

ภาคผนวก ก

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เอกสารประกอบการปฏิบัติตาม  
มาตรการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม

## ภาคผนวก ค.1

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ผลการคำนวณระดับเสียงรบกวน บริเวณชุมชนหนองแฟบ  
โครงการโรงงานผลิตสารบิสฟีนอล เอ บริษัท พีทีที ฟีนอล จำกัด



## ตารางที่ 1 ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางวัน)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตสารบิสฟีนอล เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

ระหว่างวันที่ 10-17 กันยายน พ.ศ.2567

หน่วย : dBA

| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                           |                                                                              | 10-17 กันยายน 2567                                                                     | ระดับเสียงขณะมีการรบกวน (Rating Level) <sup>3/</sup> | ค่าระดับการรบกวน |
|--------------------------|-------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------|------------------|
|                          |             | ระดับเสียงพื้นฐาน (Background Sound Level) <sup>1/</sup> (L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน (Residual Sound Level) <sup>1/</sup> (Leq (1 hr)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Specific Sound Level) <sup>2/</sup> (Leq (1 hr)) |                                                      |                  |
|                          |             | (1)                                                                         | (2)                                                                          | (3)                                                                                    | (4)                                                  | (4)-(1)          |
| อ. 10 ก.ย. 67            | 14.00-15.00 | 50.4                                                                        | 56.8                                                                         | 58.0                                                                                   | 51.8                                                 | 1.4              |
|                          | 15.00-16.00 | 50.1                                                                        | 57.0                                                                         | 56.0                                                                                   | N/A                                                  | 0.0              |
|                          | 16.00-17.00 | 52.0                                                                        | 62.0                                                                         | 56.6                                                                                   | N/A                                                  | 0.0              |
|                          | 17.00-18.00 | 53.7                                                                        | 63.6                                                                         | 57.5                                                                                   | N/A                                                  | 0.0              |
|                          | 18.00-19.00 | 51.0                                                                        | 57.1                                                                         | 55.9                                                                                   | N/A                                                  | 0.0              |
|                          | 19.00-20.00 | 51.4                                                                        | 56.3                                                                         | 54.5                                                                                   | N/A                                                  | 0.0              |
|                          | 20.00-21.00 | 52.5                                                                        | 58.5                                                                         | 53.5                                                                                   | N/A                                                  | 0.0              |
|                          | 21.00-22.00 | 49.2                                                                        | 61.5                                                                         | 52.8                                                                                   | N/A                                                  | 0.0              |
| พ. 11 ก.ย. 67            | 06.00-07.00 | 54.5                                                                        | 58.1                                                                         | 57.0                                                                                   | N/A                                                  | 0.0              |
|                          | 07.00-08.00 | 56.3                                                                        | 60.1                                                                         | 58.6                                                                                   | N/A                                                  | 0.0              |
|                          | 08.00-09.00 | 53.5                                                                        | 59.5                                                                         | 56.4                                                                                   | N/A                                                  | 0.0              |
|                          | 09.00-10.00 | 51.8                                                                        | 57.0                                                                         | 55.2                                                                                   | N/A                                                  | 0.0              |
|                          | 10.00-11.00 | 51.2                                                                        | 56.9                                                                         | 56.2                                                                                   | N/A                                                  | 0.0              |
|                          | 11.00-12.00 | 51.7                                                                        | 57.9                                                                         | 56.0                                                                                   | N/A                                                  | 0.0              |
|                          | 12.00-13.00 | 51.3                                                                        | 57.0                                                                         | 56.8                                                                                   | N/A                                                  | 0.0              |
|                          | 13.00-14.00 | 49.9                                                                        | 56.9                                                                         | 54.4                                                                                   | N/A                                                  | 0.0              |
|                          | 14.00-15.00 | 50.4                                                                        | 56.8                                                                         | 56.5                                                                                   | N/A                                                  | 0.0              |
|                          | 15.00-16.00 | 50.1                                                                        | 57.0                                                                         | 55.6                                                                                   | N/A                                                  | 0.0              |
|                          | 16.00-17.00 | 52.0                                                                        | 62.0                                                                         | 57.6                                                                                   | N/A                                                  | 0.0              |
|                          | 17.00-18.00 | 53.7                                                                        | 63.6                                                                         | 59.4                                                                                   | N/A                                                  | 0.0              |
|                          | 18.00-19.00 | 51.0                                                                        | 57.1                                                                         | 56.3                                                                                   | N/A                                                  | 0.0              |
|                          | 19.00-20.00 | 51.4                                                                        | 56.3                                                                         | 57.3                                                                                   | 50.4                                                 | 0.0              |
|                          | 20.00-21.00 | 52.5                                                                        | 58.5                                                                         | 53.8                                                                                   | N/A                                                  | 0.0              |
|                          | 21.00-22.00 | 49.2                                                                        | 61.5                                                                         | 52.8                                                                                   | N/A                                                  | 0.0              |
| พ.ย. 12 ก.ย. 67          | 06.00-07.00 | 54.5                                                                        | 58.1                                                                         | 57.3                                                                                   | N/A                                                  | 0.0              |
|                          | 07.00-08.00 | 56.3                                                                        | 60.1                                                                         | 58.8                                                                                   | N/A                                                  | 0.0              |
|                          | 08.00-09.00 | 53.5                                                                        | 59.5                                                                         | 56.6                                                                                   | N/A                                                  | 0.0              |
|                          | 09.00-10.00 | 51.8                                                                        | 57.0                                                                         | 53.4                                                                                   | N/A                                                  | 0.0              |
|                          | 10.00-11.00 | 51.2                                                                        | 56.9                                                                         | 54.2                                                                                   | N/A                                                  | 0.0              |
|                          | 11.00-12.00 | 51.7                                                                        | 57.9                                                                         | 54.9                                                                                   | N/A                                                  | 0.0              |
|                          | 12.00-13.00 | 51.3                                                                        | 57.0                                                                         | 55.7                                                                                   | N/A                                                  | 0.0              |
|                          | 13.00-14.00 | 49.9                                                                        | 56.9                                                                         | 54.8                                                                                   | N/A                                                  | 0.0              |
|                          | 14.00-15.00 | 50.4                                                                        | 56.8                                                                         | 54.1                                                                                   | N/A                                                  | 0.0              |
|                          | 15.00-16.00 | 50.1                                                                        | 57.0                                                                         | 56.9                                                                                   | N/A                                                  | 0.0              |
|                          | 16.00-17.00 | 52.0                                                                        | 62.0                                                                         | 58.5                                                                                   | N/A                                                  | 0.0              |
|                          | 17.00-18.00 | 53.7                                                                        | 63.6                                                                         | 58.6                                                                                   | N/A                                                  | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                             |                                                                              |                                                                                        |                                                      | 10               |

## ตารางที่ 1 ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางวัน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตสารบิสฟีนอล เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

หน่วย : dBA

| วันที่ทำการ<br>ตรวจวัด   | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                        | 10-17 กันยายน 2567                                                                               | ระดับเสียง<br>ขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup> | ค่าระดับ<br>การรบกวน |
|--------------------------|-------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------|
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียง<br>ขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (1 hr)) | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (1 hr)) |                                                             |                      |
|                          |             | (1)                                                                               | (2)                                                                                    | (3)                                                                                              | (4)                                                         | (4)-(1)              |
| พ.ย. 12 ก.ย. 67          | 18.00-19.00 | 51.0                                                                              | 57.1                                                                                   | 55.9                                                                                             | N/A                                                         | 0.0                  |
|                          | 19.00-20.00 | 51.4                                                                              | 56.3                                                                                   | 55.0                                                                                             | N/A                                                         | 0.0                  |
|                          | 20.00-21.00 | 52.5                                                                              | 58.5                                                                                   | 51.8                                                                                             | N/A                                                         | 0.0                  |
|                          | 21.00-22.00 | 49.2                                                                              | 61.5                                                                                   | 51.1                                                                                             | N/A                                                         | 0.0                  |
| ส. 13 ก.ย. 67            | 06.00-07.00 | 54.5                                                                              | 58.1                                                                                   | 57.6                                                                                             | N/A                                                         | 0.0                  |
|                          | 07.00-08.00 | 56.3                                                                              | 60.1                                                                                   | 58.9                                                                                             | N/A                                                         | 0.0                  |
|                          | 08.00-09.00 | 53.5                                                                              | 59.5                                                                                   | 58.8                                                                                             | N/A                                                         | 0.0                  |
|                          | 09.00-10.00 | 51.8                                                                              | 57.0                                                                                   | 54.7                                                                                             | N/A                                                         | 0.0                  |
|                          | 10.00-11.00 | 51.2                                                                              | 56.9                                                                                   | 54.7                                                                                             | N/A                                                         | 0.0                  |
|                          | 11.00-12.00 | 51.7                                                                              | 57.9                                                                                   | 56.3                                                                                             | N/A                                                         | 0.0                  |
|                          | 12.00-13.00 | 51.3                                                                              | 57.0                                                                                   | 57.5                                                                                             | 47.9                                                        | 0.0                  |
|                          | 13.00-14.00 | 49.9                                                                              | 56.9                                                                                   | 56.8                                                                                             | N/A                                                         | 0.0                  |
|                          | 14.00-15.00 | 50.4                                                                              | 56.8                                                                                   | 55.5                                                                                             | N/A                                                         | 0.0                  |
|                          | 15.00-16.00 | 50.1                                                                              | 57.0                                                                                   | 55.9                                                                                             | N/A                                                         | 0.0                  |
|                          | 16.00-17.00 | 52.0                                                                              | 62.0                                                                                   | 57.2                                                                                             | N/A                                                         | 0.0                  |
|                          | 17.00-18.00 | 53.7                                                                              | 63.6                                                                                   | 58.1                                                                                             | N/A                                                         | 0.0                  |
|                          | 18.00-19.00 | 51.0                                                                              | 57.1                                                                                   | 55.4                                                                                             | N/A                                                         | 0.0                  |
|                          | 19.00-20.00 | 51.4                                                                              | 56.3                                                                                   | 54.1                                                                                             | N/A                                                         | 0.0                  |
|                          | 20.00-21.00 | 52.5                                                                              | 58.5                                                                                   | 56.4                                                                                             | N/A                                                         | 0.0                  |
|                          | 21.00-22.00 | 49.2                                                                              | 61.5                                                                                   | 52.0                                                                                             | N/A                                                         | 0.0                  |
| ส. 14 ก.ย. 67            | 06.00-07.00 | 51.1                                                                              | 55.8                                                                                   | 58.0                                                                                             | 54.0                                                        | 2.9                  |
|                          | 07.00-08.00 | 52.5                                                                              | 57.6                                                                                   | 58.5                                                                                             | 51.2                                                        | 0.0                  |
|                          | 08.00-09.00 | 52.8                                                                              | 57.4                                                                                   | 57.5                                                                                             | 41.1                                                        | 0.0                  |
|                          | 09.00-10.00 | 51.7                                                                              | 57.5                                                                                   | 57.3                                                                                             | N/A                                                         | 0.0                  |
|                          | 10.00-11.00 | 50.9                                                                              | 56.0                                                                                   | 56.1                                                                                             | 39.7                                                        | 0.0                  |
|                          | 11.00-12.00 | 50.8                                                                              | 56.4                                                                                   | 55.7                                                                                             | N/A                                                         | 0.0                  |
|                          | 12.00-13.00 | 49.1                                                                              | 55.6                                                                                   | 58.2                                                                                             | 54.7                                                        | 5.6                  |
|                          | 13.00-14.00 | 49.0                                                                              | 55.8                                                                                   | 57.9                                                                                             | 53.7                                                        | 4.7                  |
|                          | 14.00-15.00 | 50.6                                                                              | 56.3                                                                                   | 53.5                                                                                             | N/A                                                         | 0.0                  |
|                          | 15.00-16.00 | 54.2                                                                              | 64.0                                                                                   | 55.9                                                                                             | N/A                                                         | 0.0                  |
|                          | 16.00-17.00 | 52.9                                                                              | 65.5                                                                                   | 54.7                                                                                             | N/A                                                         | 0.0                  |
|                          | 17.00-18.00 | 53.6                                                                              | 64.5                                                                                   | 58.6                                                                                             | N/A                                                         | 0.0                  |
|                          | 18.00-19.00 | 51.4                                                                              | 55.8                                                                                   | 55.7                                                                                             | N/A                                                         | 0.0                  |
|                          | 19.00-20.00 | 50.8                                                                              | 57.5                                                                                   | 55.1                                                                                             | N/A                                                         | 0.0                  |
|                          | 20.00-21.00 | 49.5                                                                              | 54.0                                                                                   | 54.0                                                                                             | N/A                                                         | 0.0                  |
|                          | 21.00-22.00 | 49.7                                                                              | 53.4                                                                                   | 56.4                                                                                             | 53.4                                                        | 3.7                  |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                        |                                                                                                  |                                                             | 10                   |

## ตารางที่ 1 ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางวัน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตสารบิสฟีนอล เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

หน่วย : dBA

| วันที่ทำการ<br>ตรวจวัด   | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                        | 10-17 กันยายน 2567                                                                               | ระดับเสียง<br>ขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup> | ค่าระดับ<br>การรบกวน |
|--------------------------|-------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------|
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียง<br>ขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (1 hr)) | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (1 hr)) |                                                             |                      |
|                          |             | (1)                                                                               | (2)                                                                                    | (3)                                                                                              | (4)                                                         | (4)-(1)              |
| อ. 15 ก.ย. 67            | 06.00-07.00 | 51.1                                                                              | 55.8                                                                                   | 55.6                                                                                             | N/A                                                         | 0.0                  |
|                          | 07.00-08.00 | 52.5                                                                              | 57.6                                                                                   | 57.8                                                                                             | 44.3                                                        | 0.0                  |
|                          | 08.00-09.00 | 52.8                                                                              | 57.4                                                                                   | 54.7                                                                                             | N/A                                                         | 0.0                  |
|                          | 09.00-10.00 | 51.7                                                                              | 57.5                                                                                   | 58.1                                                                                             | 49.2                                                        | 0.0                  |
|                          | 10.00-11.00 | 50.9                                                                              | 56.0                                                                                   | 56.7                                                                                             | 48.4                                                        | 0.0                  |
|                          | 11.00-12.00 | 50.8                                                                              | 56.4                                                                                   | 53.7                                                                                             | N/A                                                         | 0.0                  |
|                          | 12.00-13.00 | 49.1                                                                              | 55.6                                                                                   | 55.2                                                                                             | N/A                                                         | 0.0                  |
|                          | 13.00-14.00 | 49.0                                                                              | 55.8                                                                                   | 53.9                                                                                             | N/A                                                         | 0.0                  |
|                          | 14.00-15.00 | 50.6                                                                              | 56.3                                                                                   | 53.6                                                                                             | N/A                                                         | 0.0                  |
|                          | 15.00-16.00 | 54.2                                                                              | 64.0                                                                                   | 53.6                                                                                             | N/A                                                         | 0.0                  |
|                          | 16.00-17.00 | 52.9                                                                              | 65.5                                                                                   | 55.0                                                                                             | N/A                                                         | 0.0                  |
|                          | 17.00-18.00 | 53.6                                                                              | 64.5                                                                                   | 56.0                                                                                             | N/A                                                         | 0.0                  |
|                          | 18.00-19.00 | 51.4                                                                              | 55.8                                                                                   | 53.2                                                                                             | N/A                                                         | 0.0                  |
|                          | 19.00-20.00 | 50.8                                                                              | 57.5                                                                                   | 65.8                                                                                             | 65.1                                                        | 14.3                 |
|                          | 20.00-21.00 | 49.5                                                                              | 54.0                                                                                   | 58.1                                                                                             | 56.0                                                        | 6.5                  |
|                          | 21.00-22.00 | 49.7                                                                              | 53.4                                                                                   | 56.4                                                                                             | 53.4                                                        | 3.7                  |
| จ. 16 ก.ย. 67            | 06.00-07.00 | 54.5                                                                              | 58.1                                                                                   | 57.4                                                                                             | N/A                                                         | 0.0                  |
|                          | 07.00-08.00 | 56.3                                                                              | 60.1                                                                                   | 59.6                                                                                             | N/A                                                         | 0.0                  |
|                          | 08.00-09.00 | 53.5                                                                              | 59.5                                                                                   | 56.6                                                                                             | N/A                                                         | 0.0                  |
|                          | 09.00-10.00 | 51.8                                                                              | 57.0                                                                                   | 54.4                                                                                             | N/A                                                         | 0.0                  |
|                          | 10.00-11.00 | 51.2                                                                              | 56.9                                                                                   | 54.4                                                                                             | N/A                                                         | 0.0                  |
|                          | 11.00-12.00 | 51.7                                                                              | 57.9                                                                                   | 56.6                                                                                             | N/A                                                         | 0.0                  |
|                          | 12.00-13.00 | 51.3                                                                              | 57.0                                                                                   | 56.5                                                                                             | N/A                                                         | 0.0                  |
|                          | 13.00-14.00 | 49.9                                                                              | 56.9                                                                                   | 56.3                                                                                             | N/A                                                         | 0.0                  |
|                          | 14.00-15.00 | 50.4                                                                              | 56.8                                                                                   | 54.1                                                                                             | N/A                                                         | 0.0                  |
|                          | 15.00-16.00 | 50.1                                                                              | 57.0                                                                                   | 54.5                                                                                             | N/A                                                         | 0.0                  |
|                          | 16.00-17.00 | 52.0                                                                              | 62.0                                                                                   | 57.0                                                                                             | N/A                                                         | 0.0                  |
|                          | 17.00-18.00 | 53.7                                                                              | 63.6                                                                                   | 69.4                                                                                             | 68.1                                                        | 14.4                 |
|                          | 18.00-19.00 | 51.0                                                                              | 57.1                                                                                   | 68.0                                                                                             | 67.6                                                        | 16.6                 |
|                          | 19.00-20.00 | 51.4                                                                              | 56.3                                                                                   | 55.5                                                                                             | N/A                                                         | 0.0                  |
|                          | 20.00-21.00 | 52.5                                                                              | 58.5                                                                                   | 53.3                                                                                             | N/A                                                         | 0.0                  |
|                          | 21.00-22.00 | 49.2                                                                              | 61.5                                                                                   | 53.0                                                                                             | N/A                                                         | 0.0                  |
| อ. 17 ก.ย. 67            | 06.00-07.00 | 54.5                                                                              | 58.1                                                                                   | 71.4                                                                                             | 71.2                                                        | 16.7                 |
|                          | 07.00-08.00 | 56.3                                                                              | 60.1                                                                                   | 70.9                                                                                             | 70.5                                                        | 14.2                 |
|                          | 08.00-09.00 | 53.5                                                                              | 59.5                                                                                   | 58.6                                                                                             | N/A                                                         | 0.0                  |
|                          | 09.00-10.00 | 51.8                                                                              | 57.0                                                                                   | 55.8                                                                                             | N/A                                                         | 0.0                  |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                        |                                                                                                  |                                                             | 10                   |

## ตารางที่ 1 ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางวัน) (ต่อ)

## บริเวณชุมชนหนองแฟบ

## โครงการโรงงานผลิตสารบิสฟีนอล เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

หน่วย : dBA

| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                           |                                                                              | 10-17 กันยายน 2567                                                                     | ระดับเสียงขณะมีการรบกวน (Rating Level) <sup>3/</sup> | ค่าระดับการรบกวน |
|--------------------------|-------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------|------------------|
|                          |             | ระดับเสียงพื้นฐาน (Background Sound Level) <sup>1/</sup> (L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน (Residual Sound Level) <sup>1/</sup> (Leq (1 hr)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Specific Sound Level) <sup>2/</sup> (Leq (1 hr)) |                                                      |                  |
|                          |             | (1)                                                                         | (2)                                                                          | (3)                                                                                    | (4)                                                  | (4)-(1)          |
| อ. 17 ก.ย. 67            | 10.00-11.00 | 51.2                                                                        | 56.9                                                                         | 55.7                                                                                   | N/A                                                  | 0.0              |
|                          | 11.00-12.00 | 51.7                                                                        | 57.9                                                                         | 54.9                                                                                   | N/A                                                  | 0.0              |
|                          | 12.00-13.00 | 51.3                                                                        | 57.0                                                                         | 59.7                                                                                   | 56.4                                                 | 5.1              |
|                          | 13.00-14.00 | 49.9                                                                        | 56.9                                                                         | 54.3                                                                                   | N/A                                                  | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                             |                                                                              |                                                                                        |                                                      | 10               |

หมายเหตุ : 1. <sup>1/</sup> ระดับเสียงพื้นฐาน และระดับเสียงขณะไม่มีการรบกวน จากการตรวจวัดบริเวณชุมชนหนองแฟบ โดยบริษัท ซิคอท จำกัด

ในช่วงหยุดกระบวนการผลิต เพื่อซ่อมบำรุงเครื่องจักรและอุปกรณ์ในปี พ.ศ.2561 ระหว่างวันศุกร์ที่ 12 ถึง วันอาทิตย์ที่ 14 ตุลาคม พ.ศ.2561

โดยชุดข้อมูลของผลตรวจวัดที่ใช้เป็นตัวแทนระดับเสียงในวันหยุด (เสาร์-อาทิตย์) เป็นผลตรวจวัดในวันที่ 13 ตุลาคม พ.ศ.2561

ส่วนระดับเสียงในวันทำการ (จันทร์-ศุกร์) เป็นผลการตรวจวัดในวันที่ 12 ตุลาคม พ.ศ.2561

2. <sup>2/</sup> ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด หมายถึง ระดับเสียงที่ตรวจวัดบริเวณชุมชนหนองแฟบ ในช่วงระหว่างที่โรงงานดำเนินการผลิตปกติ

ระหว่างวันที่ 10-17 กันยายน พ.ศ.2567 โดยบริษัท ซิคอท จำกัด ซึ่งนำมาใช้คำนวณระดับเสียงขณะมีการรบกวน และค่าระดับการรบกวน

โดยเป็นชุดข้อมูลที่ต้องสอดคล้องกันระหว่างวันหยุด (เสาร์-อาทิตย์) และวันทำการ (จันทร์-ศุกร์)

3. <sup>3/</sup> Rating level =  $\{10 (\log_{10}(10^{(0.1LAeq,Ts)} - 10^{(0.1LAeq,R)}) + 10\log_{10}(Ts/Tr)$

โดย LAeq,Ts = ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Specific Noise Level)

LAeq,R = ระดับเสียงขณะไม่มีการรบกวน (Residual Sound Level)

Ts = ระยะเวลาของช่วงเวลาที่แหล่งกำเนิด

Tr = ระยะเวลาอ้างอิงที่กำหนดเพื่อใช้คำนวณระดับเสียงขณะมีการรบกวน

4. <sup>4/</sup> ค่ามาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 29 (พ.ศ.2550) เรื่อง ค่าระดับเสียงรบกวน

5. N/A หมายถึง ไม่สามารถคำนวณค่าได้ เนื่องจากระดับเสียงขณะไม่มีการรบกวน  $\geq$  ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด

6. ค่าระดับการรบกวน เท่ากับ 0 หมายถึง ระดับเสียงขณะมีการรบกวน  $\leq$  ระดับเสียงพื้นฐาน

ตารางที่ 2 ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตสารบิสฟีนอล เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

ระหว่างวันที่ 10-17 กันยายน พ.ศ.2567

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| อ. 10 ก.ย. 67            | 22.00-22.05 | 50.1                                                                              | 51.5                                                                                | 55.6                                                                                          | 56.5                                                                | 6.4              |
|                          | 22.05-22.10 | 50.5                                                                              | 56.5                                                                                | 54.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.10-22.15 | 50.2                                                                              | 52.3                                                                                | 52.4                                                                                          | 39.0                                                                | 0.0              |
|                          | 22.15-22.20 | 49.8                                                                              | 51.6                                                                                | 52.0                                                                                          | 44.4                                                                | 0.0              |
|                          | 22.20-22.25 | 50.4                                                                              | 56.6                                                                                | 50.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.25-22.30 | 49.9                                                                              | 53.8                                                                                | 50.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.30-22.35 | 50.5                                                                              | 52.5                                                                                | 50.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.35-22.40 | 50.3                                                                              | 50.9                                                                                | 54.8                                                                                          | 55.5                                                                | 5.2              |
|                          | 22.40-22.45 | 50.3                                                                              | 53.0                                                                                | 56.9                                                                                          | 57.6                                                                | 7.3              |
|                          | 22.45-22.50 | 49.6                                                                              | 52.0                                                                                | 51.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.50-22.55 | 49.4                                                                              | 52.6                                                                                | 53.0                                                                                          | 45.4                                                                | 0.0              |
|                          | 22.55-23.00 | 49.5                                                                              | 56.3                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.00-23.05 | 48.4                                                                              | 49.3                                                                                | 50.7                                                                                          | 48.1                                                                | 0.0              |
|                          | 23.05-23.10 | 48.8                                                                              | 51.6                                                                                | 53.9                                                                                          | 53.0                                                                | 4.2              |
|                          | 23.10-23.15 | 47.4                                                                              | 49.6                                                                                | 50.1                                                                                          | 43.5                                                                | 0.0              |
|                          | 23.15-23.20 | 48.2                                                                              | 54.1                                                                                | 49.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.20-23.25 | 48.6                                                                              | 53.1                                                                                | 50.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.25-23.30 | 49.6                                                                              | 51.6                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.30-23.35 | 49.3                                                                              | 50.9                                                                                | 50.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.35-23.40 | 49.1                                                                              | 51.1                                                                                | 52.6                                                                                          | 50.3                                                                | 1.2              |
|                          | 23.40-23.45 | 48.2                                                                              | 49.1                                                                                | 51.8                                                                                          | 51.5                                                                | 3.3              |
|                          | 23.45-23.50 | 47.9                                                                              | 48.5                                                                                | 51.8                                                                                          | 52.1                                                                | 4.2              |
|                          | 23.50-23.55 | 47.8                                                                              | 54.0                                                                                | 56.1                                                                                          | 54.9                                                                | 7.1              |
|                          | 23.55-00.00 | 49.0                                                                              | 52.1                                                                                | 52.0                                                                                          | N/A                                                                 | 0.0              |
| พ. 11 ก.ย. 67            | 00.00-00.05 | 49.8                                                                              | 57.2                                                                                | 50.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.05-00.10 | 49.4                                                                              | 51.2                                                                                | 48.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.10-00.15 | 49.7                                                                              | 52.3                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.15-00.20 | 50.2                                                                              | 52.2                                                                                | 47.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.20-00.25 | 50.1                                                                              | 51.6                                                                                | 52.9                                                                                          | 50.0                                                                | 0.0              |
|                          | 00.25-00.30 | 50.3                                                                              | 51.8                                                                                | 47.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.30-00.35 | 49.2                                                                              | 51.9                                                                                | 49.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.35-00.40 | 49.1                                                                              | 51.1                                                                                | 48.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.40-00.45 | 49.5                                                                              | 50.9                                                                                | 51.5                                                                                          | 45.6                                                                | 0.0              |
|                          | 00.45-00.50 | 48.3                                                                              | 49.9                                                                                | 48.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.50-00.55 | 48.3                                                                              | 48.9                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.55-01.00 | 48.5                                                                              | 49.8                                                                                | 48.7                                                                                          | N/A                                                                 | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| พ. 11 ก.ย. 67            | 01.00-01.05 | 48.5                                                                              | 49.7                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.05-01.10 | 48.7                                                                              | 54.7                                                                                | 48.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.10-01.15 | 48.8                                                                              | 49.5                                                                                | 47.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.15-01.20 | 48.7                                                                              | 49.2                                                                                | 47.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.20-01.25 | 48.0                                                                              | 52.0                                                                                | 48.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.25-01.30 | 49.0                                                                              | 50.7                                                                                | 48.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.30-01.35 | 48.8                                                                              | 49.7                                                                                | 48.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.35-01.40 | 48.4                                                                              | 49.0                                                                                | 47.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.40-01.45 | 48.3                                                                              | 49.2                                                                                | 47.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.45-01.50 | 48.5                                                                              | 51.0                                                                                | 48.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.50-01.55 | 48.4                                                                              | 49.3                                                                                | 47.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.55-02.00 | 48.0                                                                              | 49.5                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.00-02.05 | 48.7                                                                              | 50.9                                                                                | 47.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.05-02.10 | 48.6                                                                              | 50.4                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.10-02.15 | 48.6                                                                              | 50.4                                                                                | 49.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.15-02.20 | 48.9                                                                              | 50.5                                                                                | 46.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.20-02.25 | 48.5                                                                              | 52.0                                                                                | 47.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.25-02.30 | 48.6                                                                              | 49.7                                                                                | 46.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.30-02.35 | 49.0                                                                              | 50.7                                                                                | 46.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.35-02.40 | 49.4                                                                              | 54.2                                                                                | 55.4                                                                                          | 52.2                                                                | 2.8              |
|                          | 02.40-02.45 | 49.1                                                                              | 52.2                                                                                | 47.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.45-02.50 | 49.5                                                                              | 51.9                                                                                | 47.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.50-02.55 | 48.5                                                                              | 49.5                                                                                | 47.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.55-03.00 | 48.9                                                                              | 50.0                                                                                | 48.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.00-03.05 | 49.3                                                                              | 52.3                                                                                | 47.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.05-03.10 | 49.1                                                                              | 52.5                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.10-03.15 | 49.2                                                                              | 51.8                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.15-03.20 | 48.6                                                                              | 51.4                                                                                | 46.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.20-03.25 | 49.1                                                                              | 52.6                                                                                | 48.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.25-03.30 | 48.6                                                                              | 49.3                                                                                | 51.2                                                                                          | 49.7                                                                | 1.1              |
|                          | 03.30-03.35 | 48.5                                                                              | 50.8                                                                                | 47.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.35-03.40 | 48.9                                                                              | 49.9                                                                                | 47.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.40-03.45 | 49.1                                                                              | 50.2                                                                                | 47.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.45-03.50 | 48.5                                                                              | 51.1                                                                                | 46.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.50-03.55 | 48.5                                                                              | 49.0                                                                                | 46.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.55-04.00 | 48.6                                                                              | 51.8                                                                                | 57.8                                                                                          | 59.5                                                                | 10.9             |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| พ. 11 ก.ย. 67            | 04.00-04.05 | 48.7                                                                              | 57.0                                                                                | 54.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.05-04.10 | 50.2                                                                              | 53.5                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.10-04.15 | 49.9                                                                              | 53.3                                                                                | 50.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.15-04.20 | 48.9                                                                              | 53.2                                                                                | 52.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.20-04.25 | 49.3                                                                              | 52.2                                                                                | 53.2                                                                                          | 49.3                                                                | 0.0              |
|                          | 04.25-04.30 | 49.3                                                                              | 51.0                                                                                | 52.5                                                                                          | 50.2                                                                | 0.9              |
|                          | 04.30-04.35 | 49.3                                                                              | 52.3                                                                                | 47.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.35-04.40 | 49.8                                                                              | 53.0                                                                                | 48.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.40-04.45 | 48.9                                                                              | 50.9                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.45-04.50 | 49.8                                                                              | 53.3                                                                                | 48.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.50-04.55 | 49.3                                                                              | 50.9                                                                                | 49.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.55-05.00 | 49.2                                                                              | 51.1                                                                                | 48.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.00-05.05 | 49.4                                                                              | 51.5                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.05-05.10 | 49.6                                                                              | 51.6                                                                                | 49.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.10-05.15 | 49.1                                                                              | 52.2                                                                                | 51.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.15-05.20 | 49.6                                                                              | 52.9                                                                                | 48.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.20-05.25 | 49.1                                                                              | 50.8                                                                                | 51.4                                                                                          | 45.5                                                                | 0.0              |
|                          | 05.25-05.30 | 48.7                                                                              | 51.4                                                                                | 50.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.30-05.35 | 49.3                                                                              | 51.9                                                                                | 50.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.35-05.40 | 49.5                                                                              | 54.9                                                                                | 51.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.40-05.45 | 49.5                                                                              | 55.3                                                                                | 50.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.45-05.50 | 49.4                                                                              | 51.5                                                                                | 52.2                                                                                          | 46.9                                                                | 0.0              |
|                          | 05.50-05.55 | 49.7                                                                              | 52.8                                                                                | 51.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.55-06.00 | 50.3                                                                              | 54.3                                                                                | 52.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.00-22.05 | 50.1                                                                              | 51.5                                                                                | 51.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.05-22.10 | 50.5                                                                              | 56.5                                                                                | 53.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.10-22.15 | 50.2                                                                              | 52.3                                                                                | 50.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.15-22.20 | 49.8                                                                              | 51.6                                                                                | 50.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.20-22.25 | 50.4                                                                              | 56.6                                                                                | 49.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.25-22.30 | 49.9                                                                              | 53.8                                                                                | 50.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.30-22.35 | 50.5                                                                              | 52.5                                                                                | 52.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.35-22.40 | 50.3                                                                              | 50.9                                                                                | 50.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.40-22.45 | 50.3                                                                              | 53.0                                                                                | 47.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.45-22.50 | 49.6                                                                              | 52.0                                                                                | 48.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.50-22.55 | 49.4                                                                              | 52.6                                                                                | 48.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.55-23.00 | 49.5                                                                              | 56.3                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายปีฟีนอล เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| พ. 11 ก.ย. 67            | 23.00-23.05 | 48.4                                                                              | 49.3                                                                                | 50.7                                                                                          | 48.1                                                                | 0.0              |
|                          | 23.05-23.10 | 48.8                                                                              | 51.6                                                                                | 51.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.10-23.15 | 47.4                                                                              | 49.6                                                                                | 49.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.15-23.20 | 48.2                                                                              | 54.1                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.20-23.25 | 48.6                                                                              | 53.1                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.25-23.30 | 49.6                                                                              | 51.6                                                                                | 48.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.30-23.35 | 49.3                                                                              | 50.9                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.35-23.40 | 49.1                                                                              | 51.1                                                                                | 49.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.40-23.45 | 48.2                                                                              | 49.1                                                                                | 47.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.45-23.50 | 47.9                                                                              | 48.5                                                                                | 48.7                                                                                          | 38.2                                                                | 0.0              |
|                          | 23.50-23.55 | 47.8                                                                              | 54.0                                                                                | 55.3                                                                                          | 52.4                                                                | 4.6              |
|                          | 23.55-00.00 | 49.0                                                                              | 52.1                                                                                | 51.1                                                                                          | N/A                                                                 | 0.0              |
| พ. 12 ก.ย. 67            | 00.00-00.05 | 49.8                                                                              | 57.2                                                                                | 48.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.05-00.10 | 49.4                                                                              | 51.2                                                                                | 50.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.10-00.15 | 49.7                                                                              | 52.3                                                                                | 48.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.15-00.20 | 50.2                                                                              | 52.2                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.20-00.25 | 50.1                                                                              | 51.6                                                                                | 48.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.25-00.30 | 50.3                                                                              | 51.8                                                                                | 51.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.30-00.35 | 49.2                                                                              | 51.9                                                                                | 49.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.35-00.40 | 49.1                                                                              | 51.1                                                                                | 51.5                                                                                          | 43.9                                                                | 0.0              |
|                          | 00.40-00.45 | 49.5                                                                              | 50.9                                                                                | 53.7                                                                                          | 53.5                                                                | 4.0              |
|                          | 00.45-00.50 | 48.3                                                                              | 49.9                                                                                | 50.4                                                                                          | 43.8                                                                | 0.0              |
|                          | 00.50-00.55 | 48.3                                                                              | 48.9                                                                                | 52.2                                                                                          | 52.5                                                                | 4.2              |
|                          | 00.55-01.00 | 48.5                                                                              | 49.8                                                                                | 52.0                                                                                          | 51.0                                                                | 2.5              |
|                          | 01.00-01.05 | 48.5                                                                              | 49.7                                                                                | 48.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.05-01.10 | 48.7                                                                              | 54.7                                                                                | 48.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.10-01.15 | 48.8                                                                              | 49.5                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.15-01.20 | 48.7                                                                              | 49.2                                                                                | 49.3                                                                                          | 35.9                                                                | 0.0              |
|                          | 01.20-01.25 | 48.0                                                                              | 52.0                                                                                | 47.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.25-01.30 | 49.0                                                                              | 50.7                                                                                | 48.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.30-01.35 | 48.8                                                                              | 49.7                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.35-01.40 | 48.4                                                                              | 49.0                                                                                | 49.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.40-01.45 | 48.3                                                                              | 49.2                                                                                | 48.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.45-01.50 | 48.5                                                                              | 51.0                                                                                | 50.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.50-01.55 | 48.4                                                                              | 49.3                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.55-02.00 | 48.0                                                                              | 49.5                                                                                | 48.5                                                                                          | N/A                                                                 | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |



ตารางที่ 2 ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| พ.ย. 12 ก.ย. 67          | 02.00-02.05 | 48.7                                                                              | 50.9                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.05-02.10 | 48.6                                                                              | 50.4                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.10-02.15 | 48.6                                                                              | 50.4                                                                                | 53.5                                                                                          | 53.6                                                                | 5.0              |
|                          | 02.15-02.20 | 48.9                                                                              | 50.5                                                                                | 51.5                                                                                          | 47.6                                                                | 0.0              |
|                          | 02.20-02.25 | 48.5                                                                              | 52.0                                                                                | 50.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.25-02.30 | 48.6                                                                              | 49.7                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.30-02.35 | 49.0                                                                              | 50.7                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.35-02.40 | 49.4                                                                              | 54.2                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.40-02.45 | 49.1                                                                              | 52.2                                                                                | 51.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.45-02.50 | 49.5                                                                              | 51.9                                                                                | 50.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.50-02.55 | 48.5                                                                              | 49.5                                                                                | 52.2                                                                                          | 51.9                                                                | 3.4              |
|                          | 02.55-03.00 | 48.9                                                                              | 50.0                                                                                | 50.5                                                                                          | 43.9                                                                | 0.0              |
|                          | 03.00-03.05 | 49.3                                                                              | 52.3                                                                                | 53.0                                                                                          | 47.7                                                                | 0.0              |
|                          | 03.05-03.10 | 49.1                                                                              | 52.5                                                                                | 51.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.10-03.15 | 49.2                                                                              | 51.8                                                                                | 51.9                                                                                          | 38.5                                                                | 0.0              |
|                          | 03.15-03.20 | 48.6                                                                              | 51.4                                                                                | 51.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.20-03.25 | 49.1                                                                              | 52.6                                                                                | 51.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.25-03.30 | 48.6                                                                              | 49.3                                                                                | 51.4                                                                                          | 50.2                                                                | 1.6              |
|                          | 03.30-03.35 | 48.5                                                                              | 50.8                                                                                | 50.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.35-03.40 | 48.9                                                                              | 49.9                                                                                | 51.7                                                                                          | 50.0                                                                | 1.1              |
|                          | 03.40-03.45 | 49.1                                                                              | 50.2                                                                                | 52.7                                                                                          | 52.1                                                                | 3.0              |
|                          | 03.45-03.50 | 48.5                                                                              | 51.1                                                                                | 50.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.50-03.55 | 48.5                                                                              | 49.0                                                                                | 49.9                                                                                          | 45.6                                                                | 0.0              |
|                          | 03.55-04.00 | 48.6                                                                              | 51.8                                                                                | 57.0                                                                                          | 58.4                                                                | 9.8              |
|                          | 04.00-04.05 | 48.7                                                                              | 57.0                                                                                | 57.6                                                                                          | 51.7                                                                | 3.0              |
|                          | 04.05-04.10 | 50.2                                                                              | 53.5                                                                                | 50.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.10-04.15 | 49.9                                                                              | 53.3                                                                                | 49.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.15-04.20 | 48.9                                                                              | 53.2                                                                                | 50.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.20-04.25 | 49.3                                                                              | 52.2                                                                                | 50.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.25-04.30 | 49.3                                                                              | 51.0                                                                                | 52.0                                                                                          | 48.1                                                                | 0.0              |
|                          | 04.30-04.35 | 49.3                                                                              | 52.3                                                                                | 52.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.35-04.40 | 49.8                                                                              | 53.0                                                                                | 51.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.40-04.45 | 48.9                                                                              | 50.9                                                                                | 51.1                                                                                          | 40.6                                                                | 0.0              |
|                          | 04.45-04.50 | 49.8                                                                              | 53.3                                                                                | 51.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.50-04.55 | 49.3                                                                              | 50.9                                                                                | 51.8                                                                                          | 47.5                                                                | 0.0              |
|                          | 04.55-05.00 | 49.2                                                                              | 51.1                                                                                | 51.7                                                                                          | 45.8                                                                | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2 ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| พ.ย. 12 ก.ย. 67          | 05.00-05.05 | 49.4                                                                              | 51.5                                                                                | 52.6                                                                                          | 49.1                                                                | 0.0              |
|                          | 05.05-05.10 | 49.6                                                                              | 51.6                                                                                | 51.7                                                                                          | 38.3                                                                | 0.0              |
|                          | 05.10-05.15 | 49.1                                                                              | 52.2                                                                                | 51.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.15-05.20 | 49.6                                                                              | 52.9                                                                                | 51.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.20-05.25 | 49.1                                                                              | 50.8                                                                                | 51.3                                                                                          | 44.7                                                                | 0.0              |
|                          | 05.25-05.30 | 48.7                                                                              | 51.4                                                                                | 51.5                                                                                          | 38.1                                                                | 0.0              |
|                          | 05.30-05.35 | 49.3                                                                              | 51.9                                                                                | 51.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.35-05.40 | 49.5                                                                              | 54.9                                                                                | 55.0                                                                                          | 41.6                                                                | 0.0              |
|                          | 05.40-05.45 | 49.5                                                                              | 55.3                                                                                | 51.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.45-05.50 | 49.4                                                                              | 51.5                                                                                | 53.2                                                                                          | 51.3                                                                | 1.9              |
|                          | 05.50-05.55 | 49.7                                                                              | 52.8                                                                                | 52.9                                                                                          | 39.5                                                                | 0.0              |
|                          | 05.55-06.00 | 50.3                                                                              | 54.3                                                                                | 53.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.00-22.05 | 50.1                                                                              | 51.5                                                                                | 50.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.05-22.10 | 50.5                                                                              | 56.5                                                                                | 52.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.10-22.15 | 50.2                                                                              | 52.3                                                                                | 58.3                                                                                          | 60.0                                                                | 9.8              |
|                          | 22.15-22.20 | 49.8                                                                              | 51.6                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.20-22.25 | 50.4                                                                              | 56.6                                                                                | 47.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.25-22.30 | 49.9                                                                              | 53.8                                                                                | 50.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.30-22.35 | 50.5                                                                              | 52.5                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.35-22.40 | 50.3                                                                              | 50.9                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.40-22.45 | 50.3                                                                              | 53.0                                                                                | 50.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.45-22.50 | 49.6                                                                              | 52.0                                                                                | 58.5                                                                                          | 60.4                                                                | 10.8             |
|                          | 22.50-22.55 | 49.4                                                                              | 52.6                                                                                | 52.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.55-23.00 | 49.5                                                                              | 56.3                                                                                | 50.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.00-23.05 | 48.4                                                                              | 49.3                                                                                | 47.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.05-23.10 | 48.8                                                                              | 51.6                                                                                | 47.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.10-23.15 | 47.4                                                                              | 49.6                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.15-23.20 | 48.2                                                                              | 54.1                                                                                | 47.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.20-23.25 | 48.6                                                                              | 53.1                                                                                | 46.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.25-23.30 | 49.6                                                                              | 51.6                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.30-23.35 | 49.3                                                                              | 50.9                                                                                | 46.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.35-23.40 | 49.1                                                                              | 51.1                                                                                | 48.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.40-23.45 | 48.2                                                                              | 49.1                                                                                | 49.6                                                                                          | 43.0                                                                | 0.0              |
|                          | 23.45-23.50 | 47.9                                                                              | 48.5                                                                                | 49.6                                                                                          | 46.1                                                                | 0.0              |
|                          | 23.50-23.55 | 47.8                                                                              | 54.0                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.55-00.00 | 49.0                                                                              | 52.1                                                                                | 49.4                                                                                          | N/A                                                                 | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| ส. 13 ก.ย. 67            | 00.00-00.05 | 49.8                                                                              | 57.2                                                                                | 49.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.05-00.10 | 49.4                                                                              | 51.2                                                                                | 47.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.10-00.15 | 49.7                                                                              | 52.3                                                                                | 52.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.15-00.20 | 50.2                                                                              | 52.2                                                                                | 47.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.20-00.25 | 50.1                                                                              | 51.6                                                                                | 48.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.25-00.30 | 50.3                                                                              | 51.8                                                                                | 46.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.30-00.35 | 49.2                                                                              | 51.9                                                                                | 46.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.35-00.40 | 49.1                                                                              | 51.1                                                                                | 46.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.40-00.45 | 49.5                                                                              | 50.9                                                                                | 46.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.45-00.50 | 48.3                                                                              | 49.9                                                                                | 46.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.50-00.55 | 48.3                                                                              | 48.9                                                                                | 47.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.55-01.00 | 48.5                                                                              | 49.8                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.00-01.05 | 48.5                                                                              | 49.7                                                                                | 46.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.05-01.10 | 48.7                                                                              | 54.7                                                                                | 47.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.10-01.15 | 48.8                                                                              | 49.5                                                                                | 48.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.15-01.20 | 48.7                                                                              | 49.2                                                                                | 49.4                                                                                          | 38.9                                                                | 0.0              |
|                          | 01.20-01.25 | 48.0                                                                              | 52.0                                                                                | 47.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.25-01.30 | 49.0                                                                              | 50.7                                                                                | 47.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.30-01.35 | 48.8                                                                              | 49.7                                                                                | 48.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.35-01.40 | 48.4                                                                              | 49.0                                                                                | 46.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.40-01.45 | 48.3                                                                              | 49.2                                                                                | 47.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.45-01.50 | 48.5                                                                              | 51.0                                                                                | 49.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.50-01.55 | 48.4                                                                              | 49.3                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.55-02.00 | 48.0                                                                              | 49.5                                                                                | 45.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.00-02.05 | 48.7                                                                              | 50.9                                                                                | 46.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.05-02.10 | 48.6                                                                              | 50.4                                                                                | 46.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.10-02.15 | 48.6                                                                              | 50.4                                                                                | 47.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.15-02.20 | 48.9                                                                              | 50.5                                                                                | 46.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.20-02.25 | 48.5                                                                              | 52.0                                                                                | 46.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.25-02.30 | 48.6                                                                              | 49.7                                                                                | 46.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.30-02.35 | 49.0                                                                              | 50.7                                                                                | 47.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.35-02.40 | 49.4                                                                              | 54.2                                                                                | 46.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.40-02.45 | 49.1                                                                              | 52.2                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.45-02.50 | 49.5                                                                              | 51.9                                                                                | 46.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.50-02.55 | 48.5                                                                              | 49.5                                                                                | 45.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.55-03.00 | 48.9                                                                              | 50.0                                                                                | 46.3                                                                                          | N/A                                                                 | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| ส. 13 ก.ย. 67            | 03.00-03.05 | 49.3                                                                              | 52.3                                                                                | 46.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.05-03.10 | 49.1                                                                              | 52.5                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.10-03.15 | 49.2                                                                              | 51.8                                                                                | 46.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.15-03.20 | 48.6                                                                              | 51.4                                                                                | 48.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.20-03.25 | 49.1                                                                              | 52.6                                                                                | 46.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.25-03.30 | 48.6                                                                              | 49.3                                                                                | 45.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.30-03.35 | 48.5                                                                              | 50.8                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.35-03.40 | 48.9                                                                              | 49.9                                                                                | 45.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.40-03.45 | 49.1                                                                              | 50.2                                                                                | 46.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.45-03.50 | 48.5                                                                              | 51.1                                                                                | 50.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.50-03.55 | 48.5                                                                              | 49.0                                                                                | 48.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.55-04.00 | 48.6                                                                              | 51.8                                                                                | 55.1                                                                                          | 55.4                                                                | 6.8              |
|                          | 04.00-04.05 | 48.7                                                                              | 57.0                                                                                | 57.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.05-04.10 | 50.2                                                                              | 53.5                                                                                | 46.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.10-04.15 | 49.9                                                                              | 53.3                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.15-04.20 | 48.9                                                                              | 53.2                                                                                | 49.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.20-04.25 | 49.3                                                                              | 52.2                                                                                | 53.2                                                                                          | 49.3                                                                | 0.0              |
|                          | 04.25-04.30 | 49.3                                                                              | 51.0                                                                                | 46.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.30-04.35 | 49.3                                                                              | 52.3                                                                                | 47.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.35-04.40 | 49.8                                                                              | 53.0                                                                                | 54.9                                                                                          | 53.4                                                                | 3.6              |
|                          | 04.40-04.45 | 48.9                                                                              | 50.9                                                                                | 50.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.45-04.50 | 49.8                                                                              | 53.3                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.50-04.55 | 49.3                                                                              | 50.9                                                                                | 49.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.55-05.00 | 49.2                                                                              | 51.1                                                                                | 50.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.00-05.05 | 49.4                                                                              | 51.5                                                                                | 49.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.05-05.10 | 49.6                                                                              | 51.6                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.10-05.15 | 49.1                                                                              | 52.2                                                                                | 51.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.15-05.20 | 49.6                                                                              | 52.9                                                                                | 48.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.20-05.25 | 49.1                                                                              | 50.8                                                                                | 49.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.25-05.30 | 48.7                                                                              | 51.4                                                                                | 49.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.30-05.35 | 49.3                                                                              | 51.9                                                                                | 48.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.35-05.40 | 49.5                                                                              | 54.9                                                                                | 49.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.40-05.45 | 49.5                                                                              | 55.3                                                                                | 53.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.45-05.50 | 49.4                                                                              | 51.5                                                                                | 52.9                                                                                          | 50.3                                                                | 0.9              |
|                          | 05.50-05.55 | 49.7                                                                              | 52.8                                                                                | 52.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.55-06.00 | 50.3                                                                              | 54.3                                                                                | 54.4                                                                                          | 41.0                                                                | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| ส. 13 ก.ย. 67            | 22.00-22.05 | 50.1                                                                              | 51.5                                                                                | 50.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.05-22.10 | 50.5                                                                              | 56.5                                                                                | 51.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.10-22.15 | 50.2                                                                              | 52.3                                                                                | 50.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.15-22.20 | 49.8                                                                              | 51.6                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.20-22.25 | 50.4                                                                              | 56.6                                                                                | 51.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.25-22.30 | 49.9                                                                              | 53.8                                                                                | 52.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.30-22.35 | 50.5                                                                              | 52.5                                                                                | 52.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.35-22.40 | 50.3                                                                              | 50.9                                                                                | 50.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.40-22.45 | 50.3                                                                              | 53.0                                                                                | 49.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.45-22.50 | 49.6                                                                              | 52.0                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.50-22.55 | 49.4                                                                              | 52.6                                                                                | 50.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.55-23.00 | 49.5                                                                              | 56.3                                                                                | 48.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.00-23.05 | 48.4                                                                              | 49.3                                                                                | 49.4                                                                                          | 36.0                                                                | 0.0              |
|                          | 23.05-23.10 | 48.8                                                                              | 51.6                                                                                | 49.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.10-23.15 | 47.4                                                                              | 49.6                                                                                | 52.6                                                                                          | 52.6                                                                | 5.2              |
|                          | 23.15-23.20 | 48.2                                                                              | 54.1                                                                                | 46.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.20-23.25 | 48.6                                                                              | 53.1                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.25-23.30 | 49.6                                                                              | 51.6                                                                                | 49.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.30-23.35 | 49.3                                                                              | 50.9                                                                                | 53.1                                                                                          | 52.1                                                                | 2.8              |
|                          | 23.35-23.40 | 49.1                                                                              | 51.1                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.40-23.45 | 48.2                                                                              | 49.1                                                                                | 59.4                                                                                          | 62.0                                                                | 13.8             |
|                          | 23.45-23.50 | 47.9                                                                              | 48.5                                                                                | 49.1                                                                                          | 43.2                                                                | 0.0              |
|                          | 23.50-23.55 | 47.8                                                                              | 54.0                                                                                | 49.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.55-00.00 | 49.0                                                                              | 52.1                                                                                | 47.5                                                                                          | N/A                                                                 | 0.0              |
| ส. 14 ก.ย. 67            | 00.00-00.05 | 49.9                                                                              | 52.9                                                                                | 47.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.05-00.10 | 49.4                                                                              | 51.9                                                                                | 47.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.10-00.15 | 49.5                                                                              | 58.0                                                                                | 52.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.15-00.20 | 49.0                                                                              | 50.1                                                                                | 50.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.20-00.25 | 48.7                                                                              | 50.2                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.25-00.30 | 49.6                                                                              | 50.8                                                                                | 51.9                                                                                          | 48.4                                                                | 0.0              |
|                          | 00.30-00.35 | 50.0                                                                              | 52.6                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.35-00.40 | 49.3                                                                              | 51.4                                                                                | 63.5                                                                                          | 66.2                                                                | 16.9             |
|                          | 00.40-00.45 | 49.6                                                                              | 51.1                                                                                | 70.7                                                                                          | 73.7                                                                | 24.1             |
|                          | 00.45-00.50 | 49.5                                                                              | 55.1                                                                                | 69.6                                                                                          | 72.4                                                                | 22.9             |
|                          | 00.50-00.55 | 49.1                                                                              | 50.2                                                                                | 67.1                                                                                          | 70.0                                                                | 20.9             |
|                          | 00.55-01.00 | 48.5                                                                              | 49.2                                                                                | 63.5                                                                                          | 66.3                                                                | 17.8             |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| ส. 14 ก.ย. 67            | 01.00-01.05 | 48.0                                                                              | 49.5                                                                                | 66.7                                                                                          | 69.6                                                                | 21.6             |
|                          | 01.05-01.10 | 48.1                                                                              | 49.1                                                                                | 69.2                                                                                          | 72.2                                                                | 24.1             |
|                          | 01.10-01.15 | 48.0                                                                              | 48.9                                                                                | 65.9                                                                                          | 68.8                                                                | 20.8             |
|                          | 01.15-01.20 | 48.3                                                                              | 49.0                                                                                | 62.4                                                                                          | 65.2                                                                | 16.9             |
|                          | 01.20-01.25 | 48.5                                                                              | 48.9                                                                                | 52.2                                                                                          | 52.5                                                                | 4.0              |
|                          | 01.25-01.30 | 47.9                                                                              | 49.0                                                                                | 50.7                                                                                          | 48.8                                                                | 0.9              |
|                          | 01.30-01.35 | 47.0                                                                              | 47.6                                                                                | 53.2                                                                                          | 54.8                                                                | 7.8              |
|                          | 01.35-01.40 | 46.7                                                                              | 47.9                                                                                | 53.6                                                                                          | 55.2                                                                | 8.5              |
|                          | 01.40-01.45 | 48.8                                                                              | 50.4                                                                                | 53.5                                                                                          | 53.6                                                                | 4.8              |
|                          | 01.45-01.50 | 49.4                                                                              | 50.1                                                                                | 54.6                                                                                          | 55.7                                                                | 6.3              |
|                          | 01.50-01.55 | 49.6                                                                              | 50.6                                                                                | 55.1                                                                                          | 56.2                                                                | 6.6              |
|                          | 01.55-02.00 | 49.0                                                                              | 50.9                                                                                | 55.0                                                                                          | 55.9                                                                | 6.9              |
|                          | 02.00-02.05 | 48.2                                                                              | 49.4                                                                                | 55.0                                                                                          | 56.6                                                                | 8.4              |
|                          | 02.05-02.10 | 48.6                                                                              | 49.4                                                                                | 53.5                                                                                          | 54.4                                                                | 5.8              |
|                          | 02.10-02.15 | 48.7                                                                              | 51.5                                                                                | 52.8                                                                                          | 49.9                                                                | 1.2              |
|                          | 02.15-02.20 | 48.5                                                                              | 49.6                                                                                | 54.7                                                                                          | 56.1                                                                | 7.6              |
|                          | 02.20-02.25 | 49.2                                                                              | 53.7                                                                                | 53.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.25-02.30 | 49.0                                                                              | 51.1                                                                                | 51.7                                                                                          | 45.8                                                                | 0.0              |
|                          | 02.30-02.35 | 49.0                                                                              | 49.4                                                                                | 50.0                                                                                          | 44.1                                                                | 0.0              |
|                          | 02.35-02.40 | 47.9                                                                              | 48.8                                                                                | 49.9                                                                                          | 46.4                                                                | 0.0              |
|                          | 02.40-02.45 | 47.4                                                                              | 48.5                                                                                | 52.2                                                                                          | 52.8                                                                | 5.4              |
|                          | 02.45-02.50 | 47.8                                                                              | 48.6                                                                                | 52.0                                                                                          | 52.3                                                                | 4.5              |
|                          | 02.50-02.55 | 47.4                                                                              | 47.9                                                                                | 51.7                                                                                          | 52.4                                                                | 5.0              |
|                          | 02.55-03.00 | 48.1                                                                              | 48.8                                                                                | 50.4                                                                                          | 48.3                                                                | 0.2              |
|                          | 03.00-03.05 | 48.3                                                                              | 49.4                                                                                | 51.4                                                                                          | 50.1                                                                | 1.8              |
|                          | 03.05-03.10 | 48.3                                                                              | 49.1                                                                                | 53.1                                                                                          | 53.9                                                                | 5.6              |
|                          | 03.10-03.15 | 49.5                                                                              | 52.0                                                                                | 50.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.15-03.20 | 48.9                                                                              | 49.8                                                                                | 51.6                                                                                          | 49.9                                                                | 1.0              |
|                          | 03.20-03.25 | 49.7                                                                              | 54.4                                                                                | 50.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.25-03.30 | 48.9                                                                              | 50.4                                                                                | 50.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.30-03.35 | 48.3                                                                              | 52.8                                                                                | 51.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.35-03.40 | 48.3                                                                              | 49.1                                                                                | 50.9                                                                                          | 49.2                                                                | 0.9              |
|                          | 03.40-03.45 | 48.4                                                                              | 49.1                                                                                | 52.2                                                                                          | 52.3                                                                | 3.9              |
|                          | 03.45-03.50 | 48.4                                                                              | 50.9                                                                                | 52.7                                                                                          | 51.0                                                                | 2.6              |
|                          | 03.50-03.55 | 47.9                                                                              | 48.5                                                                                | 52.6                                                                                          | 53.5                                                                | 5.6              |
|                          | 03.55-04.00 | 48.8                                                                              | 55.1                                                                                | 55.2                                                                                          | 41.8                                                                | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายปีฟีนอล เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| ส. 14 ก.ย. 67            | 04.00-04.05 | 49.4                                                                              | 54.7                                                                                | 59.3                                                                                          | 60.5                                                                | 11.1             |
|                          | 04.05-04.10 | 48.9                                                                              | 50.1                                                                                | 51.5                                                                                          | 48.9                                                                | 0.0              |
|                          | 04.10-04.15 | 48.0                                                                              | 49.0                                                                                | 50.5                                                                                          | 48.2                                                                | 0.2              |
|                          | 04.15-04.20 | 48.4                                                                              | 48.8                                                                                | 52.2                                                                                          | 52.5                                                                | 4.1              |
|                          | 04.20-04.25 | 47.6                                                                              | 49.6                                                                                | 51.8                                                                                          | 50.8                                                                | 3.2              |
|                          | 04.25-04.30 | 47.4                                                                              | 48.1                                                                                | 52.4                                                                                          | 53.4                                                                | 6.0              |
|                          | 04.30-04.35 | 48.3                                                                              | 49.2                                                                                | 51.9                                                                                          | 51.6                                                                | 3.3              |
|                          | 04.35-04.40 | 48.8                                                                              | 49.7                                                                                | 51.6                                                                                          | 50.1                                                                | 1.3              |
|                          | 04.40-04.45 | 49.3                                                                              | 50.3                                                                                | 52.5                                                                                          | 51.5                                                                | 2.2              |
|                          | 04.45-04.50 | 49.1                                                                              | 50.0                                                                                | 52.3                                                                                          | 51.4                                                                | 2.3              |
|                          | 04.50-04.55 | 48.1                                                                              | 49.8                                                                                | 51.9                                                                                          | 50.7                                                                | 2.6              |
|                          | 04.55-05.00 | 48.8                                                                              | 50.5                                                                                | 55.0                                                                                          | 56.1                                                                | 7.3              |
|                          | 05.00-05.05 | 48.0                                                                              | 49.5                                                                                | 52.3                                                                                          | 52.1                                                                | 4.1              |
|                          | 05.05-05.10 | 47.8                                                                              | 50.0                                                                                | 54.9                                                                                          | 56.2                                                                | 8.4              |
|                          | 05.10-05.15 | 47.9                                                                              | 48.4                                                                                | 51.5                                                                                          | 51.6                                                                | 3.7              |
|                          | 05.15-05.20 | 48.3                                                                              | 50.3                                                                                | 52.2                                                                                          | 50.7                                                                | 2.4              |
|                          | 05.20-05.25 | 48.4                                                                              | 50.6                                                                                | 52.1                                                                                          | 49.8                                                                | 1.4              |
|                          | 05.25-05.30 | 48.8                                                                              | 52.2                                                                                | 54.4                                                                                          | 53.4                                                                | 4.6              |
|                          | 05.30-05.35 | 49.3                                                                              | 51.8                                                                                | 54.7                                                                                          | 54.6                                                                | 5.3              |
|                          | 05.35-05.40 | 49.0                                                                              | 50.3                                                                                | 54.9                                                                                          | 56.1                                                                | 7.1              |
|                          | 05.40-05.45 | 49.1                                                                              | 50.9                                                                                | 53.2                                                                                          | 52.3                                                                | 3.2              |
|                          | 05.45-05.50 | 48.5                                                                              | 52.5                                                                                | 52.8                                                                                          | 44.0                                                                | 0.0              |
|                          | 05.50-05.55 | 49.4                                                                              | 53.4                                                                                | 56.0                                                                                          | 55.5                                                                | 6.1              |
|                          | 05.55-06.00 | 50.8                                                                              | 55.2                                                                                | 54.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.00-22.05 | 49.7                                                                              | 52.5                                                                                | 54.1                                                                                          | 52.0                                                                | 2.3              |
|                          | 22.05-22.10 | 49.7                                                                              | 51.4                                                                                | 50.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.10-22.15 | 50.3                                                                              | 52.1                                                                                | 51.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.15-22.20 | 49.7                                                                              | 53.5                                                                                | 51.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.20-22.25 | 50.0                                                                              | 51.6                                                                                | 47.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.25-22.30 | 50.6                                                                              | 53.8                                                                                | 47.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.30-22.35 | 50.1                                                                              | 53.0                                                                                | 48.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.35-22.40 | 49.7                                                                              | 50.5                                                                                | 47.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.40-22.45 | 49.7                                                                              | 53.5                                                                                | 47.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.45-22.50 | 49.6                                                                              | 51.8                                                                                | 48.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.50-22.55 | 48.4                                                                              | 52.7                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.55-23.00 | 48.9                                                                              | 53.4                                                                                | 56.3                                                                                          | 56.2                                                                | 7.3              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| ส. 14 ก.ย. 67            | 23.00-23.05 | 49.7                                                                              | 51.2                                                                                | 51.5                                                                                          | 42.7                                                                | 0.0              |
|                          | 23.05-23.10 | 49.4                                                                              | 50.8                                                                                | 48.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.10-23.15 | 49.6                                                                              | 52.9                                                                                | 61.0                                                                                          | 63.3                                                                | 13.7             |
|                          | 23.15-23.20 | 49.2                                                                              | 50.4                                                                                | 48.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.20-23.25 | 49.8                                                                              | 51.9                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.25-23.30 | 50.5                                                                              | 51.7                                                                                | 47.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.30-23.35 | 50.3                                                                              | 52.1                                                                                | 48.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.35-23.40 | 50.6                                                                              | 52.5                                                                                | 51.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.40-23.45 | 49.2                                                                              | 50.0                                                                                | 50.4                                                                                          | 42.8                                                                | 0.0              |
|                          | 23.45-23.50 | 49.7                                                                              | 50.1                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.50-23.55 | 49.9                                                                              | 51.5                                                                                | 50.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.55-00.00 | 50.1                                                                              | 51.5                                                                                | 50.5                                                                                          | N/A                                                                 | 0.0              |
| อ. 15 ก.ย. 67            | 00.00-00.05 | 49.9                                                                              | 52.9                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.05-00.10 | 49.4                                                                              | 51.9                                                                                | 53.6                                                                                          | 51.7                                                                | 2.3              |
|                          | 00.10-00.15 | 49.5                                                                              | 58.0                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.15-00.20 | 49.0                                                                              | 50.1                                                                                | 48.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.20-00.25 | 48.7                                                                              | 50.2                                                                                | 48.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.25-00.30 | 49.6                                                                              | 50.8                                                                                | 48.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.30-00.35 | 50.0                                                                              | 52.6                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.35-00.40 | 49.3                                                                              | 51.4                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.40-00.45 | 49.6                                                                              | 51.1                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.45-00.50 | 49.5                                                                              | 55.1                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.50-00.55 | 49.1                                                                              | 50.2                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.55-01.00 | 48.5                                                                              | 49.2                                                                                | 49.5                                                                                          | 40.7                                                                | 0.0              |
|                          | 01.00-01.05 | 48.0                                                                              | 49.5                                                                                | 48.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.05-01.10 | 48.1                                                                              | 49.1                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.10-01.15 | 48.0                                                                              | 48.9                                                                                | 50.1                                                                                          | 46.9                                                                | 0.0              |
|                          | 01.15-01.20 | 48.3                                                                              | 49.0                                                                                | 49.5                                                                                          | 42.9                                                                | 0.0              |
|                          | 01.20-01.25 | 48.5                                                                              | 48.9                                                                                | 49.1                                                                                          | 38.6                                                                | 0.0              |
|                          | 01.25-01.30 | 47.9                                                                              | 49.0                                                                                | 50.4                                                                                          | 47.8                                                                | 0.0              |
|                          | 01.30-01.35 | 47.0                                                                              | 47.6                                                                                | 49.3                                                                                          | 47.4                                                                | 0.4              |
|                          | 01.35-01.40 | 46.7                                                                              | 47.9                                                                                | 49.9                                                                                          | 48.6                                                                | 1.9              |
|                          | 01.40-01.45 | 48.8                                                                              | 50.4                                                                                | 49.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.45-01.50 | 49.4                                                                              | 50.1                                                                                | 51.3                                                                                          | 48.1                                                                | 0.0              |
|                          | 01.50-01.55 | 49.6                                                                              | 50.6                                                                                | 51.0                                                                                          | 43.4                                                                | 0.0              |
|                          | 01.55-02.00 | 49.0                                                                              | 50.9                                                                                | 50.5                                                                                          | N/A                                                                 | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |



ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| อา. 15 ก.ย. 67           | 02.00-02.05 | 48.2                                                                              | 49.4                                                                                | 51.4                                                                                          | 50.1                                                                | 1.9              |
|                          | 02.05-02.10 | 48.6                                                                              | 49.4                                                                                | 51.3                                                                                          | 49.8                                                                | 1.2              |
|                          | 02.10-02.15 | 48.7                                                                              | 51.5                                                                                | 50.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.15-02.20 | 48.5                                                                              | 49.6                                                                                | 49.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.20-02.25 | 49.2                                                                              | 53.7                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.25-02.30 | 49.0                                                                              | 51.1                                                                                | 51.4                                                                                          | 42.6                                                                | 0.0              |
|                          | 02.30-02.35 | 49.0                                                                              | 49.4                                                                                | 49.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.35-02.40 | 47.9                                                                              | 48.8                                                                                | 49.4                                                                                          | 43.5                                                                | 0.0              |
|                          | 02.40-02.45 | 47.4                                                                              | 48.5                                                                                | 49.6                                                                                          | 46.1                                                                | 0.0              |
|                          | 02.45-02.50 | 47.8                                                                              | 48.6                                                                                | 49.4                                                                                          | 44.7                                                                | 0.0              |
|                          | 02.50-02.55 | 47.4                                                                              | 47.9                                                                                | 50.2                                                                                          | 49.3                                                                | 1.9              |
|                          | 02.55-03.00 | 48.1                                                                              | 48.8                                                                                | 49.0                                                                                          | 38.5                                                                | 0.0              |
|                          | 03.00-03.05 | 48.3                                                                              | 49.4                                                                                | 50.0                                                                                          | 44.1                                                                | 0.0              |
|                          | 03.05-03.10 | 48.3                                                                              | 49.1                                                                                | 48.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.10-03.15 | 49.5                                                                              | 52.0                                                                                | 48.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.15-03.20 | 48.9                                                                              | 49.8                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.20-03.25 | 49.7                                                                              | 54.4                                                                                | 49.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.25-03.30 | 48.9                                                                              | 50.4                                                                                | 49.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.30-03.35 | 48.3                                                                              | 52.8                                                                                | 48.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.35-03.40 | 48.3                                                                              | 49.1                                                                                | 48.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.40-03.45 | 48.4                                                                              | 49.1                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.45-03.50 | 48.4                                                                              | 50.9                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.50-03.55 | 47.9                                                                              | 48.5                                                                                | 49.6                                                                                          | 46.1                                                                | 0.0              |
|                          | 03.55-04.00 | 48.8                                                                              | 55.1                                                                                | 57.8                                                                                          | 57.5                                                                | 8.7              |
|                          | 04.00-04.05 | 49.4                                                                              | 54.7                                                                                | 58.2                                                                                          | 58.6                                                                | 9.2              |
|                          | 04.05-04.10 | 48.9                                                                              | 50.1                                                                                | 51.6                                                                                          | 49.3                                                                | 0.4              |
|                          | 04.10-04.15 | 48.0                                                                              | 49.0                                                                                | 49.9                                                                                          | 45.6                                                                | 0.0              |
|                          | 04.15-04.20 | 48.4                                                                              | 48.8                                                                                | 51.4                                                                                          | 50.9                                                                | 2.5              |
|                          | 04.20-04.25 | 47.6                                                                              | 49.6                                                                                | 50.8                                                                                          | 47.6                                                                | 0.0              |
|                          | 04.25-04.30 | 47.4                                                                              | 48.1                                                                                | 52.0                                                                                          | 52.7                                                                | 5.3              |
|                          | 04.30-04.35 | 48.3                                                                              | 49.2                                                                                | 48.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.35-04.40 | 48.8                                                                              | 49.7                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.40-04.45 | 49.3                                                                              | 50.3                                                                                | 48.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.45-04.50 | 49.1                                                                              | 50.0                                                                                | 48.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.50-04.55 | 48.1                                                                              | 49.8                                                                                | 48.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.55-05.00 | 48.8                                                                              | 50.5                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2 ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| อา. 15 ก.ย. 67           | 05.00-05.05 | 48.0                                                                              | 49.5                                                                                | 50.3                                                                                          | 45.6                                                                | 0.0              |
|                          | 05.05-05.10 | 47.8                                                                              | 50.0                                                                                | 51.1                                                                                          | 47.6                                                                | 0.0              |
|                          | 05.10-05.15 | 47.9                                                                              | 48.4                                                                                | 48.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.15-05.20 | 48.3                                                                              | 50.3                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.20-05.25 | 48.4                                                                              | 50.6                                                                                | 49.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.25-05.30 | 48.8                                                                              | 52.2                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.30-05.35 | 49.3                                                                              | 51.8                                                                                | 50.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.35-05.40 | 49.0                                                                              | 50.3                                                                                | 50.9                                                                                          | 45.0                                                                | 0.0              |
|                          | 05.40-05.45 | 49.1                                                                              | 50.9                                                                                | 51.4                                                                                          | 44.8                                                                | 0.0              |
|                          | 05.45-05.50 | 48.5                                                                              | 52.5                                                                                | 51.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.50-05.55 | 49.4                                                                              | 53.4                                                                                | 53.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.55-06.00 | 50.8                                                                              | 55.2                                                                                | 50.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.00-22.05 | 49.7                                                                              | 52.5                                                                                | 51.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.05-22.10 | 49.7                                                                              | 51.4                                                                                | 50.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.10-22.15 | 50.3                                                                              | 52.1                                                                                | 55.5                                                                                          | 55.8                                                                | 5.5              |
|                          | 22.15-22.20 | 49.7                                                                              | 53.5                                                                                | 57.2                                                                                          | 57.8                                                                | 8.1              |
|                          | 22.20-22.25 | 50.0                                                                              | 51.6                                                                                | 50.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.25-22.30 | 50.6                                                                              | 53.8                                                                                | 49.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.30-22.35 | 50.1                                                                              | 53.0                                                                                | 48.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.35-22.40 | 49.7                                                                              | 50.5                                                                                | 49.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.40-22.45 | 49.7                                                                              | 53.5                                                                                | 48.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.45-22.50 | 49.6                                                                              | 51.8                                                                                | 49.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.50-22.55 | 48.4                                                                              | 52.7                                                                                | 48.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.55-23.00 | 48.9                                                                              | 53.4                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.00-23.05 | 49.7                                                                              | 51.2                                                                                | 50.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.05-23.10 | 49.4                                                                              | 50.8                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.10-23.15 | 49.6                                                                              | 52.9                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.15-23.20 | 49.2                                                                              | 50.4                                                                                | 47.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.20-23.25 | 49.8                                                                              | 51.9                                                                                | 47.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.25-23.30 | 50.5                                                                              | 51.7                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.30-23.35 | 50.3                                                                              | 52.1                                                                                | 52.9                                                                                          | 48.2                                                                | 0.0              |
|                          | 23.35-23.40 | 50.6                                                                              | 52.5                                                                                | 52.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.40-23.45 | 49.2                                                                              | 50.0                                                                                | 51.6                                                                                          | 49.5                                                                | 0.3              |
|                          | 23.45-23.50 | 49.7                                                                              | 50.1                                                                                | 48.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.50-23.55 | 49.9                                                                              | 51.5                                                                                | 47.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.55-00.00 | 50.1                                                                              | 51.5                                                                                | 46.1                                                                                          | N/A                                                                 | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| จ. 16 ก.ย. 67            | 00.00-00.05 | 49.8                                                                              | 57.2                                                                                | 48.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.05-00.10 | 49.4                                                                              | 51.2                                                                                | 47.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.10-00.15 | 49.7                                                                              | 52.3                                                                                | 46.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.15-00.20 | 50.2                                                                              | 52.2                                                                                | 47.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.20-00.25 | 50.1                                                                              | 51.6                                                                                | 46.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.25-00.30 | 50.3                                                                              | 51.8                                                                                | 47.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.30-00.35 | 49.2                                                                              | 51.9                                                                                | 47.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.35-00.40 | 49.1                                                                              | 51.1                                                                                | 46.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.40-00.45 | 49.5                                                                              | 50.9                                                                                | 46.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.45-00.50 | 48.3                                                                              | 49.9                                                                                | 46.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.50-00.55 | 48.3                                                                              | 48.9                                                                                | 46.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.55-01.00 | 48.5                                                                              | 49.8                                                                                | 47.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.00-01.05 | 48.5                                                                              | 49.7                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.05-01.10 | 48.7                                                                              | 54.7                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.10-01.15 | 48.8                                                                              | 49.5                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.15-01.20 | 48.7                                                                              | 49.2                                                                                | 50.4                                                                                          | 47.2                                                                | 0.0              |
|                          | 01.20-01.25 | 48.0                                                                              | 52.0                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.25-01.30 | 49.0                                                                              | 50.7                                                                                | 52.2                                                                                          | 49.9                                                                | 0.9              |
|                          | 01.30-01.35 | 48.8                                                                              | 49.7                                                                                | 48.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.35-01.40 | 48.4                                                                              | 49.0                                                                                | 50.1                                                                                          | 46.6                                                                | 0.0              |
|                          | 01.40-01.45 | 48.3                                                                              | 49.2                                                                                | 50.0                                                                                          | 45.3                                                                | 0.0              |
|                          | 01.45-01.50 | 48.5                                                                              | 51.0                                                                                | 48.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.50-01.55 | 48.4                                                                              | 49.3                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 01.55-02.00 | 48.0                                                                              | 49.5                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.00-02.05 | 48.7                                                                              | 50.9                                                                                | 52.5                                                                                          | 50.4                                                                | 1.7              |
|                          | 02.05-02.10 | 48.6                                                                              | 50.4                                                                                | 47.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.10-02.15 | 48.6                                                                              | 50.4                                                                                | 47.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.15-02.20 | 48.9                                                                              | 50.5                                                                                | 57.6                                                                                          | 59.7                                                                | 10.8             |
|                          | 02.20-02.25 | 48.5                                                                              | 52.0                                                                                | 48.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.25-02.30 | 48.6                                                                              | 49.7                                                                                | 47.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.30-02.35 | 49.0                                                                              | 50.7                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.35-02.40 | 49.4                                                                              | 54.2                                                                                | 45.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.40-02.45 | 49.1                                                                              | 52.2                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.45-02.50 | 49.5                                                                              | 51.9                                                                                | 46.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.50-02.55 | 48.5                                                                              | 49.5                                                                                | 46.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 02.55-03.00 | 48.9                                                                              | 50.0                                                                                | 47.1                                                                                          | N/A                                                                 | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| จ. 16 ก.ย. 67            | 03.00-03.05 | 49.3                                                                              | 52.3                                                                                | 48.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.05-03.10 | 49.1                                                                              | 52.5                                                                                | 46.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.10-03.15 | 49.2                                                                              | 51.8                                                                                | 48.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.15-03.20 | 48.6                                                                              | 51.4                                                                                | 47.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.20-03.25 | 49.1                                                                              | 52.6                                                                                | 53.3                                                                                          | 48.0                                                                | 0.0              |
|                          | 03.25-03.30 | 48.6                                                                              | 49.3                                                                                | 45.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.30-03.35 | 48.5                                                                              | 50.8                                                                                | 47.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.35-03.40 | 48.9                                                                              | 49.9                                                                                | 46.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.40-03.45 | 49.1                                                                              | 50.2                                                                                | 49.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.45-03.50 | 48.5                                                                              | 51.1                                                                                | 46.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.50-03.55 | 48.5                                                                              | 49.0                                                                                | 45.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 03.55-04.00 | 48.6                                                                              | 51.8                                                                                | 58.2                                                                                          | 60.1                                                                | 11.5             |
|                          | 04.00-04.05 | 48.7                                                                              | 57.0                                                                                | 57.7                                                                                          | 52.4                                                                | 3.7              |
|                          | 04.05-04.10 | 50.2                                                                              | 53.5                                                                                | 48.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.10-04.15 | 49.9                                                                              | 53.3                                                                                | 49.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.15-04.20 | 48.9                                                                              | 53.2                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.20-04.25 | 49.3                                                                              | 52.2                                                                                | 45.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.25-04.30 | 49.3                                                                              | 51.0                                                                                | 46.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.30-04.35 | 49.3                                                                              | 52.3                                                                                | 46.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.35-04.40 | 49.8                                                                              | 53.0                                                                                | 46.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.40-04.45 | 48.9                                                                              | 50.9                                                                                | 49.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.45-04.50 | 49.8                                                                              | 53.3                                                                                | 46.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.50-04.55 | 49.3                                                                              | 50.9                                                                                | 52.6                                                                                          | 50.7                                                                | 1.4              |
|                          | 04.55-05.00 | 49.2                                                                              | 51.1                                                                                | 50.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.00-05.05 | 49.4                                                                              | 51.5                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.05-05.10 | 49.6                                                                              | 51.6                                                                                | 48.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.10-05.15 | 49.1                                                                              | 52.2                                                                                | 46.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.15-05.20 | 49.6                                                                              | 52.9                                                                                | 50.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.20-05.25 | 49.1                                                                              | 50.8                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.25-05.30 | 48.7                                                                              | 51.4                                                                                | 50.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.30-05.35 | 49.3                                                                              | 51.9                                                                                | 55.9                                                                                          | 56.7                                                                | 7.4              |
|                          | 05.35-05.40 | 49.5                                                                              | 54.9                                                                                | 49.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.40-05.45 | 49.5                                                                              | 55.3                                                                                | 50.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.45-05.50 | 49.4                                                                              | 51.5                                                                                | 51.9                                                                                          | 44.3                                                                | 0.0              |
|                          | 05.50-05.55 | 49.7                                                                              | 52.8                                                                                | 51.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.55-06.00 | 50.3                                                                              | 54.3                                                                                | 53.5                                                                                          | N/A                                                                 | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2

ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| จ. 16 ก.ย. 67            | 22.00-22.05 | 50.1                                                                              | 51.5                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.05-22.10 | 50.5                                                                              | 56.5                                                                                | 49.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.10-22.15 | 50.2                                                                              | 52.3                                                                                | 47.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.15-22.20 | 49.8                                                                              | 51.6                                                                                | 47.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.20-22.25 | 50.4                                                                              | 56.6                                                                                | 47.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.25-22.30 | 49.9                                                                              | 53.8                                                                                | 51.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.30-22.35 | 50.5                                                                              | 52.5                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.35-22.40 | 50.3                                                                              | 50.9                                                                                | 50.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.40-22.45 | 50.3                                                                              | 53.0                                                                                | 47.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.45-22.50 | 49.6                                                                              | 52.0                                                                                | 46.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.50-22.55 | 49.4                                                                              | 52.6                                                                                | 51.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 22.55-23.00 | 49.5                                                                              | 56.3                                                                                | 48.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.00-23.05 | 48.4                                                                              | 49.3                                                                                | 47.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.05-23.10 | 48.8                                                                              | 51.6                                                                                | 48.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.10-23.15 | 47.4                                                                              | 49.6                                                                                | 48.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.15-23.20 | 48.2                                                                              | 54.1                                                                                | 48.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.20-23.25 | 48.6                                                                              | 53.1                                                                                | 48.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.25-23.30 | 49.6                                                                              | 51.6                                                                                | 49.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.30-23.35 | 49.3                                                                              | 50.9                                                                                | 60.1                                                                                          | 62.5                                                                | 13.2             |
|                          | 23.35-23.40 | 49.1                                                                              | 51.1                                                                                | 51.6                                                                                          | 45.0                                                                | 0.0              |
|                          | 23.40-23.45 | 48.2                                                                              | 49.1                                                                                | 47.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.45-23.50 | 47.9                                                                              | 48.5                                                                                | 48.9                                                                                          | 41.3                                                                | 0.0              |
|                          | 23.50-23.55 | 47.8                                                                              | 54.0                                                                                | 48.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 23.55-00.00 | 49.0                                                                              | 52.1                                                                                | 47.0                                                                                          | N/A                                                                 | 0.0              |
| อ. 17 ก.ย. 67            | 00.00-00.05 | 49.8                                                                              | 57.2                                                                                | 47.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.05-00.10 | 49.4                                                                              | 51.2                                                                                | 51.9                                                                                          | 46.6                                                                | 0.0              |
|                          | 00.10-00.15 | 49.7                                                                              | 52.3                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.15-00.20 | 50.2                                                                              | 52.2                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.20-00.25 | 50.1                                                                              | 51.6                                                                                | 47.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.25-00.30 | 50.3                                                                              | 51.8                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.30-00.35 | 49.2                                                                              | 51.9                                                                                | 46.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.35-00.40 | 49.1                                                                              | 51.1                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.40-00.45 | 49.5                                                                              | 50.9                                                                                | 48.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.45-00.50 | 48.3                                                                              | 49.9                                                                                | 47.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.50-00.55 | 48.3                                                                              | 48.9                                                                                | 48.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 00.55-01.00 | 48.5                                                                              | 49.8                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

ตารางที่ 2 ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตรายการโทรทัศน์ เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                         |                                                                                                   |                                                                         |                      |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------|
| วันที่ทำการ<br>ตรวจวัด   | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                         | 10-17 กันยายน 2567                                                                                | ระดับเสียงขณะ<br>มีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับ<br>การรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียง<br>ขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียง<br>ของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                         |                      |
|                          |             | (1)                                                                               | (2)                                                                                     | (3)                                                                                               |                                                                         |                      |
| อ. 17 ก.ย. 67            | 01.00-01.05 | 48.5                                                                              | 49.7                                                                                    | 49.1                                                                                              | N/A                                                                     | 0.0                  |
|                          | 01.05-01.10 | 48.7                                                                              | 54.7                                                                                    | 48.1                                                                                              | N/A                                                                     | 0.0                  |
|                          | 01.10-01.15 | 48.8                                                                              | 49.5                                                                                    | 49.1                                                                                              | N/A                                                                     | 0.0                  |
|                          | 01.15-01.20 | 48.7                                                                              | 49.2                                                                                    | 48.0                                                                                              | N/A                                                                     | 0.0                  |
|                          | 01.20-01.25 | 48.0                                                                              | 52.0                                                                                    | 47.9                                                                                              | N/A                                                                     | 0.0                  |
|                          | 01.25-01.30 | 49.0                                                                              | 50.7                                                                                    | 48.2                                                                                              | N/A                                                                     | 0.0                  |
|                          | 01.30-01.35 | 48.8                                                                              | 49.7                                                                                    | 49.2                                                                                              | N/A                                                                     | 0.0                  |
|                          | 01.35-01.40 | 48.4                                                                              | 49.0                                                                                    | 50.7                                                                                              | 48.8                                                                    | 0.4                  |
|                          | 01.40-01.45 | 48.3                                                                              | 49.2                                                                                    | 47.9                                                                                              | N/A                                                                     | 0.0                  |
|                          | 01.45-01.50 | 48.5                                                                              | 51.0                                                                                    | 50.6                                                                                              | N/A                                                                     | 0.0                  |
|                          | 01.50-01.55 | 48.4                                                                              | 49.3                                                                                    | 47.3                                                                                              | N/A                                                                     | 0.0                  |
|                          | 01.55-02.00 | 48.0                                                                              | 49.5                                                                                    | 47.1                                                                                              | N/A                                                                     | 0.0                  |
|                          | 02.00-02.05 | 48.7                                                                              | 50.9                                                                                    | 47.5                                                                                              | N/A                                                                     | 0.0                  |
|                          | 02.05-02.10 | 48.6                                                                              | 50.4                                                                                    | 50.3                                                                                              | N/A                                                                     | 0.0                  |
|                          | 02.10-02.15 | 48.6                                                                              | 50.4                                                                                    | 55.8                                                                                              | 57.3                                                                    | 8.7                  |
|                          | 02.15-02.20 | 48.9                                                                              | 50.5                                                                                    | 51.7                                                                                              | 48.5                                                                    | 0.0                  |
|                          | 02.20-02.25 | 48.5                                                                              | 52.0                                                                                    | 49.3                                                                                              | N/A                                                                     | 0.0                  |
|                          | 02.25-02.30 | 48.6                                                                              | 49.7                                                                                    | 47.2                                                                                              | N/A                                                                     | 0.0                  |
|                          | 02.30-02.35 | 49.0                                                                              | 50.7                                                                                    | 49.5                                                                                              | N/A                                                                     | 0.0                  |
|                          | 02.35-02.40 | 49.4                                                                              | 54.2                                                                                    | 46.7                                                                                              | N/A                                                                     | 0.0                  |
|                          | 02.40-02.45 | 49.1                                                                              | 52.2                                                                                    | 47.4                                                                                              | N/A                                                                     | 0.0                  |
|                          | 02.45-02.50 | 49.5                                                                              | 51.9                                                                                    | 47.1                                                                                              | N/A                                                                     | 0.0                  |
|                          | 02.50-02.55 | 48.5                                                                              | 49.5                                                                                    | 48.9                                                                                              | N/A                                                                     | 0.0                  |
|                          | 02.55-03.00 | 48.9                                                                              | 50.0                                                                                    | 47.5                                                                                              | N/A                                                                     | 0.0                  |
|                          | 03.00-03.05 | 49.3                                                                              | 52.3                                                                                    | 47.9                                                                                              | N/A                                                                     | 0.0                  |
|                          | 03.05-03.10 | 49.1                                                                              | 52.5                                                                                    | 52.6                                                                                              | 39.2                                                                    | 0.0                  |
|                          | 03.10-03.15 | 49.2                                                                              | 51.8                                                                                    | 53.9                                                                                              | 52.7                                                                    | 3.5                  |
|                          | 03.15-03.20 | 48.6                                                                              | 51.4                                                                                    | 50.0                                                                                              | N/A                                                                     | 0.0                  |
|                          | 03.20-03.25 | 49.1                                                                              | 52.6                                                                                    | 48.0                                                                                              | N/A                                                                     | 0.0                  |
|                          | 03.25-03.30 | 48.6                                                                              | 49.3                                                                                    | 47.9                                                                                              | N/A                                                                     | 0.0                  |
|                          | 03.30-03.35 | 48.5                                                                              | 50.8                                                                                    | 48.0                                                                                              | N/A                                                                     | 0.0                  |
|                          | 03.35-03.40 | 48.9                                                                              | 49.9                                                                                    | 47.4                                                                                              | N/A                                                                     | 0.0                  |
|                          | 03.40-03.45 | 49.1                                                                              | 50.2                                                                                    | 49.9                                                                                              | N/A                                                                     | 0.0                  |
|                          | 03.45-03.50 | 48.5                                                                              | 51.1                                                                                    | 56.0                                                                                              | 57.3                                                                    | 8.8                  |
|                          | 03.50-03.55 | 48.5                                                                              | 49.0                                                                                    | 46.6                                                                                              | N/A                                                                     | 0.0                  |
|                          | 03.55-04.00 | 48.6                                                                              | 51.8                                                                                    | 55.1                                                                                              | 55.4                                                                    | 6.8                  |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                         |                                                                                                   |                                                                         | 10                   |

ตารางที่ 2 ผลการคำนวณค่าระดับการรบกวน (ช่วงเวลากลางคืน) (ต่อ)

บริเวณชุมชนหนองแฟบ

โครงการโรงงานผลิตสารบิสฟีนอล เอ บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน)

| หน่วย : dBA              |             |                                                                                   |                                                                                     |                                                                                               |                                                                     |                  |
|--------------------------|-------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------|
| วันที่ทำการตรวจวัด       | เวลา (น.)   | 12-14 ตุลาคม 2561                                                                 |                                                                                     | 10-17 กันยายน 2567                                                                            | ระดับเสียงขณะมีการรบกวน<br>(Rating Level) <sup>3/</sup><br>(+3 dBA) | ค่าระดับการรบกวน |
|                          |             | ระดับเสียงพื้นฐาน<br>(Background Sound Level) <sup>1/</sup><br>(L <sub>90</sub> ) | ระดับเสียงขณะไม่มีการรบกวน<br>(Residual Sound Level) <sup>1/</sup><br>(Leq (5 min)) | ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด<br>(Specific Sound Level) <sup>2/</sup><br>(Leq (5 min)) |                                                                     |                  |
|                          |             | (1)                                                                               | (2)                                                                                 | (3)                                                                                           | (4)                                                                 | (4)-(1)          |
| อ. 17 ก.ย. 67            | 04.00-04.05 | 48.7                                                                              | 57.0                                                                                | 57.8                                                                                          | 53.1                                                                | 4.4              |
|                          | 04.05-04.10 | 50.2                                                                              | 53.5                                                                                | 50.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.10-04.15 | 49.9                                                                              | 53.3                                                                                | 52.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.15-04.20 | 48.9                                                                              | 53.2                                                                                | 50.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.20-04.25 | 49.3                                                                              | 52.2                                                                                | 47.3                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.25-04.30 | 49.3                                                                              | 51.0                                                                                | 46.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.30-04.35 | 49.3                                                                              | 52.3                                                                                | 46.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.35-04.40 | 49.8                                                                              | 53.0                                                                                | 51.5                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.40-04.45 | 48.9                                                                              | 50.9                                                                                | 51.4                                                                                          | 44.8                                                                | 0.0              |
|                          | 04.45-04.50 | 49.8                                                                              | 53.3                                                                                | 45.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.50-04.55 | 49.3                                                                              | 50.9                                                                                | 48.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 04.55-05.00 | 49.2                                                                              | 51.1                                                                                | 46.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.00-05.05 | 49.4                                                                              | 51.5                                                                                | 49.1                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.05-05.10 | 49.6                                                                              | 51.6                                                                                | 46.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.10-05.15 | 49.1                                                                              | 52.2                                                                                | 47.6                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.15-05.20 | 49.6                                                                              | 52.9                                                                                | 52.4                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.20-05.25 | 49.1                                                                              | 50.8                                                                                | 50.2                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.25-05.30 | 48.7                                                                              | 51.4                                                                                | 47.8                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.30-05.35 | 49.3                                                                              | 51.9                                                                                | 49.7                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.35-05.40 | 49.5                                                                              | 54.9                                                                                | 49.0                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.40-05.45 | 49.5                                                                              | 55.3                                                                                | 53.9                                                                                          | N/A                                                                 | 0.0              |
|                          | 05.45-05.50 | 49.4                                                                              | 51.5                                                                                | 69.4                                                                                          | 72.3                                                                | 22.9             |
|                          | 05.50-05.55 | 49.7                                                                              | 52.8                                                                                | 68.8                                                                                          | 71.7                                                                | 22.0             |
|                          | 05.55-06.00 | 50.3                                                                              | 54.3                                                                                | 68.9                                                                                          | 71.7                                                                | 21.4             |
| ค่ามาตรฐาน <sup>4/</sup> |             |                                                                                   |                                                                                     |                                                                                               |                                                                     | 10               |

หมายเหตุ :

1. / ระดับเสียงพื้นฐาน และระดับเสียงขณะไม่มีการรบกวน จากการตรวจวัดบริเวณชุมชนหนองแฟบ โดยบริษัท ชีคอต จำกัด ในช่วงหยุดกระบวนการผลิต เพื่อซ่อมบำรุงเครื่องจักรและอุปกรณ์ในปี พ.ศ.2561 ระหว่างวันศุกร์ที่ 12 ถึง วันอาทิตย์ที่ 14 ตุลาคม พ.ศ.2561 โดยชุดข้อมูลของผลตรวจวัดที่ใช้เป็นตัวแทนระดับเสียงในวันหยุด (เสาร์-อาทิตย์) เป็นผลตรวจวัดระหว่างวันที่ 13-14 ตุลาคม พ.ศ.2561 ส่วนระดับเสียงในวันทำการ (จันทร์-ศุกร์) เป็นผลการตรวจวัดระหว่างวันที่ 12-13 ตุลาคม พ.ศ.2561

2. / ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด หมายถึง ระดับเสียงที่ตรวจวัดบริเวณชุมชนหนองแฟบ ในช่วงระหว่างที่โรงงานดำเนินการผลิตปกติ ระหว่างวันที่ 10-17 กันยายน พ.ศ.2567 โดยบริษัท ชีคอต จำกัด ซึ่งนำมาใช้คำนวณระดับเสียงขณะมีการรบกวน และค่าระดับการรบกวน โดยเป็นชุดข้อมูลที่ต้องสอดคล้องกันระหว่างวันหยุด (เสาร์-อาทิตย์) และวันทำการ (จันทร์-ศุกร์)

3. / Rating level = { 10 (log<sub>10</sub>(10<sup>(0.1LAeq,Ts)</sup> - 10<sup>(0.1LAeq,R)</sup>) } + 10log<sub>10</sub>(Ts/Tr)

โดย LAeq,Ts = ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด (Specific Noise Level)

LAeq,R = ระดับเสียงขณะไม่มีการรบกวน (Residual Sound Level)

Ts = ระยะเวลาของช่วงเวลาที่แหล่งกำเนิด

Tr = ระยะเวลาอ้างอิงที่กำหนดเพื่อใช้คำนวณระดับเสียงขณะมีการรบกวน

กรณีแหล่งกำเนิดก่อให้เกิดเสียงในช่วงเวลาระหว่าง 22.00-06.00 น. ให้บวกเพิ่มอีก 3 เดซิเบลเอ

4. <sup>4/</sup> ค่ามาตรฐานตามประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 29 (พ.ศ.2550) เรื่อง ค่าระดับเสียงรบกวน
5. N/A หมายถึง ไม่สามารถคำนวณค่าได้ เนื่องจากระดับเสียงขณะไม่มีการรบกวน  $\geq$  ระดับเสียงขณะเกิดเสียงของแหล่งกำเนิด
6. ค่าระดับการรบกวน เท่ากับ 0 หมายถึง ระดับเสียงขณะมีการรบกวน  $\leq$  ระดับเสียงพื้นฐาน



ภาคผนวก ง

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ใบรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

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ใบรับรองผลการตรวจวัดคุณภาพอากาศในบรรยากาศ  
(ระยะก่อสร้าง)



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

### AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 224002Amb-sign/Oct/TSP  
Branch 18 (BPA Plant) SAMPLING DATE : 21-28/10/2024  
SAMPLING BY : SECOT Co., Ltd. RECEIVED DATE : 07/11/2024  
ANALYTICAL DATE : 07-08/11/2024 REPORT DATE : 25/11/2024  
SAMPLE CONDITION : Normal SITE OPERATOR : Mr. Phuwadech Kaewjirakulsri  
LOCATION DESCRIPTION : Construction Area

| PARAMETER   | SAMPLING<br>DATE | UNIT              | RESULT | STANDARD* | REFERENCE<br>METHOD |
|-------------|------------------|-------------------|--------|-----------|---------------------|
| TSP (24 hr) | 21-22/10/2567    | mg/m <sup>3</sup> | 0.027  | 0.330     | 40 CFR 50 App B     |
|             | 22-23/10/2567    | mg/m <sup>3</sup> | 0.035  |           |                     |
|             | 23-24/10/2567    | mg/m <sup>3</sup> | 0.050  |           |                     |
|             | 24-25/10/2567    | mg/m <sup>3</sup> | 0.055  |           |                     |
|             | 25-26/10/2567    | mg/m <sup>3</sup> | 0.005  |           |                     |
|             | 26-27/10/2567    | mg/m <sup>3</sup> | 0.036  |           |                     |
|             | 27-28/10/2567    | mg/m <sup>3</sup> | 0.020  |           |                     |

*Pornapa Budthum*

(Miss Pornnapa Budthum)

Analyst

*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 National Environment Board No.24, B.E.2547.



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Construction Area

Monitor period : 21-28 Oct 2024

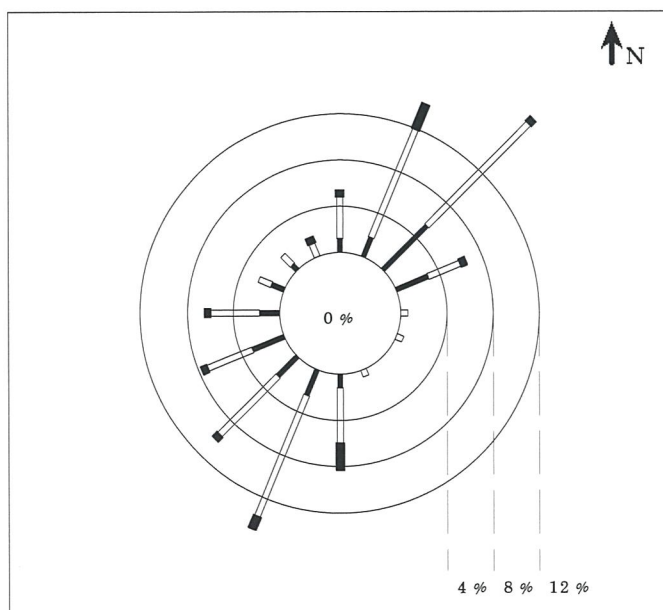
Wind Speed Model : Novalynx WS-25

Serial No : A4907

Wind Direction Model : Novalynx WS-25

Serial No : A4907

| Direction | Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed |         |         |         |         |             | Total  |
|-----------|-----------------------------------------------------------------------|---------|---------|---------|---------|-------------|--------|
|           | 0.5-1 m/s                                                             | 1-2 m/s | 2-3 m/s | 3-4 m/s | 4-6 m/s | More than 6 |        |
| N         | 0.0119                                                                | 0.0357  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0536 |
| NNE       | 0.0179                                                                | 0.1012  | 0.0238  | 0.0000  | 0.0000  | 0.0000      | 0.1429 |
| NE        | 0.0536                                                                | 0.1250  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.1845 |
| ENE       | 0.0298                                                                | 0.0298  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0655 |
| E         | 0.0000                                                                | 0.0060  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0060 |
| ESE       | 0.0000                                                                | 0.0060  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0060 |
| SE        | 0.0000                                                                | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0000 |
| SSE       | 0.0000                                                                | 0.0060  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0060 |
| S         | 0.0119                                                                | 0.0476  | 0.0238  | 0.0000  | 0.0000  | 0.0000      | 0.0833 |
| SSW       | 0.0238                                                                | 0.1131  | 0.0119  | 0.0000  | 0.0000  | 0.0000      | 0.1488 |
| SW        | 0.0238                                                                | 0.0714  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.1012 |
| WSW       | 0.0298                                                                | 0.0417  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0774 |
| W         | 0.0179                                                                | 0.0417  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0655 |
| WNW       | 0.0119                                                                | 0.0119  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0238 |
| NW        | 0.0060                                                                | 0.0119  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0179 |
| NNW       | 0.0000                                                                | 0.0119  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0179 |
| CALM      | 0.0000                                                                |         |         |         |         |             |        |



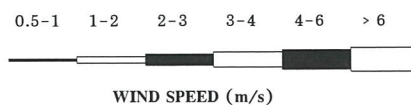
Application : WindPro Ver.1.0

Control : 16 Direction Calculation With

Calm Wind &lt; 0.5 m/s

Data Unit : Direction in Deg.

Wind Speed in m/s



NOTE : Frequencies indicate direction from which the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-224002-Construction Area 21-28 Oct 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Construction Area

Monitor period : 21-28 Oct 2024

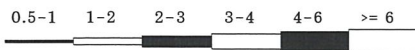
Wind Speed Model : Novalynx WS-25

Serial No : A4907

Wind Direction Model : Novalynx WS-25

Serial No : A4907

| Time          | 21-22 Oct 2024 |     | 22-23 Oct 2024 |     | 23-24 Oct 2024 |     | 24-25 Oct 2024 |     |
|---------------|----------------|-----|----------------|-----|----------------|-----|----------------|-----|
|               | WS(m/s)        | WD  | WS(m/s)        | WD  | WS(m/s)        | WD  | WS(m/s)        | WD  |
| 10:00 - 11:00 | 1.3            | SSW | 0.9            | NE  | 1.6            | SSW | 1.5            | N   |
| 11:00 - 12:00 | 1.9            | S   | 1.6            | S   | 1.2            | S   | 1.4            | NE  |
| 12:00 - 13:00 | 1.7            | W   | 2.0            | SSW | 1.8            | SW  | 1.8            | SSW |
| 13:00 - 14:00 | 1.6            | SW  | 2.0            | NNE | 0.8            | WSW | 1.7            | SSW |
| 14:00 - 15:00 | 2.0            | SW  | 1.7            | NNE | 1.3            | WSW | 2.0            | NNE |
| 15:00 - 16:00 | 0.9            | WSW | 1.0            | N   | 2.1            | NNE | 1.5            | ENE |
| 16:00 - 17:00 | 1.6            | SW  | 1.2            | NNE | 1.9            | NNE | 0.8            | SSW |
| 17:00 - 18:00 | 2.2            | ENE | 1.4            | NNE | 1.8            | NE  | 1.8            | W   |
| 18:00 - 19:00 | 0.8            | ENE | 2.1            | NNE | 0.8            | W   | 1.7            | NE  |
| 19:00 - 20:00 | 1.0            | ENE | 1.6            | NNE | 1.8            | NE  | 1.4            | S   |
| 20:00 - 21:00 | 0.8            | SSW | 2.0            | NNE | 1.1            | W   | 1.0            | WSW |
| 21:00 - 22:00 | 1.1            | SW  | 1.3            | NNE | 0.7            | NE  | 1.3            | SSW |
| 22:00 - 23:00 | 1.5            | SSW | 1.4            | NNE | 1.3            | S   | 0.8            | WSW |
| 23:00 - 24:00 | 1.8            | SSW | 1.9            | SSE | 1.8            | NNE | 1.9            | WSW |
| 00:00 - 01:00 | 1.1            | SSW | 1.2            | S   | 2.0            | NE  | 2.1            | W   |
| 01:00 - 02:00 | 1.8            | SSW | 1.4            | ESE | 1.6            | NE  | 0.6            | NE  |
| 02:00 - 03:00 | 1.1            | SW  | 1.6            | NNE | 0.9            | ENE | 1.1            | NE  |
| 03:00 - 04:00 | 2.1            | SSW | 0.8            | NE  | 0.7            | ENE | 1.7            | NE  |
| 04:00 - 05:00 | 1.9            | W   | 0.7            | NE  | 1.7            | NE  | 1.8            | NNE |
| 05:00 - 06:00 | 0.6            | WNW | 1.4            | NNW | 1.2            | NE  | 1.2            | E   |
| 06:00 - 07:00 | 2.2            | NNW | 1.8            | N   | 1.1            | NE  | 2.0            | NNE |
| 07:00 - 08:00 | 0.6            | WSW | 1.0            | NNE | 1.8            | NE  | 0.7            | NE  |
| 08:00 - 09:00 | 1.0            | NE  | 0.9            | ENE | 2.0            | ENE | 2.2            | NNE |
| 09:00 - 10:00 | 1.5            | NE  | 1.8            | NE  | 0.9            | NE  | 1.4            | N   |
| Wind Rose     |                |     |                |     |                |     |                |     |



WIND SPEED (m/s) - Scale 1:3

File Control :R:\Database\Windrose\FileControl\Win-224002-Construction Area 21-28 Oct 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team





## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Construction Area

Monitor period : 21-28 Oct 2024

Wind Speed Model : Novalynx WS-25

Serial No : A4907

Wind Direction Model : Novalynx WS-25

Serial No : A4907

| Time          | 25-26 Oct 2024 |     | 26-27 Oct 2024 |     | 27-28 Oct 2024 |     |  |
|---------------|----------------|-----|----------------|-----|----------------|-----|--|
|               | WS(m/s)        | WD  | WS(m/s)        | WD  | WS(m/s)        | WD  |  |
| 10:00 - 11:00 | 1.3            | NNE | 1.2            | NE  | 1.4            | WNW |  |
| 11:00 - 12:00 | 1.0            | WNW | 0.7            | SW  | 1.2            | SW  |  |
| 12:00 - 13:00 | 1.5            | N   | 0.9            | NNE | 0.8            | NE  |  |
| 13:00 - 14:00 | 1.6            | NW  | 1.7            | W   | 2.0            | WNW |  |
| 14:00 - 15:00 | 1.3            | NNE | 1.9            | N   | 1.0            | NW  |  |
| 15:00 - 16:00 | 1.9            | NNE | 1.0            | SW  | 1.6            | NE  |  |
| 16:00 - 17:00 | 0.6            | SW  | 0.8            | S   | 1.7            | N   |  |
| 17:00 - 18:00 | 1.0            | NW  | 0.6            | SSW | 2.1            | S   |  |
| 18:00 - 19:00 | 1.4            | S   | 1.3            | SW  | 2.1            | S   |  |
| 19:00 - 20:00 | 1.6            | SSW | 1.1            | SW  | 2.0            | S   |  |
| 20:00 - 21:00 | 1.8            | SSW | 0.6            | SW  | 1.0            | SW  |  |
| 21:00 - 22:00 | 1.9            | SSW | 1.3            | SSW | 2.0            | S   |  |
| 22:00 - 23:00 | 2.0            | SSW | 1.0            | SW  | 2.2            | N   |  |
| 23:00 - 24:00 | 1.3            | SW  | 1.3            | SSW | 0.8            | W   |  |
| 00:00 - 01:00 | 1.9            | SSW | 1.6            | WSW | 1.4            | WSW |  |
| 01:00 - 02:00 | 1.5            | SW  | 1.3            | W   | 2.0            | NE  |  |
| 02:00 - 03:00 | 1.7            | SSW | 0.8            | S   | 1.2            | NE  |  |
| 03:00 - 04:00 | 1.6            | WSW | 0.7            | W   | 0.6            | NE  |  |
| 04:00 - 05:00 | 1.0            | NE  | 0.7            | WSW | 1.7            | NE  |  |
| 05:00 - 06:00 | 0.6            | N   | 2.1            | S   | 1.7            | ENE |  |
| 06:00 - 07:00 | 1.1            | SSW | 2.1            | WSW | 0.8            | NNE |  |
| 07:00 - 08:00 | 1.0            | NNE | 0.6            | SSW | 1.8            | ENE |  |
| 08:00 - 09:00 | 1.4            | NNW | 1.2            | WSW | 1.5            | NE  |  |
| 09:00 - 10:00 | 1.2            | W   | 1.1            | SSW | 0.9            | ENE |  |
| Wind Rose     |                |     |                |     |                |     |  |



WIND SPEED (m/s) - Scale 1:3

File Control :R:\Database\Windrose\FileControl\Win-224002-Construction Area 21-28 Oct 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

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ใบรับรองผลการตรวจวัดระดับเสียงทั่วไป  
(ระยะก่อสร้าง)



## Noise Monitoring Result : Community Noise

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Construction Area

Monitor Period : 21-28 Oct 2024

SLM Model : Cirrus CR162B

Serial No : G300990

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Cirrus CR:515

Serial No : 94296

Calibration Ref dB(A) : 94.0

Certified Date : 14 Feb 2024

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

Expire Date : 13 Feb 2025

Cal Sheet No.: CR-515-2024-309

| Time          | Equivalent Sound Pressure Level (dB(A)) |                |                |                |                |                |                |
|---------------|-----------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
|               | 21-22 Oct 2024                          | 22-23 Oct 2024 | 23-24 Oct 2024 | 24-25 Oct 2024 | 25-26 Oct 2024 | 26-27 Oct 2024 | 27-28 Oct 2024 |
| 10:00 - 11:00 | 60.8                                    | 62.9           | 63.0           | 62.0           | 64.2           | 62.0           | 55.9           |
| 11:00 - 12:00 | 60.0                                    | 61.4           | 63.8           | 59.3           | 60.0           | 62.2           | 56.1           |
| 12:00 - 13:00 | 58.8                                    | 64.3           | 59.8           | 58.4           | 58.5           | 59.7           | 56.8           |
| 13:00 - 14:00 | 62.1                                    | 75.3           | 60.4           | 62.7           | 57.7           | 60.9           | 55.5           |
| 14:00 - 15:00 | 63.3                                    | 68.5           | 61.6           | 62.0           | 61.0           | 60.5           | 56.8           |
| 15:00 - 16:00 | 64.1                                    | 57.5           | 61.2           | 63.6           | 61.2           | 59.5           | 55.3           |
| 16:00 - 17:00 | 63.1                                    | 57.3           | 60.8           | 60.4           | 58.9           | 59.7           | 55.7           |
| 17:00 - 18:00 | 58.8                                    | 56.6           | 59.8           | 59.3           | 57.4           | 60.3           | 56.2           |
| 18:00 - 19:00 | 55.8                                    | 55.0           | 60.2           | 59.8           | 57.5           | 60.3           | 57.1           |
| 19:00 - 20:00 | 55.5                                    | 55.0           | 60.4           | 60.6           | 58.8           | 59.3           | 58.8           |
| 20:00 - 21:00 | 67.1                                    | 67.0           | 61.8           | 63.1           | 63.2           | 63.6           | 57.2           |
| 21:00 - 22:00 | 57.1                                    | 57.9           | 59.9           | 60.4           | 59.6           | 57.9           | 56.8           |
| 22:00 - 23:00 | 55.6                                    | 54.9           | 60.3           | 60.5           | 58.5           | 58.7           | 57.9           |
| 23:00 - 00:00 | 55.4                                    | 55.2           | 60.7           | 60.4           | 57.0           | 59.0           | 56.1           |
| 00:00 - 01:00 | 55.3                                    | 55.0           | 59.7           | 60.5           | 56.8           | 57.4           | 56.1           |
| 01:00 - 02:00 | 55.4                                    | 55.6           | 59.9           | 60.0           | 57.0           | 59.6           | 56.1           |
| 02:00 - 03:00 | 54.8                                    | 54.6           | 59.6           | 60.5           | 57.3           | 56.7           | 55.8           |
| 03:00 - 04:00 | 54.1                                    | 55.3           | 60.7           | 60.1           | 56.9           | 56.6           | 57.0           |
| 04:00 - 05:00 | 54.9                                    | 63.1           | 59.9           | 60.5           | 57.6           | 56.8           | 57.6           |
| 05:00 - 06:00 | 54.8                                    | 57.6           | 61.4           | 61.4           | 58.5           | 57.7           | 57.3           |
| 06:00 - 07:00 | 56.7                                    | 58.3           | 60.3           | 60.3           | 60.5           | 57.9           | 58.7           |
| 07:00 - 08:00 | 55.8                                    | 58.4           | 58.4           | 60.2           | 60.1           | 58.2           | 58.2           |
| 08:00 - 09:00 | 54.9                                    | 59.7           | 59.8           | 62.1           | 60.0           | 58.7           | 59.4           |
| 09:00 - 10:00 | 60.2                                    | 60.1           | 67.3           | 61.5           | 67.3           | 55.7           | 58.5           |
| Leq(24)*      | 59.9                                    | 64.2           | 61.3           | 61.0           | 60.4           | 59.5           | 57.1           |
| Ldn           | 63.2                                    | 66.6           | 67.0           | 67.0           | 65.0           | 64.8           | 63.5           |
| Lmax **       | 94.1                                    | 101.6          | 90.4           | 93.0           | 95.5           | 93.1           | 85.1           |
| Standard-24Hr | 70 dB(A)                                |                |                |                |                |                |                |
| Standard-Max  | 115 dB(A)                               |                |                |                |                |                |                |

Remark : \* Average time between 10:00-10:00

\*\* Maximum Sound Pressure Level between 10:00-10:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team





## Noise Monitoring Result : Background Noise

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Construction Area

Monitor Period : 21-28 Oct 2024

SLM Model : Cirrus CR162B

Serial No : G300990

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Cirrus CR:515

Serial No : 94296

Calibration Ref dB(A) : 94.0

Certified Date : 14 Feb 2024

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

Expire Date : 13 Feb 2025

Cal Sheet No.: CR-515-2024-309

| Time          | L90 (dB(A))    |                |                |                |                |                |                |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|               | 21-22 Oct 2024 | 22-23 Oct 2024 | 23-24 Oct 2024 | 24-25 Oct 2024 | 25-26 Oct 2024 | 26-27 Oct 2024 | 27-28 Oct 2024 |
| 10:00 - 11:00 | 54.8           | 55.0           | 58.9           | 59.2           | 59.1           | 60.1           | 54.7           |
| 11:00 - 12:00 | 55.1           | 53.3           | 59.2           | 57.3           | 58.6           | 59.2           | 54.6           |
| 12:00 - 13:00 | 54.1           | 54.2           | 58.9           | 57.2           | 56.2           | 58.9           | 54.6           |
| 13:00 - 14:00 | 54.7           | 65.3           | 58.7           | 58.2           | 55.7           | 59.0           | 54.7           |
| 14:00 - 15:00 | 55.0           | 58.5           | 59.0           | 58.3           | 55.4           | 58.8           | 54.6           |
| 15:00 - 16:00 | 55.1           | 54.1           | 59.0           | 58.2           | 55.5           | 58.8           | 54.5           |
| 16:00 - 17:00 | 54.5           | 53.7           | 59.2           | 58.1           | 55.6           | 58.9           | 54.8           |
| 17:00 - 18:00 | 54.1           | 54.4           | 59.1           | 58.3           | 56.0           | 59.5           | 55.0           |
| 18:00 - 19:00 | 54.5           | 53.3           | 59.2           | 58.8           | 56.2           | 59.0           | 56.0           |
| 19:00 - 20:00 | 54.4           | 53.5           | 59.2           | 58.9           | 56.5           | 58.7           | 56.7           |
| 20:00 - 21:00 | 54.8           | 55.0           | 59.4           | 59.4           | 57.0           | 57.7           | 56.3           |
| 21:00 - 22:00 | 54.6           | 54.7           | 59.3           | 59.6           | 56.7           | 57.2           | 56.1           |
| 22:00 - 23:00 | 54.4           | 54.1           | 59.6           | 59.8           | 56.5           | 58.1           | 55.7           |
| 23:00 - 00:00 | 54.7           | 53.9           | 59.2           | 59.7           | 56.5           | 57.1           | 55.3           |
| 00:00 - 01:00 | 54.3           | 53.8           | 59.1           | 59.5           | 56.2           | 56.7           | 55.3           |
| 01:00 - 02:00 | 54.2           | 54.3           | 59.1           | 59.5           | 56.2           | 56.2           | 55.3           |
| 02:00 - 03:00 | 54.0           | 53.5           | 58.9           | 59.6           | 56.4           | 55.9           | 55.1           |
| 03:00 - 04:00 | 53.4           | 53.4           | 58.9           | 59.5           | 56.3           | 56.0           | 55.2           |
| 04:00 - 05:00 | 53.5           | 56.3           | 59.1           | 59.6           | 56.2           | 56.1           | 56.1           |
| 05:00 - 06:00 | 53.4           | 56.1           | 59.7           | 59.7           | 56.1           | 55.9           | 55.9           |
| 06:00 - 07:00 | 53.5           | 56.1           | 59.6           | 59.6           | 59.1           | 56.3           | 56.3           |
| 07:00 - 08:00 | 53.4           | 57.5           | 57.5           | 59.2           | 59.2           | 56.1           | 56.4           |
| 08:00 - 09:00 | 53.4           | 57.2           | 57.8           | 58.9           | 59.3           | 55.2           | 55.7           |
| 09:00 - 10:00 | 53.4           | 56.7           | 59.6           | 58.9           | 59.6           | 55.0           | 55.6           |
| L90(avg)*     | 54.3           | 56.6           | 59.1           | 59.0           | 57.1           | 57.8           | 55.5           |

Remark : \* Average time between 10:00-10:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

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ใบรับรองผลการตรวจวัดคุณภาพอากาศในบรรยากาศ  
(ระยะดำเนินการ)



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

### AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 224002Amb-sign/Nov/NMHC  
Branch 18 (BPA Plant) SAMPLING DATE : 13-19/11/2024  
SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 22/06/2024  
RECEIVED DATE : 22/11/2024 SAMPLE CONDITION : Normal  
REPORT DATE : 29/11/2024 SITE OPERATOR : Mr. Siwanon Kulawong  
LOCATION DESCRIPTION : 1. Nong Faeb Community (A1)  
2. Map Chalut Community (A2)  
3. Map Chalut-Chak Klang Community (A3)

| PARAMETER                         | SAMPLING<br>DATE | UNIT | ND<br>(Non-detectable) | RESULTS |      |      | REFERENCE<br>METHOD |
|-----------------------------------|------------------|------|------------------------|---------|------|------|---------------------|
|                                   |                  |      |                        | 1       | 2    | 3    |                     |
| Non-Methane Hydrocarbon<br>(NMHC) | 13/11/2024       | ppm  | <0.05                  | 1.09    | 0.33 | 1.05 | Flame ionization    |
|                                   | 14/11/2024       | ppm  | <0.05                  | 1.15    | 0.31 | 0.42 | Detection Method    |
|                                   | 15/11/2024       | ppm  | <0.05                  | 0.83    | 0.31 | 1.04 |                     |
|                                   | 16/11/2024       | ppm  | <0.05                  | 1.13    | 1.08 | 0.18 |                     |
|                                   | 17/11/2024       | ppm  | <0.05                  | 1.06    | 1.03 | 0.32 |                     |
|                                   | 18/11/2024       | ppm  | <0.05                  | 1.07    | 1.29 | 0.11 |                     |
|                                   | 19/11/2024       | ppm  | <0.05                  | 0.89    | 1.12 | 0.31 |                     |

Sudaporn S.

(Miss Sudaporn Soonthorn)

Analyst

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.



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Wat Nong Faeb

Monitor period : 13-20 Nov 2024

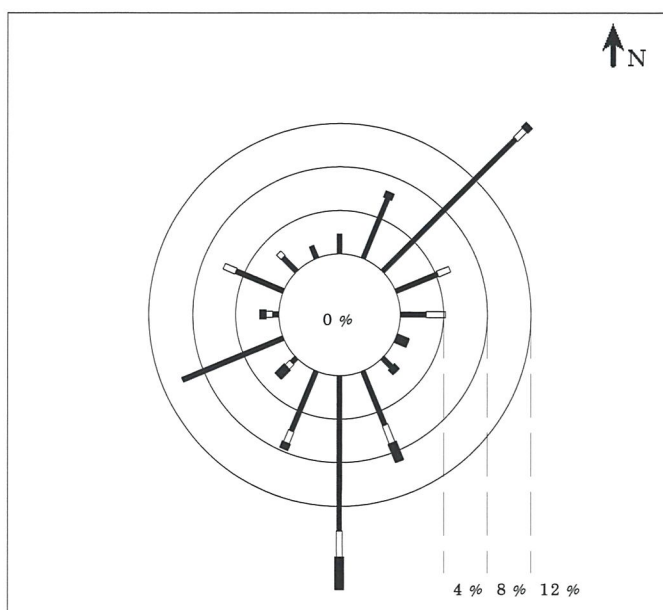
Wind Speed Model : Novalynx WS-25

Serial No : A4907

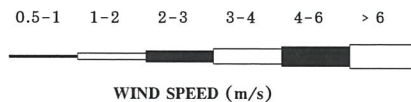
Wind Direction Model : Novalynx WS-25

Serial No : A4907

| Direction | Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed |         |         |         |         |             | Total  |
|-----------|-----------------------------------------------------------------------|---------|---------|---------|---------|-------------|--------|
|           | 0.5-1 m/s                                                             | 1-2 m/s | 2-3 m/s | 3-4 m/s | 4-6 m/s | More than 6 |        |
| N         | 0.0179                                                                | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0179 |
| NNE       | 0.0595                                                                | 0.0000  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0655 |
| NE        | 0.1726                                                                | 0.0119  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.1905 |
| ENE       | 0.0417                                                                | 0.0119  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0536 |
| E         | 0.0238                                                                | 0.0179  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0417 |
| ESE       | 0.0000                                                                | 0.0000  | 0.0119  | 0.0000  | 0.0000  | 0.0000      | 0.0119 |
| SE        | 0.0119                                                                | 0.0000  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0179 |
| SSE       | 0.0536                                                                | 0.0179  | 0.0179  | 0.0000  | 0.0000  | 0.0000      | 0.0893 |
| S         | 0.1429                                                                | 0.0238  | 0.0298  | 0.0000  | 0.0000  | 0.0000      | 0.1964 |
| SSW       | 0.0595                                                                | 0.0119  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0774 |
| SW        | 0.0060                                                                | 0.0060  | 0.0119  | 0.0000  | 0.0000  | 0.0000      | 0.0238 |
| WSW       | 0.1012                                                                | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.1012 |
| W         | 0.0060                                                                | 0.0060  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0179 |
| WNW       | 0.0476                                                                | 0.0119  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0595 |
| NW        | 0.0179                                                                | 0.0060  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0238 |
| NNW       | 0.0119                                                                | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0119 |
| CALM      | 0.0000                                                                |         |         |         |         |             |        |



Application : WindPro Ver.1.0

Control : 16 Direction Calculation With  
Calm Wind < 0.5 m/sData Unit : Direction in Deg.  
Wind Speed in m/sNOTE : Frequencies indicate direction from which  
the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-224002-Wat Nong Faeb 13-20 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team





## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Wat Nong Faeb

Monitor period : 13-20 Nov 2024

Wind Speed Model : Novalynx WS-25

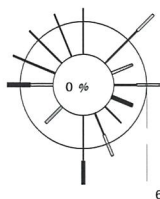
Serial No : A4907

Wind Direction Model : Novalynx WS-25

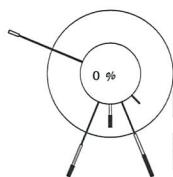
Serial No : A4907

| Time          | 13-14 Nov 2024 |     | 14-15 Nov 2024 |     | 15-16 Nov 2024 |     | 16-17 Nov 2024 |     |
|---------------|----------------|-----|----------------|-----|----------------|-----|----------------|-----|
|               | WS(m/s)        | WD  | WS(m/s)        | WD  | WS(m/s)        | WD  | WS(m/s)        | WD  |
| 15:00 - 16:00 | 1.3            | SSE | 1.6            | SSW | 0.5            | SSW | 2.2            | SW  |
| 16:00 - 17:00 | 0.5            | SSE | 0.6            | SSW | 0.7            | S   | 0.7            | WSW |
| 17:00 - 18:00 | 1.5            | W   | 2.4            | SSE | 0.5            | S   | 0.7            | WSW |
| 18:00 - 19:00 | 0.5            | NNW | 1.9            | WNW | 0.7            | S   | 0.5            | WSW |
| 19:00 - 20:00 | 0.5            | N   | 0.6            | WNW | 0.6            | S   | 0.6            | WSW |
| 20:00 - 21:00 | 0.7            | WNW | 0.6            | WNW | 0.5            | S   | 0.5            | WSW |
| 21:00 - 22:00 | 0.5            | N   | 0.7            | WNW | 0.6            | S   | 0.7            | WSW |
| 22:00 - 23:00 | 0.6            | NW  | 0.6            | WNW | 0.5            | S   | 0.7            | WSW |
| 23:00 - 24:00 | 0.5            | NW  | 0.5            | WNW | 0.7            | S   | 0.7            | WSW |
| 00:00 - 01:00 | 0.6            | NNW | 0.5            | WNW | 0.7            | S   | 0.6            | WSW |
| 01:00 - 02:00 | 0.5            | WNW | 1.4            | SSW | 0.6            | S   | 0.7            | WSW |
| 02:00 - 03:00 | 1.8            | ENE | 0.5            | SSW | 0.6            | S   | 0.7            | WSW |
| 03:00 - 04:00 | 2.3            | W   | 0.5            | SSW | 0.5            | S   | 0.7            | WSW |
| 04:00 - 05:00 | 0.8            | NE  | 2.4            | SSE | 0.6            | S   | 0.5            | WSW |
| 05:00 - 06:00 | 0.7            | E   | 0.6            | SSE | 0.7            | S   | 0.7            | WSW |
| 06:00 - 07:00 | 1.2            | E   | 0.7            | SSE | 0.6            | S   | 0.5            | WSW |
| 07:00 - 08:00 | 1.6            | NE  | 0.7            | SE  | 0.7            | SSW | 0.6            | WSW |
| 08:00 - 09:00 | 0.5            | NE  | 2.4            | SSW | 2.5            | S   | 0.6            | WSW |
| 09:00 - 10:00 | 2.4            | ESE | 0.5            | SSW | 1.5            | S   | 0.5            | SSW |
| 10:00 - 11:00 | 0.7            | S   | 1.0            | SSE | 2.5            | S   | 0.7            | S   |
| 11:00 - 12:00 | 1.5            | SW  | 0.5            | SSE | 0.7            | SSE | 0.6            | SSW |
| 12:00 - 13:00 | 2.2            | S   | 2.0            | S   | 2.5            | SW  | 0.6            | SW  |
| 13:00 - 14:00 | 0.6            | SE  | 1.5            | SSE | 0.5            | S   | 0.6            | SSW |
| 14:00 - 15:00 | 0.6            | S   | 1.2            | S   | 2.0            | S   | 0.7            | W   |

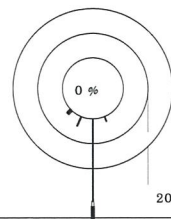
Wind Rose



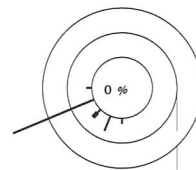
6 %



12 %



20 %



20 %



WIND SPEED (m/s) - Scale 1:3

File Control :R:\Database\Windrose\FileControl\Win-224002-Wat Nong Faeb 13-20 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Wat Nong Faeb

Monitor period : 13-20 Nov 2024

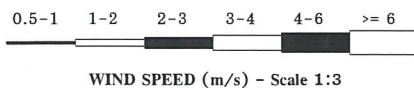
Wind Speed Model : Novalynx WS-25

Serial No : A4907

Wind Direction Model : Novalynx WS-25

Serial No : A4907

| Time          | 17-18 Nov 2024 |     | 18-19 Nov 2024 |     | 19-20 Nov 2024 |     |  |
|---------------|----------------|-----|----------------|-----|----------------|-----|--|
|               | WS(m/s)        | WD  | WS(m/s)        | WD  | WS(m/s)        | WD  |  |
| 15:00 - 16:00 | 2.3            | NNE | 2.1            | SSE | 0.7            | SSE |  |
| 16:00 - 17:00 | 0.6            | NNE | 0.5            | SSE | 1.8            | S   |  |
| 17:00 - 18:00 | 0.6            | NE  | 0.5            | SSE | 0.7            | S   |  |
| 18:00 - 19:00 | 0.6            | NE  | 1.6            | ENE | 0.6            | S   |  |
| 19:00 - 20:00 | 0.5            | NE  | 0.6            | NNE | 0.6            | S   |  |
| 20:00 - 21:00 | 0.5            | NE  | 0.6            | NNE | 1.7            | E   |  |
| 21:00 - 22:00 | 0.7            | NE  | 0.6            | NNE | 0.8            | NE  |  |
| 22:00 - 23:00 | 0.5            | NE  | 0.7            | NE  | 0.7            | NE  |  |
| 23:00 - 24:00 | 2.5            | ESE | 0.6            | NE  | 0.6            | NE  |  |
| 00:00 - 01:00 | 1.3            | NE  | 0.5            | NE  | 0.5            | NE  |  |
| 01:00 - 02:00 | 0.5            | NE  | 0.6            | NE  | 0.6            | ENE |  |
| 02:00 - 03:00 | 0.7            | ENE | 0.5            | NE  | 0.7            | NE  |  |
| 03:00 - 04:00 | 0.6            | ENE | 0.7            | NNE | 0.7            | NNE |  |
| 04:00 - 05:00 | 0.7            | ENE | 0.5            | NE  | 0.7            | N   |  |
| 05:00 - 06:00 | 0.6            | NE  | 0.7            | NE  | 0.7            | NE  |  |
| 06:00 - 07:00 | 0.7            | NE  | 0.6            | NE  | 0.6            | NE  |  |
| 07:00 - 08:00 | 0.6            | NE  | 0.7            | NNE | 0.7            | ENE |  |
| 08:00 - 09:00 | 0.6            | ENE | 0.7            | NE  | 0.9            | NW  |  |
| 09:00 - 10:00 | 0.6            | E   | 0.6            | E   | 0.7            | NNE |  |
| 10:00 - 11:00 | 0.5            | E   | 0.6            | ENE | 0.5            | NNE |  |
| 11:00 - 12:00 | 1.1            | S   | 1.0            | WNW | 0.5            | NE  |  |
| 12:00 - 13:00 | 0.7            | S   | 2.5            | SE  | 1.9            | NW  |  |
| 13:00 - 14:00 | 0.5            | S   | 1.8            | E   | 2.2            | NE  |  |
| 14:00 - 15:00 | 0.7            | SSW | 0.9            | SSE | 0.7            | NNE |  |
| Wind Rose     |                |     |                |     |                |     |  |



File Control :R:\Database\Windrose\FileControl\Win-224002-Wat Nong Faeb 13-20 Nov 2024

(Miss Katesarin Vorradetwittaya)
   
 Environmental Scientist

(Miss Preeda Somjai)
   
 Technical Management Team



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Map Chalute Community

Monitor period : 13-20 Nov 2024

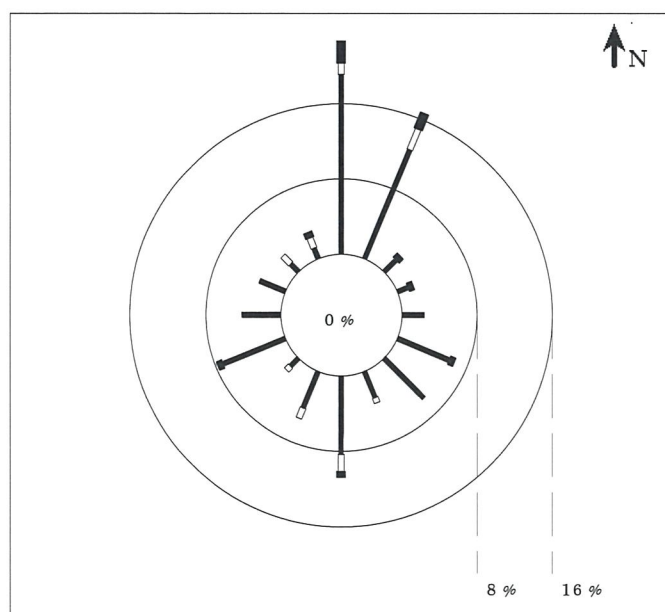
Wind Speed Model : Novalynx WS-25

Serial No : A4904

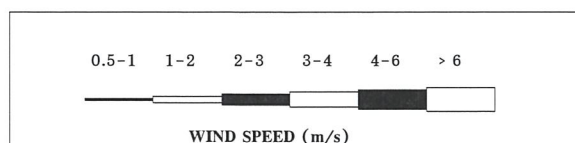
Wind Direction Model : Novalynx WS-25

Serial No : A4904

| Direction | Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed |         |         |         |         |             | Total  |
|-----------|-----------------------------------------------------------------------|---------|---------|---------|---------|-------------|--------|
|           | 0.5-1 m/s                                                             | 1-2 m/s | 2-3 m/s | 3-4 m/s | 4-6 m/s | More than 6 |        |
| N         | 0.1905                                                                | 0.0119  | 0.0238  | 0.0000  | 0.0000  | 0.0000      | 0.2262 |
| NNE       | 0.1250                                                                | 0.0238  | 0.0179  | 0.0000  | 0.0000  | 0.0000      | 0.1667 |
| NE        | 0.0179                                                                | 0.0000  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0238 |
| ENE       | 0.0119                                                                | 0.0000  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0179 |
| E         | 0.0238                                                                | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0238 |
| ESE       | 0.0595                                                                | 0.0000  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0655 |
| SE        | 0.0595                                                                | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0595 |
| SSE       | 0.0298                                                                | 0.0060  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0357 |
| S         | 0.0833                                                                | 0.0179  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.1071 |
| SSW       | 0.0417                                                                | 0.0119  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0536 |
| SW        | 0.0119                                                                | 0.0060  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0179 |
| WSW       | 0.0714                                                                | 0.0000  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0774 |
| W         | 0.0417                                                                | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0417 |
| WNW       | 0.0298                                                                | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0298 |
| NW        | 0.0119                                                                | 0.0119  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0238 |
| NNW       | 0.0119                                                                | 0.0119  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0298 |
| CALM      | 0.0000                                                                |         |         |         |         |             |        |



Application : WindPro Ver.1.0

Control : 16 Direction Calculation With  
Calm Wind < 0.5 m/sData Unit : Direction in Deg.  
Wind Speed in m/sNOTE : Frequencies indicate direction from which  
the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-224002-Map Chalute Community 13-20 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team





## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Map Chalute Community

Monitor period : 13-20 Nov 2024

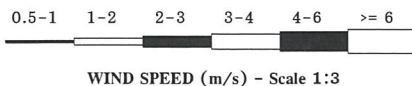
Wind Speed Model : Novalynx WS-25

Serial No : A4904

Wind Direction Model : Novalynx WS-25

Serial No : A4904

| Time          | 13-14 Nov 2024 |     | 14-15 Nov 2024 |     | 15-16 Nov 2024 |     | 16-17 Nov 2024 |     |
|---------------|----------------|-----|----------------|-----|----------------|-----|----------------|-----|
|               | WS(m/s)        | WD  | WS(m/s)        | WD  | WS(m/s)        | WD  | WS(m/s)        | WD  |
| 17:00 - 18:00 | 1.5            | NNW | 0.8            | SSW | 0.5            | SE  | 0.7            | SSW |
| 18:00 - 19:00 | 0.7            | N   | 0.8            | S   | 0.7            | SE  | 0.7            | WSW |
| 19:00 - 20:00 | 0.7            | NNW | 0.5            | SE  | 0.7            | SSE | 0.6            | WSW |
| 20:00 - 21:00 | 0.5            | WNW | 0.7            | SSE | 0.5            | SSE | 0.5            | WSW |
| 21:00 - 22:00 | 0.7            | NW  | 0.7            | SE  | 0.6            | ESE | 0.5            | W   |
| 22:00 - 23:00 | 0.6            | W   | 0.5            | ESE | 0.6            | SSE | 0.5            | S   |
| 23:00 - 24:00 | 0.5            | WNW | 0.5            | ESE | 0.6            | SE  | 0.7            | SW  |
| 00:00 - 01:00 | 0.7            | WNW | 0.6            | E   | 0.7            | ESE | 0.7            | WSW |
| 01:00 - 02:00 | 0.5            | WNW | 0.7            | ESE | 0.5            | S   | 0.7            | WSW |
| 02:00 - 03:00 | 1.9            | N   | 0.6            | SE  | 0.7            | E   | 0.6            | WSW |
| 03:00 - 04:00 | 0.7            | WNW | 0.5            | SE  | 0.6            | SE  | 0.5            | WSW |
| 04:00 - 05:00 | 1.0            | NNE | 0.5            | ESE | 0.6            | S   | 0.5            | S   |
| 05:00 - 06:00 | 0.6            | NE  | 0.5            | ESE | 0.5            | ESE | 0.5            | S   |
| 06:00 - 07:00 | 0.7            | NE  | 0.7            | ESE | 2.2            | NNE | 0.5            | WSW |
| 07:00 - 08:00 | 0.5            | N   | 0.5            | SE  | 0.7            | N   | 0.7            | WSW |
| 08:00 - 09:00 | 0.5            | NE  | 0.5            | ESE | 0.6            | N   | 0.5            | W   |
| 09:00 - 10:00 | 1.6            | NW  | 0.7            | S   | 0.7            | N   | 0.5            | WSW |
| 10:00 - 11:00 | 2.3            | NNE | 0.7            | SSW | 0.5            | N   | 0.7            | WSW |
| 11:00 - 12:00 | 1.0            | S   | 0.5            | S   | 0.8            | SSW | 0.6            | SSW |
| 12:00 - 13:00 | 1.1            | S   | 0.6            | S   | 0.5            | SSW | 0.6            | SW  |
| 13:00 - 14:00 | 0.5            | S   | 0.7            | S   | 0.5            | SSW | 1.1            | NNW |
| 14:00 - 15:00 | 1.6            | SSE | 0.5            | SSE | 0.5            | WSW | 2.2            | WSW |
| 15:00 - 16:00 | 1.6            | SSW | 1.3            | SSW | 0.5            | S   | 2.2            | ESE |
| 16:00 - 17:00 | 2.0            | N   | 2.1            | S   | 0.7            | W   | 1.4            | NNE |
| Wind Rose     |                |     |                |     |                |     |                |     |



File Control :R:\Database\Windrose\FileControl\Win-224002-Map Chalute Community 13-20 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team





## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Map Chalute Community

Monitor period : 13-20 Nov 2024

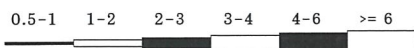
Wind Speed Model : Novalynx WS-25

Serial No : A4904

Wind Direction Model : Novalynx WS-25

Serial No : A4904

| Time          | 17-18 Nov 2024 |     | 18-19 Nov 2024 |     | 19-20 Nov 2024 |     |  |
|---------------|----------------|-----|----------------|-----|----------------|-----|--|
|               | WS(m/s)        | WD  | WS(m/s)        | WD  | WS(m/s)        | WD  |  |
| 17:00 - 18:00 | 0.7            | N   | 0.7            | W   | 0.7            | SE  |  |
| 18:00 - 19:00 | 0.7            | N   | 0.7            | N   | 2.1            | NNW |  |
| 19:00 - 20:00 | 0.6            | N   | 0.6            | W   | 0.7            | N   |  |
| 20:00 - 21:00 | 0.7            | N   | 1.0            | NNE | 0.6            | NW  |  |
| 21:00 - 22:00 | 0.5            | N   | 0.6            | E   | 0.8            | NNE |  |
| 22:00 - 23:00 | 0.5            | N   | 0.5            | E   | 0.6            | ENE |  |
| 23:00 - 24:00 | 0.7            | N   | 0.7            | ENE | 1.2            | N   |  |
| 00:00 - 01:00 | 0.6            | N   | 1.5            | NW  | 2.1            | ENE |  |
| 01:00 - 02:00 | 0.7            | N   | 2.3            | NE  | 0.7            | NNE |  |
| 02:00 - 03:00 | 0.6            | N   | 0.7            | N   | 0.6            | NNE |  |
| 03:00 - 04:00 | 0.6            | N   | 0.5            | W   | 0.6            | N   |  |
| 04:00 - 05:00 | 0.6            | N   | 0.5            | NNW | 0.6            | NNE |  |
| 05:00 - 06:00 | 0.5            | N   | 0.8            | N   | 0.6            | N   |  |
| 06:00 - 07:00 | 0.6            | N   | 0.7            | NNE | 0.5            | N   |  |
| 07:00 - 08:00 | 0.5            | NNE | 0.5            | NNE | 0.6            | NNE |  |
| 08:00 - 09:00 | 0.5            | N   | 0.6            | NNE | 2.4            | N   |  |
| 09:00 - 10:00 | 0.5            | NNE | 0.7            | N   | 1.1            | NNE |  |
| 10:00 - 11:00 | 0.6            | NNE | 0.5            | NNE | 0.5            | NNE |  |
| 11:00 - 12:00 | 0.5            | NNE | 0.7            | NNE | 0.5            | N   |  |
| 12:00 - 13:00 | 0.6            | NNE | 0.5            | NNE | 2.1            | N   |  |
| 13:00 - 14:00 | 0.7            | S   | 0.7            | N   | 2.3            | NNE |  |
| 14:00 - 15:00 | 1.6            | S   | 0.7            | NNE | 0.5            | NNE |  |
| 15:00 - 16:00 | 0.5            | S   | 0.5            | NNE | 0.7            | NNE |  |
| 16:00 - 17:00 | 2.1            | N   | 1.8            | SW  | 0.5            | N   |  |
| Wind Rose     |                |     |                |     |                |     |  |



WIND SPEED (m/s) - Scale 1:3

File Control :R:\Database\Windrose\FileControl\Win-224002-Map Chalute Community 13-20 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Map Chalute-Chak klang Community

Monitor period : 13-20 Nov 2024

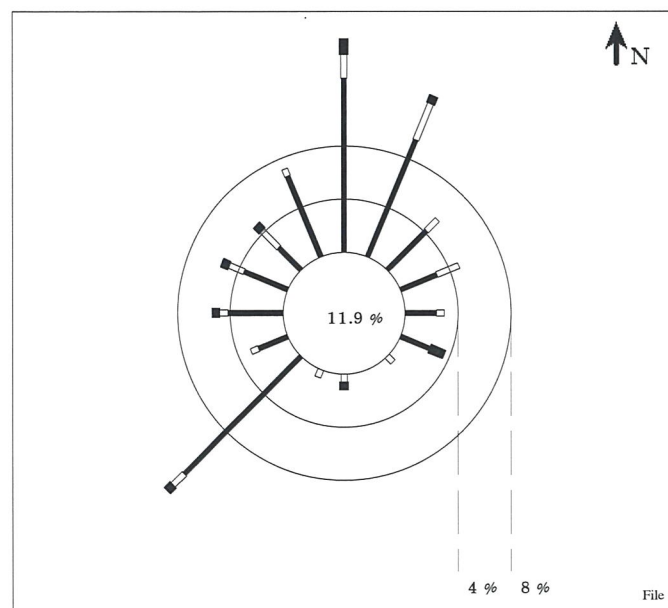
Wind Speed Model : Novalynx NL-32

Serial No : 1203

Wind Direction Model : Novalynx NL-32

Serial No : 1203

| Direction | Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed |         |         |         |         |             | Total  |
|-----------|-----------------------------------------------------------------------|---------|---------|---------|---------|-------------|--------|
|           | 0.5-1 m/s                                                             | 1-2 m/s | 2-3 m/s | 3-4 m/s | 4-6 m/s | More than 6 |        |
| N         | 0.1310                                                                | 0.0179  | 0.0119  | 0.0000  | 0.0000  | 0.0000      | 0.1607 |
| NNE       | 0.0952                                                                | 0.0298  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.1310 |
| NE        | 0.0417                                                                | 0.0119  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0536 |
| ENE       | 0.0298                                                                | 0.0179  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0476 |
| E         | 0.0238                                                                | 0.0060  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0298 |
| ESE       | 0.0238                                                                | 0.0000  | 0.0119  | 0.0000  | 0.0000  | 0.0000      | 0.0357 |
| SE        | 0.0000                                                                | 0.0060  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0060 |
| SSE       | 0.0000                                                                | 0.0000  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0000 |
| S         | 0.0000                                                                | 0.0060  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0119 |
| SSW       | 0.0000                                                                | 0.0060  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0060 |
| SW        | 0.1250                                                                | 0.0119  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.1429 |
| WSW       | 0.0238                                                                | 0.0060  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0298 |
| W         | 0.0417                                                                | 0.0060  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0536 |
| WNW       | 0.0357                                                                | 0.0119  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0536 |
| NW        | 0.0238                                                                | 0.0179  | 0.0060  | 0.0000  | 0.0000  | 0.0000      | 0.0476 |
| NNW       | 0.0655                                                                | 0.0060  | 0.0000  | 0.0000  | 0.0000  | 0.0000      | 0.0714 |
| CALM      | 0.1190                                                                |         |         |         |         |             |        |



Application : WindPro Ver.1.0

Control : 16 Direction Calculation With

Calm Wind &lt; 0.5 m/s

Data Unit : Direction in Deg.

Wind Speed in m/s

0.5-1 1-2 2-3 3-4 4-6 &gt; 6

WIND SPEED (m/s)

NOTE : Frequencies indicate direction from which the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-224002-Map Chalute-Chak klang Community 13-20 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Map Chalute-Chak klang Community

Monitor period : 13-20 Nov 2024

Wind Speed Model : Novalynx NL-32

Serial No : 1203

Wind Direction Model : Novalynx NL-32

Serial No : 1203

| Time          | 13-14 Nov 2024 |     | 14-15 Nov 2024 |     | 15-16 Nov 2024 |     | 16-17 Nov 2024 |     |
|---------------|----------------|-----|----------------|-----|----------------|-----|----------------|-----|
|               | WS(m/s)        | WD  | WS(m/s)        | WD  | WS(m/s)        | WD  | WS(m/s)        | WD  |
| 16:00 - 17:00 | 1.4            | WNW | 0.8            | WNW | 0.1            | SW  | 0.6            | SW  |
| 17:00 - 18:00 | 0.7            | W   | 0.1            | NW  | 0.1            | WSW | 0.2            | WSW |
| 18:00 - 19:00 | 0.5            | W   | 0.3            | NNW | 0.0            | WSW | 0.7            | SW  |
| 19:00 - 20:00 | 0.5            | N   | 1.0            | ENE | 0.5            | WSW | 0.5            | SW  |
| 20:00 - 21:00 | 0.5            | N   | 0.6            | N   | 0.0            | NNE | 0.6            | SW  |
| 21:00 - 22:00 | 0.7            | N   | 0.7            | ENE | 0.7            | NNE | 0.7            | SW  |
| 22:00 - 23:00 | 0.5            | N   | 0.5            | NNE | 0.6            | NNE | 0.6            | SW  |
| 23:00 - 24:00 | 0.7            | N   | 1.0            | NNW | 0.6            | NNE | 0.5            | SW  |
| 00:00 - 01:00 | 0.7            | N   | 0.5            | NNW | 0.7            | NNE | 0.7            | SW  |
| 01:00 - 02:00 | 1.7            | NE  | 0.7            | NNW | 0.6            | NNE | 0.7            | SW  |
| 02:00 - 03:00 | 2.4            | ESE | 0.6            | NNW | 0.5            | NNE | 0.6            | SW  |
| 03:00 - 04:00 | 0.5            | ESE | 0.0            | N   | 0.7            | NNE | 0.7            | SW  |
| 04:00 - 05:00 | 0.7            | E   | 0.5            | N   | 0.7            | NNE | 0.5            | SW  |
| 05:00 - 06:00 | 0.6            | E   | 0.5            | N   | 0.6            | NNE | 1.5            | N   |
| 06:00 - 07:00 | 0.5            | ESE | 0.7            | N   | 0.5            | NNE | 0.6            | NNW |
| 07:00 - 08:00 | 0.5            | ESE | 0.0            | N   | 0.7            | NE  | 0.6            | N   |
| 08:00 - 09:00 | 0.5            | ESE | 0.1            | NNW | 0.5            | NE  | 0.6            | N   |
| 09:00 - 10:00 | 2.3            | N   | 0.8            | SW  | 0.7            | NE  | 0.7            | N   |
| 10:00 - 11:00 | 1.3            | NE  | 0.7            | SW  | 0.0            | E   | 0.5            | NNW |
| 11:00 - 12:00 | 0.6            | ENE | 0.9            | SW  | 0.0            | SW  | 2.0            | SW  |
| 12:00 - 13:00 | 0.2            | SSW | 1.0            | SW  | 0.3            | SSW | 0.4            | SW  |
| 13:00 - 14:00 | 1.2            | SW  | 1.0            | SW  | 0.5            | SW  | 0.7            | WSW |
| 14:00 - 15:00 | 1.5            | SSW | 0.6            | SW  | 0.8            | SW  | 0.0            | WNW |
| 15:00 - 16:00 | 0.7            | SW  | 0.4            | SW  | 0.8            | WSW | 0.0            | WNW |
| Wind Rose     |                |     |                |     |                |     |                |     |



WIND SPEED (m/s) - Scale 1:3

File Control :R:\Database\Windrose\FileControl\Win-224002-Map Chalute-Chak klang Community 13-20 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team





## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Map Chalute-Chak klang Community

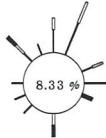
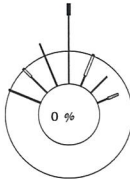
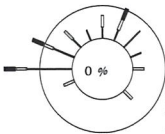
Monitor period : 13-20 Nov 2024

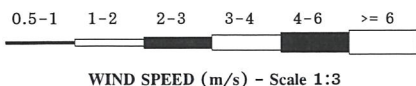
Wind Speed Model : Novalynx NL-32

Serial No : 1203

Wind Direction Model : Novalynx NL-32

Serial No : 1203

| Time          | 17-18 Nov 2024                                                                      |     | 18-19 Nov 2024                                                                      |     | 19-20 Nov 2024                                                                       |     |  |
|---------------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------|-----|--|
|               | WS(m/s)                                                                             | WD  | WS(m/s)                                                                             | WD  | WS(m/s)                                                                              | WD  |  |
| 16:00 - 17:00 | 0.6                                                                                 | NNE | 0.9                                                                                 | WNW | 1.3                                                                                  | WSW |  |
| 17:00 - 18:00 | 0.4                                                                                 | N   | 0.6                                                                                 | NNW | 1.7                                                                                  | SE  |  |
| 18:00 - 19:00 | 0.2                                                                                 | N   | 0.5                                                                                 | NW  | 2.0                                                                                  | W   |  |
| 19:00 - 20:00 | 0.7                                                                                 | E   | 0.5                                                                                 | NNW | 0.6                                                                                  | W   |  |
| 20:00 - 21:00 | 0.5                                                                                 | E   | 1.9                                                                                 | NNE | 0.5                                                                                  | W   |  |
| 21:00 - 22:00 | 0.7                                                                                 | ENE | 0.5                                                                                 | NNE | 1.4                                                                                  | E   |  |
| 22:00 - 23:00 | 1.7                                                                                 | N   | 0.6                                                                                 | NE  | 0.6                                                                                  | NE  |  |
| 23:00 - 24:00 | 0.7                                                                                 | N   | 0.7                                                                                 | ENE | 1.6                                                                                  | NW  |  |
| 00:00 - 01:00 | 2.3                                                                                 | ESE | 2.1                                                                                 | N   | 1.0                                                                                  | NNE |  |
| 01:00 - 02:00 | 1.1                                                                                 | S   | 1.0                                                                                 | NNE | 0.5                                                                                  | NE  |  |
| 02:00 - 03:00 | 1.3                                                                                 | NNE | 1.0                                                                                 | NW  | 2.2                                                                                  | WNW |  |
| 03:00 - 04:00 | 0.5                                                                                 | NNE | 0.5                                                                                 | N   | 1.1                                                                                  | N   |  |
| 04:00 - 05:00 | 0.6                                                                                 | NNE | 0.5                                                                                 | N   | 1.9                                                                                  | WNW |  |
| 05:00 - 06:00 | 0.6                                                                                 | N   | 0.6                                                                                 | NNW | 0.7                                                                                  | WNW |  |
| 06:00 - 07:00 | 1.8                                                                                 | NW  | 0.7                                                                                 | NW  | 0.5                                                                                  | W   |  |
| 07:00 - 08:00 | 1.3                                                                                 | NNE | 0.6                                                                                 | WNW | 0.5                                                                                  | W   |  |
| 08:00 - 09:00 | 2.5                                                                                 | NW  | 0.6                                                                                 | NNW | 0.6                                                                                  | N   |  |
| 09:00 - 10:00 | 0.7                                                                                 | NW  | 0.7                                                                                 | WNW | 0.7                                                                                  | WNW |  |
| 10:00 - 11:00 | 0.6                                                                                 | W   | 0.7                                                                                 | N   | 0.6                                                                                  | NNW |  |
| 11:00 - 12:00 | 0.7                                                                                 | NNW | 0.5                                                                                 | N   | 0.6                                                                                  | NW  |  |
| 12:00 - 13:00 | 1.2                                                                                 | ENE | 0.6                                                                                 | N   | 2.4                                                                                  | NNE |  |
| 13:00 - 14:00 | 2.5                                                                                 | S   | 0.7                                                                                 | N   | 0.6                                                                                  | NNE |  |
| 14:00 - 15:00 | 0.7                                                                                 | WSW | 1.0                                                                                 | ENE | 0.6                                                                                  | ENE |  |
| 15:00 - 16:00 | 0.5                                                                                 | SW  | 0.7                                                                                 | NE  | 1.8                                                                                  | W   |  |
| Wind Rose     |  |     |  |     |  |     |  |



File Control :R:\Database\Windrose\FileControl\Win-224002-Map Chalute-Chak klang Community 13-20 Nov 2024

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

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ใบรับรองผลการตรวจวัดคุณภาพอากาศจากปล่องระบายอากาศ  
(ระยะดำเนินการ)



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 : PTT Global Chemical Public Co., Ltd  
Branch 18 (BPA Plant)  
SAMPLING BY : SECOT Co., Ltd.  
RECEIVED DATE : 15/11/2024  
REPORT DATE : 23/11/2024  
STACK LOCATION : Charcoal Absorber D-1905  
SOURCE DESCRIPTION : Process  
STACK DESCRIPTION

REFERENCE NO. : 224002sign(stk)-Nov/Phenol  
SAMPLING DATE : 14/11/2024  
ANALYTICAL DATE : 22/11/2024  
SAMPLE CONDITION : Normal  
OPERATOR : Mr. Rommadon Lemmad  
FUEL TYPE : -

Height : 8.0 m Gas Velocity : 6.4 m/s  
Diameter : 0.16 m Flow Rate\* : 7.3 Ncu.m/min  
Temperature : 30.0 °C Excess Oxygen : 2.3 %

| PARAMETER | UNIT | RESULT     | STANDARD | REFERENCE METHOD  |
|-----------|------|------------|----------|-------------------|
| Phenol    | ppm  | ND (<0.05) | -        | US. EPA Method 18 |

*Sudaporn S.*

(Miss Sudaporn Soonthorn)

Analyst

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

4. - means standard is not specified yet.

5. ND means Non-detectable.



บริษัท ซีคอต จำกัด

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

### STACK EMISSION ANALYSIS REPORT

|                    |                                       |                  |                               |
|--------------------|---------------------------------------|------------------|-------------------------------|
| CLIENT NAME        | : PTT Global Chemical Public Co., Ltd | REFERENCE NO.    | : 224002sign(stk)-Nov/Acetone |
|                    | Branch 18 (BPA Plant)                 | SAMPLING DATE    | : 14/11/2024                  |
| SAMPLING BY        | : SECOT Co., Ltd.                     | ANALYTICAL DATE  | : 20/11/2024                  |
| RECEIVED DATE      | : 15/11/2024                          | SAMPLE CONDITION | : Normal                      |
| REPORT DATE        | : 23/11/2024                          | OPERATOR         | : Mr. Rommadon Lemmad         |
| STACK LOCATION     | : Charcoal Absorber D-1905            | FUEL TYPE        | : -                           |
| SOURCE DESCRIPTION | : Process                             |                  |                               |
| STACK DESCRIPTION  |                                       |                  |                               |

|             |        |    |               |       |           |
|-------------|--------|----|---------------|-------|-----------|
| Height      | : 8.0  | m  | Gas Velocity  | : 6.4 | m/s       |
| Diameter    | : 0.16 | m  | Flow Rate*    | : 7.3 | Ncu.m/min |
| Temperature | : 30.0 | °C | Excess Oxygen | : 2.3 | %         |

| PARAMETER | UNIT | RESULT     | STANDARD | REFERENCE METHOD  |
|-----------|------|------------|----------|-------------------|
| Acetone   | ppm  | ND (<0.05) | -        | US. EPA Method 18 |

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

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. \* At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
  4. - means standard is not specified yet.
  5. ND means Non-detectable.



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### STACK EMISSION ANALYSIS REPORT

|                    |                                       |                  |                             |
|--------------------|---------------------------------------|------------------|-----------------------------|
| CLIENT NAME        | : PTT Global Chemical Public Co., Ltd | REFERENCE NO.    | : 224002sign(stk)-Nov/TVOCs |
|                    | Branch 18 (BPA Plant)                 | SAMPLING DATE    | : 14/11/2024                |
| SAMPLING BY        | : SECOT Co., Ltd.                     | ANALYTICAL DATE  | : 20/11/2024                |
| RECEIVED DATE      | : 15/11/2024                          | SAMPLE CONDITION | : Normal                    |
| REPORT DATE        | : 23/11/2024                          | OPERATOR         | : Mr. Rommadon Lemmad       |
| STACK LOCATION     | : Charcoal Absorber D-9201            | FUEL TYPE        | : -                         |
| SOURCE DESCRIPTION | : Process                             |                  |                             |
| STACK DESCRIPTION  |                                       |                  |                             |

|             |        |    |               |        |           |
|-------------|--------|----|---------------|--------|-----------|
| Height      | : 8.0  | m  | Gas Velocity  | : 0.6  | m/s       |
| Diameter    | : 0.20 | m  | Flow Rate*    | : 1.0  | Ncu.m/min |
| Temperature | : 33.5 | °C | Excess Oxygen | : 20.9 | %         |

| PARAMETER | UNIT | RESULT | STANDARD | REFERENCE METHOD   |
|-----------|------|--------|----------|--------------------|
| TVOCs     | ppm  | 3.73   | -        | US. EPA Method 25A |

Sudaporn S.

(Miss Sudaporn Soonthorn)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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

4. - means standard is not specified yet.





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### STACK EMISSION ANALYSIS REPORT

|                    |                                       |                  |                             |
|--------------------|---------------------------------------|------------------|-----------------------------|
| CLIENT NAME        | : PTT Global Chemical Public Co., Ltd | REFERENCE NO.    | : 224002sign(stk)-Nov/TVOCs |
|                    | Branch 18 (BPA Plant)                 | SAMPLING DATE    | : 14/11/2024                |
| SAMPLING BY        | : SECOT Co., Ltd.                     | ANALYTICAL DATE  | : 20/11/2024                |
| RECEIVED DATE      | : 15/11/2024                          | SAMPLE CONDITION | : Normal                    |
| REPORT DATE        | : 23/11/2024                          | OPERATOR         | : Mr. Rommadon Lemmad       |
| STACK LOCATION     | : Charcoal Absorber D-9202            | FUEL TYPE        | : -                         |
| SOURCE DESCRIPTION | : Process                             |                  |                             |
| STACK DESCRIPTION  |                                       |                  |                             |

|             |        |    |               |        |           |
|-------------|--------|----|---------------|--------|-----------|
| Height      | : 8.0  | m  | Gas Velocity  | : 0.6  | m/s       |
| Diameter    | : 0.20 | m  | Flow Rate*    | : 1.0  | Ncu.m/min |
| Temperature | : 33.0 | °C | Excess Oxygen | : 20.9 | %         |

| PARAMETER | UNIT | RESULT | STANDARD | REFERENCE METHOD   |
|-----------|------|--------|----------|--------------------|
| TVOCs     | ppm  | 2.88   | -        | US. EPA Method 25A |

Sudaporn S.

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### STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd REFERENCE NO. : 224002sign(stk)-Nov/TVOCs  
Branch 18 (BPA Plant) SAMPLING DATE : 14/11/2024  
SAMPLING BY : SECOT Co., Ltd. ANALYTICAL DATE : 20/11/2024  
RECEIVED DATE : 15/11/2024 SAMPLE CONDITION : Normal  
REPORT DATE : 23/11/2024 OPERATOR : Mr. Rommadon Lemmad  
STACK LOCATION : Charcoal Absorber D-1906 FUEL TYPE : -  
SOURCE DESCRIPTION : Process  
STACK DESCRIPTION

Height : 6.7 m Gas Velocity : 0.00197 m/s  
Diameter : 0.17 m Flow Rate\* : 0.0024 Ncu.m/min  
Temperature : 37.0 °C Excess Oxygen : 3.3 %

| PARAMETER | UNIT | RESULT | STANDARD | REFERENCE METHOD   |
|-----------|------|--------|----------|--------------------|
| TVOCs     | ppm  | 3.53   | -        | US. EPA Method 25A |

Sudaporn S.

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(ระยะดำเนินการ)



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WATER AND WASTEWATER ANALYSIS REPORT

|                      |                                                                                                                                                                                     |                     |                            |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd.                                                                                                                                              | REQUEST SERVICE No. | : 1366/67                  |
|                      | Branch 18 (BPA Plant)                                                                                                                                                               | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                                                                                                                   | SAMPLING TIME       | : 09:30-09:35              |
| SAMPLING DATE        | : 04/07/2024                                                                                                                                                                        | ANALYTICAL DATE     | : 08-09/07/2024            |
| RECEIVED DATE        | : 05/07/2024                                                                                                                                                                        | SITE OPERATOR       | : Mr.Chanapon Oakkharaplon |
| REPORT DATE          | : 11/07/2024                                                                                                                                                                        | FILE CODE           | : 224002_WW_July           |
| SAMPLE CONDITION     | : Normal                                                                                                                                                                            |                     |                            |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904<br>2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903 |                     |                            |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION |       | STANDARD |
|-----------|------|---------------------|------------------------|---------|-------|----------|
|           |      |                     |                        | 1       | 2     |          |
| Acetone   | mg/l | 5030 C / 8260 D     | < 0.00062              | 703     | -     | -        |
| Phenols   | mg/l | 5530 B,D            | < 0.10                 | -       | 4,893 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



( 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          | : PTT Global Chemical Public Co., Ltd.                                                     | REQUEST SERVICE No. | : 1475/67             |
|                      | Branch 18 (BPA Plant)                                                                      | SAMPLING METHOD     | : Grab                |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                          | SAMPLING TIME       | : 13:48-13:50         |
| SAMPLING DATE        | : 18/07/2024                                                                               | ANALYTICAL DATE     | : 19/07/2024          |
| RECEIVED DATE        | : 19/07/2024                                                                               | SITE OPERATOR       | : Mr. Aniwat Pimwanna |
| REPORT DATE          | : 25/07/2024                                                                               | FILE CODE           | : 224002_WW_July      |
| SAMPLE CONDITION     | : Normal                                                                                   |                     |                       |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904 |                     |                       |
|                      | : 2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903    |                     |                       |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION |       | STANDARD |
|-----------|------|---------------------|------------------------|---------|-------|----------|
|           |      |                     |                        | 1       | 2     |          |
| Acetone   | mg/l | 5030 C / 8260 D     | < 0.00062              | 900     | -     | -        |
| Phenols   | mg/l | 5530 B,D            | < 0.10                 | -       | 3,818 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ก-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

|                      |                                                                                                                                                                                     |                     |                            |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd.                                                                                                                                              | REQUEST SERVICE No. | : 1526/67                  |
|                      | Branch 18 (BPA Plant)                                                                                                                                                               | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                                                                                                                   | SAMPLING TIME       | : 09:50-10:00              |
| SAMPLING DATE        | : 01/08/2024                                                                                                                                                                        | ANALYTICAL DATE     | : 02, 07/08/2024           |
| RECEIVED DATE        | : 02/08/2024                                                                                                                                                                        | SITE OPERATOR       | : Mr.Chanapon Oakkharaplon |
| REPORT DATE          | : 09/08/2024                                                                                                                                                                        | FILE CODE           | : 224002_WW_August         |
| SAMPLE CONDITION     | : Normal                                                                                                                                                                            |                     |                            |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904<br>2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903 |                     |                            |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION |       | STANDARD |
|-----------|------|---------------------|------------------------|---------|-------|----------|
|           |      |                     |                        | 1       | 2     |          |
| Acetone   | mg/l | 5030 C / 8260 D     | < 0.00062              | 975     | -     | -        |
| Phenols   | mg/l | 5530 B, D           | < 0.10                 | -       | 2,796 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



( 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          | : PTT Global Chemical Public Co., Ltd.                                                                                                                                              | REQUEST SERVICE No. | : 1667/67              |
|                      | Branch 18 (BPA Plant)                                                                                                                                                               | SAMPLING METHOD     | : Grab                 |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                                                                                                                   | SAMPLING TIME       | : 10:50-10:54          |
| SAMPLING DATE        | : 15/08/2024                                                                                                                                                                        | ANALYTICAL DATE     | : 16, 19/08/2024       |
| RECEIVED DATE        | : 16/08/2024                                                                                                                                                                        | SITE OPERATOR       | : Mr.Tanachot Changlor |
| REPORT DATE          | : 21/08/2024                                                                                                                                                                        | FILE CODE           | : 224002_WW_August     |
| SAMPLE CONDITION     | : Normal                                                                                                                                                                            |                     |                        |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904<br>2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903 |                     |                        |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION |       | STANDARD |
|-----------|------|---------------------|------------------------|---------|-------|----------|
|           |      |                     |                        | 1       | 2     |          |
| Acetone   | mg/l | 5030 C / 8260 D     | < 0.00062              | 952     | -     | -        |
| Phenols   | mg/l | 5530 B, D           | < 0.10                 | -       | 3,438 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ก-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

|                      |                                                                                                                                                                                     |                     |                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd.                                                                                                                                              | REQUEST SERVICE No. | : 1851/67                 |
|                      | Branch 18 (BPA Plant)                                                                                                                                                               | SAMPLING METHOD     | : Grab                    |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                                                                                                                   | SAMPLING TIME       | : 09:21-09:32             |
| SAMPLING DATE        | : 05/09/2024                                                                                                                                                                        | ANALYTICAL DATE     | : 09, 11/09/2024          |
| RECEIVED DATE        | : 06/09/2024                                                                                                                                                                        | SITE OPERATOR       | : Miss Wiraya Patchimboon |
| REPORT DATE          | : 16/09/2024                                                                                                                                                                        | FILE CODE           | : 224002_WW_September     |
| SAMPLE CONDITION     | : Normal                                                                                                                                                                            |                     |                           |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904<br>2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903 |                     |                           |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION |       | STANDARD |
|-----------|------|---------------------|------------------------|---------|-------|----------|
|           |      |                     |                        | 1       | 2     |          |
| Acetone   | mg/l | 5030 C / 8260 D     | < 0.00062              | 1,641   | -     | -        |
| Phenols   | mg/l | 5530 B, D           | < 0.10                 | -       | 4,683 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ท-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ท-0004

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WATER AND WASTEWATER ANALYSIS REPORT

|                      |                                                                                                                                                                                     |                     |                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd.                                                                                                                                              | REQUEST SERVICE No. | : 1940/67             |
|                      | Branch 18 (BPA Plant)                                                                                                                                                               | SAMPLING METHOD     | : Grab                |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                                                                                                                   | SAMPLING TIME       | : 10:15-10:20         |
| SAMPLING DATE        | : 19/09/2024                                                                                                                                                                        | ANALYTICAL DATE     | : 20/09/2024          |
| RECEIVED DATE        | : 20/09/2024                                                                                                                                                                        | SITE OPERATOR       | : Mr. Aniwat Pimwanna |
| REPORT DATE          | : 24/09/2024                                                                                                                                                                        | FILE CODE           | : 224002_WW_September |
| SAMPLE CONDITION     | : Normal                                                                                                                                                                            |                     |                       |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904<br>2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903 |                     |                       |

| PARAMETER | UNIT | ANALYSIS        | ND               | STATION |       | STANDARD |
|-----------|------|-----------------|------------------|---------|-------|----------|
|           |      | METHODS         | (non-detectable) | 1       | 2     |          |
| Acetone   | mg/l | 5030 C / 8260 D | < 0.00062        | 769     | -     | -        |
| Phenols   | mg/l | 5530 B, D       | < 0.10           | -       | 5,318 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ก-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

|                      |                                                                                                                                                                                     |                     |                            |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd.                                                                                                                                              | REQUEST SERVICE No. | : 2024/67                  |
|                      | Branch 18 (BPA Plant)                                                                                                                                                               | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                                                                                                                   | SAMPLING TIME       | : 08:49-08:58              |
| SAMPLING DATE        | : 03/10/2024                                                                                                                                                                        | ANALYTICAL DATE     | : 04/10/2024               |
| RECEIVED DATE        | : 04/10/2024                                                                                                                                                                        | SITE OPERATOR       | : Mr.Natthachai Chaiyakhot |
| REPORT DATE          | : 11/10/2024                                                                                                                                                                        | FILE CODE           | : 224002_WW_October        |
| SAMPLE CONDITION     | : Normal                                                                                                                                                                            |                     |                            |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904<br>2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903 |                     |                            |

| PARAMETER | UNIT | ANALYSIS        | ND<br>(non-detectable) | STATION |       | STANDARD |
|-----------|------|-----------------|------------------------|---------|-------|----------|
|           |      | METHODS         |                        | 1       | 2     |          |
| Acetone   | mg/l | 5030 C / 8260 D | < 0.00062              | 2,158   | -     | -        |
| Phenols   | mg/l | 5530 B, D       | < 0.10                 | -       | 1,832 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

( 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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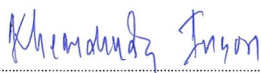
WATER AND WASTEWATER ANALYSIS REPORT

|                      |                                                                                                                                                                                     |                     |                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd.                                                                                                                                              | REQUEST SERVICE No. | : 2123/67                 |
|                      | Branch 18 (BPA Plant)                                                                                                                                                               | SAMPLING METHOD     | : Grab                    |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                                                                                                                   | SAMPLING TIME       | : 07:52-07:56             |
| SAMPLING DATE        | : 17/10/2024                                                                                                                                                                        | ANALYTICAL DATE     | : 19/10/2024              |
| RECEIVED DATE        | : 18/10/2024                                                                                                                                                                        | SITE OPERATOR       | : Miss Wiraya Patchimboon |
| REPORT DATE          | : 22/10/2024                                                                                                                                                                        | FILE CODE           | : 224002_WW_October       |
| SAMPLE CONDITION     | : Normal                                                                                                                                                                            |                     |                           |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904<br>2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903 |                     |                           |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION |       | STANDARD |
|-----------|------|---------------------|------------------------|---------|-------|----------|
|           |      |                     |                        | 1       | 2     |          |
| Acetone   | mg/l | 5030 C / 8260 D     | < 0.00062              | 2,470   | -     | -        |
| Phenols   | mg/l | 5530 B, D           | < 0.10                 | -       | 3,710 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



( 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          | : PTT Global Chemical Public Co., Ltd.                                                                                                                                              | REQUEST SERVICE No. | : 2418/67                 |
|                      | Branch 18 (BPA Plant)                                                                                                                                                               | SAMPLING METHOD     | : Grab                    |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                                                                                                                   | SAMPLING TIME       | : 10:28, 10:32            |
| SAMPLING DATE        | : 21/11/2024                                                                                                                                                                        | ANALYTICAL DATE     | : 23/11/2024              |
| RECEIVED DATE        | : 22/11/2024                                                                                                                                                                        | SITE OPERATOR       | : Miss Wiraya Patchimboon |
| REPORT DATE          | : 28/11/2024                                                                                                                                                                        | FILE CODE           | : 224002_WW_November      |
| SAMPLE CONDITION     | : Normal                                                                                                                                                                            |                     |                           |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904<br>2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903 |                     |                           |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION |       | STANDARD |
|-----------|------|---------------------|------------------------|---------|-------|----------|
|           |      |                     |                        | 1       | 2     |          |
| Acetone*  | mg/l | 5030 C / 8260 D     | < 0.00062              | 1,590   | -     | -        |
| Phenols   | mg/l | 5530 B, D           | < 0.10                 | -       | 4,691 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

( 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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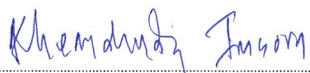
### WATER AND WASTEWATER ANALYSIS REPORT

|                      |                                                                                                                                                                                     |                     |                        |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd.                                                                                                                                              | REQUEST SERVICE No. | : 2471/67              |
|                      | Branch 18 (BPA Plant)                                                                                                                                                               | SAMPLING METHOD     | : Grab                 |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                                                                                                                   | SAMPLING TIME       | : 14:36, 14:39         |
| SAMPLING DATE        | : 28/11/2024                                                                                                                                                                        | ANALYTICAL DATE     | : 02-03/12/2024        |
| RECEIVED DATE        | : 29/11/2024                                                                                                                                                                        | SITE OPERATOR       | : Mr. Baworn Deechaiya |
| REPORT DATE          | : 04/12/2024                                                                                                                                                                        | FILE CODE           | : 224002_WW_November   |
| SAMPLE CONDITION     | : Normal                                                                                                                                                                            |                     |                        |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904<br>2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903 |                     |                        |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION |       | STANDARD |
|-----------|------|---------------------|------------------------|---------|-------|----------|
|           |      |                     |                        | 1       | 2     |          |
| Acetone*  | mg/l | 5030 C / 8260 D     | < 0.00062              | 1,192   | -     | -        |
| Phenols   | mg/l | 5530 B, D           | < 0.10                 | -       | 4,739 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



( 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          | : PTT Global Chemical Public Co., Ltd.                                                                                                                                              | REQUEST SERVICE No. | : 2535/67                  |
|                      | Branch 18 (BPA Plant)                                                                                                                                                               | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                                                                                                                   | SAMPLING TIME       | : 09:05, 09:10             |
| SAMPLING DATE        | : 04/12/2024                                                                                                                                                                        | ANALYTICAL DATE     | : 05-09/12/2024            |
| RECEIVED DATE        | : 05/12/2024                                                                                                                                                                        | SITE OPERATOR       | : Mr.Chanapon Oakkharaplon |
| REPORT DATE          | : 12/12/2024                                                                                                                                                                        | FILE CODE           | : 224002_WW_December       |
| SAMPLE CONDITION     | : Normal                                                                                                                                                                            |                     |                            |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904<br>2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903 |                     |                            |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION |       | STANDARD |
|-----------|------|---------------------|------------------------|---------|-------|----------|
|           |      |                     |                        | 1       | 2     |          |
| Acetone*  | mg/l | 5030 C / 8260 D     | < 0.00062              | 1,027   | -     | -        |
| Phenols   | mg/l | 5530 B, D           | < 0.10                 | -       | 4,635 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

( 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          | : PTT Global Chemical Public Co., Ltd.                                                                                                                                              | REQUEST SERVICE No. | : 2655/67                  |
|                      | Branch 18 (BPA Plant)                                                                                                                                                               | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY          | : SECOT Co., Ltd.                                                                                                                                                                   | SAMPLING TIME       | : 08:36, 08:32             |
| SAMPLING DATE        | : 19/12/2024                                                                                                                                                                        | ANALYTICAL DATE     | : 20-21/12/2024            |
| RECEIVED DATE        | : 20/12/2024                                                                                                                                                                        | SITE OPERATOR       | : Mr.Natthachai Chaiyakhot |
| REPORT DATE          | : 25/12/2024                                                                                                                                                                        | FILE CODE           | : 224002_WW_December       |
| SAMPLE CONDITION     | : Normal                                                                                                                                                                            |                     |                            |
| LOCATION DESCRIPTION | : 1 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยอะซิโตนด้วยน้ำในระบบ Acetone Scrubber Stack D-1904<br>2 = น้ำที่หมุนเวียนในระบบดักจับไอระเหยฟีนอลด้วยน้ำในระบบ Phenol Scrubber Stack D-1903 |                     |                            |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION |       | STANDARD |
|-----------|------|---------------------|------------------------|---------|-------|----------|
|           |      |                     |                        | 1       | 2     |          |
| Acetone*  | mg/l | 5030 C / 8260 D     | < 0.00062              | 1,142   | -     | -        |
| Phenols   | mg/l | 5530 B, D           | < 0.10                 | -       | 4,559 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



( 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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ใบรับรองผลการวิเคราะห์คุณภาพน้ำทิ้ง  
จาก Equalization Tank  
(ระยะดำเนินการ)





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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 1365/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 09:50                    |
| SAMPLING DATE    | : 04/07/2024                           | ANALYTICAL DATE     | : 05-12/07/2024            |
| RECEIVED DATE    | : 05/07/2024                           | SITE OPERATOR       | : Mr.Chanapon Oakkharaplon |
| REPORT DATE      | : 12/07/2024                           | FILE CODE           | : 224002_WW_July           |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS   | ND<br>(non-detectable) | STATION               | STANDARD |
|------------------------|------|-----------------------|------------------------|-----------------------|----------|
|                        |      |                       |                        | บ่อ Equalization Tank |          |
| Temperature            | °C   | 2550 B                | < 0.5                  | 34.0                  | -        |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 8.41                  | -        |
| Total Dissolved Solids | mg/l | 2540 C                | < 50                   | 458                   | -        |
| Total Suspended Solids | mg/l | 2540 D                | < 5                    | 91                    | -        |
| Fat Oil & Grease       | mg/l | 5520 B                | < 0.50                 | 1.2                   | -        |
| Phenols                | mg/l | 5530 B,D              | < 0.10                 | 88.8                  | -        |
| BOD <sub>5</sub>       | mg/l | 5210 B                | < 1.0                  | 822                   | -        |
| COD                    | mg/l | 5220 D                | < 40.00                | 1,469                 | -        |
| Ethylbenzene           | mg/l | 5030 C / 8260 D       | < 0.0002               | 36.90                 | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

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Analyst

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( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 1525/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 10:15                    |
| SAMPLING DATE    | : 01/08/2024                           | ANALYTICAL DATE     | : 02-08/08/2024            |
| RECEIVED DATE    | : 02/08/2024                           | SITE OPERATOR       | : Mr.Chanapon Oakkharaplon |
| REPORT DATE      | : 09/08/2024                           | FILE CODE           | : 224002_WW_August         |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS   | ND<br>(non-detectable) | STATION                           | STANDARD |
|------------------------|------|-----------------------|------------------------|-----------------------------------|----------|
|                        |      |                       |                        | บ่อบำบัดน้ำเสีย Equalization Tank |          |
| Temperature            | °C   | 2550 B                | < 0.5                  | 33.6                              | -        |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 8.80                              | -        |
| Total Dissolved Solids | mg/l | 2540 C                | < 50                   | 308                               | -        |
| Total Suspended Solids | mg/l | 2540 D                | < 5                    | 259                               | -        |
| Fat Oil & Grease       | mg/l | 5520 B                | < 0.50                 | ND                                | -        |
| Phenols                | mg/l | 5530 B,D              | < 0.10                 | 97.0                              | -        |
| BOD <sub>5</sub>       | mg/l | 5210 B                | < 1.0                  | 526                               | -        |
| COD                    | mg/l | 5220 D                | < 40.00                | 1,127                             | -        |
| Ethylbenzene           | mg/l | 5030 C / 8260 D       | < 0.0002               | 53.14                             | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

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Analyst

REG. NO. ว-239-ท-0005

(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ว-239-ท-0004

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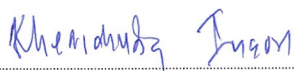
WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                         |
|------------------|----------------------------------------|---------------------|-------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 1969/67               |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                  |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 14:28                 |
| SAMPLING DATE    | : 26/09/2024                           | ANALYTICAL DATE     | : 27/09/2024-02/10/2024 |
| RECEIVED DATE    | : 27/09/2024                           | SITE OPERATOR       | : Miss Salisa Ainree    |
| REPORT DATE      | : 03/10/2024                           | FILE CODE           | : 224002_WW_September   |
| SAMPLE CONDITION | : Normal                               |                     |                         |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS   | ND<br>(non-detectable) | STATION                    | STANDARD |
|------------------------|------|-----------------------|------------------------|----------------------------|----------|
|                        |      |                       |                        | บ่อบำบัด Equalization Tank |          |
| Temperature            | °C   | 2550 B                | < 0.5                  | 33.6                       | -        |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 8.73                       | -        |
| Total Dissolved Solids | mg/l | 2540 C                | < 50                   | 436                        | -        |
| Total Suspended Solids | mg/l | 2540 D                | < 5                    | 99                         | -        |
| Fat Oil & Grease       | mg/l | 5520 B                | < 0.50                 | ND                         | -        |
| Phenols                | mg/l | 5530 B,D              | < 0.10                 | 68.7                       | -        |
| BOD <sub>5</sub>       | mg/l | 5210 B                | < 1.0                  | 521                        | -        |
| COD                    | mg/l | 5220 D                | < 40.00                | 1,036                      | -        |
| Ethylbenzene           | mg/l | 5030 C / 8260 D       | < 0.0002               | 42.40                      | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



(Miss Khemchuda Insorn)

Analyst

REG. NO. ว-239-ก-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 2025/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 09:12                    |
| SAMPLING DATE    | : 03/10/2024                           | ANALYTICAL DATE     | : 04-10/10/2024            |
| RECEIVED DATE    | : 04/10/2024                           | SITE OPERATOR       | : Mr.Natthachai Chaiyakhot |
| REPORT DATE      | : 11/10/2024                           | FILE CODE           | : 224002_WW_October        |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS   | ND<br>(non-detectable) | STATION                  | STANDARD |
|------------------------|------|-----------------------|------------------------|--------------------------|----------|
|                        |      |                       |                        | บ่อกัก Equalization Tank |          |
| Temperature            | °C   | 2550 B                | < 0.5                  | 33.7                     | -        |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 8.76                     | -        |
| Total Dissolved Solids | mg/l | 2540 C                | < 50                   | 436                      | -        |
| Total Suspended Solids | mg/l | 2540 D                | < 5                    | 84                       | -        |
| Fat Oil & Grease       | mg/l | 5520 B                | < 0.50                 | ND                       | -        |
| Phenols                | mg/l | 5530 B,D              | < 0.10                 | 86.2                     | -        |
| BOD <sub>5</sub>       | mg/l | 5210 B                | < 1.0                  | 530                      | -        |
| COD                    | mg/l | 5220 D                | < 40.00                | 938                      | -        |
| Ethylbenzene           | mg/l | 5030 C / 8260 D       | < 0.0002               | 48.34                    | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

(Miss Khemchuda Insorn)

Analyst

REG. NO. ว-239-ก-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 2277/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 09:10                    |
| SAMPLING DATE    | : 07/11/2024                           | ANALYTICAL DATE     | : 08-15/11/2024            |
| RECEIVED DATE    | : 08/11/2024                           | SITE OPERATOR       | : Mr.Chanapon Oakkharaplon |
| REPORT DATE      | : 16/11/2024                           | FILE CODE           | : 224002_WW_November       |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS   | ND<br>(non-detectable) | STATION                    | STANDARD |
|------------------------|------|-----------------------|------------------------|----------------------------|----------|
|                        |      |                       |                        | บ่อบำบัด Equalization Tank |          |
| Temperature            | °C   | 2550 B                | < 0.5                  | 32.0                       | -        |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 8.84                       | -        |
| Total Dissolved Solids | mg/l | 2540 C                | < 50                   | 716                        | -        |
| Total Suspended Solids | mg/l | 2540 D                | < 5                    | 101                        | -        |
| Fat Oil & Grease       | mg/l | 5520 B                | < 0.50                 | ND                         | -        |
| Phenols                | mg/l | 5530 B,D              | < 0.10                 | 61.7                       | -        |
| BOD <sub>5</sub>       | mg/l | 5210 B                | < 1.0                  | 734                        | -        |
| COD                    | mg/l | 5220 D                | < 40.00                | 1,124                      | -        |
| Ethylbenzene*          | mg/l | 5030 C / 8260 D       | < 0.0002               | 8.62                       | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

(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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### WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 2534/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 10:00                    |
| SAMPLING DATE    | : 04/12/2024                           | ANALYTICAL DATE     | : 05-12/12/2024            |
| RECEIVED DATE    | : 05/12/2024                           | SITE OPERATOR       | : Mr.Chanapon Oakkharaplon |
| REPORT DATE      | : 12/12/2024                           | FILE CODE           | : 224002_WW_December       |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS   | ND<br>(non-detectable) | STATION                    | STANDARD |
|------------------------|------|-----------------------|------------------------|----------------------------|----------|
|                        |      |                       |                        | บ่อบำบัด Equalization Tank |          |
| Temperature            | °C   | 2550 B                | < 0.5                  | 33.0                       | -        |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 8.65                       | -        |
| Total Dissolved Solids | mg/l | 2540 C                | < 50                   | 435                        | -        |
| Total Suspended Solids | mg/l | 2540 D                | < 5                    | 111                        | -        |
| Fat Oil & Grease       | mg/l | 5520 B                | < 0.50                 | ND                         | -        |
| Phenols                | mg/l | 5530 B,D              | < 0.10                 | 46.5                       | -        |
| BOD <sub>5</sub>       | mg/l | 5210 B                | < 1.0                  | 461                        | -        |
| COD                    | mg/l | 5220 D                | < 40.00                | 1,280                      | -        |
| Ethylbenzene*          | mg/l | 5030 C / 8260 D       | < 0.0002               | 69.40                      | -        |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

(Miss Khemchuda Insorn)

Analyst

REG. NO. ว-239-ก-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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ใบรับรองผลการวิเคราะห์คุณภาพน้ำทิ้ง  
จากบ่อพักน้ำทิ้งขนาด 1,200 ลูกบาศก์เมตร (Final Polishing Pit)  
(ระยะดำเนินการ)





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### WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 1365/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 09:40                    |
| SAMPLING DATE    | : 04/07/2024                           | ANALYTICAL DATE     | : 05-12/07/2024            |
| RECEIVED DATE    | : 05/07/2024                           | SITE OPERATOR       | : Mr.Chanapon Oakkharaplon |
| REPORT DATE      | : 12/07/2024                           | FILE CODE           | : 224002_WW_July           |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS   | ND<br>(non-detectable) | STATION                                                  | STANDARD <sup>1/</sup> |
|------------------------|------|-----------------------|------------------------|----------------------------------------------------------|------------------------|
|                        |      |                       |                        | บ่อพักน้ำทิ้ง<br>(Final Polishing Tank ขนาด 1,200 ลบ.ม.) |                        |
| Temperature            | °C   | 2550 B                | < 0.5                  | 33.8                                                     | ≤ 45                   |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 7.70                                                     | 5.5-9.0                |
| Color                  | ADMI | 2120 F                | < 6.0                  | 22.6                                                     | ≤ 600 <sup>2/</sup>    |
| Total Dissolved Solids | mg/l | 2540 C                | < 50                   | 684                                                      | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                | < 5                    | 8                                                        | ≤ 200                  |
| Fat Oil & Grease       | mg/l | 5520 B                | < 0.50                 | ND                                                       | ≤ 10                   |
| Phenols                | mg/l | 5530 B,C              | < 0.001                | ND                                                       | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l | 5210 B                | < 1.0                  | < 1.0                                                    | ≤ 500                  |
| COD                    | mg/l | 5220 D                | < 40.00                | < 40.00                                                  | ≤ 750                  |
| Ethylbenzene           | mg/l | 5030 C / 8260 D       | < 0.0002               | ND                                                       | ≤ 5                    |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

(Miss Khemchuda Insorn)

Analyst

REG. NO. ว-239-ท-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ท-0004

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  3. <sup>1/</sup> Environmental Impact Assessment Report of PTT Phenol Company Limited (Bis-Phenol A Plant) B.E.2564 (2021).
  4. <sup>2/</sup> Notification of the Industrial Estate Authority of Thailand No.76, B.E.2560 (2017).
  5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 1525/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 10:10                    |
| SAMPLING DATE    | : 01/08/2024                           | ANALYTICAL DATE     | : 02-08/08/2024            |
| RECEIVED DATE    | : 02/08/2024                           | SITE OPERATOR       | : Mr.Chanapon Oakkharaplon |
| REPORT DATE      | : 09/08/2024                           | FILE CODE           | : 224002_WW_August         |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS   | ND<br>(non-detectable) | STATION                                                  | STANDARD <sup>1/</sup> |
|------------------------|------|-----------------------|------------------------|----------------------------------------------------------|------------------------|
|                        |      |                       |                        | บ่อพักน้ำทิ้ง<br>(Final Polishing Tank ขนาด 1,200 ลบ.ม.) |                        |
| Temperature            | °C   | 2550 B                | < 0.5                  | 33.8                                                     | ≤ 45                   |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 7.83                                                     | 5.5-9.0                |
| Color                  | ADMI | 2120 F                | < 6.0                  | 23.2                                                     | ≤ 600 <sup>2/</sup>    |
| Total Dissolved Solids | mg/l | 2540 C                | < 50                   | 634                                                      | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                | < 5                    | < 5                                                      | ≤ 200                  |
| Fat Oil & Grease       | mg/l | 5520 B                | < 0.50                 | ND                                                       | ≤ 10                   |
| Phenols                | mg/l | 5530 B,C              | < 0.001                | ND                                                       | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l | 5210 B                | < 1.0                  | < 1.0                                                    | ≤ 500                  |
| COD                    | mg/l | 5220 D                | < 40.00                | < 40.00                                                  | ≤ 750                  |
| Ethylbenzene           | mg/l | 5030 C / 8260 D       | < 0.0002               | ND                                                       | ≤ 5                    |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



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Analyst

REG. NO. ว-239-ค-0005



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Technical Management Team

REG. NO. ว-239-ค-0004

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  4. <sup>2/</sup> Notification of the Industrial Estate Authority of Thailand No.76, B.E.2560 (2017).
  5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                         |
|------------------|----------------------------------------|---------------------|-------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 1969/67               |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                  |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 14:18                 |
| SAMPLING DATE    | : 26/09/2024                           | ANALYTICAL DATE     | : 27/09/2024-02/10/2024 |
| RECEIVED DATE    | : 27/09/2024                           | SITE OPERATOR       | : Miss Salisa Ainree    |
| REPORT DATE      | : 03/10/2024                           | FILE CODE           | : 224002_WW_September   |
| SAMPLE CONDITION | : Normal                               |                     |                         |

| PARAMETER              | UNIT | ANALYSIS              | ND               | STATION                                                  | STANDARD <sup>1/</sup> |
|------------------------|------|-----------------------|------------------|----------------------------------------------------------|------------------------|
|                        |      | METHODS               | (non-detectable) | บ่อพักน้ำทิ้ง<br>(Final Polishing Tank ขนาด 1,200 ลบ.ม.) |                        |
| Temperature            | °C   | 2550 B                | < 0.5            | 35.6                                                     | ≤ 45                   |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10           | 7.51                                                     | 5.5-9.0                |
| Color                  | ADMI | 2120 F                | < 6.0            | 25.6                                                     | ≤ 600 <sup>2/</sup>    |
| Total Dissolved Solids | mg/l | 2540 C                | < 50             | 616                                                      | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                | < 5              | 8                                                        | ≤ 200                  |
| Fat Oil & Grease       | mg/l | 5520 B                | < 0.50           | ND                                                       | ≤ 10                   |
| Phenols                | mg/l | 5530 B,C              | < 0.001          | ND                                                       | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l | 5210 B                | < 1.0            | 2.9                                                      | ≤ 500                  |
| COD                    | mg/l | 5220 D                | < 40.00          | 46.60                                                    | ≤ 750                  |
| Ethylbenzene           | mg/l | 5030 C / 8260 D       | < 0.0002         | ND                                                       | ≤ 5                    |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.



(Miss Khemchuda Insorn)

Analyst

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( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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3. <sup>1/</sup> Environmental Impact Assessment Report of PTT Phenol Company Limited (Bis-Phenol A Plant) B.E.2564 (2021).

4. <sup>2/</sup> Notification of the Industrial Estate Authority of Thailand No.76, B.E.2560 (2017).

5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                             |
|------------------|----------------------------------------|---------------------|-----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 2025/67                   |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                      |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 09:05                     |
| SAMPLING DATE    | : 03/10/2024                           | ANALYTICAL DATE     | : 04-10/10/2024             |
| RECEIVED DATE    | : 04/10/2024                           | SITE OPERATOR       | : Mr.Natthachai Chaiyakhrot |
| REPORT DATE      | : 11/10/2024                           | FILE CODE           | : 224002_WW_October         |
| SAMPLE CONDITION | : Normal                               |                     |                             |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS   | ND<br>(non-detectable) | STATION                                                  | STANDARD <sup>1/</sup> |
|------------------------|------|-----------------------|------------------------|----------------------------------------------------------|------------------------|
|                        |      |                       |                        | บ่อพักน้ำทิ้ง<br>(Final Polishing Tank ขนาด 1,200 ลบ.ม.) |                        |
| Temperature            | °C   | 2550 B                | < 0.5                  | 33.5                                                     | ≤ 45                   |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 7.63                                                     | 5.5-9.0                |
| Color                  | ADMI | 2120 F                | < 6.0                  | 35.2                                                     | ≤ 600 <sup>2/</sup>    |
| Total Dissolved Solids | mg/l | 2540 C                | < 50                   | 660                                                      | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                | < 5                    | < 5                                                      | ≤ 200                  |
| Fat Oil & Grease       | mg/l | 5520 B                | < 0.50                 | ND                                                       | ≤ 10                   |
| Phenols                | mg/l | 5530 B,C              | < 0.001                | ND                                                       | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l | 5210 B                | < 1.0                  | 3.6                                                      | ≤ 500                  |
| COD                    | mg/l | 5220 D                | < 40.00                | < 40.00                                                  | ≤ 750                  |
| Ethylbenzene           | mg/l | 5030 C / 8260 D       | < 0.0002               | ND                                                       | ≤ 5                    |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

(Miss Khemchuda Insorn)

Analyst

REG. NO. ว-239-ก-0005

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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

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3. <sup>1/</sup> Environmental Impact Assessment Report of PTT Phenol Company Limited (Bis-Phenol A Plant) B.E.2564 (2021).

4. <sup>2/</sup> Notification of the Industrial Estate Authority of Thailand No.76, B.E.2560 (2017).

5. - Not available.





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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 2277/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 09:15                    |
| SAMPLING DATE    | : 07/11/2024                           | ANALYTICAL DATE     | : 08-15/11/2024            |
| RECEIVED DATE    | : 08/11/2024                           | SITE OPERATOR       | : Mr.Chanapon Oakkharaplon |
| REPORT DATE      | : 16/11/2024                           | FILE CODE           | : 224002_WW_November       |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER              | UNIT           | ANALYSIS<br>METHODS   | ND<br>(non-detectable) | STATION                                                  | STANDARD <sup>1/</sup> |
|------------------------|----------------|-----------------------|------------------------|----------------------------------------------------------|------------------------|
|                        |                |                       |                        | บ่อกักน้ำทิ้ง<br>(Final Polishing Tank ขนาด 1,200 ลบ.ม.) |                        |
| Temperature            | <sup>o</sup> C | 2550 B                | < 0.5                  | 30.5                                                     | ≤ 45                   |
| pH                     | -              | 4500-H <sup>+</sup> B | < 0.10                 | 8.05                                                     | 5.5-9.0                |
| Color                  | ADMI           | 2120 F                | < 6.0                  | 28.6                                                     | ≤ 600 <sup>2/</sup>    |
| Total Dissolved Solids | mg/l           | 2540 C                | < 50                   | 723                                                      | ≤ 3,000                |
| Total Suspended Solids | mg/l           | 2540 D                | < 5                    | < 5                                                      | ≤ 200                  |
| Fat Oil & Grease       | mg/l           | 5520 B                | < 0.50                 | ND                                                       | ≤ 10                   |
| Phenols                | mg/l           | 5530 B,C              | < 0.001                | ND                                                       | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l           | 5210 B                | < 1.0                  | 2.8                                                      | ≤ 500                  |
| COD                    | mg/l           | 5220 D                | < 40.00                | < 40.00                                                  | ≤ 750                  |
| Ethylbenzene*          | mg/l           | 5030 C / 8260 D       | < 0.0002               | ND                                                       | ≤ 5                    |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

(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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3. <sup>1/</sup> Environmental Impact Assessment Report of PTT Phenol Company Limited (Bis-Phenol A Plant) B.E.2564 (2021).

4. <sup>2/</sup> Notification of the Industrial Estate Authority of Thailand No.76, B.E.2560 (2017).

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

6. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 2534/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Grab                     |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 09:45                    |
| SAMPLING DATE    | : 04/12/2024                           | ANALYTICAL DATE     | : 05-12/12/2024            |
| RECEIVED DATE    | : 05/12/2024                           | SITE OPERATOR       | : Mr.Chanapon Oakkharaplon |
| REPORT DATE      | : 12/12/2024                           | FILE CODE           | : 224002_WW_December       |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER              | UNIT | ANALYSIS<br>METHODS   | ND<br>(non-detectable) | STATION                                                  | STANDARD <sup>1/</sup> |
|------------------------|------|-----------------------|------------------------|----------------------------------------------------------|------------------------|
|                        |      |                       |                        | บ่อพักน้ำทิ้ง<br>(Final Polishing Tank ขนาด 1,200 ลบ.ม.) |                        |
| Temperature            | °C   | 2550 B                | < 0.5                  | 33.6                                                     | ≤ 45                   |
| pH                     | -    | 4500-H <sup>+</sup> B | < 0.10                 | 7.90                                                     | 5.5-9.0                |
| Color                  | ADMI | 2120 F                | < 6.0                  | 29.9                                                     | ≤ 600 <sup>2/</sup>    |
| Total Dissolved Solids | mg/l | 2540 C                | < 50                   | 762                                                      | ≤ 3,000                |
| Total Suspended Solids | mg/l | 2540 D                | < 5                    | 7                                                        | ≤ 200                  |
| Fat Oil & Grease       | mg/l | 5520 B                | < 0.50                 | ND                                                       | ≤ 10                   |
| Phenols                | mg/l | 5530 B,C              | < 0.001                | ND                                                       | ≤ 1                    |
| BOD <sub>5</sub>       | mg/l | 5210 B                | < 1.0                  | 6.7                                                      | ≤ 500                  |
| COD                    | mg/l | 5220 D                | < 40.00                | < 40.00                                                  | ≤ 750                  |
| Ethylbenzene*          | mg/l | 5030 C / 8260 D       | < 0.0002               | ND                                                       | ≤ 5                    |

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

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020.

(Miss Khemchuda Insorn)

Analyst

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( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ท-0004

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4. <sup>2/</sup> Notification of the Industrial Estate Authority of Thailand No.76, B.E.2560 (2017).

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

6. - Not available.

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ใบรับรองผลการวิเคราะห์คุณภาพดิน  
(ระยะดำเนินการ)





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SOIL ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 0905/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Hand Auger               |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 15:23-16:00              |
| SAMPLING DATE    | : 09/05/2024                           | ANALYTICAL DATE     | : 16-18/05/2024            |
| RECEIVED DATE    | : 10/05/2024                           | SITE OPERATOR       | : Mr.Nuthdanai Kritsanalom |
| REPORT DATE      | : 23/05/2024                           | FILE CODE           | : 224002_Soil_May          |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER | UNIT  | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION | STANDARD <sup>1/</sup> |
|-----------|-------|---------------------|------------------------|---------|------------------------|
|           |       |                     |                        | UW 10   |                        |
| Acetone   | mg/kg | 5035 A / 8260 D     | < 0.001                | ND      | ≤ 1,000                |
| Phenol    | mg/kg | 3550 C / 8270 E     | < 0.025                | ND      | ≤ 1,000                |

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020

Jutarat Jaemruen

(Miss Jutarat Jaemruen)

Analyst

REG. NO. ๖-239-๓-0022

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(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ๖-239-๓-0004

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3. <sup>1/</sup> Notification of the Ministry of Industry, B.E.2559 (2016).



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SOIL ANALYSIS REPORT

|                  |                                        |                       |                            |
|------------------|----------------------------------------|-----------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. : | 0991/67                    |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD       | : Hand Auger               |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME         | : 10:05-10:30              |
| SAMPLING DATE    | : 18/05/2024                           | ANALYTICAL DATE       | : 19-21/05/2024            |
| RECEIVED DATE    | : 20/05/2024                           | SITE OPERATOR         | : Mr.Nuthdanai Kritsanalom |
| REPORT DATE      | : 27/05/2024                           | FILE CODE             | : 224002_Soil_May          |
| SAMPLE CONDITION | : Normal                               |                       |                            |

| PARAMETER | UNIT  | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION | STANDARD <sup>1/</sup> |
|-----------|-------|---------------------|------------------------|---------|------------------------|
|           |       |                     |                        | UW 11   |                        |
| Acetone   | mg/kg | 5035 A / 8260 D     | < 0.001                | ND      | ≤ 1,000                |
| Phenol    | mg/kg | 3550 C / 8270 E     | < 0.025                | ND      | ≤ 1,000                |

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020

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( Miss Jutarat Jaemruen )

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SOIL ANALYSIS REPORT

|                  |                                        |                       |                            |
|------------------|----------------------------------------|-----------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. : | 0905/67                    |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD       | : Hand Auger               |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME         | : 14:12-14:45              |
| SAMPLING DATE    | : 09/05/2024                           | ANALYTICAL DATE       | : 16-18/05/2024            |
| RECEIVED DATE    | : 10/05/2024                           | SITE OPERATOR         | : Mr.Nuthdanai Kritsanalom |
| REPORT DATE      | : 23/05/2024                           | FILE CODE             | : 224002_Soil_May          |
| SAMPLE CONDITION | : Normal                               |                       |                            |

| PARAMETER | UNIT  | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION | STANDARD <sup>1/</sup> |
|-----------|-------|---------------------|------------------------|---------|------------------------|
|           |       |                     |                        | UW 8    |                        |
| Acetone   | mg/kg | 5035 A / 8260 D     | < 0.001                | ND      | ≤ 1,000                |
| Phenol    | mg/kg | 3550 C / 8270 E     | < 0.025                | ND      | ≤ 1,000                |

REFERENCE : US EPA SW 846 TEST METHODS FOR EVALUATING WATER AND SOLID WASTE, 3<sup>rd</sup> ED., 2020

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( Miss Jutarat Jaemruen )

Analyst

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4. - Not available.

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(ระยะดำเนินการ)



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GROUND WATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 1942/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Pneumatic Bladder Pump   |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 11:02-11:19              |
| SAMPLING DATE    | : 19/09/2024                           | ANALYTICAL DATE     | : 21-27/09/2024            |
| RECEIVED DATE    | : 20/09/2024                           | SITE OPERATOR       | : Mr.Natthachai Chaiyakhot |
| REPORT DATE      | : 30/09/2024                           | FILE CODE           | : 224002_GW_September      |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION | STANDARD <sup>1/</sup> |
|-----------|------|---------------------|------------------------|---------|------------------------|
|           |      |                     |                        | UW 10   |                        |
| Acetone   | mg/l | 6200 B              | < 0.001                | ND      | ≤ 230                  |
| Phenol    | mg/l | 6410 B              | < 0.00025              | ND      | ≤ 72                   |

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

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Analyst

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GROUND WATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 1942/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Pneumatic Bladder Pump   |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 14:17-14:28              |
| SAMPLING DATE    | : 19/09/2024                           | ANALYTICAL DATE     | : 21-27/09/2024            |
| RECEIVED DATE    | : 20/09/2024                           | SITE OPERATOR       | : Mr.Natthachai Chaiyakhot |
| REPORT DATE      | : 30/09/2024                           | FILE CODE           | : 224002_GW_September      |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION | STANDARD <sup>1/</sup> |
|-----------|------|---------------------|------------------------|---------|------------------------|
|           |      |                     |                        | UW 11   |                        |
| Acetone   | mg/l | 6200 B              | < 0.001                | ND      | ≤ 230                  |
| Phenol    | mg/l | 6410 B              | < 0.00025              | ND      | ≤ 72                   |

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

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GROUND WATER ANALYSIS REPORT

|                  |                                        |                     |                            |
|------------------|----------------------------------------|---------------------|----------------------------|
| CLIENT NAME      | : PTT Global Chemical Public Co., Ltd. | REQUEST SERVICE No. | : 1942/67                  |
|                  | Branch 18 (BPA Plant)                  | SAMPLING METHOD     | : Pneumatic Bladder Pump   |
| SAMPLING BY      | : SECOT Co., Ltd.                      | SAMPLING TIME       | : 15:41-15:51              |
| SAMPLING DATE    | : 18/09/2024                           | ANALYTICAL DATE     | : 21-27/09/2024            |
| RECEIVED DATE    | : 20/09/2024                           | SITE OPERATOR       | : Mr.Natthachai Chaiyakhot |
| REPORT DATE      | : 30/09/2024                           | FILE CODE           | : 224002_GW_September      |
| SAMPLE CONDITION | : Normal                               |                     |                            |

| PARAMETER | UNIT | ANALYSIS<br>METHODS | ND<br>(non-detectable) | STATION | STANDARD <sup>1/</sup> |
|-----------|------|---------------------|------------------------|---------|------------------------|
|           |      |                     |                        | UW 8    |                        |
| Acetone   | mg/l | 6200 B              | < 0.001                | ND      | ≤ 230                  |
| Phenol    | mg/l | 6410 B              | < 0.00025              | ND      | ≤ 72                   |

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

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(ระยะดำเนินการ)



## Noise Monitoring Result : Community Noise

### MTR-PTTGC Branch 18 (BPA Plant)

Location : South Fence of Project Site (N1)

Monitor Period : 10-17 Sep 2024

SLM Model : Cirrus CR162B

Serial No : G302741

Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515

Serial No : 94296

Calibration Ref dB(A) : 94.0

Certified Date : 14 Feb 2024

SLM Reading / Adjust dB(A) : 95.2/-1.5

Expire Date : 13 Feb 2025

Cal Sheet No.: CR-515-2024-261

| Time          | Equivalent Sound Pressure Level (dB(A)) |                |                |                |                |                |                |
|---------------|-----------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
|               | 10-11 Sep 2024                          | 11-12 Sep 2024 | 12-13 Sep 2024 | 13-14 Sep 2024 | 14-15 Sep 2024 | 15-16 Sep 2024 | 16-17 Sep 2024 |
| 14:00 - 15:00 | 59.9                                    | 61.3           | 59.6           | 59.8           | 54.6           | 56.0           | 57.3           |
| 15:00 - 16:00 | 57.7                                    | 66.7           | 60.9           | 57.8           | 57.0           | 54.5           | 55.5           |
| 16:00 - 17:00 | 58.3                                    | 68.1           | 61.9           | 55.8           | 55.5           | 55.5           | 56.1           |
| 17:00 - 18:00 | 58.7                                    | 58.9           | 58.6           | 56.0           | 56.6           | 54.5           | 56.4           |
| 18:00 - 19:00 | 58.8                                    | 60.4           | 59.0           | 56.9           | 57.8           | 55.8           | 57.1           |
| 19:00 - 20:00 | 58.0                                    | 57.4           | 57.0           | 56.2           | 55.8           | 59.3           | 56.2           |
| 20:00 - 21:00 | 57.0                                    | 58.8           | 57.3           | 56.9           | 56.7           | 57.9           | 55.5           |
| 21:00 - 22:00 | 57.5                                    | 57.2           | 56.2           | 56.1           | 55.3           | 56.9           | 56.7           |
| 22:00 - 23:00 | 57.3                                    | 57.1           | 56.3           | 55.1           | 55.1           | 56.5           | 55.7           |
| 23:00 - 00:00 | 56.9                                    | 56.4           | 56.0           | 55.5           | 55.7           | 56.4           | 55.9           |
| 00:00 - 01:00 | 57.1                                    | 56.5           | 56.2           | 58.2           | 55.3           | 56.7           | 55.2           |
| 01:00 - 02:00 | 59.0                                    | 57.9           | 56.3           | 58.7           | 55.2           | 56.2           | 56.4           |
| 02:00 - 03:00 | 58.1                                    | 56.3           | 56.5           | 56.9           | 59.2           | 56.4           | 54.9           |
| 03:00 - 04:00 | 57.4                                    | 56.3           | 58.3           | 58.1           | 56.2           | 57.5           | 56.1           |
| 04:00 - 05:00 | 57.4                                    | 56.6           | 56.4           | 57.6           | 55.6           | 56.1           | 57.0           |
| 05:00 - 06:00 | 57.9                                    | 57.1           | 57.2           | 57.0           | 55.3           | 56.6           | 56.5           |
| 06:00 - 07:00 | 60.0                                    | 59.9           | 59.5           | 59.1           | 57.0           | 58.9           | 58.5           |
| 07:00 - 08:00 | 61.4                                    | 59.7           | 59.6           | 59.6           | 56.7           | 58.8           | 60.4           |
| 08:00 - 09:00 | 58.0                                    | 57.1           | 58.1           | 58.4           | 54.4           | 56.9           | 57.1           |
| 09:00 - 10:00 | 57.3                                    | 55.7           | 56.0           | 57.0           | 54.4           | 55.5           | 56.9           |
| 10:00 - 11:00 | 60.5                                    | 57.2           | 59.6           | 56.6           | 54.4           | 55.1           | 55.4           |
| 11:00 - 12:00 | 58.4                                    | 58.3           | 57.9           | 56.4           | 54.4           | 55.9           | 56.0           |
| 12:00 - 13:00 | 59.8                                    | 56.9           | 55.9           | 55.4           | 55.3           | 56.0           | 56.3           |
| 13:00 - 14:00 | 60.7                                    | 60.9           | 56.2           | 55.7           | 54.0           | 56.8           | 55.3           |
| Leq(24)*      | 58.7                                    | 60.3           | 58.1           | 57.3           | 55.9           | 56.7           | 56.6           |
| Ldn           | 64.6                                    | 64.6           | 63.8           | 63.9           | 62.6           | 63.3           | 62.8           |
| Lmax **       | 91.7                                    | 94.2           | 95.4           | 85.1           | 79.3           | 81.2           | 92.5           |
| Standard-24Hr | 70 dB(A)                                |                |                |                |                |                |                |
| Standard-Max  | 115 dB(A)                               |                |                |                |                |                |                |

Remark : \* Average time between 14:00-14:00

\*\* Maximum Sound Pressure Level between 14:00-14:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

Preeda S.  
(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-PTTGC Branch 18 (BPA Plant)

Location : South Fence of Project Site (N1)

Monitor Period : 10-17 Sep 2024

SLM Model : Cirrus CR162B

Serial No : G302741

Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515

Serial No : 94296

Calibration Ref dB(A) : 94.0

Certified Date : 14 Feb 2024


SLM Reading / Adjust dB(A) : 95.2/-1.5


Expire Date : 13 Feb 2025

Cal Sheet No.: CR-515-2024-261

| Time          | L90 (dB(A))    |                |                |                |                |                |                |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|               | 10-11 Sep 2024 | 11-12 Sep 2024 | 12-13 Sep 2024 | 13-14 Sep 2024 | 14-15 Sep 2024 | 15-16 Sep 2024 | 16-17 Sep 2024 |
| 14:00 - 15:00 | 52.4           | 53.7           | 52.4           | 51.6           | 50.7           | 50.2           | 54.9           |
| 15:00 - 16:00 | 52.7           | 53.9           | 53.2           | 50.8           | 51.3           | 50.0           | 51.1           |
| 16:00 - 17:00 | 52.9           | 54.7           | 54.1           | 51.2           | 51.4           | 50.6           | 50.8           |
| 17:00 - 18:00 | 53.9           | 54.5           | 53.8           | 51.6           | 52.2           | 50.7           | 51.7           |
| 18:00 - 19:00 | 53.4           | 54.0           | 53.3           | 52.2           | 53.0           | 51.7           | 51.2           |
| 19:00 - 20:00 | 52.5           | 53.4           | 52.4           | 51.5           | 52.1           | 52.8           | 51.3           |
| 20:00 - 21:00 | 52.5           | 53.3           | 52.4           | 52.0           | 51.9           | 54.6           | 51.7           |
| 21:00 - 22:00 | 53.2           | 52.9           | 52.3           | 51.6           | 51.8           | 54.2           | 53.3           |
| 22:00 - 23:00 | 53.1           | 53.1           | 52.8           | 51.5           | 51.8           | 53.9           | 51.9           |
| 23:00 - 00:00 | 53.0           | 53.2           | 52.6           | 51.9           | 52.1           | 53.5           | 52.4           |
| 00:00 - 01:00 | 53.3           | 53.3           | 52.5           | 53.4           | 51.9           | 54.0           | 51.7           |
| 01:00 - 02:00 | 53.6           | 53.4           | 52.5           | 54.9           | 51.9           | 53.0           | 51.9           |
| 02:00 - 03:00 | 53.6           | 53.0           | 52.6           | 54.2           | 52.4           | 52.9           | 51.6           |
| 03:00 - 04:00 | 53.6           | 53.2           | 52.8           | 53.7           | 52.3           | 53.3           | 52.0           |
| 04:00 - 05:00 | 53.6           | 53.3           | 52.4           | 53.8           | 52.1           | 53.1           | 52.5           |
| 05:00 - 06:00 | 53.6           | 53.5           | 53.1           | 53.8           | 51.8           | 52.6           | 52.9           |
| 06:00 - 07:00 | 55.0           | 55.0           | 54.5           | 54.8           | 52.1           | 54.5           | 53.9           |
| 07:00 - 08:00 | 55.4           | 54.7           | 53.7           | 54.5           | 51.3           | 53.5           | 54.1           |
| 08:00 - 09:00 | 53.4           | 51.7           | 51.9           | 52.9           | 49.7           | 51.5           | 52.2           |
| 09:00 - 10:00 | 52.3           | 50.8           | 51.1           | 52.2           | 50.7           | 51.3           | 51.8           |
| 10:00 - 11:00 | 52.8           | 50.9           | 50.3           | 51.5           | 50.7           | 50.7           | 51.5           |
| 11:00 - 12:00 | 52.9           | 52.6           | 51.2           | 51.6           | 50.6           | 50.9           | 51.8           |
| 12:00 - 13:00 | 52.4           | 52.4           | 51.4           | 50.9           | 50.4           | 50.6           | 51.8           |
| 13:00 - 14:00 | 53.4           | 52.7           | 51.6           | 51.1           | 50.1           | 53.2           | 49.8           |
| L90(avg)*     | 53.3           | 53.3           | 52.6           | 52.7           | 51.6           | 52.6           | 52.2           |

Remark : \* Average time between 14:00-14:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Preeda Somjai)  
 Technical Management Team



## Noise Monitoring Result : Community Noise

### MTR-PTTGC Branch 18 (BPA Plant)

Location : East Fence of Project Site (N2)

Monitor Period : 10-17 Sep 2024

SLM Model : Cirrus CR162B

Serial No : G302740

Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515

Serial No : 94296

Calibration Ref dB(A) : 94.0

Certified Date : 14 Feb 2024

SLM Reading / Adjust dB(A) : 92.8/0.9

Expire Date : 13 Feb 2025

Cal Sheet No.: CR-515-2024-261

| Time          | Equivalent Sound Pressure Level (dB(A)) |                |                |                |                |                |                |
|---------------|-----------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
|               | 10-11 Sep 2024                          | 11-12 Sep 2024 | 12-13 Sep 2024 | 13-14 Sep 2024 | 14-15 Sep 2024 | 15-16 Sep 2024 | 16-17 Sep 2024 |
| 14:00 - 15:00 | 60.7                                    | 60.0           | 58.5           | 62.0           | 59.7           | 59.9           | 59.3           |
| 15:00 - 16:00 | 58.7                                    | 59.5           | 61.4           | 59.6           | 59.0           | 60.5           | 58.8           |
| 16:00 - 17:00 | 57.2                                    | 58.2           | 60.1           | 58.6           | 60.2           | 56.4           | 59.6           |
| 17:00 - 18:00 | 57.4                                    | 56.6           | 58.6           | 60.5           | 57.3           | 56.5           | 59.6           |
| 18:00 - 19:00 | 62.1                                    | 57.7           | 57.8           | 58.9           | 57.6           | 57.7           | 59.2           |
| 19:00 - 20:00 | 57.7                                    | 57.5           | 59.4           | 59.0           | 57.6           | 63.3           | 59.4           |
| 20:00 - 21:00 | 57.3                                    | 57.4           | 56.8           | 57.7           | 58.2           | 63.0           | 57.2           |
| 21:00 - 22:00 | 57.3                                    | 56.8           | 57.1           | 57.2           | 59.6           | 66.4           | 58.0           |
| 22:00 - 23:00 | 58.2                                    | 57.5           | 58.1           | 57.1           | 60.8           | 65.7           | 58.5           |
| 23:00 - 00:00 | 58.0                                    | 57.2           | 58.2           | 57.1           | 60.6           | 64.1           | 58.6           |
| 00:00 - 01:00 | 57.4                                    | 56.8           | 57.5           | 60.9           | 62.2           | 62.9           | 58.3           |
| 01:00 - 02:00 | 57.3                                    | 57.2           | 57.4           | 66.0           | 61.2           | 60.9           | 57.9           |
| 02:00 - 03:00 | 57.0                                    | 57.1           | 56.7           | 66.6           | 60.6           | 60.9           | 57.9           |
| 03:00 - 04:00 | 57.1                                    | 57.4           | 57.0           | 63.0           | 62.9           | 64.3           | 58.0           |
| 04:00 - 05:00 | 57.9                                    | 57.8           | 58.7           | 60.0           | 66.2           | 68.5           | 58.7           |
| 05:00 - 06:00 | 58.2                                    | 59.0           | 58.9           | 63.1           | 63.9           | 66.6           | 60.1           |
| 06:00 - 07:00 | 59.7                                    | 59.6           | 57.2           | 62.4           | 58.6           | 58.5           | 59.2           |
| 07:00 - 08:00 | 57.0                                    | 56.6           | 59.1           | 58.9           | 58.0           | 58.0           | 58.4           |
| 08:00 - 09:00 | 57.4                                    | 56.8           | 60.7           | 59.7           | 59.5           | 61.5           | 58.4           |
| 09:00 - 10:00 | 57.3                                    | 58.5           | 60.6           | 60.0           | 60.2           | 59.2           | 65.0           |
| 10:00 - 11:00 | 59.3                                    | 61.5           | 60.9           | 60.5           | 60.1           | 60.1           | 61.2           |
| 11:00 - 12:00 | 58.3                                    | 59.9           | 64.1           | 58.9           | 58.3           | 58.7           | 61.3           |
| 12:00 - 13:00 | 57.4                                    | 56.6           | 56.3           | 56.5           | 57.0           | 56.9           | 57.4           |
| 13:00 - 14:00 | 57.8                                    | 56.7           | 60.2           | 59.5           | 58.7           | 59.0           | 60.4           |
| Leq(24)*      | 58.3                                    | 58.1           | 59.2           | 61.0           | 60.6           | 62.6           | 59.6           |
| Ldn           | 64.4                                    | 64.3           | 64.6           | 69.0           | 68.5           | 70.6           | 65.3           |
| Lmax **       | 91.2                                    | 81.1           | 88.8           | 83.8           | 81.9           | 81.9           | 85.8           |
| Standard-24Hr | 70 dB(A)                                |                |                |                |                |                |                |
| Standard-Max  | 115 dB(A)                               |                |                |                |                |                |                |

Remark : \* Average time between 14:00-14:00

\*\* Maximum Sound Pressure Level between 14:00-14:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team





## Noise Monitoring Result : Background Noise

### MTR-PTTGC Branch 18 (BPA Plant)

Location : East Fence of Project Site (N2)

Monitor Period : 10-17 Sep 2024

SLM Model : Cirrus CR162B

Serial No : G302740

Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515

Serial No : 94296

Calibration Ref dB(A) : 94.0

Certified Date : 14 Feb 2024

SLM Reading / Adjust dB(A) : 92.8/0.9

Expire Date : 13 Feb 2025

Cal Sheet No.: CR-515-2024-261

| Time          | L90 (dB(A))    |                |                |                |                |                |                |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|               | 10-11 Sep 2024 | 11-12 Sep 2024 | 12-13 Sep 2024 | 13-14 Sep 2024 | 14-15 Sep 2024 | 15-16 Sep 2024 | 16-17 Sep 2024 |
| 14:00 - 15:00 | 58.2           | 58.9           | 57.1           | 58.1           | 57.4           | 56.9           | 57.3           |
| 15:00 - 16:00 | 57.5           | 59.0           | 57.5           | 58.1           | 57.1           | 56.1           | 56.5           |
| 16:00 - 17:00 | 55.9           | 56.0           | 57.0           | 56.5           | 57.1           | 55.8           | 56.6           |
| 17:00 - 18:00 | 56.5           | 55.9           | 56.8           | 56.2           | 55.8           | 55.8           | 57.0           |
| 18:00 - 19:00 | 57.2           | 56.1           | 56.5           | 56.0           | 55.6           | 56.3           | 56.2           |
| 19:00 - 20:00 | 56.6           | 56.5           | 56.7           | 56.7           | 56.2           | 56.9           | 56.4           |
| 20:00 - 21:00 | 56.4           | 56.1           | 55.7           | 56.7           | 56.9           | 60.0           | 56.5           |
| 21:00 - 22:00 | 56.4           | 55.9           | 55.9           | 56.4           | 58.4           | 65.4           | 57.3           |
| 22:00 - 23:00 | 57.2           | 56.2           | 57.3           | 56.2           | 58.9           | 64.4           | 57.5           |
| 23:00 - 00:00 | 57.0           | 56.3           | 57.4           | 56.1           | 58.3           | 61.2           | 57.6           |
| 00:00 - 01:00 | 56.5           | 56.0           | 56.8           | 57.2           | 58.8           | 58.6           | 57.2           |
| 01:00 - 02:00 | 56.5           | 56.4           | 56.5           | 64.3           | 57.8           | 57.7           | 56.8           |
| 02:00 - 03:00 | 56.3           | 56.3           | 56.0           | 65.3           | 57.6           | 57.3           | 57.0           |
| 03:00 - 04:00 | 56.1           | 56.6           | 56.2           | 60.4           | 58.7           | 57.7           | 56.7           |
| 04:00 - 05:00 | 56.6           | 56.7           | 56.6           | 58.5           | 62.6           | 59.8           | 56.5           |
| 05:00 - 06:00 | 56.5           | 57.0           | 56.4           | 59.9           | 58.8           | 58.3           | 58.5           |
| 06:00 - 07:00 | 56.6           | 57.1           | 55.6           | 58.3           | 56.0           | 57.2           | 56.7           |
| 07:00 - 08:00 | 56.1           | 55.5           | 55.4           | 57.5           | 55.9           | 56.5           | 56.2           |
| 08:00 - 09:00 | 56.6           | 55.5           | 57.3           | 57.2           | 56.2           | 56.9           | 56.5           |
| 09:00 - 10:00 | 56.5           | 55.8           | 57.0           | 58.3           | 56.3           | 56.3           | 57.5           |
| 10:00 - 11:00 | 58.3           | 57.9           | 56.9           | 58.4           | 57.1           | 57.8           | 58.8           |
| 11:00 - 12:00 | 57.1           | 56.2           | 55.9           | 56.2           | 55.9           | 56.2           | 57.0           |
| 12:00 - 13:00 | 56.2           | 55.9           | 55.5           | 56.0           | 55.6           | 56.1           | 56.7           |
| 13:00 - 14:00 | 56.3           | 55.5           | 56.5           | 56.1           | 55.9           | 56.0           | 56.7           |
| L90(avg)*     | 56.8           | 56.6           | 56.6           | 58.9           | 57.6           | 59.0           | 57.0           |

Remark : \* Average time between 14:00-14:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Community Noise

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Nong Faeb Community (N3)

Monitor Period : 10-17 Sep 2024

SLM Model : Cirrus CR161B

Serial No : G302630

Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515

Serial No : 94296

Calibration Ref dB(A) : 94.0

Certified Date : 14 Feb 2024

SLM Reading / Adjust dB(A) : 92.4/1.3

Expire Date : 13 Feb 2025

Cal Sheet No.: CR-515-2024-261

| Time          | Equivalent Sound Pressure Level (dB(A)) |                |                |                |                |                |                |
|---------------|-----------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
|               | 10-11 Sep 2024                          | 11-12 Sep 2024 | 12-13 Sep 2024 | 13-14 Sep 2024 | 14-15 Sep 2024 | 15-16 Sep 2024 | 16-17 Sep 2024 |
| 14:00 - 15:00 | 58.0                                    | 56.5           | 54.1           | 55.5           | 53.5           | 53.6           | 54.1           |
| 15:00 - 16:00 | 56.0                                    | 55.6           | 56.9           | 55.9           | 55.9           | 53.6           | 54.5           |
| 16:00 - 17:00 | 56.6                                    | 57.6           | 58.5           | 57.2           | 54.7           | 55.0           | 57.0           |
| 17:00 - 18:00 | 57.5                                    | 59.4           | 58.6           | 58.1           | 58.6           | 56.0           | 69.4           |
| 18:00 - 19:00 | 55.9                                    | 56.3           | 55.9           | 55.4           | 55.7           | 53.2           | 68.0           |
| 19:00 - 20:00 | 54.5                                    | 57.3           | 55.0           | 54.1           | 55.1           | 65.8           | 55.5           |
| 20:00 - 21:00 | 53.5                                    | 53.8           | 51.8           | 56.4           | 54.0           | 58.1           | 53.3           |
| 21:00 - 22:00 | 52.8                                    | 52.8           | 51.1           | 52.0           | 56.4           | 56.4           | 53.0           |
| 22:00 - 23:00 | 53.2                                    | 50.5           | 53.1           | 50.6           | 50.8           | 51.8           | 49.1           |
| 23:00 - 00:00 | 52.1                                    | 50.5           | 48.3           | 52.1           | 52.9           | 49.6           | 51.9           |
| 00:00 - 01:00 | 49.5                                    | 50.9           | 48.0           | 64.1           | 49.6           | 47.0           | 48.4           |
| 01:00 - 02:00 | 48.0                                    | 48.7           | 47.7           | 62.3           | 49.9           | 49.3           | 48.8           |
| 02:00 - 03:00 | 49.1                                    | 50.7           | 46.7           | 52.6           | 50.0           | 50.2           | 50.0           |
| 03:00 - 04:00 | 50.4                                    | 52.3           | 49.0           | 52.1           | 50.9           | 50.8           | 51.5           |
| 04:00 - 05:00 | 51.1                                    | 52.2           | 51.6           | 53.5           | 51.7           | 50.7           | 51.1           |
| 05:00 - 06:00 | 50.8                                    | 52.5           | 51.3           | 53.9           | 50.5           | 51.2           | 63.2           |
| 06:00 - 07:00 | 57.0                                    | 57.3           | 57.6           | 58.0           | 55.6           | 57.4           | 71.4           |
| 07:00 - 08:00 | 58.6                                    | 58.8           | 58.9           | 58.5           | 57.8           | 59.6           | 70.9           |
| 08:00 - 09:00 | 56.4                                    | 56.6           | 58.8           | 57.5           | 54.7           | 56.6           | 58.6           |
| 09:00 - 10:00 | 55.2                                    | 53.4           | 54.7           | 57.3           | 58.1           | 54.4           | 55.8           |
| 10:00 - 11:00 | 56.2                                    | 54.2           | 54.7           | 56.1           | 56.7           | 54.4           | 55.7           |
| 11:00 - 12:00 | 56.0                                    | 54.9           | 56.3           | 55.7           | 53.7           | 56.6           | 54.9           |
| 12:00 - 13:00 | 56.8                                    | 55.7           | 57.5           | 58.2           | 55.2           | 56.5           | 59.7           |
| 13:00 - 14:00 | 54.4                                    | 54.8           | 56.8           | 57.9           | 53.9           | 56.3           | 54.3           |
| Leq(24)*      | 55.0                                    | 55.2           | 55.3           | 57.3           | 54.8           | 56.6           | 63.1           |
| Ldn           | 59.4                                    | 59.7           | 59.3           | 64.5           | 59.1           | 59.9           | 69.2           |
| Lmax **       | 80.4                                    | 87.6           | 85.1           | 87.2           | 90.0           | 84.3           | 85.7           |
| Standard-24Hr | 70 dB(A)                                |                |                |                |                |                |                |
| Standard-Max  | 115 dB(A)                               |                |                |                |                |                |                |

Remark : \* Average time between 14:00-14:00

\*\* Maximum Sound Pressure Level between 14:00-14:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-PTTGC Branch 18 (BPA Plant)

Location : Nong Faeb Community (N3)

Monitor Period : 10-17 Sep 2024

SLM Model : Cirrus CR161B

Serial No : G302630

Site Operator : Mr. Siwanon Kulawong

Calibrator Model : Cirrus CR:515

Serial No : 94296

Calibration Ref dB(A) : 94.0

Certified Date : 14 Feb 2024

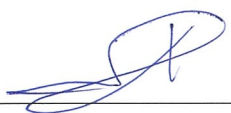
SLM Reading / Adjust dB(A) : 92.4/1.3


Expire Date : 13 Feb 2025

Cal Sheet No.: CR-515-2024-261

| Time          | L90 (dB(A))    |                |                |                |                |                |                |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|               | 10-11 Sep 2024 | 11-12 Sep 2024 | 12-13 Sep 2024 | 13-14 Sep 2024 | 14-15 Sep 2024 | 15-16 Sep 2024 | 16-17 Sep 2024 |
| 14:00 - 15:00 | 48.8           | 50.2           | 49.0           | 48.8           | 47.6           | 46.7           | 48.1           |
| 15:00 - 16:00 | 48.7           | 49.0           | 50.6           | 50.5           | 48.8           | 47.2           | 48.5           |
| 16:00 - 17:00 | 50.7           | 50.8           | 52.1           | 50.6           | 49.7           | 49.3           | 50.6           |
| 17:00 - 18:00 | 50.3           | 49.6           | 50.9           | 49.4           | 49.0           | 47.7           | 60.5           |
| 18:00 - 19:00 | 49.5           | 49.3           | 48.7           | 48.7           | 48.7           | 48.3           | 48.1           |
| 19:00 - 20:00 | 47.5           | 49.5           | 46.8           | 47.0           | 48.8           | 49.9           | 46.9           |
| 20:00 - 21:00 | 48.1           | 47.6           | 45.1           | 47.3           | 48.2           | 54.1           | 46.2           |
| 21:00 - 22:00 | 48.6           | 49.9           | 45.9           | 47.3           | 46.3           | 51.2           | 48.1           |
| 22:00 - 23:00 | 49.0           | 47.2           | 45.9           | 47.5           | 45.6           | 47.5           | 46.1           |
| 23:00 - 00:00 | 48.1           | 47.3           | 45.9           | 46.3           | 46.9           | 46.2           | 46.2           |
| 00:00 - 01:00 | 46.7           | 47.6           | 45.7           | 47.3           | 47.8           | 45.9           | 46.2           |
| 01:00 - 02:00 | 46.8           | 47.2           | 45.5           | 50.1           | 48.1           | 46.5           | 46.9           |
| 02:00 - 03:00 | 46.4           | 48.0           | 45.3           | 49.7           | 48.5           | 45.4           | 46.3           |
| 03:00 - 04:00 | 46.1           | 49.5           | 45.1           | 49.7           | 47.8           | 45.0           | 46.4           |
| 04:00 - 05:00 | 46.1           | 48.4           | 45.2           | 50.3           | 47.4           | 45.1           | 44.9           |
| 05:00 - 06:00 | 45.5           | 49.5           | 45.4           | 51.0           | 47.1           | 45.8           | 45.4           |
| 06:00 - 07:00 | 50.3           | 51.6           | 50.6           | 53.1           | 49.7           | 50.3           | 64.2           |
| 07:00 - 08:00 | 53.1           | 53.6           | 53.6           | 52.0           | 49.0           | 53.5           | 61.7           |
| 08:00 - 09:00 | 50.1           | 50.6           | 51.5           | 50.2           | 49.0           | 49.4           | 50.7           |
| 09:00 - 10:00 | 48.8           | 47.9           | 49.5           | 50.7           | 50.4           | 47.1           | 48.9           |
| 10:00 - 11:00 | 50.5           | 48.6           | 48.7           | 50.5           | 48.8           | 47.5           | 50.4           |
| 11:00 - 12:00 | 50.4           | 48.9           | 49.6           | 49.4           | 48.1           | 48.8           | 49.1           |
| 12:00 - 13:00 | 50.6           | 49.5           | 49.2           | 49.1           | 48.1           | 49.2           | 50.5           |
| 13:00 - 14:00 | 49.8           | 49.1           | 49.3           | 51.6           | 48.1           | 49.8           | 49.2           |
| L90(avg)*     | 49.2           | 49.5           | 48.9           | 49.8           | 48.4           | 49.0           | 54.4           |

Remark : \* Average time between 14:00-14:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Preeda Somjai)  
 Technical Management Team



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ใบรับรองผลการตรวจวัด  
คุณภาพอากาศภายในสถานประกอบการ  
แบบติดตั้งกับพื้นที่ (Area Sampling)  
(ระยะดำเนินการ)



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. | : 1684/67            |
| For      | : PTT Global Chemical Public Co., Ltd. Branch 18 (BPA Plant)   | Sampling Date       | : 16/08/2024         |
| Address  | : 9 Soi G9 WHA Eastern Industrial Estate (Map Ta Phut)         | Received Date       | : 17/08/2024         |
|          | Prakornsongkrohraj Rd., Huaypong, Muang, Rayong Thailand 21150 | Test Date           | : 17, 19, 20/08/2024 |
| Tel/Fax  | : 66(0) 3864-3901 / 66(0) 3864-3827                            | Report Date         | : 26/08/2024         |

SAMPLE DESCRIPTION / SAMPLING INFORMATION

|                      |                   |                  |                                    |
|----------------------|-------------------|------------------|------------------------------------|
| Sample Designated As | : Workplace Air   | Sampling Method  | : Sorbent Adsorption/ 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      |
| บริเวณถังเก็บก๊าซสารฟีนอล       | 16/08/2024            | Phenol       | NIOSH 2546/GC FID                            | < 0.01 | ND     | 5        |
|                                 | 07:24-09:24           |              |                                              |        |        |          |
| บริเวณหน่วยผลิตสารบิสฟีนอล เอ   | 16/08/2024            | Phenol       | NIOSH 2546/GC FID                            | < 0.01 | ND     | 5        |
|                                 | 07:27-09:27           |              |                                              |        |        |          |
|                                 | 16/08/2024            | NMHC         | Flame Ionization detection<br>/NMHC Analyzer | < 0.05 | 11.79  | -        |
|                                 | 07:27-07:42           |              |                                              |        |        |          |
| บริเวณถังเก็บก๊าซสารเอทิลเบนซีน | 16/08/2024            | Ethylbenzene | NIOSH 1501/GC FID                            | < 0.01 | ND     | 100      |
|                                 | 07:48-09:48           |              |                                              |        |        |          |
| บริเวณระบบบำบัดน้ำเสีย          | 16/08/2024            | Ethylbenzene | NIOSH 1501/GC FID                            | < 0.01 | 1.04   | 100      |
|                                 | 07:53-09:53           |              |                                              |        |        |          |

Analyst By :

Sudaporn S.

(Miss Sudaporn Soonthorn)

Approved By :

Narisa Poowasanpet

(Miss Narisa Poowasanpet)

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.

5. - No Standard.



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SECOT CO., LTD.

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ANALYSIS/TEST REPORT

|          |                                                                                                                          |                     |              |
|----------|--------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|
| Customer | : EED/SECOT Co., Ltd.                                                                                                    | Request Service No. | : 1684/67    |
| For      | : PTT Global Chemical Public Co., Ltd. Branch 18 (BPA Plant)                                                             | Sampling Date       | : 16/08/2024 |
| Address  | : 9 Soi G9 WHA Eastern Industrial Estate (Map Ta Phut)<br>Prakornsongkrohraj Rd., Huaypong, Muang, Rayong Thailand 21150 | Received Date       | : 17/08/2024 |
|          |                                                                                                                          | Test Date           | : 19/08/2024 |
| Tel/Fax  | : 66(0) 3864-3901 / 66(0) 3864-3827                                                                                      | Report Date         | : 26/08/2024 |

SAMPLE DESCRIPTION / SAMPLING INFORMATION

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

| Sampling Location             | Sampling<br>Date/Time     | Compound | Analytical<br>Method      | ND     | RESULT | STANDARD |
|-------------------------------|---------------------------|----------|---------------------------|--------|--------|----------|
|                               |                           |          |                           | ppm    | ppm    | ppm      |
| บริเวณหน่วยผลิตสารบิสฟีนอล เอ | 16/08/2024<br>07:27-09:27 | Acetone  | Modified NIOSH 1300/GC MS | < 0.03 | 0.11   | 1,000    |
| บริเวณถังเก็บกักอะซิโตน       | 16/08/2024<br>07:29-09:29 | Acetone  | Modified NIOSH 1300/GC MS | < 0.03 | ND     | 1,000    |

Analyst By : Jutarat Jaemruen  
( Miss Jutarat Jaemruen )

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

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## ANALYSIS/TEST REPORT

|          |                                                                                                                          |                     |              |
|----------|--------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|
| Customer | : EED/SECOT Co., Ltd.                                                                                                    | Request Service No. | : 2135/67    |
| For      | : PTT Global Chemical Public Co., Ltd. Branch 18 (BPA Plant)                                                             | Sampling Date       | : 17/10/2024 |
| Address  | : 9 Soi G9 WHA Eastern Industrial Estate (Map Ta Phut)<br>Prakornsongkrohraj Rd., Huaypong, Muang, Rayong Thailand 21150 | Received Date       | : 19/10/2024 |
|          |                                                                                                                          | Test Date           | : 22/10/2024 |
| Tel/Fax  | : 66(0) 3864-3901 / 66(0) 3864-3827                                                                                      | Report Date         | : 25/10/2024 |

### SAMPLE DESCRIPTION / SAMPLING INFORMATION

|                      |                   |                  |                                    |
|----------------------|-------------------|------------------|------------------------------------|
| Sample Designated As | : Workplace Air   | Sampling Method  | : Sorbent Adsorption/ 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      |
| บริเวณถังเก็บก๊าซสารฟีนอล       | 17/10/2024<br>07:39-11:39 | Phenol       | NIOSH 2546/GC FID                            | < 0.01 | ND     | 5        |
| บริเวณหน่วยผลิตสารบิสฟีนอล เอ   | 17/10/2024<br>07:44-11:44 | Phenol       | NIOSH 2546/GC FID                            | < 0.01 | ND     | 5        |
|                                 | 17/10/2024<br>07:44-07:59 | NMHC         | Flame Ionization detection<br>/NMHC Analyzer | < 0.05 | 0.06   | -        |
| บริเวณถังเก็บก๊าซสารเอทิลเบนซีน | 17/10/2024<br>07:41-11:41 | Ethylbenzene | NIOSH 1501/GC FID                            | < 0.01 | ND     | 100      |
| บริเวณระบบบำบัดน้ำเสีย          | 17/10/2024<br>08:07-12:07 | Ethylbenzene | NIOSH 1501/GC FID                            | < 0.01 | 0.21   | 100      |

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

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

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3. Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).
4. ND = non-detectable.
5. - No Standard.



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SECOT CO., LTD.

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ANALYSIS/TEST REPORT

|          |                                                                                                                          |                     |              |
|----------|--------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|
| Customer | : EED/SECOT Co., Ltd.                                                                                                    | Request Service No. | : 2135/67    |
| For      | : PTT Global Chemical Public Co., Ltd. Branch 18 (BPA Plant)                                                             | Sampling Date       | : 17/10/2024 |
| Address  | : 9 Soi G9 WHA Eastern Industrial Estate (Map Ta Phut)<br>Prakornsongkrohraj Rd., Huaypong, Muang, Rayong Thailand 21150 | Received Date       | : 19/10/2024 |
|          |                                                                                                                          | Test Date           | : 25/10/2024 |
| Tel/Fax  | : 66(0) 3864-3901 / 66(0) 3864-3827                                                                                      | Report Date         | : 25/10/2024 |

SAMPLE DESCRIPTION / SAMPLING INFORMATION

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

| Sampling Location             | Sampling<br>Date/Time     | Compound | Analytical<br>Method      | ND     | RESULT | STANDARD |
|-------------------------------|---------------------------|----------|---------------------------|--------|--------|----------|
|                               |                           |          |                           | ppm    | ppm    | ppm      |
| บริเวณหน่วยผลิตสารบิสฟีนอล เอ | 17/10/2024<br>07:44-11:44 | Acetone  | Modified NIOSH 1300/GC MS | < 0.03 | ND     | 1,000    |
| บริเวณถังเก็บกากอะซิโตน       | 17/10/2024<br>08:12-12:12 | Acetone  | Modified NIOSH 1300/GC MS | < 0.03 | ND     | 1,000    |

Analyst By : Jutarat Jaemruen  
( Miss Jutarat Jaemruen )

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

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ใบรับรองผลการตรวจวัด  
ระดับเสียงเฉลี่ย 12 ชั่วโมง (Leq 12 hr.)  
(ระยะดำเนินการ)



## Noise Monitoring Result : Working Noise MTR-PTTGC Branch 18 (BPA Plant)

Location : Air Compressor  
SLM Model : SCARLET ST-21D  
Site Operator : Miss Wiraya Patchimboon

Monitor Period : Oct 17, 2024  
Serial No : 820725

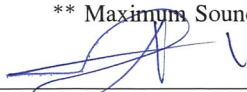
Calibrator Model : Cirrus CR:515  
Calibration Ref dB(A) : 94.0  
SLM Reading / Adjust dB(A) : 93.8/0.0  
Cal Sheet No.: CR-515-2024-291


Serial No : 94296  
Certified Date : 14 Feb 2024  
Expire Date : 13 Feb 2025

| Time          | Equivalent Sound Pressure Level (dB(A)) |
|---------------|-----------------------------------------|
|               | Oct 17, 2024                            |
| 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 | 72.9                                    |
| 08:00 - 09:00 | 77.7                                    |
| 09:00 - 10:00 | 74.3                                    |
| 10:00 - 11:00 | 73.8                                    |
| 11:00 - 12:00 | 73.9                                    |
| 12:00 - 13:00 | 73.8                                    |
| 13:00 - 14:00 | 73.9                                    |
| 14:00 - 15:00 | 73.8                                    |
| 15:00 - 16:00 | 73.8                                    |
| 16:00 - 17:00 | 74.4                                    |
| 17:00 - 18:00 | 74.5                                    |
| 18:00 - 19:00 | 74.2                                    |
| 19:00 - 20:00 |                                         |
| 20:00 - 21:00 |                                         |
| 21:00 - 22:00 |                                         |
| 22:00 - 23:00 |                                         |
| 23:00 - 24:00 |                                         |
| Leq(12)*      | 74.4                                    |
| Lmax **       | 101.6                                   |
| Standard-12Hr | 87 dB(A)                                |
| Standard-Max  | 140 dB(A)                               |

Remark : \* Average time between 07:00-19:00

\*\* Maximum Sound Pressure Level between 07:00-19:00

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Sununta Sirawuttinanon)  
Technical Management Team





## Noise Monitoring Result : Working Noise MTR-PTTGC Branch 18 (BPA Plant)

Location : Cooling Tower  
SLM Model : SCARLET ST-21D  
Site Operator : Miss Wiraya Patchimboon

Monitor Period : Oct 17, 2024  
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-515-2024-291

Serial No : 94296  
Certified Date : 14 Feb 2024  
Expire Date : 13 Feb 2025

| Time          | Equivalent Sound Pressure Level (dB(A)) |
|---------------|-----------------------------------------|
|               | Oct 17, 2024                            |
| 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 | 84.0                                    |
| 08:00 - 09:00 | 83.7                                    |
| 09:00 - 10:00 | 83.5                                    |
| 10:00 - 11:00 | 83.5                                    |
| 11:00 - 12:00 | 83.6                                    |
| 12:00 - 13:00 | 83.6                                    |
| 13:00 - 14:00 | 84.4                                    |
| 14:00 - 15:00 | 84.2                                    |
| 15:00 - 16:00 | 83.5                                    |
| 16:00 - 17:00 | 83.5                                    |
| 17:00 - 18:00 | 83.6                                    |
| 18:00 - 19:00 | 83.5                                    |
| 19:00 - 20:00 |                                         |
| 20:00 - 21:00 |                                         |
| 21:00 - 22:00 |                                         |
| 22:00 - 23:00 |                                         |
| 23:00 - 24:00 |                                         |
| Leq(12)*      | 83.7                                    |
| Lmax **       | 116.3                                   |
| Standard-12Hr | 87 dB(A)                                |
| Standard-Max  | 140 dB(A)                               |

Remark : \* Average time between 07:00-19:00

\*\* Maximum Sound Pressure Level between 07:00-19:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team

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ใบรับรองผลการตรวจวัด  
ปริมาณเสียงสะสมที่ตัวพนักงาน (% Dose)  
และระดับเสียงเฉลี่ยตลอดระยะเวลาทำงาน (TWA-12 hr.)  
(ระยะดำเนินการ)



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

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

### NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Oct/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 08/10/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Salisa Ainree                   | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION        | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|-----------------|-------------|-------------|---------|---------------------|---------------------|
|                 |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator Sample | 26006029    | 07:23-19:00 | 19.5    | 76.2                | 83.0                |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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  3. \* Notification of the Department of Labour Protection and Welfare, B.E.2561 (2018).
  4. TWA means Time Weighted Average.



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NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Oct/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 08/10/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Salisa Ainree                   | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION      | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|---------------|-------------|-------------|---------|---------------------|---------------------|
|               |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator ISBL | 26005985    | 07:22-19:00 | 21.2    | 76.5                | 83.0                |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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

### NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Oct/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 08/10/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Salisa Ainree                   | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION      | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|---------------|-------------|-------------|---------|---------------------|---------------------|
|               |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator OSBL | 26008164    | 07:23-19:00 | 34.3    | 78.6                | 83.0                |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Oct/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : Pulsar 22 R                  |
| MEASUREMENT DATE     | : 08/10/2024                           | SERIAL NO.       | : 79781                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Salisa Ainree                   | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION          | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|-------------------|-------------|-------------|---------|---------------------|---------------------|
|                   |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator Back End | 26006027    | 07:24-19:00 | 46.7    | 80.0                | 83.0                |

  
.....  
(Miss Katesarin Vorradetwittaya)

Environmental Scientist

  
.....  
(Miss Sununta Sirawuttinanon)

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### NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Oct/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 22/10/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION             | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|----------------------|-------------|-------------|---------|---------------------|---------------------|
|                      |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator ISBL / OSBL | 26006004    | 07:34-19:00 | 31.1    | 78.2                | 83.0                |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

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### NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Oct/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 22/10/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION      | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|---------------|-------------|-------------|---------|---------------------|---------------------|
|               |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator ISBL | 26006001    | 07:32-19:00 | 7.6     | 72.1                | 83.0                |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

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### NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Oct/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 24/10/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION      | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|---------------|-------------|-------------|---------|---------------------|---------------------|
|               |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator ISBL | 26006003    | 07:52-19:00 | 31.1    | 78.2                | 83.0                |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

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NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Oct/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 24/10/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION        | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|-----------------|-------------|-------------|---------|---------------------|---------------------|
|                 |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator Sample | 26005982    | 07:49-19:00 | 22.0    | 76.7                | 83.0                |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Oct/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 29/10/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION      | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|---------------|-------------|-------------|---------|---------------------|---------------------|
|               |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator ISBL | 26006087    | 07:37-18:57 | 17.9    | 75.8                | 83.0                |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

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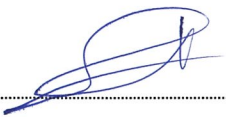
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NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Oct/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 29/10/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION          | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|-------------------|-------------|-------------|---------|---------------------|---------------------|
|                   |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator Back End | 26005999    | 07:37-19:00 | 79.0    | 82.2                | 83.0                |

  
.....  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
.....  
(Miss Sununta Sirawuttinanon)  
Technical Management Team

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NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Oct/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 29/10/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION      | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|---------------|-------------|-------------|---------|---------------------|---------------------|
|               |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator ISBL | 26008424    | 07:31-19:00 | 25.2    | 77.3                | 83.0                |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

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NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Nov/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 19/11/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION      | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|---------------|-------------|-------------|---------|---------------------|---------------------|
|               |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator ISBL | 26006127    | 07:34-19:00 | 1.6     | 65.2                | 83.0                |

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Environmental Scientist

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### NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Nov/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : RC:110A                      |
| MEASUREMENT DATE     | : 19/11/2024                           | SERIAL NO.       | : 95167                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION      | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|---------------|-------------|-------------|---------|---------------------|---------------------|
|               |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator OSBL | 26005997    | 07:35-19:00 | 45.1    | 79.8                | 83.0                |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

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### NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Nov/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : Pulsar 22 R                  |
| MEASUREMENT DATE     | : 19/11/2024                           | SERIAL NO.       | : 79781                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION      | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|---------------|-------------|-------------|---------|---------------------|---------------------|
|               |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator OSBL | 26006028    | 07:36-19:00 | 2.7     | 67.7                | 83.0                |

  
.....  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
.....  
(Miss Sununta Sirawuttinanon)  
Technical Management Team

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### NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Nov/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : Pulsar 22 R                  |
| MEASUREMENT DATE     | : 20/11/2024                           | SERIAL NO.       | : 79781                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION        | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|-----------------|-------------|-------------|---------|---------------------|---------------------|
|                 |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator Sample | 26006052    | 07:25-19:00 | 12.4    | 74.2                | 83.0                |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

- Remark :**
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  3. \* Notification of the Department of Labour Protection and Welfare, B.E.2561 (2018).
  4. TWA means Time Weighted Average.





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### NOISE MEASUREMENT REPORT : NOISE DOSE

|                      |                                        |                  |                                |
|----------------------|----------------------------------------|------------------|--------------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO.    | : 224002 (Cert.)Nov/Noise Dose |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT       | : Noise Dosimeter              |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | CALIBRATOR MODEL | : Pulsar 22 R                  |
| MEASUREMENT DATE     | : 22/11/2024                           | SERIAL NO.       | : 79781                        |
| MEASUREMENT LOCATION | : BPA Plant                            | CALIBRATOR TYPE  | : Calibrator                   |
| SITE OPERATOR        | : Miss Wiraya Patchimboon              | CALIBRATOR REF.  | : 1,000 Hz, 114 dB             |

| LOCATION      | OPERATOR ID | TIME        | RESULTS |                     | STANDARD*           |
|---------------|-------------|-------------|---------|---------------------|---------------------|
|               |             |             | % DOSE  | TWA 12 hr.<br>(dBA) | TWA 12 hr.<br>(dBA) |
| Operator ISBL | 26005980    | 07:32-19:00 | 6.5     | 71.4                | 83.0                |

  
.....  
(Miss Katesarin Vorradetwittaya)

Environmental Scientist

  
.....  
(Miss Sununta Sirawuttinanon)

Technical Management Team

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  4. TWA means Time Weighted Average.



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ใบรับรองผลการตรวจวัด  
ระดับความร้อนภายในสถานประกอบการ  
(ระยะดำเนินการ)



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HEAT STRESS MEASUREMENT REPORT

|                      |                                        |               |                             |
|----------------------|----------------------------------------|---------------|-----------------------------|
| CLIENT NAME          | : PTT Global Chemical Public Co., Ltd. | REFERENCE NO. | : 224002-WBGT-cert/Apr/Heat |
|                      | Branch 18 (BPA Plant)                  | INSTRUMENT    | : WBGT METER                |
| MEASUREMENT BY       | : SECOT Co., Ltd.                      | SERIAL NO.    | : 3522210179                |
| MEASUREMENT DATE     | : 18/04/2024                           | TYPE          | : JT2011-E2A                |
| MEASUREMENT LOCATION | : Process                              | SITE OPERATOR | : Miss Mareeyanee Hawae     |

| LOCATION                      | TIME        | MEASURED TEMPERATURE (°C) |      |      |                    |                     | STANDARD (°C) * |
|-------------------------------|-------------|---------------------------|------|------|--------------------|---------------------|-----------------|
|                               |             | NWB                       | DB   | GT   | WBGT <sub>In</sub> | WBGT <sub>Avg</sub> | WBGT            |
| บริเวณหน่วยผลิตสารบิสฟีนอล เอ | 10:50-11:20 | 28.9                      | 34.3 | 35.7 | 30.9               | 31.1                | 34.0            |
|                               | 11:20-11:50 | 29.1                      | 34.7 | 35.7 | 31.1               |                     |                 |
|                               | 11:50-12:20 | 29.3                      | 34.8 | 36.1 | 31.3               |                     |                 |
|                               | 12:20-12:50 | 28.9                      | 34.3 | 35.7 | 30.9               |                     |                 |

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

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3. \*WBGT Standard was notified by the Ministerial Regulation of Labour, B.E.2559 (2016).

4. NWB = Natural Wet Bulb Temperature

DB = Dry Bulb Temperature

GT = Globe Temperature

WBGT = Wet Bulb Globe Temperature

5. Work Load : Light work load = 34 °C, Moderate work load = 32 °C and Heavy work load = 30 °C

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คุณภาพอากาศภายในสถานประกอบการ  
แบบติดที่ตัวบุคคล (Personal Sampling)  
(ระยะดำเนินการ)



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

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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. | : 1685/67        |
| For      | : PTT Global Chemical Public Co., Ltd. Branch 18 (BPA Plant)                                                             | Sampling Date       | : 16/08/2024     |
| Address  | : 9 Soi G9 WHA Eastern Industrial Estate (Map Ta Phut)<br>Prakornsongkrohraj Rd., Huaypong, Muang, Rayong Thailand 21150 | Received Date       | : 17/08/2024     |
|          |                                                                                                                          | Test Date           | : 19, 20/08/2024 |
| Tel/Fax  | : 66(0) 3864-3901 / 66(0) 3864-3827                                                                                      | Report Date         | : 26/08/2024     |

SAMPLE DESCRIPTION / SAMPLING INFORMATION

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

| Sampling Location                                           | Sampling<br>Date/Time     | Compound     | Analytical<br>Method | ND     | RESULT | STANDARD |
|-------------------------------------------------------------|---------------------------|--------------|----------------------|--------|--------|----------|
|                                                             |                           |              |                      | ppm    | ppm    | ppm      |
| ID : 26006020<br>Area : พนักงานที่มีโอกาสเสี่ยง บริเวณ OSBL | 16/08/2024<br>07:00-19:00 | Phenol       | NIOSH 2546/GC FID    | < 0.01 | ND     | 5        |
|                                                             | 16/08/2024<br>07:00-19:00 | Ethylbenzene | NIOSH 1501/GC FID    | < 0.01 | ND     | 100      |
| ID : 26005981<br>Area : พนักงานที่มีโอกาสเสี่ยง บริเวณ ISBL | 16/08/2024<br>07:00-19:00 | Phenol       | NIOSH 2546/GC FID    | < 0.01 | ND     | 5        |
|                                                             | 16/08/2024<br>07:00-19:00 | Ethylbenzene | NIOSH 1501/GC FID    | < 0.01 | ND     | 100      |

Analyst By :

Sudaporn S.

(Miss Sudaporn Soonthorn)

Approved By :

Narisa Poowasanpetk

(Miss Narisa Poowasanpetk)

Technical Management Team

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3. Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).

4. ND = non-detectable.



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ANALYSIS/TEST REPORT

|          |                                                                                                                          |                     |              |
|----------|--------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|
| Customer | : EED/SECOT Co., Ltd.                                                                                                    | Request Service No. | : 1685/67    |
| For      | : PTT Global Chemical Public Co., Ltd. Branch 18 (BPA Plant)                                                             | Sampling Date       | : 16/08/2024 |
| Address  | : 9 Soi G9 WHA Eastern Industrial Estate (Map Ta Phut)<br>Prakornsongkrohraj Rd., Huaypong, Muang, Rayong Thailand 21150 | Received Date       | : 17/08/2024 |
|          |                                                                                                                          | Test Date           | : 19/08/2024 |
| Tel/Fax  | : 66(0) 3864-3901 / 66(0) 3864-3827                                                                                      | Report Date         | : 26/08/2024 |

SAMPLE DESCRIPTION / SAMPLING INFORMATION

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

| Sampling Location                                           | Sampling<br>Date/Time     | Compound | Analytical<br>Method      | ND     | RESULT | STANDARD |
|-------------------------------------------------------------|---------------------------|----------|---------------------------|--------|--------|----------|
|                                                             |                           |          |                           | ppm    | ppm    | ppm      |
| ID : 26006020<br>Area : พนักงานที่มีโอกาสเสี่ยง บริเวณ OSBL | 16/08/2024<br>07:00-19:00 | Acetone  | Modified NIOSH 1300/GC MS | < 0.03 | ND     | 1,000    |
| ID : 26005981<br>Area : พนักงานที่มีโอกาสเสี่ยง บริเวณ ISBL | 16/08/2024<br>07:00-19:00 | Acetone  | Modified NIOSH 1300/GC MS | < 0.03 | ND     | 1,000    |

Analyst By : Jutarat Jaemruen  
(Miss Jutarat Jaemruen)

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

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ANALYSIS/TEST REPORT

|          |                                                                                                                          |                     |                  |
|----------|--------------------------------------------------------------------------------------------------------------------------|---------------------|------------------|
| Customer | : EED/SECOT Co., Ltd.                                                                                                    | Request Service No. | : 2136/67        |
| For      | : PTT Global Chemical Public Co., Ltd. Branch 18 (BPA Plant)                                                             | Sampling Date       | : 17/10/2024     |
| Address  | : 9 Soi G9 WHA Eastern Industrial Estate (Map Ta Phut)<br>Prakornsongkrohraj Rd., Huaypong, Muang, Rayong Thailand 21150 | Received Date       | : 19/10/2024     |
| Tel/Fax  | : 66(0) 3864-3901 / 66(0) 3864-3827                                                                                      | Test Date           | : 21, 22/10/2024 |
|          |                                                                                                                          | Report Date         | : 25/10/2024     |

SAMPLE DESCRIPTION / SAMPLING INFORMATION

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

| Sampling Location                                           | Sampling<br>Date/Time | Compound     | Analytical<br>Method | ND     | RESULT | STANDARD |
|-------------------------------------------------------------|-----------------------|--------------|----------------------|--------|--------|----------|
|                                                             |                       |              |                      | ppm    | ppm    | ppm      |
| ID : 26006027<br>Area : พนักงานที่มีโอกาสเสี่ยง บริเวณ OSBL | 17/10/2024            | Phenol       | NIOSH 2546/GC FID    | < 0.01 | 0.04   | 5        |
|                                                             | 07:24-19:00           |              |                      |        |        |          |
|                                                             | 17/10/2024            | Ethylbenzene | NIOSH 1501/GC FID    | < 0.01 | ND     | 100      |
|                                                             | 07:24-19:00           |              |                      |        |        |          |
| ID : 26006002<br>Area : พนักงานที่มีโอกาสเสี่ยง บริเวณ ISBL | 17/10/2024            | Phenol       | NIOSH 2546/GC FID    | < 0.01 | ND     | 5        |
|                                                             | 07:26-19:00           |              |                      |        |        |          |
|                                                             | 17/10/2024            | Ethylbenzene | NIOSH 1501/GC FID    | < 0.01 | ND     | 100      |
|                                                             | 07:26-19:00           |              |                      |        |        |          |

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

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

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ANALYSIS/TEST REPORT

|          |                                                                                                                          |                     |              |
|----------|--------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|
| Customer | : EED/SECOT Co., Ltd.                                                                                                    | Request Service No. | : 2136/67    |
| For      | : PTT Global Chemical Public Co., Ltd. Branch 18 (BPA Plant)                                                             | Sampling Date       | : 17/10/2024 |
| Address  | : 9 Soi G9 WHA Eastern Industrial Estate (Map Ta Phut)<br>Prakornsongkrohraj Rd., Huaypong, Muang, Rayong Thailand 21150 | Received Date       | : 19/10/2024 |
|          |                                                                                                                          | Test Date           | : 25/10/2024 |
| Tel/Fax  | : 66(0) 3864-3901 / 66(0) 3864-3827                                                                                      | Report Date         | : 25/10/2024 |

SAMPLE DESCRIPTION / SAMPLING INFORMATION

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

| Sampling Location                          | Sampling<br>Date/Time | Compound | Analytical<br>Method      | ND     | RESULT | STANDARD |
|--------------------------------------------|-----------------------|----------|---------------------------|--------|--------|----------|
|                                            |                       |          |                           | ppm    | ppm    | ppm      |
| ID : 26006027                              | 17/10/2024            | Acetone  | Modified NIOSH 1300/GC MS | < 0.03 | ND     | 1,000    |
| Area : พนักงานที่มีโอกาสเสี่ยง บริเวณ OSBL |                       |          |                           |        |        |          |
| ID : 26006002                              | 17/10/2024            | Acetone  | Modified NIOSH 1300/GC MS | < 0.03 | ND     | 1,000    |
| Area : พนักงานที่มีโอกาสเสี่ยง บริเวณ ISBL |                       |          |                           |        |        |          |

Analyst By : Jutarat Jaemruen  
(Miss Jutarat Jaemruen)

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

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