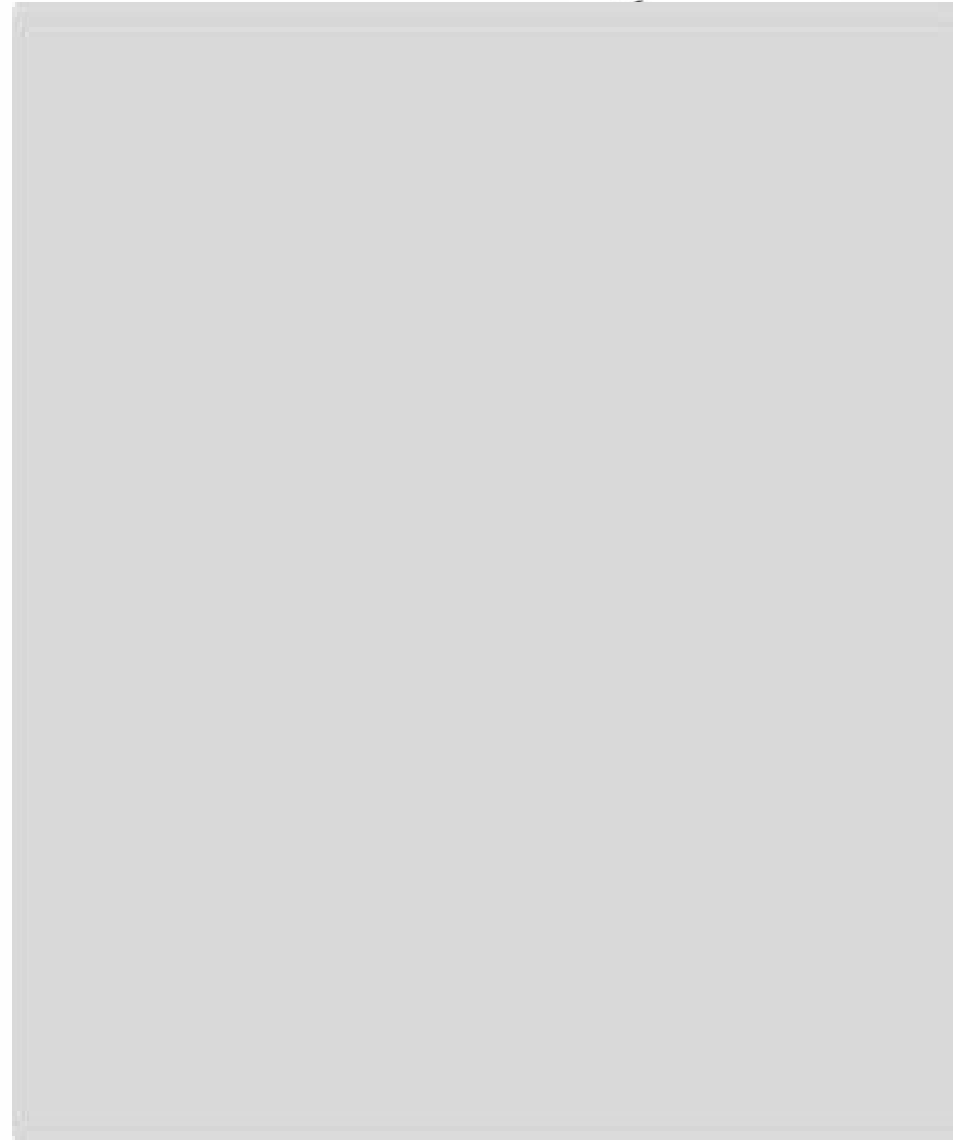




## เอกสารไม่ควบคุม



## เอกสารไม่ควบคุม



เอกสารไม่ควบคุม

เอกสารไม่ควบคุม

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## ผลการตรวจสอบภาพพนักงานใหม่









































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ผลการตรวจสอบภาพทั่วไปของพนักงาน  
ประจำปี พ.ศ.2567 (ตรวจซ้ำ)









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แผนการตรวจสอบภาพทั่วไปของพนักงาน  
ประจำปี พ.ศ.2568

| ลำดับที่                          | กิจกรรม                                                                                                       | ระยะเวลาดำเนินการ |      |      |       |       |             |       |      |      |      |                  |      |                            | ผู้รับผิดชอบ                                     | หมายเหตุ |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------|------|------|-------|-------|-------------|-------|------|------|------|------------------|------|----------------------------|--------------------------------------------------|----------|
|                                   |                                                                                                               |                   | ม.ค. | ก.พ. | มี.ค. | เม.ย. | พ.ค.        | มิ.ย. | ก.ค. | ส.ค. | ก.ย. | ต.ค.             | พ.ย. | ธ.ค.                       |                                                  |          |
| 27                                | ติดตามผลการตรวจสอบคุณภาพของผู้รับเหมาประจำ                                                                    | Plan              |      |      | ●     |       | ●           |       |      |      |      |                  | ●    | คุณวันชนะ/CMP              | บ. PPJ = มี.ค. / บ. SPP = มิ.ย.<br>บ. BSC = ธ.ค. |          |
| 28                                | การตรวจสอบภาพประจำปี                                                                                          | Plan              |      |      |       |       |             |       | ●    | ●    |      |                  |      | CAD                        |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| 29                                | ส่งแบบแจ้งผลการตรวจสอบคุณภาพที่พบความผิดปกติหรือการเจ็บป่วย<br>การให้การรักษายาบาลและการป้องกันแก้ไข (จผลส 1) | Plan              |      | ●    |       |       |             |       |      |      |      |                  |      | คุณวันชนะ/CAP              |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| 30                                | การฝึกซ้อมการฉีดโฟม                                                                                           | Plan              |      |      |       |       | ●           |       |      |      |      |                  |      | PMO                        |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| 31                                | การฝึกซ้อมแผนฉุกเฉิน<br>- กรณีถังกรองแตก                                                                      | Plan              |      |      |       |       | ●           |       |      |      |      |                  |      | PMO/CAP/คุณวันชนะ          |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| 32                                | การฝึกซ้อมอพยพหนีไฟประจำปี                                                                                    | Plan              |      |      |       |       |             | ●     |      |      |      |                  |      | คณะกรรมการความปลอดภัยฯ     |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| 33                                | ฝึกซ้อมขั้นตอนการปฏิบัติที่ถูกต้องเมื่อเกิดเหตุ<br>Oil Leak ใน OP/H                                           | Plan              |      |      | ●     |       | ●           |       |      | ●    |      |                  | ●    | PMO                        |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| 34                                | การฝึกซ้อมแผนฉุกเฉินกรณีเกิดน้ำท่วมโรงงาน                                                                     | Plan              |      |      |       |       |             |       |      |      | ●    |                  |      | PMO/PMI/PMU/ CAP/คุณวันชนะ |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| 35                                | การฝึกซ้อมฉีดน้ำดับเพลิงของทีม รปภ.                                                                           | Plan              |      | ●    |       | ●     |             | ●     |      | ●    |      | ●                | ●    | PMS                        |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| 36                                | การฝึกซ้อมฉีดน้ำดับเพลิงของทีม บรรจุ                                                                          | Plan              |      | ●    |       | ●     |             | ●     |      | ●    |      | ●                | ●    | คุณสัญญา/วัฒนา             |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| 37                                | การฝึกซ้อมแผนการปฏิบัติกรณีสารเคมีรั่วไหล,<br>ฟุ้งกระจาย, ระเบิด                                              | Plan              |      |      |       |       |             | ●     |      |      |      |                  |      | PMU                        |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| 38                                | ตรวจสอบลิฟท์ ประจำปี                                                                                          | Plan              |      |      |       | ●     |             |       |      |      |      |                  |      | PEM                        |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| 39                                | การตรวจเช็คเครื่องภายในโรงงาน                                                                                 | Plan              |      |      | ●     |       | ●           |       |      | ●    |      |                  | ●    | PEM                        |                                                  |          |
|                                   |                                                                                                               | Act.              |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |
| NOTE ✓ : DONE<br>X : NOT YET DONE |                                                                                                               | REVISION : 00     |      |      |       |       | <div></div> |       |      |      |      | APPROVED BY : PM |      |                            |                                                  |          |
| DATE : 16/12/67                   |                                                                                                               |                   |      |      |       |       |             |       |      |      |      |                  |      |                            |                                                  |          |

ภาคผนวก ก.3

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สถิติอุบัติเหตุ

ระหว่างเดือนมกราคม ถึงมิถุนายน พ.ศ.2568

รายงานสรุปการเกิดอุบัติเหตุภายในโรงงาน ปี 2568

(พนักงาน TCP)

|                           |
|---------------------------|
| OHS-FR-46302              |
| Rev : 00   Date : 10/1/98 |

| เดือน | จำนวนอุบัติเหตุ |           |     | ลักษณะการประสบอันตราย |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | หมายเหตุ                |
|-------|-----------------|-----------|-----|-----------------------|---------------|----------------|-----------------|-------------|---------------------|----------------------|-----------------------|-----------------------|---------------------|-----------|----------------|------------------------|---------------|----------|-----------------|--------------|-------------------------|
|       | อุบัติเหตุ      | เกือบเกิด | รวม | ตกจากที่สูง           | หกล้มอื่นเช่น | สิ่งของหล่นทับ | สิ่งของกระแทกชน | สิ่งของหนีบ | สิ่งของทับบาด/ตำแทง | สิ่งของกระเด็นเข้าตา | ยก/เคลื่อนย้ายของหนัก | อุบัติเหตุจากยานพาหนะ | วัตถุ/สิ่งของระเบิด | ไฟฟ้าช็อต | สัมผัสความร้อน | สัมผัสสิ่งมีพิษสารเคมี | อันตรายจากแสง | ไต่ไถมัน | อันตรายจากรังสี | อื่นๆ (ระบุ) |                         |
| ม.ค.  | 0               | 0         | 0   |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ก.พ.  | 0               | 0         | 0   |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| มี.ค. | 0               | 0         | 0   |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| เม.ย. | 0               | 0         | 0   |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| พ.ค.  | 0               | 0         | 0   |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| มิ.ย. | 0               | 0         | 0   |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ก.ค.  |                 |           |     |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ส.ค.  |                 |           |     |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ก.ย.  |                 |           |     |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ต.ย.  |                 |           |     |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| พ.ย.  |                 |           |     |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ธ.ค.  |                 |           |     |                       |               |                |                 |             |                     |                      |                       |                       |                     |           |                |                        |               |          |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| TOTAL | 0               | 0         | 0   | 0                     | 0             | 0              | 0               | 0           | 0                   | 0                    | 0                     | 0                     | 0                   | 0         | 0              | 0                      | 0             | 0        | 0               | 0            |                         |

หมายเหตุ 1. สถิติความปลอดภัยในการทำงานของพนักงาน TCP โดยไม่สูญเสียเวลาในการทำงาน ณ วันที่ 30 มิถุนายน 2568 = 776,116 ชั่วโมงคน

AFR (Accident Frequency Rate) = 

จำนวนครั้งของการเกิดอุบัติเหตุ \* 1,000,000

ชั่วโมงการทำงานทั้งสิ้นของพนักงาน

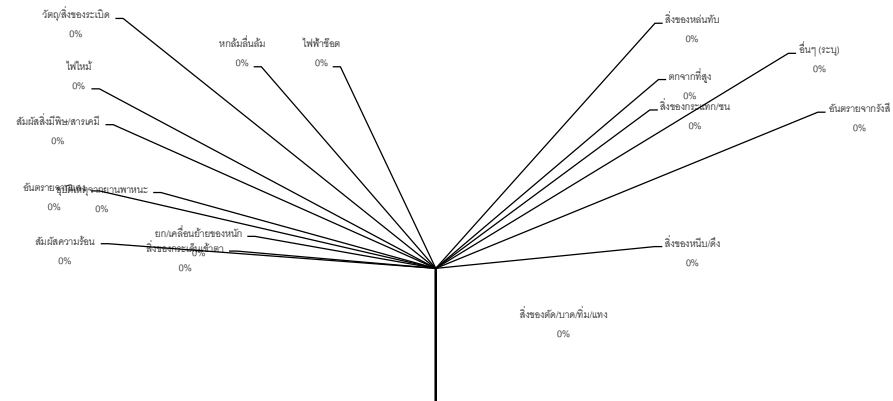
= 

0\*1,000,000

776,116

= 0 ครั้งต่อหนึ่งล้านชั่วโมงทำงาน

### ชนิดของอุบัติเหตุ



|                         |                       |                       |                     |                  |                       |
|-------------------------|-----------------------|-----------------------|---------------------|------------------|-----------------------|
| ตกจากที่สูง             | หกล้ม/ลื่นล้ม         | สิ่งของหล่นทับ        | สิ่งของกระแทก/ชน    | สิ่งของหนีบ/ดิ่ง | สิ่งของตัด/บาด/ตำ/แทง |
| สิ่งของกระเด็นเข้าตา    | รถ/เครื่องจักรของหนัก | อุบัติเหตุจากยานพาหนะ | วัตถุ/สิ่งของระเบิด | ไฟฟ้าช็อต        | สัมผัสความร้อน        |
| สัมผัสสิ่งมีพิษ/สารเคมี | อันตรายจากแสง         | ไฟไหม้                | อันตรายจากรังสี     | อื่นๆ (ระบุ)     |                       |

รายงานสรุปการเกิดอุบัติเหตุภายในโรงงาน ปี 2568

(ผู้รับเหมา - ประจำ)

|              |                |
|--------------|----------------|
| OHS-FR-46302 |                |
| Rev : 00     | Date : 10/1/98 |

| เดือน | จำนวนอุบัติเหตุ |           |     | ลักษณะการประสบอันตราย |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | หมายเหตุ                |
|-------|-----------------|-----------|-----|-----------------------|---------------|---------------|------------------|-----------------|-----------------------|-----------------------|-------------------------|-----------------------|---------------------|--------------|----------------|-------------------------|---------------|--------|-----------------|--------------|-------------------------|
|       | อุบัติเหตุ      | เกือบเกิด | รวม | ตกจากที่สูง           | หกล้ม/ลื่นล้ม | สิ่งของกด/ทับ | สิ่งของกระแทก/ชน | สิ่งของหนีบ/ดึง | สิ่งของตัด/บาด/ตำ/แทง | สิ่งของกระเด็น/เข้าตา | รถ/รถเลื่อน/เข็นของหนัก | อุบัติเหตุจากยานพาหนะ | วัตถุ/สิ่งของระเบิด | ไฟฟ้า/เชื้อด | สัมผัสความร้อน | สัมผัสสิ่งมีพิษ/สารเคมี | อันตรายจากแสง | ไฟไหม้ | อันตรายจากรังสี | อื่นๆ (ระบุ) |                         |
| ม.ค.  | 0               | 0         | 0   |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ก.พ.  | 0               | 0         | 0   |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| มี.ค. | 0               | 0         | 0   |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| เม.ย. | 0               | 0         | 0   |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| พ.ค.  | 0               | 0         | 0   |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| มิ.ย. | 0               | 0         | 0   |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ก.ค.  |                 |           |     |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ส.ค.  |                 |           |     |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ก.ย.  |                 |           |     |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ต.ค.  |                 |           |     |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| พ.ย.  |                 |           |     |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| ธ.ค.  |                 |           |     |                       |               |               |                  |                 |                       |                       |                         |                       |                     |              |                |                         |               |        |                 |              | ไม่มีอุบัติเหตุเกิดขึ้น |
| TOTAL | 0               | 0         | 0   | 0                     | 0             | 0             | 0                | 0               | 0                     | 0                     | 0                       | 0                     | 0                   | 0            | 0              | 0                       | 0             | 0      | 0               | 0            |                         |

หมายเหตุ 1. สถิติความปลอดภัยในการทำงานของผู้รับเหมา โดยไม่ดูระยะเวลาในการทำงาน ณ วันที่ 30 มิถุนายน 2568 = 3,282,257 ชั่วโมงคน

Accident Frequency Rate (AFR) = 

จำนวนครั้งของการเกิดอุบัติเหตุ \* 1,000,000

ชั่วโมงการทำงานทั้งสิ้นของผู้รับเหมา(ประจำ)

= 

0\*1,000,000

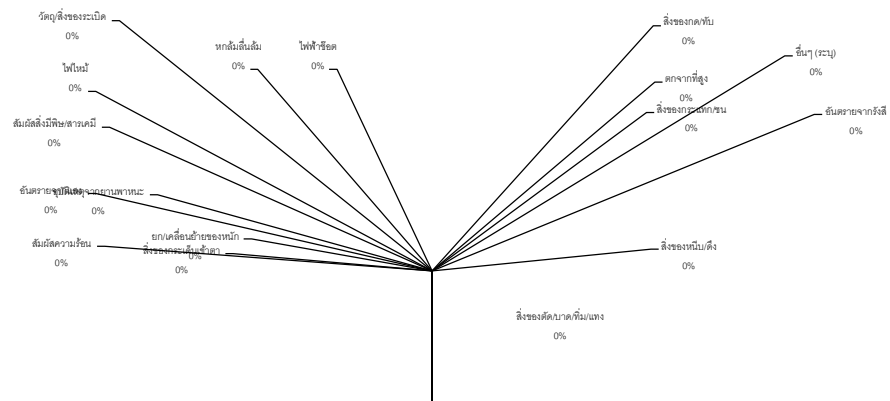
3,282,257

= 

0

ครั้งต่อหนึ่งล้านชั่วโมงทำงาน

### ชนิดของอุบัติเหตุ



|                                                               |                                                                |                                                               |                                                            |                                                            |                                                           |
|---------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|
| <span style="color: blue;">■</span> ตกจากที่สูง               | <span style="color: purple;">■</span> หกล้ม/ลื่นล้ม            | <span style="color: yellow;">■</span> สิ่งของกด/ทับ           | <span style="color: teal;">■</span> สิ่งของกระแทก/ชน       | <span style="color: darkpurple;">■</span> สิ่งของหนีบ/ดิ่ง | <span style="color: red;">■</span> สิ่งของติด/บาด/ทิ่มแทง |
| <span style="color: darkblue;">■</span> สิ่งของกระเด็นเข้าตา  | <span style="color: lightblue;">■</span> ยก/เคลื่อนย้ายของหนัก | <span style="color: darkblue;">■</span> อุบัติเหตุจากยานพาหนะ | <span style="color: magenta;">■</span> วัตถุ/สิ่งของระเบิด | <span style="color: yellow;">■</span> ไฟฟ้าช็อต            | <span style="color: cyan;">■</span> สัมผัสความร้อน        |
| <span style="color: purple;">■</span> สัมผัสสิ่งมีพิษ/สารเคมี | <span style="color: red;">■</span> อันตรายจากแสง               | <span style="color: teal;">■</span> ไฟไหม้                    | <span style="color: blue;">■</span> อันตรายจากรังสี        | <span style="color: cyan;">■</span> อื่นๆ (ระบุ)           |                                                           |



#### ภาคผนวก ก.4

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แผนการสำรวจความคิดเห็นของผู้นำชุมชน  
ประชาชนในชุมชนใกล้เคียง และผู้แทนหน่วยงานราชการ

**แผนการดำเนินการสำรวจความคิดเห็นของผู้แทนหน่วยราชการ ผู้นำชุมชน ประชาชนในชุมชนที่อยู่ใกล้เคียง  
ประจำปี 2568**

แผนการดำเนินการสำรวจความคิดเห็นของผู้แทนหน่วยราชการ ผู้นำชุมชน ประชาชนในชุมชนที่อยู่ใกล้เคียง  
ของโรงงานผลิตผงคาร์บอนแบล็ก อำเภอศรีราชา จังหวัดชลบุรี ครอบคลุม 4 ชุมชน ได้แก่ ชุมชนตลาดอ่าวอุดม  
ชุมชนบ้านอ่าวอุดม ชุมชนบ้านทุ่ง ชุมชนวัดมโนรม

| รายละเอียด                                                                                                                     | เดือน/2568 |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------|------------|------|------|------|------|------|------|
|                                                                                                                                | มิ.ย.      | ก.ค. | ส.ค. | ก.ย. | ต.ค. | พ.ย. | ธ.ค. |
| 1. ประสานงานกับผู้เกี่ยวข้องเครือข่ายไทยออยล์<br>เพื่อคัดเลือกบริษัทที่ปรึกษา                                                  |            |      |      |      |      |      |      |
| 2. ประชุมกำหนดแผนงาน/ช่วงระยะเวลา<br>ดำเนินการเบื้องต้นร่วมกับเครือข่ายไทยออยล์                                                |            |      |      |      |      |      |      |
| 3. ทำสัญญา/ข้อตกลงว่าจ้างบริษัทที่ปรึกษา                                                                                       |            |      |      |      |      |      |      |
| 4. สำรวจและรับฟังความคิดเห็น<br>- การสัมภาษณ์เชิงลึก (In-Depth Interview)<br>- การสำรวจข้อมูลและความคิดเห็นโดยใช้<br>แบบสอบถาม |            |      |      |      |      |      |      |
| 5. จัดทำรายงานสรุปผลการสำรวจความ<br>คิดเห็น                                                                                    |            |      |      |      |      |      |      |
| 6. ที่ปรึกษาส่งรายงานสรุปผลการสำรวจความ<br>คิดเห็นให้บริษัท                                                                    |            |      |      |      |      |      |      |

**หมายเหตุ** \* แผนการดำเนินการดังกล่าว เป็นเพียงแผนการดำเนินงานเบื้องต้นซึ่งสามารถปรับเปลี่ยนได้ตามความ  
เหมาะสม

ภาคผนวก ง

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หนังสือรับรองผลการตรวจวัดและวิเคราะห์คุณภาพสิ่งแวดล้อม

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ใบรับรองผลการตรวจวิเคราะห์  
คุณภาพอากาศในบรรยากาศ

## ANALYSIS REPORT

**CUSTOMER NAME** : THAI TOKAI CARBON PRODUCT COMPANY LIMITED  
**ADDRESS** : 42/2 MOO 1, SUKHUMVIT ROAD KM. 124.5, THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3835 2487, 081-921-7550 e-mail : wipawee@tcp.co.th  
**SAMPLING SOURCE** : บริเวณโครงการ TCP  
**SAMPLE TYPE** : AMBIENT **RECEIVED DATE** : MAY 21, 2025  
**SAMPLING DATE** : \*, \*\*, \*\*\* **ANALYTICAL DATE** : MAY 21-26, 2025  
**SAMPLING TIME** : \*, \*\*, \*\*\* **ISSUE DATE** : MAY 29, 2025  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET **REPORT NO.** : 2025-U047439  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT **WORK NO.** : 2024-009117  
**ANALYSIS NO.** : T25AK872-0008 - T25AK872-0010

| PARAMETER                                         | UNIT              | METHOD OF ANALYSIS                                                                                                                                                                                                  | RESULT             |                     |                      |
|---------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|----------------------|
|                                                   |                   |                                                                                                                                                                                                                     | บริเวณโครงการ TCP  |                     |                      |
|                                                   |                   |                                                                                                                                                                                                                     | *<br>T25AK872-0008 | **<br>T25AK872-0009 | ***<br>T25AK872-0010 |
| TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>   | mg/m <sup>3</sup> | US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021. | 0.062              | 0.057               | 0.071                |
| PARTICULATE MATTER as PM10 (≤ 10 µm) <sup>a</sup> | mg/m <sup>3</sup> | US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.   | 0.031              | 0.030               | 0.041                |
| <b>SAMPLE CONDITION</b>                           |                   |                                                                                                                                                                                                                     | COMPLETE           | COMPLETE            | COMPLETE             |

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
 \* : SAMPLING FROM 09:30 HOUR ON MAY 14, 2025 TO 09:30 HOUR ON MAY 15, 2025.  
 \*\* : SAMPLING FROM 09:30 HOUR ON MAY 15, 2025 TO 09:30 HOUR ON MAY 16, 2025.  
 \*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 16, 2025 TO 09:30 HOUR ON MAY 17, 2025.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THAI TOKAI CARBON PRODUCT COMPANY LIMITED  
**ADDRESS** : 42/2 MOO 1, SUKHUMVIT ROAD KM. 124.5, THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3835 2487, 081-921-7550 e-mail : wipawee@tcp.co.th  
**SAMPLING SOURCE** : บริเวณโครงการ TCP  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \* \*\* \*\* \*\*  
**SAMPLING TIME** : \* \*\* \*\* \*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : MAY 21, 2025  
**ANALYTICAL DATE** : MAY 21-26, 2025  
**ISSUE DATE** : MAY 29, 2025  
**REPORT NO.** : 2025-U047440  
**WORK NO.** : 2024-009117  
**ANALYSIS NO.** : T25AK872-0011 - T25AK872-0014

| PARAMETER                                         | UNIT              | METHOD OF ANALYSIS                                                                                                                                                                                                  | RESULT             |                     |                      |                       |
|---------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|----------------------|-----------------------|
|                                                   |                   |                                                                                                                                                                                                                     | บริเวณโครงการ TCP  |                     |                      |                       |
|                                                   |                   |                                                                                                                                                                                                                     | *<br>T25AK872-0011 | **<br>T25AK872-0012 | ***<br>T25AK872-0013 | ****<br>T25AK872-0014 |
| TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>   | mg/m <sup>3</sup> | US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021. | 0.067              | 0.064               | 0.059                | 0.076                 |
| PARTICULATE MATTER as PM10 (≤ 10 µm) <sup>a</sup> | mg/m <sup>3</sup> | US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.   | 0.042              | 0.033               | 0.032                | 0.035                 |
| SAMPLE CONDITION                                  |                   |                                                                                                                                                                                                                     | COMPLETE           | COMPLETE            | COMPLETE             | COMPLETE              |

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
 \* : SAMPLING FROM 09:30 HOUR ON MAY 17, 2025 TO 09:30 HOUR ON MAY 18, 2025.  
 \*\* : SAMPLING FROM 09:30 HOUR ON MAY 18, 2025 TO 09:30 HOUR ON MAY 19, 2025.  
 \*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 19, 2025 TO 09:30 HOUR ON MAY 20, 2025.  
 \*\*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 20, 2025 TO 09:30 HOUR ON MAY 21, 2025.

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

**CUSTOMER NAME** : THAI TOKAI CARBON PRODUCT COMPANY LIMITED  
**ADDRESS** : 42/2 MOO 1, SUKHUMVIT ROAD KM. 124.5, THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3835 2487, 081-921-7550 e-mail : wipawee@tcp.co.th  
**MEASURING PLACE** : บริเวณโครงการ TCP  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MAY 14-21, 2025  
**MEASURING DATE** : MAY 14-21, 2025 **ANALYTICAL DATE** : MAY 14-21, 2025  
**MEASURING TIME** : \* **ISSUE DATE** : MAY 29, 2025  
**MEASURING METHOD** : UV FLUORESCENCE **REPORT NO.** : 2025-U047910  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **WORK NO.** : 2024-009117  
**ANALYSIS NO.** : T25AK872-0008 - T25AK872-0014

| TIME *           | RESULT (ppm)                     |                                  |                                  |
|------------------|----------------------------------|----------------------------------|----------------------------------|
|                  | SULPHUR DIOXIDE                  |                                  |                                  |
|                  | บริเวณโครงการ TCP                |                                  |                                  |
|                  | MAY 14-15, 2025<br>T25AK872-0008 | MAY 15-16, 2025<br>T25AK872-0009 | MAY 16-17, 2025<br>T25AK872-0010 |
| 08:00-09:00 HOUR | 0.0046                           | 0.0038                           | 0.0043                           |
| 09:00-10:00 HOUR | 0.0042                           | 0.0038                           | 0.0047                           |
| 10:00-11:00 HOUR | 0.0037                           | 0.0029                           | 0.0037                           |
| 11:00-12:00 HOUR | 0.0031                           | 0.0027                           | 0.0032                           |
| 12:00-13:00 HOUR | 0.0025                           | 0.0027                           | 0.0035                           |
| 13:00-14:00 HOUR | 0.0022                           | 0.0024                           | 0.0034                           |
| 14:00-15:00 HOUR | 0.0029                           | 0.0026                           | 0.0031                           |
| 15:00-16:00 HOUR | 0.0022                           | 0.0024                           | 0.0024                           |
| 16:00-17:00 HOUR | 0.0030                           | 0.0032                           | 0.0032                           |
| 17:00-18:00 HOUR | 0.0035                           | 0.0030                           | 0.0030                           |
| 18:00-19:00 HOUR | 0.0041                           | 0.0039                           | 0.0041                           |
| 19:00-20:00 HOUR | 0.0041                           | 0.0038                           | 0.0042                           |
| 20:00-21:00 HOUR | 0.0039                           | 0.0043                           | 0.0037                           |
| 21:00-22:00 HOUR | 0.0037                           | 0.0039                           | 0.0043                           |
| 22:00-23:00 HOUR | 0.0042                           | 0.0048                           | 0.0043                           |
| 23:00-00:00 HOUR | 0.0027                           | 0.0038                           | 0.0028                           |
| 00:00-01:00 HOUR | 0.0026                           | 0.0042                           | 0.0028                           |
| 01:00-02:00 HOUR | 0.0028                           | 0.0048                           | 0.0029                           |
| 02:00-03:00 HOUR | 0.0029                           | 0.0052                           | 0.0032                           |
| 03:00-04:00 HOUR | 0.0025                           | 0.0041                           | 0.0025                           |
| 04:00-05:00 HOUR | 0.0032                           | 0.0040                           | 0.0032                           |
| 05:00-06:00 HOUR | 0.0031                           | 0.0040                           | 0.0032                           |
| 06:00-07:00 HOUR | 0.0024                           | 0.0040                           | 0.0032                           |
| 07:00-08:00 HOUR | 0.0038                           | 0.0040                           | 0.0039                           |
| AVERAGE 24 HOUR  | 0.0032                           | 0.0037                           | 0.0035                           |



| TIME *           | RESULT (ppm)                     |                                  |                                  |                                  |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                  | SULPHUR DIOXIDE                  |                                  |                                  |                                  |
|                  | บริเวณโครงการ TCP                |                                  |                                  |                                  |
|                  | MAY 17-18, 2025<br>T25AK872-0011 | MAY 18-19, 2025<br>T25AK872-0012 | MAY 19-20, 2025<br>T25AK872-0013 | MAY 20-21, 2025<br>T25AK872-0014 |
| 08:00-09:00 HOUR | 0.0045                           | 0.0038                           | 0.0040                           | 0.0046                           |
| 09:00-10:00 HOUR | 0.0042                           | 0.0044                           | 0.0041                           | 0.0043                           |
| 10:00-11:00 HOUR | 0.0032                           | 0.0030                           | 0.0032                           | 0.0028                           |
| 11:00-12:00 HOUR | 0.0037                           | 0.0028                           | 0.0031                           | 0.0026                           |
| 12:00-13:00 HOUR | 0.0033                           | 0.0023                           | 0.0024                           | 0.0025                           |
| 13:00-14:00 HOUR | 0.0035                           | 0.0022                           | 0.0026                           | 0.0027                           |
| 14:00-15:00 HOUR | 0.0031                           | 0.0022                           | 0.0026                           | 0.0023                           |
| 15:00-16:00 HOUR | 0.0031                           | 0.0026                           | 0.0023                           | 0.0021                           |
| 16:00-17:00 HOUR | 0.0043                           | 0.0032                           | 0.0027                           | 0.0032                           |
| 17:00-18:00 HOUR | 0.0042                           | 0.0030                           | 0.0034                           | 0.0027                           |
| 18:00-19:00 HOUR | 0.0045                           | 0.0041                           | 0.0039                           | 0.0040                           |
| 19:00-20:00 HOUR | 0.0047                           | 0.0044                           | 0.0044                           | 0.0036                           |
| 20:00-21:00 HOUR | 0.0052                           | 0.0039                           | 0.0036                           | 0.0042                           |
| 21:00-22:00 HOUR | 0.0041                           | 0.0041                           | 0.0038                           | 0.0038                           |
| 22:00-23:00 HOUR | 0.0041                           | 0.0048                           | 0.0052                           | 0.0043                           |
| 23:00-00:00 HOUR | 0.0038                           | 0.0053                           | 0.0040                           | 0.0039                           |
| 00:00-01:00 HOUR | 0.0038                           | 0.0041                           | 0.0047                           | 0.0037                           |
| 01:00-02:00 HOUR | 0.0041                           | 0.0029                           | 0.0047                           | 0.0031                           |
| 02:00-03:00 HOUR | 0.0040                           | 0.0031                           | 0.0050                           | 0.0032                           |
| 03:00-04:00 HOUR | 0.0039                           | 0.0027                           | 0.0043                           | 0.0029                           |
| 04:00-05:00 HOUR | 0.0029                           | 0.0030                           | 0.0040                           | 0.0031                           |
| 05:00-06:00 HOUR | 0.0027                           | 0.0027                           | 0.0036                           | 0.0032                           |
| 06:00-07:00 HOUR | 0.0029                           | 0.0034                           | 0.0035                           | 0.0030                           |
| 07:00-08:00 HOUR | 0.0036                           | 0.0042                           | 0.0040                           | 0.0039                           |
| AVERAGE 24 HOUR  | 0.0038                           | 0.0034                           | 0.0037                           | 0.0033                           |

*Sila Banjongjairuk*

(MR SILA BANJONGJAIRUK)  
LABORATORY SUPERVISOR



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- THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.



## ANALYSIS REPORT

**CUSTOMER NAME** : THAI TOKAI CARBON PRODUCT COMPANY LIMITED  
**ADDRESS** : 42/2 MOO 1,SUKHUMVIT ROAD KM. 124.5, THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3835 2487, 081-921-7550 e-mail : wipawee@tcp.co.th  
**MEASURING PLACE** : บริเวณโครงการ TCP  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MAY 14-21, 2025  
**MEASURING DATE** : MAY 14-21, 2025 **ANALYTICAL DATE** : MAY 14-21, 2025  
**MEASURING TIME** : \* **ISSUE DATE** : MAY 29, 2025  
**MEASURING METHOD** : CHEMILUMINESCENCE **REPORT NO.** : 2025-U047908  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **WORK NO.** : 2024-009117  
**ANALYSIS NO.** : T25AK872-0008 - T25AK872-0014

| TIME *           | RESULT (ppm)                     |                                  |                                  |
|------------------|----------------------------------|----------------------------------|----------------------------------|
|                  | NITROGEN DIOXIDE                 |                                  |                                  |
|                  | บริเวณโครงการ TCP                |                                  |                                  |
|                  | MAY 14-15, 2025<br>T25AK872-0008 | MAY 15-16, 2025<br>T25AK872-0009 | MAY 16-17, 2025<br>T25AK872-0010 |
| 08:00-09:00 HOUR | 0.0242                           | 0.0205                           | 0.0240                           |
| 09:00-10:00 HOUR | 0.0212                           | 0.0221                           | 0.0207                           |
| 10:00-11:00 HOUR | 0.0198                           | 0.0184                           | 0.0187                           |
| 11:00-12:00 HOUR | 0.0167                           | 0.0128                           | 0.0209                           |
| 12:00-13:00 HOUR | 0.0151                           | 0.0125                           | 0.0163                           |
| 13:00-14:00 HOUR | 0.0155                           | 0.0113                           | 0.0154                           |
| 14:00-15:00 HOUR | 0.0180                           | 0.0165                           | 0.0180                           |
| 15:00-16:00 HOUR | 0.0174                           | 0.0141                           | 0.0125                           |
| 16:00-17:00 HOUR | 0.0192                           | 0.0169                           | 0.0182                           |
| 17:00-18:00 HOUR | 0.0200                           | 0.0163                           | 0.0213                           |
| 18:00-19:00 HOUR | 0.0220                           | 0.0191                           | 0.0218                           |
| 19:00-20:00 HOUR | 0.0194                           | 0.0177                           | 0.0198                           |
| 20:00-21:00 HOUR | 0.0196                           | 0.0182                           | 0.0201                           |
| 21:00-22:00 HOUR | 0.0193                           | 0.0200                           | 0.0186                           |
| 22:00-23:00 HOUR | 0.0167                           | 0.0227                           | 0.0167                           |
| 23:00-00:00 HOUR | 0.0158                           | 0.0186                           | 0.0174                           |
| 00:00-01:00 HOUR | 0.0151                           | 0.0201                           | 0.0153                           |
| 01:00-02:00 HOUR | 0.0178                           | 0.0194                           | 0.0146                           |
| 02:00-03:00 HOUR | 0.0139                           | 0.0199                           | 0.0152                           |
| 03:00-04:00 HOUR | 0.0180                           | 0.0205                           | 0.0165                           |
| 04:00-05:00 HOUR | 0.0219                           | 0.0160                           | 0.0172                           |
| 05:00-06:00 HOUR | 0.0188                           | 0.0221                           | 0.0171                           |
| 06:00-07:00 HOUR | 0.0205                           | 0.0172                           | 0.0186                           |
| 07:00-08:00 HOUR | 0.0212                           | 0.0203                           | 0.0216                           |



| TIME *           | RESULT (ppm)                     |                                  |                                  |                                  |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                  | NITROGEN DIOXIDE                 |                                  |                                  |                                  |
|                  | บริเวณโครงการ TCP                |                                  |                                  |                                  |
|                  | MAY 17-18, 2025<br>T25AK872-0011 | MAY 18-19, 2025<br>T25AK872-0012 | MAY 19-20, 2025<br>T25AK872-0013 | MAY 20-21, 2025<br>T25AK872-0014 |
| 08:00-09:00 HOUR | 0.0198                           | 0.0205                           | 0.0244                           | 0.0232                           |
| 09:00-10:00 HOUR | 0.0233                           | 0.0234                           | 0.0212                           | 0.0227                           |
| 10:00-11:00 HOUR | 0.0142                           | 0.0184                           | 0.0215                           | 0.0199                           |
| 11:00-12:00 HOUR | 0.0134                           | 0.0172                           | 0.0214                           | 0.0170                           |
| 12:00-13:00 HOUR | 0.0103                           | 0.0127                           | 0.0151                           | 0.0160                           |
| 13:00-14:00 HOUR | 0.0127                           | 0.0129                           | 0.0135                           | 0.0152                           |
| 14:00-15:00 HOUR | 0.0170                           | 0.0175                           | 0.0187                           | 0.0184                           |
| 15:00-16:00 HOUR | 0.0149                           | 0.0133                           | 0.0139                           | 0.0146                           |
| 16:00-17:00 HOUR | 0.0181                           | 0.0169                           | 0.0203                           | 0.0171                           |
| 17:00-18:00 HOUR | 0.0173                           | 0.0220                           | 0.0191                           | 0.0191                           |
| 18:00-19:00 HOUR | 0.0185                           | 0.0214                           | 0.0214                           | 0.0210                           |
| 19:00-20:00 HOUR | 0.0184                           | 0.0207                           | 0.0185                           | 0.0215                           |
| 20:00-21:00 HOUR | 0.0192                           | 0.0213                           | 0.0193                           | 0.0191                           |
| 21:00-22:00 HOUR | 0.0203                           | 0.0215                           | 0.0212                           | 0.0214                           |
| 22:00-23:00 HOUR | 0.0177                           | 0.0196                           | 0.0171                           | 0.0206                           |
| 23:00-00:00 HOUR | 0.0184                           | 0.0189                           | 0.0199                           | 0.0162                           |
| 00:00-01:00 HOUR | 0.0177                           | 0.0154                           | 0.0143                           | 0.0143                           |
| 01:00-02:00 HOUR | 0.0207                           | 0.0180                           | 0.0160                           | 0.0153                           |
| 02:00-03:00 HOUR | 0.0202                           | 0.0165                           | 0.0146                           | 0.0164                           |
| 03:00-04:00 HOUR | 0.0206                           | 0.0179                           | 0.0169                           | 0.0151                           |
| 04:00-05:00 HOUR | 0.0198                           | 0.0176                           | 0.0179                           | 0.0174                           |
| 05:00-06:00 HOUR | 0.0179                           | 0.0188                           | 0.0208                           | 0.0144                           |
| 06:00-07:00 HOUR | 0.0199                           | 0.0185                           | 0.0210                           | 0.0160                           |
| 07:00-08:00 HOUR | 0.0211                           | 0.0186                           | 0.0184                           | 0.0214                           |

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR



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- THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.

## ANALYSIS REPORT

**CUSTOMER NAME** : THAI TOKAI CARBON PRODUCT COMPANY LIMITED  
**ADDRESS** : 42/2 MOO 1, SUKHUMVIT ROAD KM. 124.5, THUNG SUKHILA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3835 2487, 081-921-7550 e-mail : wipawee@tcp.co.th  
**SAMPLING SOURCE** : บ้านพักทางหลวงอุดม  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR. SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : MAY 21, 2025  
**ANALYTICAL DATE** : MAY 21-26, 2025  
**ISSUE DATE** : MAY 29, 2025  
**REPORT NO.** : 2025-U047437  
**WORK NO.** : 2024-009117  
**ANALYSIS NO.** : T25AK872-0001 - T25AK872-0003

| PARAMETER                                         | UNIT              | METHOD OF ANALYSIS                                                                                                                                                                                                  | RESULT             |                     |                      |
|---------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------|----------------------|
|                                                   |                   |                                                                                                                                                                                                                     | บ้านพักทางหลวงอุดม |                     |                      |
|                                                   |                   |                                                                                                                                                                                                                     | *<br>T25AK872-0001 | **<br>T25AK872-0002 | ***<br>T25AK872-0003 |
| TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>   | mg/m <sup>3</sup> | US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021. | 0.033              | 0.053               | 0.065                |
| PARTICULATE MATTER as PM10 (≤ 10 µm) <sup>a</sup> | mg/m <sup>3</sup> | US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.   | 0.021              | 0.030               | 0.037                |
| <b>SAMPLE CONDITION</b>                           |                   |                                                                                                                                                                                                                     | COMPLETE           | COMPLETE            | COMPLETE             |

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
 \* : SAMPLING FROM 09:30 HOUR ON MAY 14, 2025 TO 09:30 HOUR ON MAY 15, 2025.  
 \*\* : SAMPLING FROM 09:30 HOUR ON MAY 15, 2025 TO 09:30 HOUR ON MAY 16, 2025.  
 \*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 16, 2025 TO 09:30 HOUR ON MAY 17, 2025.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

**CUSTOMER NAME** : THAI TOKAI CARBON PRODUCT COMPANY LIMITED  
**ADDRESS** : 42/2 MOO 1, SUKHUMVIT ROAD KM. 124.5, THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3835 2487, 081-921-7550 e-mail : wipawee@tcp.co.th  
**SAMPLING SOURCE** : บ้านปากทางอ่าวอุดม  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \* \*\* \*\*\* \*\*\*\*  
**SAMPLING TIME** : \* \*\* \*\*\* \*\*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 21, 2025  
**ANALYTICAL DATE** : MAY 21-26, 2025  
**ISSUE DATE** : MAY 29, 2025  
**REPORT NO.** : 2025-U047438  
**WORK NO.** : 2024-009117  
**ANALYSIS NO.** : T25AK872-0004 - T25AK872-0007

| PARAMETER                                         | UNIT              | METHOD OF ANALYSIS                                                                                                                                                                                                  | RESULT             |               |               |               |
|---------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|---------------|---------------|
|                                                   |                   |                                                                                                                                                                                                                     | บ้านปากทางอ่าวอุดม |               |               |               |
|                                                   |                   |                                                                                                                                                                                                                     | *                  | **            | ***           | ****          |
|                                                   |                   |                                                                                                                                                                                                                     | T25AK872-0004      | T25AK872-0005 | T25AK872-0006 | T25AK872-0007 |
| TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>   | mg/m <sup>3</sup> | US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021. | 0.045              | 0.040         | 0.050         | 0.038         |
| PARTICULATE MATTER as PM10 (≤ 10 µm) <sup>a</sup> | mg/m <sup>3</sup> | US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.   | 0.031              | 0.029         | 0.033         | 0.024         |
| SAMPLE CONDITION                                  |                   |                                                                                                                                                                                                                     | COMPLETE           | COMPLETE      | COMPLETE      | COMPLETE      |

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 09:30 HOUR ON MAY 17, 2025 TO 09:30 HOUR ON MAY 18, 2025.  
\*\* : SAMPLING FROM 09:30 HOUR ON MAY 18, 2025 TO 09:30 HOUR ON MAY 19, 2025.  
\*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 19, 2025 TO 09:30 HOUR ON MAY 20, 2025.  
\*\*\*\* : SAMPLING FROM 09:30 HOUR ON MAY 20, 2025 TO 09:30 HOUR ON MAY 21, 2025.

*Budsakorn* ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : THAI TOKAI CARBON PRODUCT COMPANY LIMITED  
**ADDRESS** : 42/2 MOO 1, SUKHUMVIT ROAD KM. 124.5, THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3835 2487, 081-921-7550 e-mail : wipawee@tcp.co.th  
**MEASURING PLACE** : บ้านปากทางอำเภอดุสิต  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : MAY 14-21, 2025  
**MEASURING TIME** : \*  
**MEASURING METHOD** : UV FLUORESCENCE  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : MAY 14-21, 2025  
**ANALYTICAL DATE** : MAY 14-21, 2025  
**ISSUE DATE** : MAY 29, 2025  
**REPORT NO.** : 2025-U047909  
**WORK NO.** : 2024-009117  
**ANALYSIS NO.** : T25AK872-0001 - T25AK872-0007

| TIME *           | RESULT (ppm)                     |                                  |                                  |
|------------------|----------------------------------|----------------------------------|----------------------------------|
|                  | SULPHUR DIOXIDE                  |                                  |                                  |
|                  | บ้านปากทางอำเภอดุสิต             |                                  |                                  |
|                  | MAY 14-15, 2025<br>T25AK872-0001 | MAY 15-16, 2025<br>T25AK872-0002 | MAY 16-17, 2025<br>T25AK872-0003 |
| 08:00-09:00 HOUR | 0.0036                           | 0.0044                           | 0.0045                           |
| 09:00-10:00 HOUR | 0.0039                           | 0.0042                           | 0.0045                           |
| 10:00-11:00 HOUR | 0.0045                           | 0.0040                           | 0.0042                           |
| 11:00-12:00 HOUR | 0.0032                           | 0.0043                           | 0.0033                           |
| 12:00-13:00 HOUR | 0.0040                           | 0.0040                           | 0.0034                           |
| 13:00-14:00 HOUR | 0.0040                           | 0.0034                           | 0.0040                           |
| 14:00-15:00 HOUR | 0.0042                           | 0.0035                           | 0.0035                           |
| 15:00-16:00 HOUR | 0.0037                           | 0.0038                           | 0.0038                           |
| 16:00-17:00 HOUR | 0.0034                           | 0.0041                           | 0.0042                           |
| 17:00-18:00 HOUR | 0.0045                           | 0.0045                           | 0.0043                           |
| 18:00-19:00 HOUR | 0.0040                           | 0.0039                           | 0.0042                           |
| 19:00-20:00 HOUR | 0.0035                           | 0.0031                           | 0.0039                           |
| 20:00-21:00 HOUR | 0.0035                           | 0.0036                           | 0.0037                           |
| 21:00-22:00 HOUR | 0.0033                           | 0.0030                           | 0.0042                           |
| 22:00-23:00 HOUR | 0.0037                           | 0.0032                           | 0.0033                           |
| 23:00-00:00 HOUR | 0.0030                           | 0.0026                           | 0.0036                           |
| 00:00-01:00 HOUR | 0.0038                           | 0.0034                           | 0.0033                           |
| 01:00-02:00 HOUR | 0.0033                           | 0.0029                           | 0.0032                           |
| 02:00-03:00 HOUR | 0.0032                           | 0.0026                           | 0.0033                           |
| 03:00-04:00 HOUR | 0.0029                           | 0.0027                           | 0.0037                           |
| 04:00-05:00 HOUR | 0.0033                           | 0.0039                           | 0.0031                           |
| 05:00-06:00 HOUR | 0.0046                           | 0.0033                           | 0.0037                           |
| 06:00-07:00 HOUR | 0.0042                           | 0.0041                           | 0.0045                           |
| 07:00-08:00 HOUR | 0.0037                           | 0.0043                           | 0.0045                           |
| AVERAGE 24 HOUR  | 0.0037                           | 0.0036                           | 0.0038                           |



| TIME *           | RESULT (ppm)                     |                                  |                                  |                                  |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                  | SULPHUR DIOXIDE                  |                                  |                                  |                                  |
|                  | มาตรฐานทางอากาศ                  |                                  |                                  |                                  |
|                  | MAY 17-18, 2025<br>T25AK872-0004 | MAY 18-19, 2025<br>T25AK872-0005 | MAY 19-20, 2025<br>T25AK872-0006 | MAY 20-21, 2025<br>T25AK872-0007 |
| 08:00-09:00 HOUR | 0.0042                           | 0.0037                           | 0.0054                           | 0.0041                           |
| 09:00-10:00 HOUR | 0.0039                           | 0.0036                           | 0.0043                           | 0.0044                           |
| 10:00-11:00 HOUR | 0.0026                           | 0.0039                           | 0.0036                           | 0.0036                           |
| 11:00-12:00 HOUR | 0.0035                           | 0.0039                           | 0.0032                           | 0.0043                           |
| 12:00-13:00 HOUR | 0.0024                           | 0.0036                           | 0.0036                           | 0.0041                           |
| 13:00-14:00 HOUR | 0.0036                           | 0.0033                           | 0.0034                           | 0.0034                           |
| 14:00-15:00 HOUR | 0.0036                           | 0.0034                           | 0.0034                           | 0.0036                           |
| 15:00-16:00 HOUR | 0.0036                           | 0.0045                           | 0.0042                           | 0.0033                           |
| 16:00-17:00 HOUR | 0.0040                           | 0.0047                           | 0.0038                           | 0.0046                           |
| 17:00-18:00 HOUR | 0.0038                           | 0.0042                           | 0.0049                           | 0.0052                           |
| 18:00-19:00 HOUR | 0.0039                           | 0.0034                           | 0.0046                           | 0.0047                           |
| 19:00-20:00 HOUR | 0.0036                           | 0.0039                           | 0.0036                           | 0.0038                           |
| 20:00-21:00 HOUR | 0.0030                           | 0.0031                           | 0.0039                           | 0.0041                           |
| 21:00-22:00 HOUR | 0.0029                           | 0.0028                           | 0.0033                           | 0.0033                           |
| 22:00-23:00 HOUR | 0.0032                           | 0.0025                           | 0.0037                           | 0.0036                           |
| 23:00-00:00 HOUR | 0.0026                           | 0.0026                           | 0.0034                           | 0.0029                           |
| 00:00-01:00 HOUR | 0.0032                           | 0.0031                           | 0.0027                           | 0.0028                           |
| 01:00-02:00 HOUR | 0.0031                           | 0.0023                           | 0.0032                           | 0.0035                           |
| 02:00-03:00 HOUR | 0.0026                           | 0.0025                           | 0.0037                           | 0.0034                           |
| 03:00-04:00 HOUR | 0.0028                           | 0.0032                           | 0.0030                           | 0.0037                           |
| 04:00-05:00 HOUR | 0.0029                           | 0.0031                           | 0.0040                           | 0.0039                           |
| 05:00-06:00 HOUR | 0.0036                           | 0.0041                           | 0.0034                           | 0.0039                           |
| 06:00-07:00 HOUR | 0.0032                           | 0.0032                           | 0.0038                           | 0.0038                           |
| 07:00-08:00 HOUR | 0.0045                           | 0.0038                           | 0.0046                           | 0.0049                           |
| AVERAGE 24 HOUR  | 0.0033                           | 0.0034                           | 0.0038                           | 0.0039                           |

*Sila Banjongjairuk*

(MR. SILA BANJONGJAIRUK)  
LABORATORY SUPERVISOR



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- THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.



## ANALYSIS REPORT

**CUSTOMER NAME** : THAI TOKAI CARBON PRODUCT COMPANY LIMITED  
**ADDRESS** : 42/2 MOO 1, SUKHUMVIT ROAD KM. 124.5, THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3835 2487, 081-921-7550 e-mail : wipawee@tcp.co.th  
**MEASURING PLACE** : บ้านพักทางด่วน  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MAY 14-21, 2025  
**MEASURING DATE** : MAY 14-21, 2025 **ANALYTICAL DATE** : MAY 14-21, 2025  
**MEASURING TIME** : \* **ISSUE DATE** : MAY 29, 2025  
**MEASURING METHOD** : CHEMILUMINESCENCE **REPORT NO.** : 2025-U047907  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **WORK NO.** : 2024-009117  
**ANALYSIS NO.** : T25AK872-0001 - T25AK872-0007

| TIME *           | RESULT (ppm)                     |                                  |                                  |
|------------------|----------------------------------|----------------------------------|----------------------------------|
|                  | NITROGEN DIOXIDE                 |                                  |                                  |
|                  | บ้านพักทางด่วน                   |                                  |                                  |
|                  | MAY 14-15, 2025<br>T25AK872-0001 | MAY 15-16, 2025<br>T25AK872-0002 | MAY 16-17, 2025<br>T25AK872-0003 |
| 08:00-09:00 HOUR | 0.0215                           | 0.0116                           | 0.0154                           |
| 09:00-10:00 HOUR | 0.0136                           | 0.0152                           | 0.0144                           |
| 10:00-11:00 HOUR | 0.0156                           | 0.0126                           | 0.0187                           |
| 11:00-12:00 HOUR | 0.0122                           | 0.0173                           | 0.0162                           |
| 12:00-13:00 HOUR | 0.0163                           | 0.0156                           | 0.0164                           |
| 13:00-14:00 HOUR | 0.0133                           | 0.0174                           | 0.0174                           |
| 14:00-15:00 HOUR | 0.0134                           | 0.0163                           | 0.0143                           |
| 15:00-16:00 HOUR | 0.0176                           | 0.0163                           | 0.0148                           |
| 16:00-17:00 HOUR | 0.0146                           | 0.0209                           | 0.0141                           |
| 17:00-18:00 HOUR | 0.0188                           | 0.0189                           | 0.0203                           |
| 18:00-19:00 HOUR | 0.0148                           | 0.0155                           | 0.0180                           |
| 19:00-20:00 HOUR | 0.0147                           | 0.0180                           | 0.0130                           |
| 20:00-21:00 HOUR | 0.0189                           | 0.0179                           | 0.0179                           |
| 21:00-22:00 HOUR | 0.0123                           | 0.0183                           | 0.0136                           |
| 22:00-23:00 HOUR | 0.0107                           | 0.0142                           | 0.0121                           |
| 23:00-00:00 HOUR | 0.0127                           | 0.0151                           | 0.0142                           |
| 00:00-01:00 HOUR | 0.0157                           | 0.0155                           | 0.0133                           |
| 01:00-02:00 HOUR | 0.0114                           | 0.0117                           | 0.0126                           |
| 02:00-03:00 HOUR | 0.0135                           | 0.0147                           | 0.0126                           |
| 03:00-04:00 HOUR | 0.0148                           | 0.0128                           | 0.0153                           |
| 04:00-05:00 HOUR | 0.0125                           | 0.0133                           | 0.0129                           |
| 05:00-06:00 HOUR | 0.0144                           | 0.0157                           | 0.0140                           |
| 06:00-07:00 HOUR | 0.0157                           | 0.0164                           | 0.0176                           |
| 07:00-08:00 HOUR | 0.0130                           | 0.0165                           | 0.0151                           |



| TIME *           | RESULT (ppm)                     |                                  |                                  |                                  |
|------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
|                  | NITROGEN DIOXIDE                 |                                  |                                  |                                  |
|                  | บ้านปากทางอ่าวอุดม               |                                  |                                  |                                  |
|                  | MAY 17-18, 2025<br>T25AK872-0004 | MAY 18-19, 2025<br>T25AK872-0005 | MAY 19-20, 2025<br>T25AK872-0006 | MAY 20-21, 2025<br>T25AK872-0007 |
| 08:00-09:00 HOUR | 0.0218                           | 0.0152                           | 0.0168                           | 0.0163                           |
| 09:00-10:00 HOUR | 0.0171                           | 0.0143                           | 0.0171                           | 0.0199                           |
| 10:00-11:00 HOUR | 0.0156                           | 0.0207                           | 0.0166                           | 0.0157                           |
| 11:00-12:00 HOUR | 0.0186                           | 0.0182                           | 0.0178                           | 0.0146                           |
| 12:00-13:00 HOUR | 0.0157                           | 0.0165                           | 0.0157                           | 0.0192                           |
| 13:00-14:00 HOUR | 0.0189                           | 0.0146                           | 0.0155                           | 0.0166                           |
| 14:00-15:00 HOUR | 0.0155                           | 0.0163                           | 0.0163                           | 0.0175                           |
| 15:00-16:00 HOUR | 0.0179                           | 0.0148                           | 0.0141                           | 0.0181                           |
| 16:00-17:00 HOUR | 0.0181                           | 0.0200                           | 0.0197                           | 0.0149                           |
| 17:00-18:00 HOUR | 0.0232                           | 0.0159                           | 0.0197                           | 0.0195                           |
| 18:00-19:00 HOUR | 0.0182                           | 0.0168                           | 0.0193                           | 0.0180                           |
| 19:00-20:00 HOUR | 0.0191                           | 0.0154                           | 0.0143                           | 0.0155                           |
| 20:00-21:00 HOUR | 0.0131                           | 0.0134                           | 0.0136                           | 0.0189                           |
| 21:00-22:00 HOUR | 0.0145                           | 0.0156                           | 0.0157                           | 0.0110                           |
| 22:00-23:00 HOUR | 0.0133                           | 0.0129                           | 0.0165                           | 0.0148                           |
| 23:00-00:00 HOUR | 0.0141                           | 0.0133                           | 0.0123                           | 0.0158                           |
| 00:00-01:00 HOUR | 0.0164                           | 0.0166                           | 0.0142                           | 0.0143                           |
| 01:00-02:00 HOUR | 0.0106                           | 0.0123                           | 0.0111                           | 0.0131                           |
| 02:00-03:00 HOUR | 0.0131                           | 0.0149                           | 0.0138                           | 0.0120                           |
| 03:00-04:00 HOUR | 0.0154                           | 0.0152                           | 0.0180                           | 0.0144                           |
| 04:00-05:00 HOUR | 0.0126                           | 0.0157                           | 0.0146                           | 0.0126                           |
| 05:00-06:00 HOUR | 0.0139                           | 0.0157                           | 0.0198                           | 0.0162                           |
| 06:00-07:00 HOUR | 0.0173                           | 0.0137                           | 0.0161                           | 0.0136                           |
| 07:00-08:00 HOUR | 0.0173                           | 0.0147                           | 0.0188                           | 0.0164                           |

*Sila Banjongjairuk*

(MR SILA BANJONGJAIRUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME :** THAI TOKAI CARBON PRODUCT COMPANY LIMITED  
**ADDRESS :** 42/2 MOO 1, SUKHUMVIT ROAD KM. 124.5, THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION :** TEL : 0 3835 2487, 081-921-7550 e-mail : wipawee@tcp.co.th  
**MEASURING PLACE :** บริเวณโครงการ TCP  
**MEASURING TYPE :** AMBIENT (AIR) **RECEIVED DATE :** MAY 14-21, 2025  
**MEASURING DATE :** MAY 14-21, 2025 **ANALYTICAL DATE :** MAY 14-21, 2025  
**MEASURING TIME :** \* **ISSUE DATE :** MAY 29, 2025  
**MEASURING METHOD :** WIND SPEED & WIND DIRECTION EQUIPMENT **REPORT NO. :** 2025-U047921  
**MEASURED BY :** MR SIRAPAT JONGPHADUNGKIET **WORK NO. :** 2024-009117  
**ANALYSIS NO. :** T25AK872-0008 - T25AK872-0014

| TIME *           | RESULT (m/s)                     |                |                                  |                |                                  |                |
|------------------|----------------------------------|----------------|----------------------------------|----------------|----------------------------------|----------------|
|                  | บริเวณโครงการ TCP                |                |                                  |                |                                  |                |
|                  | MAY 14-15, 2025<br>T25AK872-0008 |                | MAY 15-16, 2025<br>T25AK872-0009 |                | MAY 16-17, 2025<br>T25AK872-0010 |                |
|                  | WIND SPEED                       | WIND DIRECTION | WIND SPEED                       | WIND DIRECTION | WIND SPEED                       | WIND DIRECTION |
| 08:00-09:00 HOUR | 1.9                              | ESE            | 2.0                              | ESE            | 1.9                              | ESE            |
| 09:00-10:00 HOUR | 2.0                              | SE             | 1.7                              | SE             | 2.0                              | ESE            |
| 10:00-11:00 HOUR | 2.8                              | SE             | 1.5                              | WNW            | 1.9                              | S              |
| 11:00-12:00 HOUR | 2.6                              | SSE            | 2.4                              | W              | 2.0                              | W              |
| 12:00-13:00 HOUR | 2.1                              | SSE            | 2.0                              | W              | 2.5                              | W              |
| 13:00-14:00 HOUR | 1.5                              | SSE            | 1.7                              | W              | 1.7                              | SSW            |
| 14:00-15:00 HOUR | 1.3                              | SSE            | 1.7                              | S              | 1.0                              | S              |
| 15:00-16:00 HOUR | 2.3                              | E              | 1.6                              | SW             | 1.5                              | NE             |
| 16:00-17:00 HOUR | 1.9                              | ESE            | 1.5                              | E              | 1.0                              | WNW            |
| 17:00-18:00 HOUR | 1.7                              | ESE            | 1.5                              | SSE            | 1.1                              | SSE            |
| 18:00-19:00 HOUR | 1.9                              | ESE            | 1.7                              | SSE            | 1.5                              | SSE            |
| 19:00-20:00 HOUR | 1.7                              | E              | 1.4                              | SSE            | 1.1                              | NE             |
| 20:00-21:00 HOUR | 2.0                              | E              | 1.0                              | SE             | 0.5                              | NE             |
| 21:00-22:00 HOUR | 1.6                              | SE             | 1.1                              | SE             | 1.2                              | ESE            |
| 22:00-23:00 HOUR | 2.1                              | SE             | 1.1                              | ESE            | 1.0                              | SE             |
| 23:00-00:00 HOUR | 1.3                              | SE             | 1.5                              | ESE            | 1.4                              | SSE            |
| 00:00-01:00 HOUR | 1.4                              | ESE            | 1.8                              | ESE            | 1.3                              | SE             |
| 01:00-02:00 HOUR | 2.0                              | ESE            | 1.2                              | SE             | 0.9                              | SE             |
| 02:00-03:00 HOUR | 1.6                              | ESE            | 1.8                              | ESE            | 1.1                              | ESE            |
| 03:00-04:00 HOUR | 1.0                              | SE             | 2.5                              | E              | 1.8                              | ESE            |
| 04:00-05:00 HOUR | 2.0                              | SE             | 1.9                              | ESE            | 2.1                              | ESE            |
| 05:00-06:00 HOUR | 1.2                              | SE             | 2.0                              | ESE            | 1.9                              | E              |
| 06:00-07:00 HOUR | 0.9                              | SE             | 2.1                              | ESE            | 2.3                              | E              |
| 07:00-08:00 HOUR | 1.1                              | ESE            | 1.7                              | ESE            | 2.0                              | E              |



| TIME *           | RESULT (m/s)      |                |                 |                |                 |                |                 |                |
|------------------|-------------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|
|                  | บริเวณโครงการ TCP |                |                 |                |                 |                |                 |                |
|                  | MAY 17-18, 2025   |                | MAY 18-19, 2025 |                | MAY 19-20, 2025 |                | MAY 20-21, 2025 |                |
|                  | T25AK872-0011     |                | T25AK872-0012   |                | T25AK872-0013   |                | T25AK872-0014   |                |
|                  | WIND SPEED        | WIND DIRECTION | WIND SPEED      | WIND DIRECTION | WIND SPEED      | WIND DIRECTION | WIND SPEED      | WIND DIRECTION |
| 08:00-09:00 HOUR | 1.2               | ESE            | 1.1             | ESE            | 1.5             | SE             | 2.0             | SSE            |
| 09:00-10:00 HOUR | 1.7               | ESE            | 2.1             | E              | 1.8             | SSE            | 2.4             | S              |
| 10:00-11:00 HOUR | 1.8               | W              | 1.3             | ESE            | 2.2             | SSE            | 1.7             | S              |
| 11:00-12:00 HOUR | 2.0               | WNW            | 2.0             | W              | 2.2             | S              | 1.2             | WSW            |
| 12:00-13:00 HOUR | 1.6               | W              | 2.3             | W              | 1.7             | S              | 2.3             | W              |
| 13:00-14:00 HOUR | 1.6               | WNW            | 2.3             | SW             | 2.5             | S              | 1.9             | WSW            |
| 14:00-15:00 HOUR | 1.0               | ESE            | 2.4             | SSW            | 2.5             | S              | 1.7             | SW             |
| 15:00-16:00 HOUR | 1.4               | E              | 1.5             | E              | 3.3             | SSW            | 2.2             | SW             |
| 16:00-17:00 HOUR | 1.5               | E              | 2.2             | S              | 3.1             | SSW            | 2.0             | S              |
| 17:00-18:00 HOUR | 1.3               | NE             | 1.6             | S              | 2.9             | SSW            | 2.0             | S              |
| 18:00-19:00 HOUR | 0.9               | SE             | 2.1             | S              | 2.0             | SSE            | 1.7             | SSE            |
| 19:00-20:00 HOUR | 1.8               | ESE            | 1.5             | SSE            | 1.5             | SE             | 1.7             | SSE            |
| 20:00-21:00 HOUR | 1.0               | ESE            | 1.2             | SE             | 1.3             | SE             | 1.8             | SE             |
| 21:00-22:00 HOUR | 1.0               | ESE            | 1.2             | SE             | 0.9             | SE             | 1.2             | SE             |
| 22:00-23:00 HOUR | 1.0               | ESE            | 0.8             | ESE            | 1.0             | SE             | 1.4             | SE             |
| 23:00-00:00 HOUR | 0.7               | ENE            | 1.0             | ESE            | 1.1             | SSE            | 1.1             | ESE            |
| 00:00-01:00 HOUR | 0.8               | NE             | 1.7             | ESE            | 1.0             | SSE            | 1.5             | ESE            |
| 01:00-02:00 HOUR | 1.0               | W              | 1.9             | E              | 1.5             | E              | 1.6             | ESE            |
| 02:00-03:00 HOUR | 0.9               | N              | 2.2             | E              | 1.7             | E              | 2.0             | E              |
| 03:00-04:00 HOUR | 1.1               | NNE            | 1.9             | E              | 1.5             | E              | 1.0             | SE             |
| 04:00-05:00 HOUR | 1.6               | E              | 2.3             | E              | 1.2             | ESE            | 1.3             | ESE            |
| 05:00-06:00 HOUR | 1.9               | E              | 1.8             | E              | 2.4             | ESE            | 1.4             | ESE            |
| 06:00-07:00 HOUR | 2.3               | E              | 2.0             | E              | 2.2             | E              | 1.6             | ESE            |
| 07:00-08:00 HOUR | 1.9               | ESE            | 2.4             | E              | 1.4             | ESE            | 1.6             | SE             |

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR



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- THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.

---

ใบรับรองผลการตรวจวิเคราะห์  
คุณภาพอากาศจากปล่องระบายอากาศ



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

### STACK EMISSION ANALYSIS REPORT

|                    |                                       |                  |                                                             |
|--------------------|---------------------------------------|------------------|-------------------------------------------------------------|
| CLIENT NAME        | : Thai Tokai Carbon Product Co., Ltd. | REFERENCE NO.    | : 225023sign(stk)-Feb/PM, SO <sub>2</sub> , NO <sub>x</sub> |
| SAMPLING BY        | : SECOT Co., Ltd.                     | SAMPLING DATE    | : 07/02/2025                                                |
| RECEIVED DATE      | : 10/02/2025                          | ANALYTICAL DATE  | : 10-15/02/2025, 17/02/2025                                 |
| REPORT DATE        | : 20/02/2025                          | SAMPLE CONDITION | : Normal                                                    |
| STACK LOCATION     | : Combined Concrete Stack             | OPERATOR         | : Mr. Pisanu Seenampeng                                     |
| SOURCE DESCRIPTION | : Combustion                          | FUEL TYPE        | : Tail gas                                                  |
| STACK DESCRIPTION  |                                       |                  |                                                             |

|             |         |    |               |         |           |
|-------------|---------|----|---------------|---------|-----------|
| Height      | : 100.0 | m  | Gas Velocity  | : 20.2  | m/s       |
| Diameter    | : 3.0   | m  | Flow Rate*    | : 3,209 | Ncu.m/min |
| Temperature | : 376.5 | °C | Excess Oxygen | : 12.1  | %         |

| PARAMETER          | UNITS     | RESULTS*            |                  | STANDARDS <sup>1/</sup> | REFERENCE         |
|--------------------|-----------|---------------------|------------------|-------------------------|-------------------|
|                    |           | 12.1%O <sub>2</sub> | 7%O <sub>2</sub> | 7%O <sub>2</sub>        | METHODS           |
| Particulate matter | mg/Ncu.m. | 32.9                | 52.0             | 240                     | US. EPA Method 5  |
| Sulfur Dioxide     | ppm       | 130.1               | 205.5            | 950                     | US. EPA Method 6  |
| Oxide of Nitrogen  | ppm       | 91.0                | 143.7            | 200                     | US. EPA Method 7A |

*Pornnapa Budthum*

(Miss Pornnapa Budthum)

Analyst

REG.NO.จ-239-จ-0018

*Narisa Poowasanpetch*

(Miss Narisa Poowasanpetch)

Technical Management Team

REG.NO.จ-239-ท-0010

**Remark :** 1. Reported analysis refers to submitted sample only.

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3. \* At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>1/</sup> Notification of the Ministry of Industry, B.E.2549 and the Ministry of Natural Resources and Environment, B.E.2549.





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### STACK EMISSION ANALYSIS REPORT

|                    |                                       |                  |                          |
|--------------------|---------------------------------------|------------------|--------------------------|
| CLIENT NAME        | : Thai Tokai Carbon Product Co., Ltd. | REFERENCE NO.    | : 225023sign(stk)-Feb/CO |
| SAMPLING BY        | : SECOT Co., Ltd.                     | SAMPLING DATE    | : 07/02/2025             |
| RECEIVED DATE      | : 10/02/2025                          | ANALYTICAL DATE  | : 11/02/2025             |
| REPORT DATE        | : 20/02/2025                          | SAMPLE CONDITION | : Normal                 |
| STACK LOCATION     | : Combined Concrete Stack             | OPERATOR         | : Mr. Pisanu Seenampeng  |
| SOURCE DESCRIPTION | : Combustion                          | FUEL TYPE        | : Tail gas               |

#### STACK DESCRIPTION

|             |         |    |                         |         |           |
|-------------|---------|----|-------------------------|---------|-----------|
| Height      | : 100.0 | m  | Gas Velocity            | : 20.2  | m/s       |
| Diameter    | : 3.0   | m  | Flow Rate <sup>1/</sup> | : 3,209 | Ncu.m/min |
| Temperature | : 376.5 | °C | Excess Oxygen           | : 12.1  | %         |

| PARAMETER       | UNIT | RESULT <sup>1/</sup> |                  | STANDARD <sup>2/</sup> | REFERENCE<br>METHOD |
|-----------------|------|----------------------|------------------|------------------------|---------------------|
|                 |      | 12.1%O <sub>2</sub>  | 7%O <sub>2</sub> | 7%O <sub>2</sub>       |                     |
| Carbon Monoxide | ppm  | 6.3                  | 10.0             | 690                    | US. EPA Method 10   |

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(Miss Sudaporn Soonthorn)

Analyst

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Narisa Poowasanpetch

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Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.

4. <sup>2/</sup> Notification of the Ministry of Industry, B.E.2549 and the Ministry of Natural Resources and Environment, B.E.2549.



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### STACK EMISSION ANALYSIS REPORT

|                    |                                       |                  |                                |
|--------------------|---------------------------------------|------------------|--------------------------------|
| CLIENT NAME        | : Thai Tokai Carbon Product Co., Ltd. | REFERENCE NO.    | : 225023-Stk-2505-0313         |
| SAMPLING BY        | : SECOT Co., Ltd.                     | SAMPLING DATE    | : 02/06/2025                   |
| RECEIVED DATE      | : 04/06/2025                          | ANALYTICAL DATE  | : 04-10/06/2025                |
| REPORT DATE        | : 16/06/2025                          | SAMPLE CONDITION | : Normal                       |
| STACK LOCATION     | : Combined Concrete Stack             | OPERATOR         | : Mr. Sittichai Sawangwongchai |
| SOURCE DESCRIPTION | : Combustion                          | FUEL TYPE        | : Tail gas                     |
| STACK DESCRIPTION  |                                       |                  |                                |

|             |         |    |               |         |           |
|-------------|---------|----|---------------|---------|-----------|
| Height      | : 100.0 | m  | Gas Velocity  | : 22.1  | m/s       |
| Diameter    | : 3.0   | m  | Flow Rate*    | : 4,926 | Ncu.m/min |
| Temperature | : 235.0 | °C | Excess Oxygen | : 13.1  | %         |

| PARAMETER          | UNITS     | RESULTS*            |                  | STANDARDS <sup>1/</sup> | REFERENCE         |
|--------------------|-----------|---------------------|------------------|-------------------------|-------------------|
|                    |           | 13.1%O <sub>2</sub> | 7%O <sub>2</sub> | 7%O <sub>2</sub>        | METHODS           |
| Particulate matter | mg/Ncu.m. | 15.0                | 26.7             | 240                     | US. EPA Method 5  |
| Sulfur Dioxide     | ppm       | 181.4               | 323.3            | 950                     | US. EPA Method 6  |
| Oxide of Nitrogen  | ppm       | 83.8                | 149.3            | 200                     | US. EPA Method 7A |

*Bongpa Budthum*

(Miss Pornnapa Budthum)

Analyst

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*Narisa Poowasanpetch*

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4. <sup>1/</sup> Notification of the Ministry of Industry, B.E.2549 and the Ministry of Natural Resources and Environment, B.E.2549.



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### STACK EMISSION ANALYSIS REPORT

|                    |                                       |                  |                                |
|--------------------|---------------------------------------|------------------|--------------------------------|
| CLIENT NAME        | : Thai Tokai Carbon Product Co., Ltd. | REFERENCE NO.    | : 225023-Stk-2505-0313         |
| SAMPLING BY        | : SECOT Co., Ltd.                     | SAMPLING DATE    | : 02/06/2025                   |
| RECEIVED DATE      | : 04/06/2025                          | ANALYTICAL DATE  | : 07/06/2025                   |
| REPORT DATE        | : 16/06/2025                          | SAMPLE CONDITION | : Normal                       |
| STACK LOCATION     | : Combined Concrete Stack             | OPERATOR         | : Mr. Sittichai Sawangwongchai |
| SOURCE DESCRIPTION | : Combustion                          | FUEL TYPE        | : Tail gas                     |

#### STACK DESCRIPTION

|             |         |    |                         |         |           |
|-------------|---------|----|-------------------------|---------|-----------|
| Height      | : 100.0 | m  | Gas Velocity            | : 22.1  | m/s       |
| Diameter    | : 3.0   | m  | Flow Rate <sup>1/</sup> | : 4,926 | Ncu.m/min |
| Temperature | : 235.0 | °C | Excess Oxygen           | : 13.1  | %         |

| PARAMETER       | UNIT | RESULT <sup>1/</sup> |                  | STANDARD <sup>2/</sup> | REFERENCE         |
|-----------------|------|----------------------|------------------|------------------------|-------------------|
|                 |      | 13.1%O <sub>2</sub>  | 7%O <sub>2</sub> | 7%O <sub>2</sub>       | METHOD            |
| Carbon Monoxide | ppm  | 13.5                 | 24.0             | 690                    | US. EPA Method 10 |

Sudaporn S.

(Miss Sudaporn Soonthorn)

Analyst

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4. <sup>2/</sup> Notification of the Ministry of Industry, B.E.2549 and the Ministry of Natural Resources and Environment, B.E.2549.



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STACK EMISSION ANALYSIS REPORT

|                    |                                       |                  |                                             |
|--------------------|---------------------------------------|------------------|---------------------------------------------|
| CLIENT NAME        | : Thai Tokai Carbon Product Co., Ltd. | REFERENCE NO.    | : 225023-stk-sign/Process Bag Filter-Feb/PM |
| SAMPLING BY        | : SECOT Co., Ltd.                     | SAMPLING DATE    | : 07/02/2025                                |
| RECEIVED DATE      | : 10/02/2025                          | ANALYTICAL DATE  | : 10-15/02/2025                             |
| REPORT DATE        | : 18/02/2025                          | SAMPLE CONDITION | : Normal                                    |
| STACK LOCATION     | : Process Bag Filter Stack fo Unit 7  | OPERATOR         | : Mr. Pisanu Seenampeng                     |
| SOURCE DESCRIPTION | : Process                             | FUEL TYPE        | : -                                         |
| STACK DESCRIPTION  |                                       |                  |                                             |

|             |        |    |               |        |           |
|-------------|--------|----|---------------|--------|-----------|
| Height      | : 30.0 | m  | Gas Velocity  | : 26.0 | m/s       |
| Diameter    | : 0.65 | m  | Flow Rate*    | : 386  | Ncu.m/min |
| Temperature | : 77.0 | °C | Excess Oxygen | : 20.7 | %         |

| PARAMETER          | UNIT      | RESULT | STANDARD <sup>1/</sup> | REFERENCE<br>METHOD |
|--------------------|-----------|--------|------------------------|---------------------|
| Particulate matter | mg/Ncu.m. | 2.3    | 400                    | US. EPA Method 5    |

  
(Miss Pornnapa Budthum)

Analyst

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(Miss Narisa Poowasanpetch)

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4. <sup>1/</sup> Notification of the Ministry of Industry, B.E.2549 and the Ministry of Natural Resources and Environment, B.E.2549.



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จากบ่อกักน้ำทิ้ง (Effluent Tank (M-910))



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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                        |
|------------------|---------------------------------------------|---------------------|------------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 0058/68              |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab                 |
| SAMPLING DATE    | : 09/01/2025                                | SAMPLING TIME       | : 09:11                |
| RECEIVED DATE    | : 10/01/2025                                | ANALYTICAL DATE     | : 10-17/01/2025        |
| REPORT DATE      | : 18/01/2025                                | SITE OPERATOR       | : Mr. Baworn Deechaiya |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_January    |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS                  | ND<br>(non-detectable) | STATION               | STANDARD <sup>1/</sup> |
|------------------------|------|--------------------------------------|------------------------|-----------------------|------------------------|
|                        |      |                                      |                        | Effluent Tank : M-910 |                        |
| Temperature            | °C   | 2550 B                               | < 0.5                  | 27.9                  | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B                | < 0.10                 | 7.32                  | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                               | < 25                   | 402                   | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                               | < 2.5                  | 5.0                   | ≤ 50                   |
| TKN                    | mg/l | 4500-N <sub>org</sub> B              | < 0.20                 | 2.4                   | ≤ 100                  |
| Sulfate*               | mg/l | 4500-SO <sub>4</sub> <sup>2-</sup> E | < 1.00                 | 41                    | -                      |
| Sulfide                | mg/l | 4500-S <sup>2-</sup> F               | < 0.20                 | ND                    | ≤ 1                    |
| Fat Oil & Grease       | mg/l | 5520 B                               | < 2.0                  | ND                    | ≤ 5                    |
| Phenols                | mg/l | 5530 B,C                             | < 0.001                | ND                    | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l | 5210 B                               | < 1.0                  | < 1.0                 | ≤ 20                   |
| COD                    | mg/l | 5220 D                               | < 40.00                | 64.17                 | ≤ 120                  |

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.,2017 (AWWA,APHA, WEF)

( Miss Khemchuda Insorn )

Analyst

REG. NO. ๖-239-ค-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-ค-0004

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  3. <sup>1/</sup> Notification of the Ministry of Natural Resources and Environment, B.E.2559 (2016).
  4. \* Not registered with the Department of Industrial Works.
  5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                        |
|------------------|---------------------------------------------|---------------------|------------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 0205/68              |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab                 |
| SAMPLING DATE    | : 06/02/2025                                | SAMPLING TIME       | : 08:22                |
| RECEIVED DATE    | : 07/02/2025                                | ANALYTICAL DATE     | : 07-15/02/2025        |
| REPORT DATE      | : 15/02/2025                                | SITE OPERATOR       | : Mr. Baworn Deechaiya |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_February   |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS                  | ND<br>(non-detectable) | STATION               | STANDARD <sup>1/</sup> |
|------------------------|------|--------------------------------------|------------------------|-----------------------|------------------------|
|                        |      |                                      |                        | Effluent Tank : M-910 |                        |
| Temperature            | °C   | 2550 B                               | < 0.5                  | 29.5                  | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B                | < 0.10                 | 7.51                  | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                               | < 25                   | 400                   | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                               | < 2.5                  | < 2.5                 | ≤ 50                   |
| TKN                    | mg/l | 4500-N <sub>org</sub> B              | < 0.20                 | 1.8                   | ≤ 100                  |
| Sulfate*               | mg/l | 4500-SO <sub>4</sub> <sup>2-</sup> E | < 1.00                 | 40.3                  | -                      |
| Sulfide                | mg/l | 4500-S <sup>2-</sup> F               | < 0.20                 | ND                    | ≤ 1                    |
| Fat Oil & Grease       | mg/l | 5520 B                               | < 2.0                  | ND                    | ≤ 5                    |
| Phenols                | mg/l | 5530 B,C                             | < 0.001                | ND                    | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l | 5210 B                               | < 1.0                  | < 1.0                 | ≤ 20                   |
| COD                    | mg/l | 5220 D                               | < 40.00                | < 40.00               | ≤ 120                  |

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

( Miss Khemchuda Insorn )

Analyst

REG. NO. ๖-239-ค-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-ค-0004

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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                            |
|------------------|---------------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 0401/68                  |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab                     |
| SAMPLING DATE    | : 06/03/2025                                | SAMPLING TIME       | : 08:30                    |
| RECEIVED DATE    | : 07/03/2025                                | ANALYTICAL DATE     | : 07-14/03/2025            |
| REPORT DATE      | : 14/03/2025                                | SITE OPERATOR       | : Mr.Natthachai Chaiyakhot |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_March          |

| PARAMETER              | UNIT | ANALYSIS                             | ND               | STATION               | STANDARD <sup>1/</sup> |
|------------------------|------|--------------------------------------|------------------|-----------------------|------------------------|
|                        |      | METHODS                              | (non-detectable) | Effluent Tank : M-910 |                        |
| Temperature            | °C   | 2550 B                               | < 0.5            | 30.4                  | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B                | < 0.10           | 7.93                  | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                               | < 25             | 552                   | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                               | < 2.5            | 2.8                   | ≤ 50                   |
| TKN                    | mg/l | 4500-N <sub>org</sub> B              | < 0.20           | 1.9                   | ≤ 100                  |
| Sulfate*               | mg/l | 4500-SO <sub>4</sub> <sup>2-</sup> E | < 1.00           | 80.6                  | -                      |
| Sulfide                | mg/l | 4500-S <sup>2-</sup> F               | < 0.20           | ND                    | ≤ 1                    |
| Fat Oil & Grease       | mg/l | 5520 B                               | < 2.0            | ND                    | ≤ 5                    |
| Phenols                | mg/l | 5530 B,C                             | < 0.001          | ND                    | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l | 5210 B                               | < 1.0            | < 1.0                 | ≤ 20                   |
| COD                    | mg/l | 5220 D                               | < 40.00          | < 40.00               | ≤ 120                  |

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.,2017 (AWWA,APHA, WEF)

( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ค-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ค-0004

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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                           |
|------------------|---------------------------------------------|---------------------|---------------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 0645/68                 |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab                    |
| SAMPLING DATE    | : 08/04/2025                                | SAMPLING TIME       | : 08:15                   |
| RECEIVED DATE    | : 09/04/2025                                | ANALYTICAL DATE     | : 09-18/04/2025           |
| REPORT DATE      | : 19/04/2025                                | SITE OPERATOR       | : Miss Wiraya Patchimboon |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_April         |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS                  | ND<br>(non-detectable) | STATION               | STANDARD <sup>1/</sup> |
|------------------------|------|--------------------------------------|------------------------|-----------------------|------------------------|
|                        |      |                                      |                        | Effluent Tank : M-910 |                        |
| Temperature            | °C   | 2550 B                               | < 0.5                  | 30.3                  | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B                | < 0.10                 | 8.00                  | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                               | < 25                   | 940                   | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                               | < 2.5                  | 9.6                   | ≤ 50                   |
| TKN                    | mg/l | 4500-N <sub>org</sub> B              | < 0.20                 | 1.2                   | ≤ 100                  |
| Sulfate*               | mg/l | 4500-SO <sub>4</sub> <sup>2-</sup> E | < 1.00                 | 78.1                  | -                      |
| Sulfide                | mg/l | 4500-S <sup>2-</sup> F               | < 0.20                 | ND                    | ≤ 1                    |
| Fat Oil & Grease       | mg/l | 5520 B                               | < 2.0                  | ND                    | ≤ 5                    |
| Phenols                | mg/l | 5530 B,C                             | < 0.001                | ND                    | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l | 5210 B                               | < 1.0                  | < 1.0                 | ≤ 20                   |
| COD                    | mg/l | 5220 D                               | < 40.00                | < 40.00               | ≤ 120                  |

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.,2017 (AWWA,APHA, WEF)

( Miss Khemchuda Insorn )

Analyst

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Technical Management Team

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3. <sup>1/</sup> Notification of the Ministry of Natural Resources and Environment, B.E.2559 (2016).

4. \* Not registered with the Department of Industrial Works.

5. - Not available.





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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                          |
|------------------|---------------------------------------------|---------------------|--------------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 0825/68                |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab                   |
| SAMPLING DATE    | : 08/05/2025                                | SAMPLING TIME       | : 08:19                  |
| RECEIVED DATE    | : 09/05/2025                                | ANALYTICAL DATE     | : 09-18/05/2025          |
| REPORT DATE      | : 19/05/2025                                | SITE OPERATOR       | : Mr. Chitpon Somprasong |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_May          |

| PARAMETER              | UNIT | ANALYSIS                             | ND               | STATION               | STANDARD <sup>1/</sup> |
|------------------------|------|--------------------------------------|------------------|-----------------------|------------------------|
|                        |      | METHODS                              | (non-detectable) | Effluent Tank : M-910 |                        |
| Temperature            | °C   | 2550 B                               | < 0.5            | 31.1                  | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B                | < 0.10           | 7.09                  | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                               | < 25             | 494                   | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                               | < 2.5            | < 2.5                 | ≤ 50                   |
| TKN                    | mg/l | 4500-N <sub>org</sub> B              | < 0.20           | 2.2                   | ≤ 100                  |
| Sulfate*               | mg/l | 4500-SO <sub>4</sub> <sup>2-</sup> E | < 1.00           | 71.5                  | -                      |
| Sulfide                | mg/l | 4500-S <sup>2-</sup> F               | < 0.20           | ND                    | ≤ 1                    |
| Fat Oil & Grease       | mg/l | 5520 B                               | < 2.0            | ND                    | ≤ 5                    |
| Phenols                | mg/l | 5530 B,C                             | < 0.001          | ND                    | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l | 5210 B                               | < 1.0            | 1.2                   | ≤ 20                   |
| COD                    | mg/l | 5220 D                               | < 40.00          | < 40.00               | ≤ 120                  |

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.,2017 (AWWA,APHA, WEF)

( Miss Khemchuda Insorn )

Analyst

REG. NO. ๖-239-๓-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๓-0004

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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                      |
|------------------|---------------------------------------------|---------------------|----------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 1029/68            |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab               |
| SAMPLING DATE    | : 05/06/2025                                | SAMPLING TIME       | : 08:16              |
| RECEIVED DATE    | : 06/06/2025                                | ANALYTICAL DATE     | : 06-13/06/2025      |
| REPORT DATE      | : 13/06/2025                                | SITE OPERATOR       | : Miss Salisa Ainree |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_June     |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS                  | ND<br>(non-detectable) | STATION               | STANDARD <sup>1/</sup> |
|------------------------|------|--------------------------------------|------------------------|-----------------------|------------------------|
|                        |      |                                      |                        | Effluent Tank : M-910 |                        |
| Temperature            | °C   | 2550 B                               | < 0.5                  | 31.4                  | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B                | < 0.10                 | 6.81                  | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                               | < 25                   | 396                   | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                               | < 2.5                  | < 2.5                 | ≤ 50                   |
| TKN                    | mg/l | 4500-N <sub>org</sub> B              | < 0.20                 | 0.78                  | ≤ 100                  |
| Sulfate*               | mg/l | 4500-SO <sub>4</sub> <sup>2-</sup> E | < 1.00                 | 44.4                  | -                      |
| Sulfide                | mg/l | 4500-S <sup>2-</sup> F               | < 0.20                 | ND                    | ≤ 1                    |
| Fat Oil & Grease       | mg/l | 5520 B                               | < 2.0                  | ND                    | ≤ 5                    |
| Phenols                | mg/l | 5530 B,C                             | < 0.001                | ND                    | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l | 5210 B                               | < 1.0                  | < 1.0                 | ≤ 20                   |
| COD                    | mg/l | 5220 D                               | < 40.00                | < 40.00               | ≤ 120                  |

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.,2017 (AWWA,APHA, WEF)

( Miss Khemchuda Insorn )

Analyst

REG. NO. ๖-239-ก-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-ก-0004

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จากบ่อกักน้ำทิ้ง FGD





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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                        |
|------------------|---------------------------------------------|---------------------|------------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 0058/68              |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab                 |
| SAMPLING DATE    | : 09/01/2025                                | SAMPLING TIME       | : 09:27                |
| RECEIVED DATE    | : 10/01/2025                                | ANALYTICAL DATE     | : 10-17/01/2025        |
| REPORT DATE      | : 18/01/2025                                | SITE OPERATOR       | : Mr. Baworn Deechaiya |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_January    |

| PARAMETER              | UNIT | ANALYSIS              | ND<br>(non-detectable) | STATION                   | STANDARD <sup>1/</sup> |
|------------------------|------|-----------------------|------------------------|---------------------------|------------------------|
|                        |      | METHODS               |                        | FGD Filtered Sump(V-701B) |                        |
| Temperature            | °C   | 2550 B                | < 0.5                  | 28.1                      | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 7.62                      | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                | < 25                   | 2,790                     | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                | < 2.5                  | 33                        | ≤ 50                   |
| COD                    | mg/l | 5220 D                | < 40.00                | <40.00                    | ≤ 120                  |

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

( Miss Khemchuda Insorn )

Analyst

REG. NO. ๖-239-ค-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-ค-0004

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### WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                        |
|------------------|---------------------------------------------|---------------------|------------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 0205/68              |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab                 |
| SAMPLING DATE    | : 06/02/2025                                | SAMPLING TIME       | : 08:43                |
| RECEIVED DATE    | : 07/02/2025                                | ANALYTICAL DATE     | : 07-15/02/2025        |
| REPORT DATE      | : 15/02/2025                                | SITE OPERATOR       | : Mr. Baworn Deechaiya |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_February   |

| PARAMETER              | UNIT | ANALYSIS              | ND               | STATION                   | STANDARD <sup>1/</sup> |
|------------------------|------|-----------------------|------------------|---------------------------|------------------------|
|                        |      | METHODS               | (non-detectable) | FGD Filtered Sump(V-701B) |                        |
| Temperature            | °C   | 2550 B                | < 0.5            | 29.6                      | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10           | 7.35                      | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                | < 25             | 2,032                     | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                | < 2.5            | 16                        | ≤ 50                   |
| COD                    | mg/l | 5220 D                | < 40.00          | 40.51                     | ≤ 120                  |

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                            |
|------------------|---------------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 0401/68                  |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab                     |
| SAMPLING DATE    | : 06/03/2025                                | SAMPLING TIME       | : 08:46                    |
| RECEIVED DATE    | : 07/03/2025                                | ANALYTICAL DATE     | : 07-14/03/2025            |
| REPORT DATE      | : 14/03/2025                                | SITE OPERATOR       | : Mr.Natthachai Chaiyakhot |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_March          |

| PARAMETER              | UNIT | ANALYSIS              | ND<br>(non-detectable) | STATION                   | STANDARD <sup>1/</sup> |
|------------------------|------|-----------------------|------------------------|---------------------------|------------------------|
|                        |      | METHODS               |                        | FGD Filtered Sump(V-701B) |                        |
| Temperature            | °C   | 2550 B                | < 0.5                  | 30.4                      | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 7.77                      | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                | < 25                   | 2,298                     | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                | < 2.5                  | 8.8                       | ≤ 50                   |
| COD                    | mg/l | 5220 D                | < 40.00                | < 40.00                   | ≤ 120                  |

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.,2017 (AWWA,APHA, WEF)

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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                           |
|------------------|---------------------------------------------|---------------------|---------------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 0645/68                 |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab                    |
| SAMPLING DATE    | : 08/04/2025                                | SAMPLING TIME       | : 08:45                   |
| RECEIVED DATE    | : 09/04/2025                                | ANALYTICAL DATE     | : 09-18/04/2025           |
| REPORT DATE      | : 19/04/2025                                | SITE OPERATOR       | : Miss Wiraya Patchimboon |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_April         |

| PARAMETER              | UNIT | ANALYSIS              | ND<br>(non-detectable) | STATION                   | STANDARD <sup>1/</sup> |
|------------------------|------|-----------------------|------------------------|---------------------------|------------------------|
|                        |      | METHODS               |                        | FGD Filtered Sump(V-701B) |                        |
| Temperature            | °C   | 2550 B                | < 0.5                  | 32.0                      | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 7.71                      | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                | < 25                   | 1,698                     | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                | < 2.5                  | 3.8                       | ≤ 50                   |
| COD                    | mg/l | 5220 D                | < 40.00                | < 40.00                   | ≤ 120                  |

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                          |
|------------------|---------------------------------------------|---------------------|--------------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 0825/68                |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab                   |
| SAMPLING DATE    | : 08/05/2025                                | SAMPLING TIME       | : 08:30                  |
| RECEIVED DATE    | : 09/05/2025                                | ANALYTICAL DATE     | : 09-18/05/2025          |
| REPORT DATE      | : 19/05/2025                                | SITE OPERATOR       | : Mr. Chitpon Somprasong |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_May          |

| PARAMETER              | UNIT | ANALYSIS              | ND               | STATION                   | STANDARD <sup>1/</sup> |
|------------------------|------|-----------------------|------------------|---------------------------|------------------------|
|                        |      | METHODS               | (non-detectable) | FGD Filtered Sump(V-701B) |                        |
| Temperature            | °C   | 2550 B                | < 0.5            | 34.6                      | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10           | 7.47                      | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                | < 25             | 2,000                     | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                | < 2.5            | 14                        | ≤ 50                   |
| COD                    | mg/l | 5220 D                | < 40.00          | < 40.00                   | ≤ 120                  |

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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                             |                     |                      |
|------------------|---------------------------------------------|---------------------|----------------------|
| CLIENT NAME      | : Thai Tokai Carbon Product Company Limited | REQUEST SERVICE No. | : 1029/68            |
| SAMPLING BY      | : SECOT Co., Ltd.                           | SAMPLING METHOD     | : Grab               |
| SAMPLING DATE    | : 05/06/2025                                | SAMPLING TIME       | : 08:34              |
| RECEIVED DATE    | : 06/06/2025                                | ANALYTICAL DATE     | : 06-13/06/2025      |
| REPORT DATE      | : 13/06/2025                                | SITE OPERATOR       | : Miss Salisa Ainree |
| SAMPLE CONDITION | : Normal                                    | FILE CODE           | : 225023_WW_June     |

| PARAMETER              | UNIT | ANALYSIS              | ND               | STATION                   | STANDARD <sup>1/</sup> |
|------------------------|------|-----------------------|------------------|---------------------------|------------------------|
|                        |      | METHODS               | (non-detectable) | FGD Filtered Sump(V-701B) |                        |
| Temperature            | °C   | 2550 B                | < 0.5            | 33.7                      | ≤ 40                   |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10           | 6.97                      | 5.5-9.0                |
| Total Dissolved Solids | mg/l | 2540 C                | < 25             | 1,698                     | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                | < 2.5            | 14                        | ≤ 50                   |
| COD                    | mg/l | 5220 D                | < 40.00          | < 40.00                   | ≤ 120                  |

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

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## บริษัท ซีคอต จำกัด SECOT CO., LTD.

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### ANALYSIS/TEST REPORT

|          |                                                                                                   |                     |              |
|----------|---------------------------------------------------------------------------------------------------|---------------------|--------------|
| Customer | : EED/SECOT Co., Ltd.                                                                             | Request Service No. | : 0283/68    |
| For      | : Thai Tokai Carbon Product Co.,Ltd.                                                              | Sampling Date       | : 11/02/2025 |
| Address  | : 42/2 Moo. 1 Sukhumvit Highway , km 124.5 , Tung-Sukla ,<br>Sriracha , Chonburi 20230 , Thailand | Received Date       | : 14/02/2025 |
| Tel/Fax  | : 0-3835-2487 ext. 5503 / 0-3835-2246-7                                                           | Test Date           | : 15/02/2025 |
|          |                                                                                                   | Report Date         | : 25/02/2025 |

#### SAMPLE DESCRIPTION / SAMPLING INFORMATION

|                      |                   |                  |                |
|----------------------|-------------------|------------------|----------------|
| Sample Designated As | : Workplace Air   | Sampling Method  | : Sampling Bag |
| Sampling By          | : SECOT Co., Ltd. | Sample Condition | : Normal       |

| Sampling Location                                        | Sampling<br>Date/Time     | Compound        | Analytical<br>Method | ND<br>ppm | RESULT<br>ppm | STANDARD<br>ppm |
|----------------------------------------------------------|---------------------------|-----------------|----------------------|-----------|---------------|-----------------|
| บริเวณหน่วยของหอปฏิริยา<br>(Reactor) หน้า หอ 1           | 11/02/2025<br>08:55-09:10 | Carbon monoxide | NIOSH 6604/NDIR      | < 0.04    | 0.49          | 50              |
| บริเวณหน่วยของหอปฏิริยา<br>(Reactor) หลัง หอ 1           | 11/02/2025<br>09:57-10:12 | Carbon monoxide | NIOSH 6604/NDIR      | < 0.04    | 0.54          | 50              |
| บริเวณหน่วยของหอปฏิริยา<br>(Reactor) หน้า หอ 2           | 11/02/2025<br>09:12-09:27 | Carbon monoxide | NIOSH 6604/NDIR      | < 0.04    | 0.35          | 50              |
| บริเวณหน่วยของหอปฏิริยา<br>(Reactor) หลัง หอ 2           | 11/02/2025<br>09:42-09:57 | Carbon monoxide | NIOSH 6604/NDIR      | < 0.04    | 0.36          | 50              |
| บริเวณหน่วยของหอปฏิริยา (Reactor)<br>ระหว่าง หอ1 และ หอ2 | 11/02/2025<br>09:27-09:42 | Carbon monoxide | NIOSH 6604/NDIR      | < 0.04    | 0.40          | 50              |

Analyst By :

Sudaporn S.

( Miss Sudaporn Soonthorn )

Approved By :

Narisa Poowasanpetch

( Miss Narisa Poowasanpetch )

Technical Management Team

**Remark :** 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.
3. Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).
4. ND = non-detectable.





## บริษัท ซีคอต จำกัด SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

### ANALYSIS/TEST REPORT

|          |                                                                                                   |                     |              |
|----------|---------------------------------------------------------------------------------------------------|---------------------|--------------|
| Customer | : EED/SECOT Co., Ltd.                                                                             | Request Service No. | : 0949/68    |
| For      | : Thai Tokai Carbon Product Co.,Ltd.                                                              | Sampling Date       | : 23/05/2025 |
| Address  | : 42/2 Moo. 1 Sukhumvit Highway , km 124.5 , Tung-Sukla ,<br>Sriracha , Chonburi 20230 , Thailand | Received Date       | : 26/05/2025 |
|          |                                                                                                   | Test Date           | : 27/05/2025 |
| Tel/Fax  | : 0-3835-2487 ext. 5503 / 0-3835-2246-7                                                           | Report Date         | : 11/06/2025 |

#### SAMPLE DESCRIPTION / SAMPLING INFORMATION

|                      |                   |                  |                |
|----------------------|-------------------|------------------|----------------|
| Sample Designated As | : Workplace Air   | Sampling Method  | : Sampling Bag |
| Sampling By          | : SECOT Co., Ltd. | Sample Condition | : Normal       |

| Sampling Location                                        | Sampling<br>Date/Time     | Compound        | Analytical<br>Method | ND     | RESULT | STANDARD |
|----------------------------------------------------------|---------------------------|-----------------|----------------------|--------|--------|----------|
|                                                          |                           |                 |                      | ppm    | ppm    | ppm      |
| บริเวณหน่วยของหอปฏิริยา<br>(Reactor) หน้า หอ 1           | 23/05/2025<br>09:04-09:19 | Carbon monoxide | NIOSH 6604/NDIR      | < 0.04 | 1.85   | 50       |
| บริเวณหน่วยของหอปฏิริยา<br>(Reactor) หลัง หอ 1           | 23/05/2025<br>09:52-10:07 | Carbon monoxide | NIOSH 6604/NDIR      | < 0.04 | 0.60   | 50       |
| บริเวณหน่วยของหอปฏิริยา<br>(Reactor) หน้า หอ 2           | 23/05/2025<br>09:20-09:35 | Carbon monoxide | NIOSH 6604/NDIR      | < 0.04 | 1.17   | 50       |
| บริเวณหน่วยของหอปฏิริยา<br>(Reactor) หลัง หอ 2           | 23/05/2025<br>09:36-09:51 | Carbon monoxide | NIOSH 6604/NDIR      | < 0.04 | 1.22   | 50       |
| บริเวณหน่วยของหอปฏิริยา (Reactor)<br>ระหว่าง หอ1 และ หอ2 | 23/05/2025<br>10:08-10:23 | Carbon monoxide | NIOSH 6604/NDIR      | < 0.04 | 2.01   | 50       |

Analyst By :

Sudapom S.  
( Miss Sudaporn Soonthorn )

Approved By :

Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )

Technical Management Team

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4. ND = non-detectable.



## บริษัท ซีคอต จำกัด SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

### ANALYSIS/TEST REPORT

|          |                                                                                                  |                     |              |
|----------|--------------------------------------------------------------------------------------------------|---------------------|--------------|
| Customer | : EED/SECOT Co., Ltd.                                                                            | Request Service No. | : 0283/68    |
| For      | : Thai Tokai Carbon Product Co.,Ltd.                                                             | Sampling Date       | : 11/02/2025 |
| Address  | : 42/2 Moo.1 Sukhumvit Highway , km 124.5 , Tung-Sukla ,<br>Sriracha , Chonburi 20230 , Thailand | Received Date       | : 14/02/2025 |
|          |                                                                                                  | Test Date           | : 17/02/2025 |
| Tel/Fax  | : 0-3835-2487 ext. 5503 / 0-3835-2246-7                                                          | Report Date         | : 25/02/2025 |

#### SAMPLE DESCRIPTION / SAMPLING INFORMATION

|                      |                   |                  |              |
|----------------------|-------------------|------------------|--------------|
| Sample Designated As | : Workplace Air   | Sampling Method  | : Filtration |
| Sampling By          | : SECOT Co., Ltd. | Sample Condition | : Normal     |

| Sampling Location | Sampling<br>Date/Time     | Compound   | Analytical<br>Method     | ND                | RESULT            | STANDARD          |
|-------------------|---------------------------|------------|--------------------------|-------------------|-------------------|-------------------|
|                   |                           |            |                          | mg/m <sup>3</sup> | mg/m <sup>3</sup> | mg/m <sup>3</sup> |
| บริเวณบรรจุภัณฑ์  | 11/02/2025<br>10:10-12:10 | Total dust | NIOSH 0500 /Microbalance | < 0.25            | ND                | 15                |
| Packing Paper     | 11/02/2025<br>11:00-13:00 | Total dust | NIOSH 0500 /Microbalance | < 0.25            | ND                | 15                |
| ห้องล้างถุง       | 11/02/2025<br>10:16-12:16 | Total dust | NIOSH 0500 /Microbalance | < 0.25            | ND                | 15                |

Analyst By :

Pornnapa Budthum  
( Miss Pornnapa Budthum )

Approved By :

Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )

Technical Management Team

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3. Notification of the Occupational Safety and Health Administration (OSHA), B.E. 2555 (2012).

4. ND = non-detectable.



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

|          |                                                                                                  |                     |              |
|----------|--------------------------------------------------------------------------------------------------|---------------------|--------------|
| Customer | : EED/SECOT Co., Ltd.                                                                            | Request Service No. | : 0949/68    |
| For      | : Thai Tokai Carbon Product Co., Ltd.                                                            | Sampling Date       | : 23/05/2025 |
| Address  | : 42/2 Moo.1 Sukhumvit Highway , km 124.5 , Tung-Sukla ,<br>Sriracha , Chonburi 20230 , Thailand | Received Date       | : 26/05/2025 |
|          |                                                                                                  | Test Date           | : 27/05/2025 |
| Tel/Fax  | : 0-3835-2487 ext. 5503 / 0-3835-2246-7                                                          | Report Date         | : 11/06/2025 |

SAMPLE DESCRIPTION / SAMPLING INFORMATION

|                      |                   |                  |              |
|----------------------|-------------------|------------------|--------------|
| Sample Designated As | : Workplace Air   | Sampling Method  | : Filtration |
| Sampling By          | : SECOT Co., Ltd. | Sample Condition | : Normal     |

| Sampling Location | Sampling<br>Date/Time     | Compound   | Analytical<br>Method     | ND                | RESULT            | STANDARD          |
|-------------------|---------------------------|------------|--------------------------|-------------------|-------------------|-------------------|
|                   |                           |            |                          | mg/m <sup>3</sup> | mg/m <sup>3</sup> | mg/m <sup>3</sup> |
| บริเวณบรรจุภัณฑ์  | 23/05/2025<br>10:37-12:37 | Total dust | NIOSH 0500 /Microbalance | < 0.25            | 1.05              | 15                |
| Packing Paper     | 23/05/2025<br>10:35-12:35 | Total dust | NIOSH 0500 /Microbalance | < 0.25            | 0.96              | 15                |
| ห้องล้างถุง       | 23/05/2025<br>10:40-12:40 | Total dust | NIOSH 0500 /Microbalance | < 0.25            | ND                | 15                |

Analyst By : Pornapa Budthum  
( Miss Pornnapa Budthum )

Approved By : Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

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ใบรับรองผลการตรวจวัด  
ระดับเสียงในสถานประกอบการ



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Turbine Generator

Monitor Period : Feb 11, 2025

SLM Model : Cirrus CR162B

Serial No : G302738

Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.7/0.0

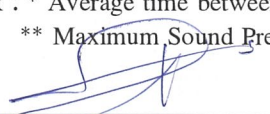
Expire Date : Oct 01 2025

Cal Sheet No.: CR-515-2025-030

| Time          | Equivalent Sound Pressure Level (dB(A)) |
|---------------|-----------------------------------------|
|               | Feb 11, 2025                            |
| 00:00 - 01:00 |                                         |
| 01:00 - 02:00 |                                         |
| 02:00 - 03:00 |                                         |
| 03:00 - 04:00 |                                         |
| 04:00 - 05:00 |                                         |
| 05:00 - 06:00 |                                         |
| 06:00 - 07:00 |                                         |
| 07:00 - 08:00 |                                         |
| 08:00 - 09:00 | 85.2                                    |
| 09:00 - 10:00 | 84.9                                    |
| 10:00 - 11:00 | 84.9                                    |
| 11:00 - 12:00 | 84.6                                    |
| 12:00 - 13:00 | 84.8                                    |
| 13:00 - 14:00 | 85.1                                    |
| 14:00 - 15:00 | 85.3                                    |
| 15:00 - 16:00 | 84.6                                    |
| 16:00 - 17:00 |                                         |
| 17:00 - 18:00 |                                         |
| 18:00 - 19:00 |                                         |
| 19:00 - 20:00 |                                         |
| 20:00 - 21:00 |                                         |
| 21:00 - 22:00 |                                         |
| 22:00 - 23:00 |                                         |
| 23:00 - 24:00 |                                         |
| Leq(8)*       | 84.9                                    |
| Lmax **       | 89.3                                    |
| Standard-8Hr  | 90 dB(A)                                |
| Standard-Max  | 140 dB(A)                               |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Sununta Sirawuttinanon)  
 Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Air Compressor K-701C

Monitor Period : Feb 11, 2025

SLM Model : SCARLET ST-21D

Serial No : 820728

Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.8/0.0

Expire Date : Oct 01 2025

Cal Sheet No.: CR-515-2025-031

| Time          | Equivalent Sound Pressure Level (dB(A)) |
|---------------|-----------------------------------------|
|               | Feb 11, 2025                            |
| 00:00 - 01:00 |                                         |
| 01:00 - 02:00 |                                         |
| 02:00 - 03:00 |                                         |
| 03:00 - 04:00 |                                         |
| 04:00 - 05:00 |                                         |
| 05:00 - 06:00 |                                         |
| 06:00 - 07:00 |                                         |
| 07:00 - 08:00 |                                         |
| 08:00 - 09:00 | 88.4                                    |
| 09:00 - 10:00 | 88.3                                    |
| 10:00 - 11:00 | 88.4                                    |
| 11:00 - 12:00 | 88.4                                    |
| 12:00 - 13:00 | 88.3                                    |
| 13:00 - 14:00 | 88.3                                    |
| 14:00 - 15:00 | 88.3                                    |
| 15:00 - 16:00 | 88.0                                    |
| 16:00 - 17:00 |                                         |
| 17:00 - 18:00 |                                         |
| 18:00 - 19:00 |                                         |
| 19:00 - 20:00 |                                         |
| 20:00 - 21:00 |                                         |
| 21:00 - 22:00 |                                         |
| 22:00 - 23:00 |                                         |
| 23:00 - 24:00 |                                         |
| Leq(8)*       | 88.3                                    |
| Lmax **       | 97.3                                    |
| Standard-8Hr  | 90 dB(A)                                |
| Standard-Max  | 140 dB(A)                               |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team





## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Blower Compressor K-701E

Monitor Period : Feb 11, 2025

SLM Model : Cirrus CR162C

Serial No : G300838

Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.7/0.0

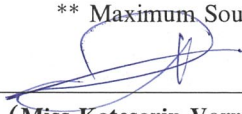
Expire Date : Oct 01 2025

Cal Sheet No.: CR-515-2025-030

| Time          | Equivalent Sound Pressure Level (dB(A)) |      |
|---------------|-----------------------------------------|------|
|               | Feb 11, 2025                            |      |
| 00:00 - 01:00 |                                         |      |
| 01:00 - 02:00 |                                         |      |
| 02:00 - 03:00 |                                         |      |
| 03:00 - 04:00 |                                         |      |
| 04:00 - 05:00 |                                         |      |
| 05:00 - 06:00 |                                         |      |
| 06:00 - 07:00 |                                         |      |
| 07:00 - 08:00 |                                         |      |
| 08:00 - 09:00 |                                         | 83.2 |
| 09:00 - 10:00 |                                         | 83.5 |
| 10:00 - 11:00 |                                         | 83.0 |
| 11:00 - 12:00 |                                         | 83.0 |
| 12:00 - 13:00 |                                         | 82.9 |
| 13:00 - 14:00 |                                         | 83.0 |
| 14:00 - 15:00 |                                         | 83.1 |
| 15:00 - 16:00 |                                         | 83.3 |
| 16:00 - 17:00 |                                         |      |
| 17:00 - 18:00 |                                         |      |
| 18:00 - 19:00 |                                         |      |
| 19:00 - 20:00 |                                         |      |
| 20:00 - 21:00 |                                         |      |
| 21:00 - 22:00 |                                         |      |
| 22:00 - 23:00 |                                         |      |
| 23:00 - 24:00 |                                         |      |
| Leq(8)*       | 83.1                                    |      |
| Lmax **       | 91.5                                    |      |
| Standard-8Hr  | 90 dB(A)                                |      |
| Standard-Max  | 140 dB(A)                               |      |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Sununta Sirawuttinanon)  
 Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Blower Compressor K-702A

Monitor Period : Feb 11, 2025

SLM Model : SCARLET ST-21D

Serial No : 820722

Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.8/0.0

Expire Date : Oct 01 2025

Cal Sheet No.: CR-515-2025-031

| Time          | Equivalent Sound Pressure Level (dB(A)) |  |
|---------------|-----------------------------------------|--|
|               | Feb 11, 2025                            |  |
| 00:00 - 01:00 |                                         |  |
| 01:00 - 02:00 |                                         |  |
| 02:00 - 03:00 |                                         |  |
| 03:00 - 04:00 |                                         |  |
| 04:00 - 05:00 |                                         |  |
| 05:00 - 06:00 |                                         |  |
| 06:00 - 07:00 |                                         |  |
| 07:00 - 08:00 |                                         |  |
| 08:00 - 09:00 | 89.0                                    |  |
| 09:00 - 10:00 | 88.8                                    |  |
| 10:00 - 11:00 | 88.9                                    |  |
| 11:00 - 12:00 | 88.7                                    |  |
| 12:00 - 13:00 | 88.7                                    |  |
| 13:00 - 14:00 | 88.7                                    |  |
| 14:00 - 15:00 | 88.7                                    |  |
| 15:00 - 16:00 | 88.1                                    |  |
| 16:00 - 17:00 |                                         |  |
| 17:00 - 18:00 |                                         |  |
| 18:00 - 19:00 |                                         |  |
| 19:00 - 20:00 |                                         |  |
| 20:00 - 21:00 |                                         |  |
| 21:00 - 22:00 |                                         |  |
| 22:00 - 23:00 |                                         |  |
| 23:00 - 24:00 |                                         |  |
| Leq(8)*       | 88.7                                    |  |
| Lmax **       | 95.4                                    |  |
| Standard-8Hr  | 90 dB(A)                                |  |
| Standard-Max  | 140 dB(A)                               |  |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team





## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Blower Compressor K-702B

Monitor Period : Feb 11, 2025

SLM Model : SCARLET ST-21D

Serial No : 820727

Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.8/0.0

Expire Date : Oct 01 2025

Cal Sheet No.: CR-515-2025-031

| Time          | Equivalent Sound Pressure Level (dB(A)) |
|---------------|-----------------------------------------|
|               | Feb 11, 2025                            |
| 00:00 - 01:00 |                                         |
| 01:00 - 02:00 |                                         |
| 02:00 - 03:00 |                                         |
| 03:00 - 04:00 |                                         |
| 04:00 - 05:00 |                                         |
| 05:00 - 06:00 |                                         |
| 06:00 - 07:00 |                                         |
| 07:00 - 08:00 |                                         |
| 08:00 - 09:00 | 88.9                                    |
| 09:00 - 10:00 | 88.9                                    |
| 10:00 - 11:00 | 88.8                                    |
| 11:00 - 12:00 | 88.6                                    |
| 12:00 - 13:00 | 88.6                                    |
| 13:00 - 14:00 | 88.6                                    |
| 14:00 - 15:00 | 88.5                                    |
| 15:00 - 16:00 | 87.7                                    |
| 16:00 - 17:00 |                                         |
| 17:00 - 18:00 |                                         |
| 18:00 - 19:00 |                                         |
| 19:00 - 20:00 |                                         |
| 20:00 - 21:00 |                                         |
| 21:00 - 22:00 |                                         |
| 22:00 - 23:00 |                                         |
| 23:00 - 24:00 |                                         |
| Leq(8)*       | 88.6                                    |
| Lmax **       | 98.1                                    |
| Standard-8Hr  | 90 dB(A)                                |
| Standard-Max  | 140 dB(A)                               |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Blower Compressor K-702C

Monitor Period : Feb 11, 2025

SLM Model : SCARLET ST-21D

Serial No : 820726

Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.8/0.0

Expire Date : Oct 01 2025

Cal Sheet No.: CR-515-2025-031

| Time          | Equivalent Sound Pressure Level (dB(A)) |           |
|---------------|-----------------------------------------|-----------|
|               | Feb 11, 2025                            |           |
| 00:00 - 01:00 |                                         |           |
| 01:00 - 02:00 |                                         |           |
| 02:00 - 03:00 |                                         |           |
| 03:00 - 04:00 |                                         |           |
| 04:00 - 05:00 |                                         |           |
| 05:00 - 06:00 |                                         |           |
| 06:00 - 07:00 |                                         |           |
| 07:00 - 08:00 |                                         |           |
| 08:00 - 09:00 |                                         | 89.0      |
| 09:00 - 10:00 |                                         | 89.0      |
| 10:00 - 11:00 |                                         | 89.0      |
| 11:00 - 12:00 |                                         | 89.0      |
| 12:00 - 13:00 |                                         | 88.9      |
| 13:00 - 14:00 |                                         | 88.9      |
| 14:00 - 15:00 |                                         | 88.8      |
| 15:00 - 16:00 |                                         | 88.0      |
| 16:00 - 17:00 |                                         |           |
| 17:00 - 18:00 |                                         |           |
| 18:00 - 19:00 |                                         |           |
| 19:00 - 20:00 |                                         |           |
| 20:00 - 21:00 |                                         |           |
| 21:00 - 22:00 |                                         |           |
| 22:00 - 23:00 |                                         |           |
| 23:00 - 24:00 |                                         |           |
| Leq(8)*       |                                         | 88.8      |
| Lmax **       |                                         | 98.2      |
| Standard-8Hr  |                                         | 90 dB(A)  |
| Standard-Max  |                                         | 140 dB(A) |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Blower Compressor K-702D

Monitor Period : Feb 11, 2025

SLM Model : SCARLET ST-21D

Serial No : 820723

Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.8/0.0

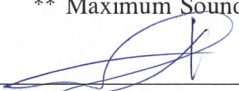
Expire Date : Oct 01 2025

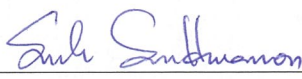
Cal Sheet No.: CR-515-2025-031

| Time          | Equivalent Sound Pressure Level (dB(A)) |           |
|---------------|-----------------------------------------|-----------|
|               | Feb 11, 2025                            |           |
| 00:00 - 01:00 |                                         |           |
| 01:00 - 02:00 |                                         |           |
| 02:00 - 03:00 |                                         |           |
| 03:00 - 04:00 |                                         |           |
| 04:00 - 05:00 |                                         |           |
| 05:00 - 06:00 |                                         |           |
| 06:00 - 07:00 |                                         |           |
| 07:00 - 08:00 |                                         |           |
| 08:00 - 09:00 |                                         | 89.2      |
| 09:00 - 10:00 |                                         | 89.0      |
| 10:00 - 11:00 |                                         | 89.0      |
| 11:00 - 12:00 |                                         | 88.8      |
| 12:00 - 13:00 |                                         | 88.8      |
| 13:00 - 14:00 |                                         | 88.8      |
| 14:00 - 15:00 |                                         | 88.7      |
| 15:00 - 16:00 |                                         | 88.2      |
| 16:00 - 17:00 |                                         |           |
| 17:00 - 18:00 |                                         |           |
| 18:00 - 19:00 |                                         |           |
| 19:00 - 20:00 |                                         |           |
| 20:00 - 21:00 |                                         |           |
| 21:00 - 22:00 |                                         |           |
| 22:00 - 23:00 |                                         |           |
| 23:00 - 24:00 |                                         |           |
| Leq(8)*       |                                         | 88.8      |
| Lmax **       |                                         | 96.5      |
| Standard-8Hr  |                                         | 90 dB(A)  |
| Standard-Max  |                                         | 140 dB(A) |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Sununta Sirawuttinanon)  
 Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

|                                            |                                      |
|--------------------------------------------|--------------------------------------|
| <b>Location</b> : Blower Compressor K-702F | <b>Monitor Period</b> : Feb 11, 2025 |
| <b>SLM Model</b> : SCARLET ST-21D          | <b>Serial No</b> : 820730            |
| <b>Site Operator</b> : Miss Salisa Ainree  |                                      |

|                                              |                                     |
|----------------------------------------------|-------------------------------------|
| <b>Calibrator Model</b> : Cirrus CR:515      | <b>Serial No</b> : 97097            |
| <b>Calibration Ref dB(A)</b> : 94.0          | <b>Certified Date</b> : Oct 02 2024 |
| <b>SLM Reading / Adjust dB(A)</b> : 93.8/0.0 | <b>Expire Date</b> : Oct 01 2025    |
| <b>Cal Sheet No.:</b> CR-515-2025-031        |                                     |

| Time                | Equivalent Sound Pressure Level (dB(A)) |
|---------------------|-----------------------------------------|
|                     | Feb 11, 2025                            |
| 00:00 - 01:00       |                                         |
| 01:00 - 02:00       |                                         |
| 02:00 - 03:00       |                                         |
| 03:00 - 04:00       |                                         |
| 04:00 - 05:00       |                                         |
| 05:00 - 06:00       |                                         |
| 06:00 - 07:00       |                                         |
| 07:00 - 08:00       |                                         |
| 08:00 - 09:00       | 88.8                                    |
| 09:00 - 10:00       | 88.9                                    |
| 10:00 - 11:00       | 88.9                                    |
| 11:00 - 12:00       | 88.8                                    |
| 12:00 - 13:00       | 88.8                                    |
| 13:00 - 14:00       | 88.7                                    |
| 14:00 - 15:00       | 88.8                                    |
| 15:00 - 16:00       | 88.7                                    |
| 16:00 - 17:00       |                                         |
| 17:00 - 18:00       |                                         |
| 18:00 - 19:00       |                                         |
| 19:00 - 20:00       |                                         |
| 20:00 - 21:00       |                                         |
| 21:00 - 22:00       |                                         |
| 22:00 - 23:00       |                                         |
| 23:00 - 24:00       |                                         |
| <b>Leq(8)*</b>      | 88.8                                    |
| <b>Lmax **</b>      | 98.8                                    |
| <b>Standard-8Hr</b> | 90 dB(A)                                |
| <b>Standard-Max</b> | 140 dB(A)                               |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team





## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Blower Compressor K-702G

Monitor Period : Feb 11, 2025

SLM Model : SCARLET ST-21D

Serial No : 820725

Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.8/0.0

Expire Date : Oct 01 2025

Cal Sheet No.: CR-515-2025-031

| Time          | Equivalent Sound Pressure Level (dB(A)) |
|---------------|-----------------------------------------|
|               | Feb 11, 2025                            |
| 00:00 - 01:00 |                                         |
| 01:00 - 02:00 |                                         |
| 02:00 - 03:00 |                                         |
| 03:00 - 04:00 |                                         |
| 04:00 - 05:00 |                                         |
| 05:00 - 06:00 |                                         |
| 06:00 - 07:00 |                                         |
| 07:00 - 08:00 |                                         |
| 08:00 - 09:00 | 89.1                                    |
| 09:00 - 10:00 | 88.7                                    |
| 10:00 - 11:00 | 88.8                                    |
| 11:00 - 12:00 | 88.6                                    |
| 12:00 - 13:00 | 88.6                                    |
| 13:00 - 14:00 | 88.5                                    |
| 14:00 - 15:00 | 88.5                                    |
| 15:00 - 16:00 | 88.4                                    |
| 16:00 - 17:00 |                                         |
| 17:00 - 18:00 |                                         |
| 18:00 - 19:00 |                                         |
| 19:00 - 20:00 |                                         |
| 20:00 - 21:00 |                                         |
| 21:00 - 22:00 |                                         |
| 22:00 - 23:00 |                                         |
| 23:00 - 24:00 |                                         |
| Leq(8)*       | 88.7                                    |
| Lmax **       | 100.1                                   |
| Standard-8Hr  | 90 dB(A)                                |
| Standard-Max  | 140 dB(A)                               |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

|                                           |                                      |
|-------------------------------------------|--------------------------------------|
| <b>Location</b> : Control Room (CCR)      | <b>Monitor Period</b> : Feb 11, 2025 |
| <b>SLM Model</b> : Cirrus CR162B          | <b>Serial No</b> : G300709           |
| <b>Site Operator</b> : Miss Salisa Ainree |                                      |

|                                              |                                     |
|----------------------------------------------|-------------------------------------|
| <b>Calibrator Model</b> : Cirrus CR:515      | <b>Serial No</b> : 97097            |
| <b>Calibration Ref dB(A)</b> : 94.0          | <b>Certified Date</b> : Oct 02 2024 |
| <b>SLM Reading / Adjust dB(A)</b> : 93.7/0.0 | <b>Expire Date</b> : Oct 01 2025    |
| <b>Cal Sheet No.:</b> CR-515-2025-030        |                                     |

| Time                | Equivalent Sound Pressure Level (dB(A)) |
|---------------------|-----------------------------------------|
|                     | Feb 11, 2025                            |
| 00:00 - 01:00       |                                         |
| 01:00 - 02:00       |                                         |
| 02:00 - 03:00       |                                         |
| 03:00 - 04:00       |                                         |
| 04:00 - 05:00       |                                         |
| 05:00 - 06:00       |                                         |
| 06:00 - 07:00       |                                         |
| 07:00 - 08:00       |                                         |
| 08:00 - 09:00       | 59.9                                    |
| 09:00 - 10:00       | 59.3                                    |
| 10:00 - 11:00       | 57.7                                    |
| 11:00 - 12:00       | 58.4                                    |
| 12:00 - 13:00       | 58.2                                    |
| 13:00 - 14:00       | 57.2                                    |
| 14:00 - 15:00       | 60.3                                    |
| 15:00 - 16:00       | 59.1                                    |
| 16:00 - 17:00       |                                         |
| 17:00 - 18:00       |                                         |
| 18:00 - 19:00       |                                         |
| 19:00 - 20:00       |                                         |
| 20:00 - 21:00       |                                         |
| 21:00 - 22:00       |                                         |
| 22:00 - 23:00       |                                         |
| 23:00 - 24:00       |                                         |
| <b>Leq(8)*</b>      | 58.9                                    |
| <b>Lmax **</b>      | 77.6                                    |
| <b>Standard-8Hr</b> | 90 dB(A)                                |
| <b>Standard-Max</b> | 140 dB(A)                               |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Control Room (ECR)

Monitor Period : Feb 11, 2025

SLM Model : SCARLET ST-21D

Serial No : 820729

Site Operator : Miss Salisa Ainree

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.8/0.0

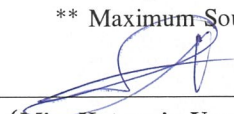
Expire Date : Oct 01 2025

Cal Sheet No.: CR-515-2025-031

| Time          | Equivalent Sound Pressure Level (dB(A)) |  |
|---------------|-----------------------------------------|--|
|               | Feb 11, 2025                            |  |
| 00:00 - 01:00 |                                         |  |
| 01:00 - 02:00 |                                         |  |
| 02:00 - 03:00 |                                         |  |
| 03:00 - 04:00 |                                         |  |
| 04:00 - 05:00 |                                         |  |
| 05:00 - 06:00 |                                         |  |
| 06:00 - 07:00 |                                         |  |
| 07:00 - 08:00 |                                         |  |
| 08:00 - 09:00 | 67.5                                    |  |
| 09:00 - 10:00 | 67.0                                    |  |
| 10:00 - 11:00 | 66.8                                    |  |
| 11:00 - 12:00 | 42.9                                    |  |
| 12:00 - 13:00 | 66.5                                    |  |
| 13:00 - 14:00 | 67.1                                    |  |
| 14:00 - 15:00 | 67.3                                    |  |
| 15:00 - 16:00 | 67.4                                    |  |
| 16:00 - 17:00 |                                         |  |
| 17:00 - 18:00 |                                         |  |
| 18:00 - 19:00 |                                         |  |
| 19:00 - 20:00 |                                         |  |
| 20:00 - 21:00 |                                         |  |
| 21:00 - 22:00 |                                         |  |
| 22:00 - 23:00 |                                         |  |
| 23:00 - 24:00 |                                         |  |
| Leq(8)*       | 66.5                                    |  |
| Lmax **       | 84.2                                    |  |
| Standard-8Hr  | 90 dB(A)                                |  |
| Standard-Max  | 140 dB(A)                               |  |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Sununta Sirawuttinanon)  
 Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Turbine Generator

Monitor Period : May 23, 2025

SLM Model : Cirrus CR162B

Serial No : G302333

Site Operator : Mr. Chitpon Somprasong

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.7/0.0

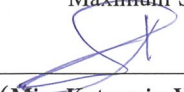
Expire Date : Oct 01 2025

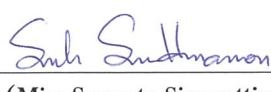
Cal Sheet No.: CR-515-2025-139

| Time          | Equivalent Sound Pressure Level (dB(A)) |      |
|---------------|-----------------------------------------|------|
|               | May 23, 2025                            |      |
| 00:00 - 01:00 |                                         |      |
| 01:00 - 02:00 |                                         |      |
| 02:00 - 03:00 |                                         |      |
| 03:00 - 04:00 |                                         |      |
| 04:00 - 05:00 |                                         |      |
| 05:00 - 06:00 |                                         |      |
| 06:00 - 07:00 |                                         |      |
| 07:00 - 08:00 |                                         |      |
| 08:00 - 09:00 |                                         | 82.2 |
| 09:00 - 10:00 |                                         | 82.1 |
| 10:00 - 11:00 |                                         | 82.3 |
| 11:00 - 12:00 |                                         | 82.2 |
| 12:00 - 13:00 |                                         | 82.1 |
| 13:00 - 14:00 |                                         | 82.1 |
| 14:00 - 15:00 |                                         | 81.3 |
| 15:00 - 16:00 |                                         | 81.3 |
| 16:00 - 17:00 |                                         |      |
| 17:00 - 18:00 |                                         |      |
| 18:00 - 19:00 |                                         |      |
| 19:00 - 20:00 |                                         |      |
| 20:00 - 21:00 |                                         |      |
| 21:00 - 22:00 |                                         |      |
| 22:00 - 23:00 |                                         |      |
| 23:00 - 24:00 |                                         |      |
| Leq(8)*       | 82.0                                    |      |
| Lmax **       | 92.2                                    |      |
| Standard-8Hr  | 90 dB(A)                                |      |
| Standard-Max  | 140 dB(A)                               |      |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Sununta Sirawuttinanon)  
 Technical Management Team





## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

**Location :** Air Compressor K-701A  
**SLM Model :** SCARLET ST-21D  
**Site Operator :** Mr. Chitpon Somprasong

**Monitor Period :** May 23, 2025  
**Serial No :** 820722

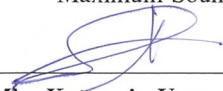
**Calibrator Model :** Cirrus CR:515  
**Calibration Ref dB(A) :** 94.0  
**SLM Reading / Adjust dB(A) :** 93.8/0.0  
**Cal Sheet No.:** CR-515-2025-138

**Serial No :** 97097  
**Certified Date :** Oct 02 2024  
**Expire Date :** Oct 01 2025

| Time                | Equivalent Sound Pressure Level (dB(A)) |  |
|---------------------|-----------------------------------------|--|
|                     | May 23, 2025                            |  |
| 00:00 - 01:00       |                                         |  |
| 01:00 - 02:00       |                                         |  |
| 02:00 - 03:00       |                                         |  |
| 03:00 - 04:00       |                                         |  |
| 04:00 - 05:00       |                                         |  |
| 05:00 - 06:00       |                                         |  |
| 06:00 - 07:00       |                                         |  |
| 07:00 - 08:00       |                                         |  |
| 08:00 - 09:00       | 87.0                                    |  |
| 09:00 - 10:00       | 87.1                                    |  |
| 10:00 - 11:00       | 87.2                                    |  |
| 11:00 - 12:00       | 87.0                                    |  |
| 12:00 - 13:00       | 86.9                                    |  |
| 13:00 - 14:00       | 86.7                                    |  |
| 14:00 - 15:00       | 86.7                                    |  |
| 15:00 - 16:00       | 86.6                                    |  |
| 16:00 - 17:00       |                                         |  |
| 17:00 - 18:00       |                                         |  |
| 18:00 - 19:00       |                                         |  |
| 19:00 - 20:00       |                                         |  |
| 20:00 - 21:00       |                                         |  |
| 21:00 - 22:00       |                                         |  |
| 22:00 - 23:00       |                                         |  |
| 23:00 - 24:00       |                                         |  |
| <b>Leq(8)*</b>      | 86.9                                    |  |
| <b>Lmax **</b>      | 92.6                                    |  |
| <b>Standard-8Hr</b> | 90 dB(A)                                |  |
| <b>Standard-Max</b> | 140 dB(A)                               |  |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Sununta Sirawuttinanon)  
 Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Air Compressor K-701C

Monitor Period : May 23, 2025

SLM Model : SCARLET ST-21D

Serial No : 820730

Site Operator : Mr. Chitpon Somprasong

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.5/0.3

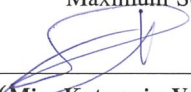
Expire Date : Oct 01 2025

Cal Sheet No.: CR-515-2025-138

| Time          | Equivalent Sound Pressure Level (dB(A)) |      |
|---------------|-----------------------------------------|------|
|               | May 23, 2025                            |      |
| 00:00 - 01:00 |                                         |      |
| 01:00 - 02:00 |                                         |      |
| 02:00 - 03:00 |                                         |      |
| 03:00 - 04:00 |                                         |      |
| 04:00 - 05:00 |                                         |      |
| 05:00 - 06:00 |                                         |      |
| 06:00 - 07:00 |                                         |      |
| 07:00 - 08:00 |                                         |      |
| 08:00 - 09:00 |                                         | 86.2 |
| 09:00 - 10:00 |                                         | 86.5 |
| 10:00 - 11:00 |                                         | 86.7 |
| 11:00 - 12:00 |                                         | 86.3 |
| 12:00 - 13:00 |                                         | 86.4 |
| 13:00 - 14:00 |                                         | 86.5 |
| 14:00 - 15:00 |                                         | 86.5 |
| 15:00 - 16:00 |                                         | 86.4 |
| 16:00 - 17:00 |                                         |      |
| 17:00 - 18:00 |                                         |      |
| 18:00 - 19:00 |                                         |      |
| 19:00 - 20:00 |                                         |      |
| 20:00 - 21:00 |                                         |      |
| 21:00 - 22:00 |                                         |      |
| 22:00 - 23:00 |                                         |      |
| 23:00 - 24:00 |                                         |      |
| Leq(8)*       | 86.4                                    |      |
| Lmax **       | 95.3                                    |      |
| Standard-8Hr  | 90 dB(A)                                |      |
| Standard-Max  | 140 dB(A)                               |      |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Sununta Sirawuttinanon)  
 Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Blower Compressor K-702B

Monitor Period : May 23, 2025

SLM Model : SCARLET ST-21D

Serial No : 820723

Site Operator : Mr. Chitpon Somprasong

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.7/0.1

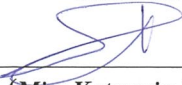
Expire Date : Oct 01 2025

Cal Sheet No.: CR-515-2025-138

| Time          | Equivalent Sound Pressure Level (dB(A)) |
|---------------|-----------------------------------------|
|               | May 23, 2025                            |
| 00:00 - 01:00 |                                         |
| 01:00 - 02:00 |                                         |
| 02:00 - 03:00 |                                         |
| 03:00 - 04:00 |                                         |
| 04:00 - 05:00 |                                         |
| 05:00 - 06:00 |                                         |
| 06:00 - 07:00 |                                         |
| 07:00 - 08:00 |                                         |
| 08:00 - 09:00 | 87.7                                    |
| 09:00 - 10:00 | 89.6                                    |
| 10:00 - 11:00 | 87.8                                    |
| 11:00 - 12:00 | 87.9                                    |
| 12:00 - 13:00 | 88.1                                    |
| 13:00 - 14:00 | 88.7                                    |
| 14:00 - 15:00 | 88.7                                    |
| 15:00 - 16:00 | 88.6                                    |
| 16:00 - 17:00 |                                         |
| 17:00 - 18:00 |                                         |
| 18:00 - 19:00 |                                         |
| 19:00 - 20:00 |                                         |
| 20:00 - 21:00 |                                         |
| 21:00 - 22:00 |                                         |
| 22:00 - 23:00 |                                         |
| 23:00 - 24:00 |                                         |
| Leq(8)*       | 88.4                                    |
| Lmax **       | 96.2                                    |
| Standard-8Hr  | 90 dB(A)                                |
| Standard-Max  | 140 dB(A)                               |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Sununta Sirawuttinanon)  
 Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Blower Compressor K-702C

Monitor Period : May 23, 2025

SLM Model : SCARLET ST-21D

Serial No : 820725

Site Operator : Mr. Chitpon Somprasong

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 94.4/-0.6

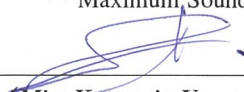
Expire Date : Oct 01 2025

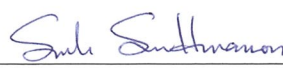
Cal Sheet No.: CR-515-2025-138

| Time          | Equivalent Sound Pressure Level (dB(A)) |      |
|---------------|-----------------------------------------|------|
|               | May 23, 2025                            |      |
| 00:00 - 01:00 |                                         |      |
| 01:00 - 02:00 |                                         |      |
| 02:00 - 03:00 |                                         |      |
| 03:00 - 04:00 |                                         |      |
| 04:00 - 05:00 |                                         |      |
| 05:00 - 06:00 |                                         |      |
| 06:00 - 07:00 |                                         |      |
| 07:00 - 08:00 |                                         |      |
| 08:00 - 09:00 |                                         | 89.7 |
| 09:00 - 10:00 |                                         | 89.6 |
| 10:00 - 11:00 |                                         | 89.6 |
| 11:00 - 12:00 |                                         | 87.8 |
| 12:00 - 13:00 |                                         | 87.9 |
| 13:00 - 14:00 |                                         | 88.1 |
| 14:00 - 15:00 |                                         | 88.7 |
| 15:00 - 16:00 |                                         | 88.7 |
| 16:00 - 17:00 |                                         |      |
| 17:00 - 18:00 |                                         |      |
| 18:00 - 19:00 |                                         |      |
| 19:00 - 20:00 |                                         |      |
| 20:00 - 21:00 |                                         |      |
| 21:00 - 22:00 |                                         |      |
| 22:00 - 23:00 |                                         |      |
| 23:00 - 24:00 |                                         |      |
| Leq(8)*       | 88.8                                    |      |
| Lmax **       | 96.2                                    |      |
| Standard-8Hr  | 90 dB(A)                                |      |
| Standard-Max  | 140 dB(A)                               |      |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Sununta Sirawuttinanon)  
 Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Blower Compressor K-702D

Monitor Period : May 23, 2025

SLM Model : SCARLET ST-21D

Serial No : 820726

Site Operator : Mr. Chitpon Somprasong

Calibrator Model : Cirrus CR:515

Serial No : 97097

Calibration Ref dB(A) : 94.0

Certified Date : Oct 02 2024

SLM Reading / Adjust dB(A) : 93.9/-0.1

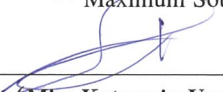
Expire Date : Oct 01 2025

Cal Sheet No.: CR-515-2025-138

| Time          | Equivalent Sound Pressure Level (dB(A)) |  |
|---------------|-----------------------------------------|--|
|               | May 23, 2025                            |  |
| 00:00 - 01:00 |                                         |  |
| 01:00 - 02:00 |                                         |  |
| 02:00 - 03:00 |                                         |  |
| 03:00 - 04:00 |                                         |  |
| 04:00 - 05:00 |                                         |  |
| 05:00 - 06:00 |                                         |  |
| 06:00 - 07:00 |                                         |  |
| 07:00 - 08:00 |                                         |  |
| 08:00 - 09:00 | 87.4                                    |  |
| 09:00 - 10:00 | 87.7                                    |  |
| 10:00 - 11:00 | 88.1                                    |  |
| 11:00 - 12:00 | 88.9                                    |  |
| 12:00 - 13:00 | 88.9                                    |  |
| 13:00 - 14:00 | 88.8                                    |  |
| 14:00 - 15:00 | 88.9                                    |  |
| 15:00 - 16:00 | 88.8                                    |  |
| 16:00 - 17:00 |                                         |  |
| 17:00 - 18:00 |                                         |  |
| 18:00 - 19:00 |                                         |  |
| 19:00 - 20:00 |                                         |  |
| 20:00 - 21:00 |                                         |  |
| 21:00 - 22:00 |                                         |  |
| 22:00 - 23:00 |                                         |  |
| 23:00 - 24:00 |                                         |  |
| Leq(8)*       | 88.5                                    |  |
| Lmax **       | 93.4                                    |  |
| Standard-8Hr  | 90 dB(A)                                |  |
| Standard-Max  | 140 dB(A)                               |  |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Sununta Sirawuttinanon)  
Technical Management Team





## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Blower Compressor K-702E  
 SLM Model : SCARLET ST-21D  
 Site Operator : Mr. Chitpon Somprasong

Monitor Period : May 23, 2025  
 Serial No : 820731

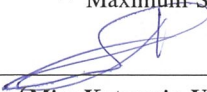
Calibrator Model : Cirrus CR:515  
 Calibration Ref dB(A) : 94.0  
 SLM Reading / Adjust dB(A) : 93.7/0.1  
 Cal Sheet No.: CR-515-2025-138

Serial No : 97097  
 Certified Date : Oct 02 2024  
 Expire Date : Oct 01 2025

| Time          | Equivalent Sound Pressure Level (dB(A)) |
|---------------|-----------------------------------------|
|               | May 23, 2025                            |
| 00:00 - 01:00 |                                         |
| 01:00 - 02:00 |                                         |
| 02:00 - 03:00 |                                         |
| 03:00 - 04:00 |                                         |
| 04:00 - 05:00 |                                         |
| 05:00 - 06:00 |                                         |
| 06:00 - 07:00 |                                         |
| 07:00 - 08:00 |                                         |
| 08:00 - 09:00 | 87.4                                    |
| 09:00 - 10:00 | 87.3                                    |
| 10:00 - 11:00 | 87.2                                    |
| 11:00 - 12:00 | 87.1                                    |
| 12:00 - 13:00 | 87.1                                    |
| 13:00 - 14:00 | 87.1                                    |
| 14:00 - 15:00 | 87.1                                    |
| 15:00 - 16:00 | 87.1                                    |
| 16:00 - 17:00 |                                         |
| 17:00 - 18:00 |                                         |
| 18:00 - 19:00 |                                         |
| 19:00 - 20:00 |                                         |
| 20:00 - 21:00 |                                         |
| 21:00 - 22:00 |                                         |
| 22:00 - 23:00 |                                         |
| 23:00 - 24:00 |                                         |
| Leq(8)*       | 87.2                                    |
| Lmax **       | 93.6                                    |
| Standard-8Hr  | 90 dB(A)                                |
| Standard-Max  | 140 dB(A)                               |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Sununta Sirawuttinanon)  
 Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

Location : Blower Compressor K-702F  
 SLM Model : SCARLET ST-21D  
 Site Operator : Mr. Chitpon Somprasong

Monitor Period : May 23, 2025  
 Serial No : 820728

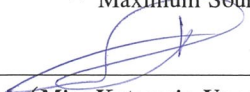
Calibrator Model : Cirrus CR:515  
 Calibration Ref dB(A) : 94.0  
 SLM Reading / Adjust dB(A) : 93.7/0.1  
 Cal Sheet No.: CR-515-2025-138

Serial No : 97097  
 Certified Date : Oct 02 2024  
 Expire Date : Oct 01 2025

| Time          | Equivalent Sound Pressure Level (dB(A)) |
|---------------|-----------------------------------------|
|               | May 23, 2025                            |
| 00:00 - 01:00 |                                         |
| 01:00 - 02:00 |                                         |
| 02:00 - 03:00 |                                         |
| 03:00 - 04:00 |                                         |
| 04:00 - 05:00 |                                         |
| 05:00 - 06:00 |                                         |
| 06:00 - 07:00 |                                         |
| 07:00 - 08:00 |                                         |
| 08:00 - 09:00 | 87.2                                    |
| 09:00 - 10:00 | 87.3                                    |
| 10:00 - 11:00 | 87.1                                    |
| 11:00 - 12:00 | 86.8                                    |
| 12:00 - 13:00 | 86.8                                    |
| 13:00 - 14:00 | 86.7                                    |
| 14:00 - 15:00 | 86.8                                    |
| 15:00 - 16:00 | 86.8                                    |
| 16:00 - 17:00 |                                         |
| 17:00 - 18:00 |                                         |
| 18:00 - 19:00 |                                         |
| 19:00 - 20:00 |                                         |
| 20:00 - 21:00 |                                         |
| 21:00 - 22:00 |                                         |
| 22:00 - 23:00 |                                         |
| 23:00 - 24:00 |                                         |
| Leq(8)*       | 86.9                                    |
| Lmax **       | 93.6                                    |
| Standard-8Hr  | 90 dB(A)                                |
| Standard-Max  | 140 dB(A)                               |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Sununta Sirawuttinanon)  
 Technical Management Team



## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

|                                        |  |                               |  |
|----------------------------------------|--|-------------------------------|--|
| Location : Control Room (CCR)          |  | Monitor Period : May 23, 2025 |  |
| SLM Model : SCARLET ST-21D             |  | Serial No : 820727            |  |
| Site Operator : Mr. Chitpon Somprasong |  |                               |  |

|                                        |  |                              |  |
|----------------------------------------|--|------------------------------|--|
| Calibrator Model : Cirrus CR:515       |  | Serial No : 97097            |  |
| Calibration Ref dB(A) : 94.0           |  | Certified Date : Oct 02 2024 |  |
| SLM Reading / Adjust dB(A) : 94.1/-0.3 |  | Expire Date : Oct 01 2025    |  |
| Cal Sheet No.: CR-515-2025-138         |  |                              |  |

| Time          | Equivalent Sound Pressure Level (dB(A)) |  |
|---------------|-----------------------------------------|--|
|               | May 23, 2025                            |  |
| 00:00 - 01:00 |                                         |  |
| 01:00 - 02:00 |                                         |  |
| 02:00 - 03:00 |                                         |  |
| 03:00 - 04:00 |                                         |  |
| 04:00 - 05:00 |                                         |  |
| 05:00 - 06:00 |                                         |  |
| 06:00 - 07:00 |                                         |  |
| 07:00 - 08:00 |                                         |  |
| 08:00 - 09:00 | 65.1                                    |  |
| 09:00 - 10:00 | 66.5                                    |  |
| 10:00 - 11:00 | 64.1                                    |  |
| 11:00 - 12:00 | 63.6                                    |  |
| 12:00 - 13:00 | 64.7                                    |  |
| 13:00 - 14:00 | 64.4                                    |  |
| 14:00 - 15:00 | 64.2                                    |  |
| 15:00 - 16:00 | 62.2                                    |  |
| 16:00 - 17:00 |                                         |  |
| 17:00 - 18:00 |                                         |  |
| 18:00 - 19:00 |                                         |  |
| 19:00 - 20:00 |                                         |  |
| 20:00 - 21:00 |                                         |  |
| 21:00 - 22:00 |                                         |  |
| 22:00 - 23:00 |                                         |  |
| 23:00 - 24:00 |                                         |  |

|         |      |
|---------|------|
| Leq(8)* | 64.5 |
| Lmax ** | 87.4 |

|              |           |
|--------------|-----------|
| Standard-8Hr | 90 dB(A)  |
| Standard-Max | 140 dB(A) |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team





## Noise Monitoring Result : Working Noise

### MTR-Thai Tokai Carbon Product Company Limited (TCP)

|                                               |                                      |
|-----------------------------------------------|--------------------------------------|
| <b>Location</b> : Control Room (ECR)          | <b>Monitor Period</b> : May 23, 2025 |
| <b>SLM Model</b> : SCARLET ST-21D             | <b>Serial No</b> : 820729            |
| <b>Site Operator</b> : Mr. Chitpon Somprasong |                                      |

|                                              |                                     |
|----------------------------------------------|-------------------------------------|
| <b>Calibrator Model</b> : Cirrus CR:515      | <b>Serial No</b> : 97097            |
| <b>Calibration Ref dB(A)</b> : 94.0          | <b>Certified Date</b> : Oct 02 2024 |
| <b>SLM Reading / Adjust dB(A)</b> : 93.3/0.5 | <b>Expire Date</b> : Oct 01 2025    |
| <b>Cal Sheet No.:</b> CR-515-2025-138        |                                     |

| Time                | Equivalent Sound Pressure Level (dB(A)) |
|---------------------|-----------------------------------------|
|                     | May 23, 2025                            |
| 00:00 - 01:00       |                                         |
| 01:00 - 02:00       |                                         |
| 02:00 - 03:00       |                                         |
| 03:00 - 04:00       |                                         |
| 04:00 - 05:00       |                                         |
| 05:00 - 06:00       |                                         |
| 06:00 - 07:00       |                                         |
| 07:00 - 08:00       |                                         |
| 08:00 - 09:00       | 65.2                                    |
| 09:00 - 10:00       | 66.4                                    |
| 10:00 - 11:00       | 65.4                                    |
| 11:00 - 12:00       | 65.2                                    |
| 12:00 - 13:00       | 65.6                                    |
| 13:00 - 14:00       | 67.1                                    |
| 14:00 - 15:00       | 66.5                                    |
| 15:00 - 16:00       | 65.9                                    |
| 16:00 - 17:00       |                                         |
| 17:00 - 18:00       |                                         |
| 18:00 - 19:00       |                                         |
| 19:00 - 20:00       |                                         |
| 20:00 - 21:00       |                                         |
| 21:00 - 22:00       |                                         |
| 22:00 - 23:00       |                                         |
| 23:00 - 24:00       |                                         |
| <b>Leq(8)*</b>      | 66.0                                    |
| <b>Lmax **</b>      | 85.0                                    |
| <b>Standard-8Hr</b> | 90 dB(A)                                |
| <b>Standard-Max</b> | 140 dB(A)                               |

Remark : \* Average time between 08:00-16:00

\*\* Maximum Sound Pressure Level between 08:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team