



ภาคผนวก ง

ผลการวิเคราะห์



เมืองอุตสาหกรรมเชียงใหม่
พิกษนาแก้วโกส ห่วงใยสิ่งแวดล้อม



TEST REPORT

Analysis No. : R23-1541

Received Date: 25-31/05/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 25/05-02/06/23

Job No. : S660394/May

Sampling By : TET

Type of Sample : Ambient Air

| Sampling Point | Sample No. | Sampling Date | Result | | |
|--|-------------|---------------|-----------------------------|-------------------------------|--------------------------------|
| | | | TSP (mg/m ³) | PM-10 (mg/m ³) | CO ^(8 hr.) (ppm) |
| บริเวณสำนักงานนิคมฯ ลาดกระบัง (47P 0693480 UTM 1521753) | 2305-AA1227 | 23-24/05/23 | 0.096 | 0.056 | 0.64 |
| | 2305-AA1297 | 24-25/05/23 | 0.104 | 0.054 | 0.66 |
| | 2305-AA1438 | 25-26/05/23 | 0.122 | 0.064 | 0.71 |
| | 2305-AA1442 | 26-27/05/23 | 0.081 | 0.047 | 0.57 |
| | 2305-AA1446 | 27-28/05/23 | 0.080 | 0.042 | 0.58 |
| | 2305-AA1580 | 28-29/05/23 | 0.090 | 0.046 | 0.57 |
| | 2305-AA1644 | 29-30/05/23 | 0.124 | 0.057 | 0.56 |
| วัดทิพพาวาส (ศูนย์พัฒนาเด็กก่อน ก่อนวัยเรียนทิพพาวาสพัฒนา) (47P 0694717 UTM 1524178) | 2305-AA1228 | 23-24/05/23 | 0.182 | 0.059 | 0.44 |
| | 2305-AA1298 | 24-25/05/23 | 0.077 | 0.035 | 0.62 |
| | 2305-AA1439 | 25-26/05/23 | 0.115 | 0.051 | 0.50 |
| | 2305-AA1443 | 26-27/05/23 | 0.068 | 0.018 | 0.41 |
| | 2305-AA1447 | 27-28/05/23 | 0.066 | 0.034 | 0.48 |
| | 2305-AA1581 | 28-29/05/23 | 0.102 | 0.033 | 0.38 |
| | 2305-AA1645 | 29-30/05/23 | 0.108 | 0.038 | 0.40 |
| Standard ⁽¹⁾ | | | 0.33 | 0.12 | 9 ⁽²⁾ |

Analysis Date : TSP, PM-10 (2305-AA1227, 2305-AA1228)/25-29/05/23, (2305-AA1297, 2305-AA1298)/26-30/05/23, (2305-AA1438, 2305-AA1439, 2305-AA1442, 2305-AA1443, 2305-AA1446, 2305-AA1447)/29-31/05/23, (2305-AA1580, 2305-AA1581)/30/05-01/06/23, (2305-AA1644, 2305-AA1645)/31/05-02/06/23

CO (2305-AA1227, 2305-AA1228)/25/05/23, (2305-AA1297, 2305-AA1298)/26/05/23, (2305-AA1438, 2305-AA1439, 2305-AA1442, 2305-AA1443, 2305-AA1446, 2305-AA1447, 2305-AA1580, 2305-AA1581)/30/05/23, (2305-AA1644, 2305-AA1645)/01/06/23

Method : TSP = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix B)

PM-10 = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix J)

CO = NDIR Method (US.EPA 40 CFR Part 50 Appendix C)

Standard (1) Notification of the National Environment Board No. 10 (1995) (B.E. 2538) and No. 24 (2004) (B.E. 2547), 24-hr. average value

(2) Notification of the National Environment Board No. 10 (1995) (B.E. 2538)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

02/06/23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

02/06/23



TEST REPORT

Analysis No. : R23-1541

Received Date: 25-31/05/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 25/05-02/06/23

Job No. : S660394/May

Sampling By : TET

Type of Sample : Ambient Air

| Sampling Point | Sample No. | Sampling Date | Result | | |
|---|-------------|---------------|-----------------------------|-------------------------------|--------------------------------|
| | | | TSP (mg/m ³) | PM-10 (mg/m ³) | CO ^(8 hr.) (ppm) |
| วัดบึงบัว (โรงเรียนวัดบึงบัว) (47P 0692050 UTM 1522463) | 2305-AA1229 | 23-24/05/23 | 0.106 | 0.024 | 0.52 |
| | 2305-AA1299 | 24-25/05/23 | 0.095 | 0.032 | 0.58 |
| | 2305-AA1440 | 25-26/05/23 | 0.112 | 0.006 | 0.42 |
| | 2305-AA1444 | 26-27/05/23 | 0.091 | 0.021 | 0.37 |
| | 2305-AA1448 | 27-28/05/23 | 0.075 | 0.021 | 0.48 |
| | 2305-AA1582 | 28-29/05/23 | 0.086 | 0.025 | 0.33 |
| | 2305-AA1646 | 29-30/05/23 | 0.087 | 0.025 | 0.42 |
| มุมทิศตะวันออกเฉียงเหนือ ของพื้นที่นิคมฯ (บริษัท ไทยซอนด้า แมนูแฟคเจอร์ จำกัด) (47P 0694865 UTM 1523081) | 2305-AA1230 | 23-24/05/23 | 0.094 | 0.038 | 0.55 |
| | 2305-AA1300 | 24-25/05/23 | 0.101 | 0.041 | 0.55 |
| | 2305-AA1441 | 25-26/05/23 | 0.116 | 0.050 | 0.66 |
| | 2305-AA1445 | 26-27/05/23 | 0.082 | 0.037 | 0.49 |
| | 2305-AA1449 | 27-28/05/23 | 0.058 | 0.025 | 0.42 |
| | 2305-AA1583 | 28-29/05/23 | 0.060 | 0.032 | 0.53 |
| | 2305-AA1647 | 29-30/05/23 | 0.061 | 0.030 | 0.37 |
| Standard ⁽¹⁾ | | | 0.33 | 0.12 | 9 ⁽²⁾ |

Analysis Date : TSP, PM-10 (2305-AA1229, 2305-AA1230)/25-29/05/23, (2305-AA1299, 2305-AA1300)/26-30/05/23, (2305-AA1440, 2305-AA1441, 2305-AA1444, 2305-AA1445, 2305-AA1448, 2305-AA1449)/29-31/05/23, (2305-AA1582, 2305-AA1583)/30/05-01/06/23, (2305-AA1646, 2305-AA1647)/31/05-02/06/23

CO (2305-AA1229, 2305-AA1230)/25/05/23, (2305-AA1299, 2305-AA1300)/26/05/23, (2305-AA1440, 2305-AA1441, 2305-AA1444, 2305-AA1445, 2305-AA1448, 2305-AA1449, 2305-AA1582, 2305-AA1583)/30/05/23, (2305-AA1646, 2305-AA1647)/01/06/23

Method : TSP = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix B)
PM-10 = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix J)
CO = NDIR Method (US.EPA 40 CFR Part 50 Appendix C)

Standard (1) Notification of the National Environment Board No. 10 (1995) (B.E. 2538) and No. 24 (2004) (B.E. 2547), 24-hr. average value
(2) Notification of the National Environment Board No. 10 (1995) (B.E. 2538)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

07/06/23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

07/06/23

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- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Report No. : R23-1541/1-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง

Type of Sample : Ambient Air Quality

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| อันดับ | เวลา | ผลการตรวจวัด | | | | | | |
|------------------------|-------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | บริเวณสำนักงานนิคมฯ ลาดกระบัง | | | | | | |
| | | NO ₂ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 10:00-11:00 | 0.0047 | 0.0042 | 0.0027 | 0.0066 | 0.0042 | 0.0051 | 0.0025 |
| 2. | 11:00-12:00 | 0.0035 | 0.0022 | 0.0025 | 0.0029 | 0.0049 | 0.0057 | 0.0019 |
| 3. | 12:00-13:00 | 0.0016 | 0.0058 | 0.0021 | 0.0018 | 0.0036 | 0.0054 | 0.0022 |
| 4. | 13:00-14:00 | 0.0018 | 0.0074 | 0.0018 | 0.0021 | 0.0020 | 0.0058 | 0.0025 |
| 5. | 14:00-15:00 | 0.0047 | 0.0085 | 0.0019 | 0.0032 | 0.0020 | 0.0050 | 0.0023 |
| 6. | 15:00-16:00 | 0.0035 | 0.0055 | 0.0022 | 0.0040 | 0.0020 | 0.0051 | 0.0016 |
| 7. | 16:00-17:00 | 0.0016 | 0.0046 | 0.0027 | 0.0044 | 0.0021 | 0.0051 | 0.0021 |
| 8. | 17:00-18:00 | 0.0018 | 0.0044 | 0.0020 | 0.0032 | 0.0043 | 0.0051 | 0.0027 |
| 9. | 18:00-19:00 | 0.0011 | 0.0044 | 0.0020 | 0.0014 | 0.0037 | 0.0055 | 0.0026 |
| 10. | 19:00-20:00 | 0.0009 | 0.0042 | 0.0016 | 0.0022 | 0.0030 | 0.0046 | 0.0024 |
| 11. | 20:00-21:00 | 0.0014 | 0.0024 | 0.0017 | 0.0020 | 0.0047 | 0.0044 | 0.0022 |
| 12. | 21:00-22:00 | 0.0014 | 0.0025 | 0.0016 | 0.0018 | 0.0037 | 0.0044 | 0.0022 |
| 13. | 22:00-23:00 | 0.0010 | 0.0028 | 0.0015 | 0.0018 | 0.0042 | 0.0030 | 0.0018 |
| 14. | 23:00-00:00 | 0.0015 | 0.0026 | 0.0015 | 0.0012 | 0.0055 | 0.0014 | 0.0019 |
| 15. | 00:00-01:00 | 0.0016 | 0.0024 | 0.0017 | 0.0010 | 0.0051 | 0.0009 | 0.0023 |
| 16. | 01:00-02:00 | 0.0014 | 0.0024 | 0.0015 | 0.0014 | 0.0053 | 0.0029 | 0.0025 |
| 17. | 02:00-03:00 | 0.0022 | 0.0018 | 0.0016 | 0.0038 | 0.0046 | 0.0026 | 0.0032 |
| 18. | 03:00-04:00 | 0.0019 | 0.0021 | 0.0017 | 0.0033 | 0.0064 | 0.0026 | 0.0034 |
| 19. | 04:00-05:00 | 0.0009 | 0.0020 | 0.0013 | 0.0050 | 0.0060 | 0.0026 | 0.0035 |
| 20. | 05:00-06:00 | 0.0068 | 0.0019 | 0.0012 | 0.0037 | 0.0045 | 0.0026 | 0.0029 |
| 21. | 06:00-07:00 | 0.0049 | 0.0019 | 0.0023 | 0.0037 | 0.0045 | 0.0025 | 0.0022 |
| 22. | 07:00-08:00 | 0.0014 | 0.0026 | 0.0011 | 0.0043 | 0.0035 | 0.0024 | 0.0009 |
| 23. | 08:00-09:00 | 0.0010 | 0.0026 | 0.0022 | 0.0049 | 0.0025 | 0.0024 | 0.0027 |
| 24. | 09:00-10:00 | 0.0030 | 0.0025 | 0.0062 | 0.0031 | 0.0021 | 0.0025 | 0.0018 |
| ค่าต่ำสุด | | 0.0009 | 0.0018 | 0.0011 | 0.0010 | 0.0020 | 0.0009 | 0.0009 |
| ค่าสูงสุด | | 0.0068 | 0.0085 | 0.0062 | 0.0066 | 0.0064 | 0.0058 | 0.0035 |
| ค่าเฉลี่ย | | 0.0023 | 0.0035 | 0.0020 | 0.0030 | 0.0039 | 0.0037 | 0.0023 |
| มาตรฐาน ⁽¹⁾ | | 0.17 | | | | | | |

มาตรฐาน : ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 33 (พ.ศ. 2552) (ค.ศ. 2009) เรื่องกำหนดมาตรฐานค่าก๊าซไนโตรเจนไดออกไซด์ในบรรยากาศโดยทั่วไป

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/2-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาหัว เขตลาดกระบัง

Type of Sample : Ambient Air Quality

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| อันดับ | เวลา | ผลการตรวจวัด | | | | | | |
|------------------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| | | วัดหิฟพาวาส (ศูนย์พัฒนาเด็กก่อนวัยเรียนหิฟพาวาสพัฒนา) | | | | | | |
| | | NO ₂ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 12:00-13:00 | 0.0032 | 0.0058 | 0.0019 | 0.0053 | 0.0063 | 0.0090 | 0.0044 |
| 2. | 13:00-14:00 | 0.0039 | 0.0047 | 0.0019 | 0.0062 | 0.0055 | 0.0063 | 0.0052 |
| 3. | 14:00-15:00 | 0.0053 | 0.0039 | 0.0021 | 0.0054 | 0.0058 | 0.0067 | 0.0054 |
| 4. | 15:00-16:00 | 0.0052 | 0.0030 | 0.0023 | 0.0045 | 0.0064 | 0.0088 | 0.0061 |
| 5. | 16:00-17:00 | 0.0029 | 0.0033 | 0.0023 | 0.0050 | 0.0048 | 0.0066 | 0.0054 |
| 6. | 17:00-18:00 | 0.0041 | 0.0036 | 0.0073 | 0.0042 | 0.0042 | 0.0088 | 0.0063 |
| 7. | 18:00-19:00 | 0.0058 | 0.0034 | 0.0037 | 0.0038 | 0.0028 | 0.0086 | 0.0050 |
| 8. | 19:00-20:00 | 0.0062 | 0.0029 | 0.0055 | 0.0046 | 0.0025 | 0.0080 | 0.0050 |
| 9. | 20:00-21:00 | 0.0050 | 0.0028 | 0.0065 | 0.0065 | 0.0029 | 0.0063 | 0.0050 |
| 10. | 21:00-22:00 | 0.0053 | 0.0033 | 0.0078 | 0.0063 | 0.0034 | 0.0067 | 0.0046 |
| 11. | 22:00-23:00 | 0.0044 | 0.0035 | 0.0069 | 0.0063 | 0.0028 | 0.0088 | 0.0042 |
| 12. | 23:00-00:00 | 0.0042 | 0.0034 | 0.0075 | 0.0056 | 0.0022 | 0.0066 | 0.0040 |
| 13. | 00:00-01:00 | 0.0030 | 0.0038 | 0.0078 | 0.0028 | 0.0019 | 0.0053 | 0.0040 |
| 14. | 01:00-02:00 | 0.0027 | 0.0047 | 0.0081 | 0.0018 | 0.0030 | 0.0040 | 0.0034 |
| 15. | 02:00-03:00 | 0.0034 | 0.0064 | 0.0088 | 0.0016 | 0.0051 | 0.0036 | 0.0036 |
| 16. | 03:00-04:00 | 0.0021 | 0.0066 | 0.0088 | 0.0011 | 0.0020 | 0.0034 | 0.0037 |
| 17. | 04:00-05:00 | 0.0021 | 0.0052 | 0.0082 | 0.0010 | 0.0031 | 0.0033 | 0.0034 |
| 18. | 05:00-06:00 | 0.0022 | 0.0039 | 0.0081 | 0.0014 | 0.0037 | 0.0038 | 0.0036 |
| 19. | 06:00-07:00 | 0.0024 | 0.0052 | 0.0033 | 0.0025 | 0.0036 | 0.0037 | 0.0034 |
| 20. | 07:00-08:00 | 0.0030 | 0.0055 | 0.0038 | 0.0043 | 0.0049 | 0.0034 | 0.0033 |
| 21. | 08:00-09:00 | 0.0041 | 0.0052 | 0.0043 | 0.0044 | 0.0065 | 0.0040 | 0.0040 |
| 22. | 09:00-10:00 | 0.0046 | 0.0042 | 0.0053 | 0.0055 | 0.0070 | 0.0049 | 0.0025 |
| 23. | 10:00-11:00 | 0.0037 | 0.0039 | 0.0060 | 0.0054 | 0.0075 | 0.0048 | 0.0027 |
| 24. | 11:00-12:00 | 0.0055 | 0.0050 | 0.0065 | 0.0054 | 0.0090 | 0.0043 | 0.0026 |
| ค่าต่ำสุด | | 0.0021 | 0.0028 | 0.0019 | 0.0010 | 0.0019 | 0.0033 | 0.0025 |
| ค่าสูงสุด | | 0.0062 | 0.0066 | 0.0088 | 0.0065 | 0.0090 | 0.0090 | 0.0063 |
| ค่าเฉลี่ย | | 0.0039 | 0.0043 | 0.0056 | 0.0042 | 0.0045 | 0.0058 | 0.0042 |
| มาตรฐาน ⁽¹⁾ | | 0.17 | | | | | | |

มาตรฐาน : ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 33 (พ.ศ. 2552) (ค.ศ. 2009) เรื่องกำหนดมาตรฐานค่าก๊าซไนโตรเจนไดออกไซด์ในบรรยากาศโดยทั่วไป

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

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TEST REPORT

Report No. : R23-1541/3-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง

Type of Sample : Ambient Air Quality

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| อันดับ | เวลา | ผลการตรวจวัด | | | | | | |
|------------------------|-------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | วัดบึงบัว (โรงเรียนวัดบึงบัว) | | | | | | |
| | | NO ₂ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 09:00-10:00 | 0.0041 | 0.0018 | 0.0022 | 0.0016 | 0.0017 | 0.0020 | 0.0020 |
| 2. | 10:00-11:00 | 0.0017 | 0.0021 | 0.0018 | 0.0015 | 0.0019 | 0.0049 | 0.0025 |
| 3. | 11:00-12:00 | 0.0019 | 0.0017 | 0.0020 | 0.0016 | 0.0067 | 0.0030 | 0.0022 |
| 4. | 12:00-13:00 | 0.0019 | 0.0016 | 0.0027 | 0.0017 | 0.0083 | 0.0055 | 0.0016 |
| 5. | 13:00-14:00 | 0.0021 | 0.0017 | 0.0021 | 0.0014 | 0.0048 | 0.0026 | 0.0018 |
| 6. | 14:00-15:00 | 0.0023 | 0.0024 | 0.0016 | 0.0015 | 0.0031 | 0.0027 | 0.0016 |
| 7. | 15:00-16:00 | 0.0023 | 0.0028 | 0.0015 | 0.0016 | 0.0022 | 0.0024 | 0.0016 |
| 8. | 16:00-17:00 | 0.0073 | 0.0036 | 0.0017 | 0.0017 | 0.0021 | 0.0017 | 0.0015 |
| 9. | 17:00-18:00 | 0.0023 | 0.0024 | 0.0027 | 0.0015 | 0.0033 | 0.0016 | 0.0014 |
| 10. | 18:00-19:00 | 0.0023 | 0.0020 | 0.0020 | 0.0016 | 0.0018 | 0.0021 | 0.0015 |
| 11. | 19:00-20:00 | 0.0018 | 0.0041 | 0.0017 | 0.0015 | 0.0022 | 0.0050 | 0.0015 |
| 12. | 20:00-21:00 | 0.0018 | 0.0039 | 0.0016 | 0.0014 | 0.0017 | 0.0018 | 0.0016 |
| 13. | 21:00-22:00 | 0.0029 | 0.0027 | 0.0016 | 0.0015 | 0.0033 | 0.0015 | 0.0018 |
| 14. | 22:00-23:00 | 0.0028 | 0.0029 | 0.0016 | 0.0021 | 0.0018 | 0.0016 | 0.0016 |
| 15. | 23:00-00:00 | 0.0045 | 0.0027 | 0.0018 | 0.0028 | 0.0018 | 0.0016 | 0.0023 |
| 16. | 00:00-01:00 | 0.0016 | 0.0019 | 0.0020 | 0.0031 | 0.0019 | 0.0021 | 0.0020 |
| 17. | 01:00-02:00 | 0.0015 | 0.0017 | 0.0028 | 0.0029 | 0.0019 | 0.0028 | 0.0016 |
| 18. | 02:00-03:00 | 0.0016 | 0.0014 | 0.0020 | 0.0023 | 0.0017 | 0.0048 | 0.0014 |
| 19. | 03:00-04:00 | 0.0045 | 0.0015 | 0.0016 | 0.0018 | 0.0017 | 0.0016 | 0.0013 |
| 20. | 04:00-05:00 | 0.0016 | 0.0014 | 0.0015 | 0.0014 | 0.0017 | 0.0015 | 0.0014 |
| 21. | 05:00-06:00 | 0.0016 | 0.0046 | 0.0016 | 0.0018 | 0.0017 | 0.0015 | 0.0013 |
| 22. | 06:00-07:00 | 0.0020 | 0.0050 | 0.0016 | 0.0016 | 0.0019 | 0.0015 | 0.0015 |
| 23. | 07:00-08:00 | 0.0016 | 0.0037 | 0.0015 | 0.0014 | 0.0018 | 0.0015 | 0.0018 |
| 24. | 08:00-09:00 | 0.0017 | 0.0029 | 0.0014 | 0.0015 | 0.0017 | 0.0016 | 0.0034 |
| ค่าต่ำสุด | | 0.0015 | 0.0014 | 0.0014 | 0.0014 | 0.0017 | 0.0015 | 0.0013 |
| ค่าสูงสุด | | 0.0073 | 0.0050 | 0.0028 | 0.0031 | 0.0083 | 0.0055 | 0.0034 |
| ค่าเฉลี่ย | | 0.0025 | 0.0026 | 0.0019 | 0.0018 | 0.0026 | 0.0025 | 0.0017 |
| มาตรฐาน ⁽¹⁾ | | 0.17 | | | | | | |

มาตรฐาน : ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 33 (พ.ศ. 2552) (ค.ศ. 2009) เรื่องกำหนดมาตรฐานค่าก๊าซไนโตรเจนไดออกไซด์ในบรรยากาศโดยทั่วไป

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Report No. : R23-1541/4-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง

Type of Sample : Ambient Air Quality

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| อันดับ | เวลา | ผลการตรวจวัด | | | | | | |
|------------------------|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|
| | | มุมทิศตะวันออกเฉียงเหนือของพื้นที่นิคมฯ (บริษัท ไทยซอนต้า แมนแฟคเจอร์ จำกัด) | | | | | | |
| | | NO ₂ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 11:00-12:00 | 0.0036 | 0.0049 | 0.0065 | 0.0065 | 0.0039 | 0.0028 | 0.0024 |
| 2. | 12:00-13:00 | 0.0037 | 0.0065 | 0.0078 | 0.0053 | 0.0030 | 0.0033 | 0.0030 |
| 3. | 13:00-14:00 | 0.0034 | 0.0070 | 0.0069 | 0.0062 | 0.0033 | 0.0035 | 0.0041 |
| 4. | 14:00-15:00 | 0.0036 | 0.0075 | 0.0075 | 0.0054 | 0.0038 | 0.0034 | 0.0046 |
| 5. | 15:00-16:00 | 0.0034 | 0.0090 | 0.0078 | 0.0045 | 0.0037 | 0.0038 | 0.0043 |
| 6. | 16:00-17:00 | 0.0033 | 0.0090 | 0.0081 | 0.0050 | 0.0034 | 0.0047 | 0.0044 |
| 7. | 17:00-18:00 | 0.0040 | 0.0063 | 0.0088 | 0.0042 | 0.0040 | 0.0064 | 0.0055 |
| 8. | 18:00-19:00 | 0.0025 | 0.0067 | 0.0088 | 0.0038 | 0.0049 | 0.0066 | 0.0054 |
| 9. | 19:00-20:00 | 0.0027 | 0.0088 | 0.0082 | 0.0046 | 0.0048 | 0.0052 | 0.0054 |
| 10. | 20:00-21:00 | 0.0026 | 0.0066 | 0.0081 | 0.0065 | 0.0043 | 0.0039 | 0.0063 |
| 11. | 21:00-22:00 | 0.0027 | 0.0088 | 0.0033 | 0.0063 | 0.0044 | 0.0052 | 0.0055 |
| 12. | 22:00-23:00 | 0.0032 | 0.0086 | 0.0063 | 0.0063 | 0.0052 | 0.0055 | 0.0058 |
| 13. | 23:00-00:00 | 0.0039 | 0.0080 | 0.0050 | 0.0056 | 0.0054 | 0.0052 | 0.0064 |
| 14. | 00:00-01:00 | 0.0053 | 0.0063 | 0.0050 | 0.0028 | 0.0061 | 0.0042 | 0.0048 |
| 15. | 01:00-02:00 | 0.0052 | 0.0067 | 0.0050 | 0.0018 | 0.0054 | 0.0039 | 0.0042 |
| 16. | 02:00-03:00 | 0.0029 | 0.0088 | 0.0046 | 0.0016 | 0.0026 | 0.0050 | 0.0028 |
| 17. | 03:00-04:00 | 0.0041 | 0.0066 | 0.0042 | 0.0011 | 0.0022 | 0.0044 | 0.0025 |
| 18. | 04:00-05:00 | 0.0058 | 0.0053 | 0.0040 | 0.0010 | 0.0026 | 0.0042 | 0.0029 |
| 19. | 05:00-06:00 | 0.0062 | 0.0040 | 0.0040 | 0.0014 | 0.0027 | 0.0030 | 0.0034 |
| 20. | 06:00-07:00 | 0.0050 | 0.0036 | 0.0034 | 0.0025 | 0.0031 | 0.0027 | 0.0028 |
| 21. | 07:00-08:00 | 0.0053 | 0.0034 | 0.0038 | 0.0037 | 0.0034 | 0.0034 | 0.0022 |
| 22. | 08:00-09:00 | 0.0031 | 0.0033 | 0.0043 | 0.0055 | 0.0036 | 0.0021 | 0.0019 |
| 23. | 09:00-10:00 | 0.0037 | 0.0037 | 0.0053 | 0.0058 | 0.0034 | 0.0021 | 0.0030 |
| 24. | 10:00-11:00 | 0.0036 | 0.0055 | 0.0060 | 0.0047 | 0.0029 | 0.0022 | 0.0051 |
| ค่าต่ำสุด | | 0.0025 | 0.0033 | 0.0033 | 0.0010 | 0.0022 | 0.0021 | 0.0019 |
| ค่าสูงสุด | | 0.0062 | 0.0090 | 0.0088 | 0.0065 | 0.0061 | 0.0066 | 0.0064 |
| ค่าเฉลี่ย | | 0.0039 | 0.0065 | 0.0060 | 0.0042 | 0.0038 | 0.0040 | 0.0041 |
| มาตรฐาน ⁽¹⁾ | | 0.17 | | | | | | |

มาตรฐาน : ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 33 (พ.ศ. 2552) (ค.ศ. 2009) เรื่องกำหนดมาตรฐานค่าก๊าซไนโตรเจนไดออกไซด์ในบรรยากาศโดยทั่วไป

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/5-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Type of Sample : Ambient Air Quality

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| ลำดับ | เวลา | ผลการตรวจวัด | | | | | | |
|------------------------|-------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | บริเวณสำนักงานนิคมฯ ลาดกระบัง | | | | | | |
| | | SO ₂ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 10:00-11:00 | 0.0045 | 0.0044 | 0.0033 | 0.0043 | 0.0030 | 0.0024 | 0.0022 |
| 2. | 11:00-12:00 | 0.0049 | 0.0036 | 0.0033 | 0.0040 | 0.0028 | 0.0023 | 0.0026 |
| 3. | 12:00-13:00 | 0.0054 | 0.0041 | 0.0034 | 0.0033 | 0.0023 | 0.0023 | 0.0039 |
| 4. | 13:00-14:00 | 0.0033 | 0.0037 | 0.0037 | 0.0031 | 0.0016 | 0.0045 | 0.0029 |
| 5. | 14:00-15:00 | 0.0029 | 0.0034 | 0.0050 | 0.0027 | 0.0015 | 0.0048 | 0.0030 |
| 6. | 15:00-16:00 | 0.0025 | 0.0036 | 0.0020 | 0.0014 | 0.0033 | 0.0045 | 0.0025 |
| 7. | 16:00-17:00 | 0.0023 | 0.0033 | 0.0053 | 0.0017 | 0.0018 | 0.0028 | 0.0035 |
| 8. | 17:00-18:00 | 0.0023 | 0.0024 | 0.0052 | 0.0023 | 0.0015 | 0.0028 | 0.0028 |
| 9. | 18:00-19:00 | 0.0033 | 0.0039 | 0.0050 | 0.0022 | 0.0013 | 0.0024 | 0.0046 |
| 10. | 19:00-20:00 | 0.0040 | 0.0046 | 0.0037 | 0.0021 | 0.0015 | 0.0019 | 0.0030 |
| 11. | 20:00-21:00 | 0.0057 | 0.0039 | 0.0013 | 0.0021 | 0.0014 | 0.0021 | 0.0033 |
| 12. | 21:00-22:00 | 0.0030 | 0.0028 | 0.0030 | 0.0024 | 0.0021 | 0.0021 | 0.0032 |
| 13. | 22:00-23:00 | 0.0057 | 0.0035 | 0.0018 | 0.0019 | 0.0025 | 0.0026 | 0.0034 |
| 14. | 23:00-00:00 | 0.0054 | 0.0033 | 0.0017 | 0.0021 | 0.0027 | 0.0021 | 0.0038 |
| 15. | 00:00-01:00 | 0.0023 | 0.0031 | 0.0035 | 0.0030 | 0.0029 | 0.0048 | 0.0030 |
| 16. | 01:00-02:00 | 0.0042 | 0.0035 | 0.0041 | 0.0035 | 0.0025 | 0.0039 | 0.0036 |
| 17. | 02:00-03:00 | 0.0046 | 0.0026 | 0.0053 | 0.0034 | 0.0027 | 0.0024 | 0.0036 |
| 18. | 03:00-04:00 | 0.0026 | 0.0053 | 0.0050 | 0.0039 | 0.0025 | 0.0021 | 0.0032 |
| 19. | 04:00-05:00 | 0.0029 | 0.0050 | 0.0047 | 0.0046 | 0.0028 | 0.0033 | 0.0030 |
| 20. | 05:00-06:00 | 0.0043 | 0.0030 | 0.0031 | 0.0045 | 0.0020 | 0.0044 | 0.0029 |
| 21. | 06:00-07:00 | 0.0045 | 0.0034 | 0.0029 | 0.0028 | 0.0020 | 0.0056 | 0.0035 |
| 22. | 07:00-08:00 | 0.0043 | 0.0029 | 0.0033 | 0.0031 | 0.0021 | 0.0039 | 0.0027 |
| 23. | 08:00-09:00 | 0.0038 | 0.0032 | 0.0038 | 0.0030 | 0.0019 | 0.0038 | 0.0065 |
| 24. | 09:00-10:00 | 0.0043 | 0.0037 | 0.0038 | 0.0021 | 0.0023 | 0.0028 | 0.0013 |
| ค่าต่ำสุด | | 0.0023 | 0.0024 | 0.0013 | 0.0014 | 0.0013 | 0.0019 | 0.0013 |
| ค่าสูงสุด | | 0.0057 | 0.0053 | 0.0053 | 0.0046 | 0.0033 | 0.0056 | 0.0065 |
| ค่าเฉลี่ย | | 0.0039 | 0.0036 | 0.0036 | 0.0029 | 0.0022 | 0.0032 | 0.0032 |
| มาตรฐาน ⁽¹⁾ | | 0.30 | | | | | | |

มาตรฐาน: ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 12 (พ.ศ. 2538) (ค.ศ. 1995) และฉบับที่ 21 (พ.ศ. 2544) (ค.ศ. 2001) เรื่องกำหนดมาตรฐานค่าก๊าซซัลเฟอร์ไดออกไซด์ในบรรยากาศโดยทั่วไปในเวลา 1 ชั่วโมง

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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Thai Environmental Technic Limited

บริษัท เทคนิกล้างแอมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/6-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาหัว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Type of Sample : Ambient Air Quality

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| ลำดับ | เวลา | ผลการตรวจวัด | | | | | | |
|------------------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| | | วัดที่พาวาส (ศูนย์พัฒนาเด็กก่อนวัยเรียนที่พาวาสพัฒนา) | | | | | | |
| | | SO ₂ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 12:00-13:00 | 0.0014 | 0.0018 | 0.0015 | 0.0016 | 0.0016 | 0.0015 | 0.0055 |
| 2. | 13:00-14:00 | 0.0015 | 0.0016 | 0.0021 | 0.0015 | 0.0017 | 0.0016 | 0.0026 |
| 3. | 14:00-15:00 | 0.0014 | 0.0016 | 0.0028 | 0.0017 | 0.0018 | 0.0017 | 0.0027 |
| 4. | 15:00-16:00 | 0.0015 | 0.0048 | 0.0031 | 0.0027 | 0.0021 | 0.0014 | 0.0024 |
| 5. | 16:00-17:00 | 0.0015 | 0.0031 | 0.0029 | 0.0020 | 0.0017 | 0.0015 | 0.0017 |
| 6. | 17:00-18:00 | 0.0016 | 0.0022 | 0.0023 | 0.0017 | 0.0016 | 0.0019 | 0.0016 |
| 7. | 18:00-19:00 | 0.0018 | 0.0021 | 0.0018 | 0.0016 | 0.0017 | 0.0019 | 0.0021 |
| 8. | 19:00-20:00 | 0.0016 | 0.0033 | 0.0014 | 0.0016 | 0.0024 | 0.0021 | 0.0050 |
| 9. | 20:00-21:00 | 0.0023 | 0.0018 | 0.0041 | 0.0016 | 0.0028 | 0.0023 | 0.0018 |
| 10. | 21:00-22:00 | 0.0020 | 0.0022 | 0.0017 | 0.0018 | 0.0036 | 0.0023 | 0.0015 |
| 11. | 22:00-23:00 | 0.0016 | 0.0017 | 0.0016 | 0.0020 | 0.0024 | 0.0073 | 0.0016 |
| 12. | 23:00-00:00 | 0.0014 | 0.0033 | 0.0016 | 0.0028 | 0.0020 | 0.0023 | 0.0016 |
| 13. | 00:00-01:00 | 0.0013 | 0.0018 | 0.0015 | 0.0020 | 0.0041 | 0.0023 | 0.0021 |
| 14. | 01:00-02:00 | 0.0014 | 0.0018 | 0.0014 | 0.0016 | 0.0039 | 0.0018 | 0.0028 |
| 15. | 02:00-03:00 | 0.0013 | 0.0019 | 0.0015 | 0.0015 | 0.0027 | 0.0018 | 0.0048 |
| 16. | 03:00-04:00 | 0.0015 | 0.0019 | 0.0014 | 0.0016 | 0.0029 | 0.0018 | 0.0029 |
| 17. | 04:00-05:00 | 0.0018 | 0.0017 | 0.0016 | 0.0016 | 0.0027 | 0.0016 | 0.0028 |
| 18. | 05:00-06:00 | 0.0034 | 0.0017 | 0.0037 | 0.0016 | 0.0019 | 0.0014 | 0.0045 |
| 19. | 06:00-07:00 | 0.0049 | 0.0017 | 0.0029 | 0.0015 | 0.0017 | 0.0015 | 0.0016 |
| 20. | 07:00-08:00 | 0.0046 | 0.0017 | 0.0022 | 0.0015 | 0.0015 | 0.0017 | 0.0017 |
| 21. | 08:00-09:00 | 0.0050 | 0.0019 | 0.0018 | 0.0015 | 0.0014 | 0.0019 | 0.0015 |
| 22. | 09:00-10:00 | 0.0025 | 0.0018 | 0.0020 | 0.0015 | 0.0015 | 0.0067 | 0.0016 |
| 23. | 10:00-11:00 | 0.0022 | 0.0017 | 0.0027 | 0.0016 | 0.0014 | 0.0049 | 0.0015 |
| 24. | 11:00-12:00 | 0.0016 | 0.0020 | 0.0021 | 0.0020 | 0.0016 | 0.0030 | 0.0014 |
| ค่าต่ำสุด | | 0.0013 | 0.0016 | 0.0014 | 0.0015 | 0.0014 | 0.0014 | 0.0014 |
| ค่าสูงสุด | | 0.0050 | 0.0048 | 0.0041 | 0.0028 | 0.0041 | 0.0073 | 0.0055 |
| ค่าเฉลี่ย | | 0.0021 | 0.0021 | 0.0022 | 0.0018 | 0.0022 | 0.0024 | 0.0025 |
| มาตรฐาน ⁽¹⁾ | | 0.30 | | | | | | |

มาตรฐาน: ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 12 (พ.ศ. 2538) (ค.ศ. 1995) และฉบับที่ 21 (พ.ศ. 2544) (ค.ศ. 2001) เรื่องกำหนดมาตรฐานค่าก๊าซซัลเฟอร์ไดออกไซด์ในบรรยากาศโดยทั่วไปในเวลา 1 ชั่วโมง

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/7-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาหัว เขตลาดกระบัง

Type of Sample : Ambient Air Quality

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| ลำดับ | เวลา | ผลการตรวจวัด | | | | | | |
|------------------------|-------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | วัดบึงบัว (โรงเรียนวัดบึงบัว) | | | | | | |
| | | SO ₂ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 09:00-10:00 | 0.0058 | 0.0024 | 0.0055 | 0.0027 | 0.0015 | 0.0026 | 0.0031 |
| 2. | 10:00-11:00 | 0.0050 | 0.0025 | 0.0051 | 0.0018 | 0.0016 | 0.0025 | 0.0042 |
| 3. | 11:00-12:00 | 0.0051 | 0.0028 | 0.0053 | 0.0019 | 0.0014 | 0.0027 | 0.0049 |
| 4. | 12:00-13:00 | 0.0051 | 0.0026 | 0.0046 | 0.0022 | 0.0042 | 0.0025 | 0.0036 |
| 5. | 13:00-14:00 | 0.0051 | 0.0021 | 0.0064 | 0.0019 | 0.0022 | 0.0021 | 0.0011 |
| 6. | 14:00-15:00 | 0.0055 | 0.0032 | 0.0025 | 0.0009 | 0.0058 | 0.0018 | 0.0022 |
| 7. | 15:00-16:00 | 0.0046 | 0.0040 | 0.0023 | 0.0068 | 0.0074 | 0.0019 | 0.0062 |
| 8. | 16:00-17:00 | 0.0044 | 0.0044 | 0.0016 | 0.0049 | 0.0085 | 0.0022 | 0.0066 |
| 9. | 17:00-18:00 | 0.0044 | 0.0032 | 0.0021 | 0.0014 | 0.0055 | 0.0027 | 0.0029 |
| 10. | 18:00-19:00 | 0.0030 | 0.0014 | 0.0027 | 0.0010 | 0.0046 | 0.0020 | 0.0018 |
| 11. | 19:00-20:00 | 0.0014 | 0.0022 | 0.0026 | 0.0030 | 0.0044 | 0.0020 | 0.0060 |
| 12. | 20:00-21:00 | 0.0009 | 0.0020 | 0.0024 | 0.0047 | 0.0044 | 0.0016 | 0.0045 |
| 13. | 21:00-22:00 | 0.0015 | 0.0018 | 0.0022 | 0.0035 | 0.0042 | 0.0017 | 0.0045 |
| 14. | 22:00-23:00 | 0.0015 | 0.0018 | 0.0022 | 0.0016 | 0.0051 | 0.0016 | 0.0029 |
| 15. | 23:00-00:00 | 0.0017 | 0.0020 | 0.0018 | 0.0018 | 0.0057 | 0.0012 | 0.0026 |
| 16. | 00:00-01:00 | 0.0015 | 0.0020 | 0.0019 | 0.0047 | 0.0054 | 0.0010 | 0.0026 |
| 17. | 01:00-02:00 | 0.0016 | 0.0020 | 0.0023 | 0.0035 | 0.0024 | 0.0014 | 0.0026 |
| 18. | 02:00-03:00 | 0.0017 | 0.0021 | 0.0025 | 0.0016 | 0.0024 | 0.0038 | 0.0026 |
| 19. | 03:00-04:00 | 0.0013 | 0.0043 | 0.0032 | 0.0018 | 0.0018 | 0.0033 | 0.0025 |
| 20. | 04:00-05:00 | 0.0012 | 0.0037 | 0.0034 | 0.0011 | 0.0021 | 0.0050 | 0.0024 |
| 21. | 05:00-06:00 | 0.0023 | 0.0030 | 0.0035 | 0.0009 | 0.0020 | 0.0037 | 0.0024 |
| 22. | 06:00-07:00 | 0.0035 | 0.0047 | 0.0029 | 0.0014 | 0.0019 | 0.0037 | 0.0025 |
| 23. | 07:00-08:00 | 0.0025 | 0.0037 | 0.0022 | 0.0014 | 0.0019 | 0.0043 | 0.0025 |
| 24. | 08:00-09:00 | 0.0021 | 0.0042 | 0.0009 | 0.0010 | 0.0026 | 0.0049 | 0.0019 |
| ค่าต่ำสุด | | 0.0009 | 0.0014 | 0.0009 | 0.0009 | 0.0014 | 0.0010 | 0.0011 |
| ค่าสูงสุด | | 0.0058 | 0.0047 | 0.0064 | 0.0068 | 0.0085 | 0.0050 | 0.0066 |
| ค่าเฉลี่ย | | 0.0030 | 0.0028 | 0.0030 | 0.0024 | 0.0037 | 0.0026 | 0.0033 |
| มาตรฐาน ⁽¹⁾ | | 0.30 | | | | | | |

มาตรฐาน: ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 12 (พ.ศ. 2538) (ค.ศ. 1995) และฉบับที่ 21 (พ.ศ. 2544) (ค.ศ. 2001) เรื่องกำหนดมาตรฐานค่าก๊าซซัลเฟอร์ไดออกไซด์ในบรรยากาศโดยทั่วไปในเวลา 1 ชั่วโมง

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/8-30 Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย
Report Date : June 6, 2023 Location : การนิคมอุตสาหกรรมลาดกระบัง
Sampling Date : May 23-30, 2023 Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
Type of Sample : Ambient Air Quality กรุงเทพมหานคร 10520
Job No. : S660394/May Contact : Tel. (02) 326 0221-3, 326 0341
Fax. (02) 326 0220

| ลำดับ | เวลา | ผลการตรวจวัด | | | | | | |
|------------------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| | | มุมทิศตะวันออกเฉียงเหนือของพื้นที่นิคมฯ (บริษัท ไทยฮอนด้า แมนูแฟคเจอร์ จำกัด) | | | | | | |
| | | SO ₂ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 11:00-12:00 | 0.0025 | 0.0026 | 0.0023 | 0.0034 | 0.0026 | 0.0022 | 0.0028 |
| 2. | 12:00-13:00 | 0.0013 | 0.0029 | 0.0024 | 0.0037 | 0.0033 | 0.0021 | 0.0031 |
| 3. | 13:00-14:00 | 0.0011 | 0.0043 | 0.0023 | 0.0050 | 0.0024 | 0.0021 | 0.0030 |
| 4. | 14:00-15:00 | 0.0013 | 0.0045 | 0.0023 | 0.0060 | 0.0024 | 0.0024 | 0.0021 |
| 5. | 15:00-16:00 | 0.0030 | 0.0043 | 0.0045 | 0.0053 | 0.0019 | 0.0019 | 0.0030 |
| 6. | 16:00-17:00 | 0.0018 | 0.0038 | 0.0048 | 0.0052 | 0.0021 | 0.0021 | 0.0028 |
| 7. | 17:00-18:00 | 0.0017 | 0.0043 | 0.0045 | 0.0050 | 0.0021 | 0.0030 | 0.0023 |
| 8. | 18:00-19:00 | 0.0035 | 0.0053 | 0.0028 | 0.0037 | 0.0026 | 0.0035 | 0.0016 |
| 9. | 19:00-20:00 | 0.0041 | 0.0050 | 0.0028 | 0.0030 | 0.0021 | 0.0034 | 0.0015 |
| 10. | 20:00-21:00 | 0.0053 | 0.0030 | 0.0045 | 0.0033 | 0.0048 | 0.0039 | 0.0033 |
| 11. | 21:00-22:00 | 0.0050 | 0.0034 | 0.0049 | 0.0032 | 0.0039 | 0.0046 | 0.0018 |
| 12. | 22:00-23:00 | 0.0047 | 0.0029 | 0.0054 | 0.0034 | 0.0024 | 0.0045 | 0.0015 |
| 13. | 23:00-00:00 | 0.0031 | 0.0032 | 0.0029 | 0.0038 | 0.0021 | 0.0033 | 0.0013 |
| 14. | 00:00-01:00 | 0.0029 | 0.0037 | 0.0019 | 0.0030 | 0.0033 | 0.0029 | 0.0015 |
| 15. | 01:00-02:00 | 0.0033 | 0.0033 | 0.0030 | 0.0036 | 0.0044 | 0.0025 | 0.0014 |
| 16. | 02:00-03:00 | 0.0038 | 0.0035 | 0.0035 | 0.0036 | 0.0056 | 0.0023 | 0.0021 |
| 17. | 03:00-04:00 | 0.0038 | 0.0033 | 0.0025 | 0.0032 | 0.0031 | 0.0023 | 0.0025 |
| 18. | 04:00-05:00 | 0.0043 | 0.0044 | 0.0028 | 0.0030 | 0.0035 | 0.0033 | 0.0027 |
| 19. | 05:00-06:00 | 0.0040 | 0.0036 | 0.0046 | 0.0029 | 0.0026 | 0.0040 | 0.0029 |
| 20. | 06:00-07:00 | 0.0033 | 0.0041 | 0.0039 | 0.0035 | 0.0027 | 0.0057 | 0.0025 |
| 21. | 07:00-08:00 | 0.0031 | 0.0037 | 0.0046 | 0.0039 | 0.0027 | 0.0030 | 0.0027 |
| 22. | 08:00-09:00 | 0.0013 | 0.0034 | 0.0039 | 0.0038 | 0.0014 | 0.0057 | 0.0025 |
| 23. | 09:00-10:00 | 0.0042 | 0.0021 | 0.0028 | 0.0028 | 0.0017 | 0.0054 | 0.0028 |
| 24. | 10:00-11:00 | 0.0046 | 0.0019 | 0.0033 | 0.0022 | 0.0023 | 0.0036 | 0.0020 |
| ค่าต่ำสุด | | 0.0011 | 0.0019 | 0.0019 | 0.0022 | 0.0014 | 0.0019 | 0.0013 |
| ค่าสูงสุด | | 0.0053 | 0.0053 | 0.0054 | 0.0060 | 0.0056 | 0.0057 | 0.0033 |
| ค่าเฉลี่ย | | 0.0032 | 0.0036 | 0.0035 | 0.0037 | 0.0028 | 0.0033 | 0.0023 |
| มาตรฐาน ⁽¹⁾ | | 0.30 | | | | | | |

มาตรฐาน: ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 12 (พ.ศ. 2538) (ค.ศ. 1995) และฉบับที่ 21 (พ.ศ. 2544) (ค.ศ. 2001) เรื่องกำหนดมาตรฐานค่าก๊าซซัลเฟอร์ไดออกไซด์ในบรรยากาศโดยทั่วไปในเวลา 1 ชั่วโมง

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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Thai Environmental Technic Limited

บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/9-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Type of Sample : Ambient Air Quality

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| Item | Sampling Date | Result | |
|-------------------------|---------------|-------------------------------|--|
| | | SO ₂ (24 hr) (ppm) | |
| | | บริเวณสำนักงานนิคมฯ ลาดกระบัง | วัดทิพพาวาส (ศูนย์พัฒนาเด็กก่อนวัยเรียนทิพพาวาสพัฒนา) |
| 1. | 23-24/05/23 | 0.0039 | 0.0021 |
| 2. | 24-25/05/23 | 0.0036 | 0.0021 |
| 3. | 25-26/05/23 | 0.0036 | 0.0022 |
| 4. | 26-27/05/23 | 0.0029 | 0.0018 |
| 5. | 27-28/05/23 | 0.0022 | 0.0022 |
| 6. | 28-29/05/23 | 0.0032 | 0.0024 |
| 7. | 29-30/05/23 | 0.0032 | 0.0025 |
| Standard ⁽¹⁾ | | 0.12 | |

มาตรฐาน : ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 10 (พ.ศ. 2538) (ค.ศ. 1995) และฉบับที่ 24 (พ.ศ. 2547) (ค.ศ. 2004) เรื่องกำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป

หมายเหตุ : อ้างอิงวิธีการตรวจวัดตามประกาศกรมควบคุมมลพิษ เรื่องเครื่องวัดค่าเฉลี่ยของก๊าซหรือฝุ่นละอองในบรรยากาศโดยทั่วไประบบอื่นหรือวิธีอื่นที่กรมควบคุมมลพิษเห็นชอบ (พ.ศ. 2562) (ค.ศ. 2019)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/10-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Type of Sample : Ambient Air Quality

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| Item | Sampling Date | Result | |
|-------------------------|---------------|----------------------------------|--|
| | | SO ₂ (24 hr) (ppm) | |
| | | วัดบึงบัว (โรงเรียนวัดบึงบัว) | มุมทิศตะวันออกเฉียงเหนือของพื้นที่นิคมฯ (บริษัท ไทยฮอนด้า แมนูแฟคเจอร์ จำกัด) |
| 1. | 23-24/05/23 | 0.0030 | 0.0032 |
| 2. | 24-25/05/23 | 0.0028 | 0.0036 |
| 3. | 25-26/05/23 | 0.0030 | 0.0035 |
| 4. | 26-27/05/23 | 0.0024 | 0.0037 |
| 5. | 27-28/05/23 | 0.0037 | 0.0028 |
| 6. | 28-29/05/23 | 0.0026 | 0.0033 |
| 7. | 29-30/05/23 | 0.0033 | 0.0023 |
| Standard ⁽¹⁾ | | 0.12 | |

มาตรฐาน : ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 10 (พ.ศ. 2538) (ค.ศ. 1995) และฉบับที่ 24 (พ.ศ. 2547) (ค.ศ. 2004) เรื่องกำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป

หมายเหตุ : อ้างอิงวิธีการตรวจวัดตามประกาศกรมควบคุมมลพิษ เรื่องเครื่องวัดค่าเฉลี่ยของก๊าซหรือฝุ่นละอองในบรรยากาศโดยทั่วไประบบอื่นหรือวิธีอื่นที่กรมควบคุมมลพิษเห็นชอบ (พ.ศ. 2562) (ค.ศ. 2019)

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/11-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง

Type of Sample : Ambient Air Quality

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| อันดับ | เวลา | ผลการตรวจวัด | | | | | | |
|-----------|-------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | บริเวณสำนักงานนิคมฯ ลาดกระบัง | | | | | | |
| | | O ₃ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 10:00-11:00 | 0.0038 | 0.0076 | 0.0043 | 0.0028 | 0.0019 | 0.0017 | 0.0011 |
| 2. | 11:00-12:00 | 0.0027 | 0.0058 | 0.0022 | 0.0018 | 0.0022 | 0.0037 | 0.0016 |
| 3. | 12:00-13:00 | 0.0049 | 0.0036 | 0.0034 | 0.0023 | 0.0030 | 0.0055 | 0.0036 |
| 4. | 13:00-14:00 | 0.0011 | 0.0017 | 0.0033 | 0.0038 | 0.0037 | 0.0057 | 0.0021 |
| 5. | 14:00-15:00 | 0.0028 | 0.0020 | 0.0032 | 0.0024 | 0.0037 | 0.0041 | 0.0011 |
| 6. | 15:00-16:00 | 0.0032 | 0.0029 | 0.0029 | 0.0030 | 0.0039 | 0.0029 | 0.0010 |
| 7. | 16:00-17:00 | 0.0038 | 0.0037 | 0.0023 | 0.0041 | 0.0036 | 0.0028 | 0.0038 |
| 8. | 17:00-18:00 | 0.0039 | 0.0034 | 0.0018 | 0.0046 | 0.0061 | 0.0032 | 0.0009 |
| 9. | 18:00-19:00 | 0.0020 | 0.0038 | 0.0018 | 0.0024 | 0.0035 | 0.0023 | 0.0008 |
| 10. | 19:00-20:00 | 0.0020 | 0.0039 | 0.0021 | 0.0010 | 0.0035 | 0.0021 | 0.0014 |
| 11. | 20:00-21:00 | 0.0010 | 0.0034 | 0.0023 | 0.0009 | 0.0028 | 0.0026 | 0.0012 |
| 12. | 21:00-22:00 | 0.0014 | 0.0027 | 0.0028 | 0.0008 | 0.0056 | 0.0025 | 0.0010 |
| 13. | 22:00-23:00 | 0.0020 | 0.0020 | 0.0015 | 0.0014 | 0.0032 | 0.0023 | 0.0015 |
| 14. | 23:00-00:00 | 0.0025 | 0.0025 | 0.0013 | 0.0011 | 0.0029 | 0.0048 | 0.0027 |
| 15. | 00:00-01:00 | 0.0019 | 0.0026 | 0.0015 | 0.0010 | 0.0029 | 0.0022 | 0.0012 |
| 16. | 01:00-02:00 | 0.0013 | 0.0027 | 0.0017 | 0.0026 | 0.0027 | 0.0013 | 0.0013 |
| 17. | 02:00-03:00 | 0.0011 | 0.0025 | 0.0013 | 0.0017 | 0.0034 | 0.0012 | 0.0014 |
| 18. | 03:00-04:00 | 0.0012 | 0.0034 | 0.0012 | 0.0019 | 0.0029 | 0.0009 | 0.0013 |
| 19. | 04:00-05:00 | 0.0016 | 0.0021 | 0.0021 | 0.0021 | 0.0023 | 0.0009 | 0.0022 |
| 20. | 05:00-06:00 | 0.0020 | 0.0019 | 0.0013 | 0.0016 | 0.0029 | 0.0010 | 0.0025 |
| 21. | 06:00-07:00 | 0.0016 | 0.0015 | 0.0026 | 0.0014 | 0.0056 | 0.0009 | 0.0024 |
| 22. | 07:00-08:00 | 0.0017 | 0.0033 | 0.0050 | 0.0018 | 0.0030 | 0.0020 | 0.0024 |
| 23. | 08:00-09:00 | 0.0030 | 0.0043 | 0.0049 | 0.0018 | 0.0037 | 0.0037 | 0.0036 |
| 24. | 09:00-10:00 | 0.0044 | 0.0041 | 0.0055 | 0.0012 | 0.0057 | 0.0018 | 0.0024 |
| ค่าต่ำสุด | | 0.0010 | 0.0015 | 0.0012 | 0.0008 | 0.0019 | 0.0009 | 0.0008 |
| ค่าสูงสุด | | 0.0049 | 0.0076 | 0.0055 | 0.0046 | 0.0061 | 0.0057 | 0.0038 |
| ค่าเฉลี่ย | | 0.0024 | 0.0032 | 0.0026 | 0.0021 | 0.0035 | 0.0026 | 0.0019 |
| มาตรฐาน | | 0.10 | | | | | | |

มาตรฐาน : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 28 (พ.ศ. 2550) เรื่องกำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

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ต้นฉบับ

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/12-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Type of Sample : Ambient Air Quality

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| อันดับ | เวลา | ผลการตรวจวัด | | | | | | |
|-----------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| | | วัดหิพพาวาส (ศูนย์พัฒนาเด็กอ่อนก่อนวัยเรียนหิพพาวาสพัฒนา) | | | | | | |
| | | O ₃ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 12:00-13:00 | 0.0015 | 0.0055 | 0.0018 | 0.0020 | 0.0015 | 0.0021 | 0.0020 |
| 2. | 13:00-14:00 | 0.0018 | 0.0026 | 0.0022 | 0.0015 | 0.0016 | 0.0050 | 0.0018 |
| 3. | 14:00-15:00 | 0.0034 | 0.0027 | 0.0017 | 0.0015 | 0.0015 | 0.0018 | 0.0019 |
| 4. | 15:00-16:00 | 0.0049 | 0.0028 | 0.0033 | 0.0015 | 0.0014 | 0.0015 | 0.0019 |
| 5. | 16:00-17:00 | 0.0046 | 0.0048 | 0.0018 | 0.0016 | 0.0015 | 0.0016 | 0.0017 |
| 6. | 17:00-18:00 | 0.0050 | 0.0029 | 0.0036 | 0.0020 | 0.0021 | 0.0016 | 0.0017 |
| 7. | 18:00-19:00 | 0.0037 | 0.0027 | 0.0024 | 0.0025 | 0.0028 | 0.0021 | 0.0017 |
| 8. | 19:00-20:00 | 0.0029 | 0.0020 | 0.0020 | 0.0022 | 0.0031 | 0.0017 | 0.0028 |
| 9. | 20:00-21:00 | 0.0022 | 0.0017 | 0.0041 | 0.0016 | 0.0029 | 0.0019 | 0.0045 |
| 10. | 21:00-22:00 | 0.0018 | 0.0016 | 0.0039 | 0.0018 | 0.0023 | 0.0018 | 0.0016 |
| 11. | 22:00-23:00 | 0.0020 | 0.0016 | 0.0027 | 0.0016 | 0.0018 | 0.0017 | 0.0015 |
| 12. | 23:00-00:00 | 0.0027 | 0.0016 | 0.0029 | 0.0016 | 0.0014 | 0.0020 | 0.0016 |
| 13. | 00:00-01:00 | 0.0021 | 0.0018 | 0.0027 | 0.0015 | 0.0041 | 0.0021 | 0.0045 |
| 14. | 01:00-02:00 | 0.0016 | 0.0020 | 0.0019 | 0.0014 | 0.0017 | 0.0023 | 0.0016 |
| 15. | 02:00-03:00 | 0.0015 | 0.0015 | 0.0017 | 0.0015 | 0.0019 | 0.0023 | 0.0016 |
| 16. | 03:00-04:00 | 0.0017 | 0.0017 | 0.0014 | 0.0014 | 0.0019 | 0.0073 | 0.0020 |
| 17. | 04:00-05:00 | 0.0016 | 0.0019 | 0.0015 | 0.0016 | 0.0016 | 0.0023 | 0.0016 |
| 18. | 05:00-06:00 | 0.0015 | 0.0027 | 0.0014 | 0.0015 | 0.0014 | 0.0023 | 0.0017 |
| 19. | 06:00-07:00 | 0.0016 | 0.0013 | 0.0015 | 0.0016 | 0.0013 | 0.0018 | 0.0018 |
| 20. | 07:00-08:00 | 0.0016 | 0.0028 | 0.0015 | 0.0017 | 0.0014 | 0.0018 | 0.0021 |
| 21. | 08:00-09:00 | 0.0016 | 0.0031 | 0.0016 | 0.0014 | 0.0013 | 0.0018 | 0.0017 |
| 22. | 09:00-10:00 | 0.0015 | 0.0022 | 0.0018 | 0.0015 | 0.0024 | 0.0016 | 0.0016 |
| 23. | 10:00-11:00 | 0.0049 | 0.0021 | 0.0016 | 0.0016 | 0.0017 | 0.0014 | 0.0017 |
| 24. | 11:00-12:00 | 0.0030 | 0.0033 | 0.0023 | 0.0017 | 0.0016 | 0.0028 | 0.0024 |
| ค่าต่ำสุด | | 0.0015 | 0.0013 | 0.0014 | 0.0014 | 0.0013 | 0.0014 | 0.0015 |
| ค่าสูงสุด | | 0.0050 | 0.0055 | 0.0041 | 0.0025 | 0.0041 | 0.0073 | 0.0045 |
| ค่าเฉลี่ย | | 0.0025 | 0.0025 | 0.0022 | 0.0017 | 0.0019 | 0.0023 | 0.0020 |
| มาตรฐาน | | 0.10 | | | | | | |

มาตรฐาน : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 28 (พ.ศ. 2550) เรื่องกำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/13-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง

Type of Sample : Ambient Air Quality

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| อันดับ | เวลา | วัดบึงบัว (โรงเรียนวัดบึงบัว) | | | | | | |
|-----------|-------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | O ₃ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 09:00-10:00 | 0.0018 | 0.0024 | 0.0037 | 0.0050 | 0.0021 | 0.0011 | 0.0011 |
| 2. | 10:00-11:00 | 0.0049 | 0.0015 | 0.0030 | 0.0037 | 0.0027 | 0.0027 | 0.0022 |
| 3. | 11:00-12:00 | 0.0014 | 0.0015 | 0.0047 | 0.0037 | 0.0026 | 0.0024 | 0.0046 |
| 4. | 12:00-13:00 | 0.0010 | 0.0046 | 0.0037 | 0.0043 | 0.0024 | 0.0018 | 0.0024 |
| 5. | 13:00-14:00 | 0.0030 | 0.0044 | 0.0042 | 0.0049 | 0.0022 | 0.0010 | 0.0020 |
| 6. | 14:00-15:00 | 0.0047 | 0.0022 | 0.0055 | 0.0031 | 0.0022 | 0.0021 | 0.0045 |
| 7. | 15:00-16:00 | 0.0035 | 0.0026 | 0.0051 | 0.0042 | 0.0018 | 0.0011 | 0.0045 |
| 8. | 16:00-17:00 | 0.0016 | 0.0029 | 0.0053 | 0.0049 | 0.0019 | 0.0011 | 0.0035 |
| 9. | 17:00-18:00 | 0.0018 | 0.0018 | 0.0025 | 0.0036 | 0.0023 | 0.0055 | 0.0025 |
| 10. | 18:00-19:00 | 0.0047 | 0.0021 | 0.0021 | 0.0029 | 0.0025 | 0.0046 | 0.0021 |
| 11. | 19:00-20:00 | 0.0035 | 0.0032 | 0.0018 | 0.0026 | 0.0032 | 0.0044 | 0.0024 |
| 12. | 20:00-21:00 | 0.0016 | 0.0040 | 0.0019 | 0.0026 | 0.0034 | 0.0044 | 0.0025 |
| 13. | 21:00-22:00 | 0.0018 | 0.0044 | 0.0022 | 0.0026 | 0.0035 | 0.0030 | 0.0028 |
| 14. | 22:00-23:00 | 0.0011 | 0.0032 | 0.0027 | 0.0026 | 0.0029 | 0.0014 | 0.0026 |
| 15. | 23:00-00:00 | 0.0009 | 0.0014 | 0.0020 | 0.0025 | 0.0022 | 0.0009 | 0.0024 |
| 16. | 00:00-01:00 | 0.0014 | 0.0022 | 0.0020 | 0.0024 | 0.0009 | 0.0015 | 0.0024 |
| 17. | 01:00-02:00 | 0.0014 | 0.0020 | 0.0016 | 0.0024 | 0.0027 | 0.0015 | 0.0018 |
| 18. | 02:00-03:00 | 0.0010 | 0.0018 | 0.0017 | 0.0025 | 0.0018 | 0.0017 | 0.0021 |
| 19. | 03:00-04:00 | 0.0015 | 0.0018 | 0.0016 | 0.0025 | 0.0019 | 0.0015 | 0.0020 |
| 20. | 04:00-05:00 | 0.0016 | 0.0020 | 0.0012 | 0.0019 | 0.0022 | 0.0016 | 0.0019 |
| 21. | 05:00-06:00 | 0.0014 | 0.0020 | 0.0010 | 0.0022 | 0.0019 | 0.0017 | 0.0019 |
| 22. | 06:00-07:00 | 0.0042 | 0.0020 | 0.0014 | 0.0025 | 0.0009 | 0.0013 | 0.0026 |
| 23. | 07:00-08:00 | 0.0022 | 0.0021 | 0.0038 | 0.0023 | 0.0044 | 0.0012 | 0.0026 |
| 24. | 08:00-09:00 | 0.0018 | 0.0043 | 0.0033 | 0.0016 | 0.0042 | 0.0023 | 0.0025 |
| ค่าต่ำสุด | | 0.0009 | 0.0014 | 0.0010 | 0.0016 | 0.0009 | 0.0009 | 0.0011 |
| ค่าสูงสุด | | 0.0049 | 0.0046 | 0.0055 | 0.0050 | 0.0044 | 0.0055 | 0.0046 |
| ค่าเฉลี่ย | | 0.0022 | 0.0026 | 0.0028 | 0.0031 | 0.0024 | 0.0022 | 0.0026 |
| มาตรฐาน | | 0.10 | | | | | | |

มาตรฐาน : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 28 (พ.ศ. 2550) เรื่องกำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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TEST REPORT

Report No. : R23-1541/14-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง

Type of Sample : Ambient Air Quality

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| อันดับ | เวลา | ผลการตรวจวัด | | | | | | |
|-----------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| | | มุมทิศตะวันออกเฉียงเหนือของพื้นที่นิคมฯ (บริษัท ไทยซอนต้า แมนูแฟคเจอร์ จำกัด) | | | | | | |
| | | O ₃ (ppm) | | | | | | |
| | | 23-24/05/23 | 24-25/05/23 | 25-26/05/23 | 26-27/05/23 | 27-28/05/23 | 28-29/05/23 | 29-30/05/23 |
| 1. | 11:00-12:00 | 0.0036 | 0.0013 | 0.0017 | 0.0073 | 0.0021 | 0.0016 | 0.0028 |
| 2. | 12:00-13:00 | 0.0024 | 0.0015 | 0.0014 | 0.0023 | 0.0050 | 0.0017 | 0.0020 |
| 3. | 13:00-14:00 | 0.0020 | 0.0018 | 0.0015 | 0.0023 | 0.0018 | 0.0024 | 0.0016 |
| 4. | 14:00-15:00 | 0.0041 | 0.0034 | 0.0016 | 0.0018 | 0.0015 | 0.0028 | 0.0015 |
| 5. | 15:00-16:00 | 0.0039 | 0.0049 | 0.0017 | 0.0018 | 0.0016 | 0.0046 | 0.0016 |
| 6. | 16:00-17:00 | 0.0027 | 0.0015 | 0.0015 | 0.0018 | 0.0016 | 0.0030 | 0.0016 |
| 7. | 17:00-18:00 | 0.0029 | 0.0015 | 0.0016 | 0.0016 | 0.0021 | 0.0037 | 0.0016 |
| 8. | 18:00-19:00 | 0.0027 | 0.0015 | 0.0015 | 0.0014 | 0.0028 | 0.0029 | 0.0023 |
| 9. | 19:00-20:00 | 0.0019 | 0.0015 | 0.0014 | 0.0015 | 0.0018 | 0.0022 | 0.0048 |
| 10. | 20:00-21:00 | 0.0017 | 0.0016 | 0.0015 | 0.0017 | 0.0029 | 0.0018 | 0.0031 |
| 11. | 21:00-22:00 | 0.0014 | 0.0020 | 0.0021 | 0.0019 | 0.0028 | 0.0020 | 0.0022 |
| 12. | 22:00-23:00 | 0.0015 | 0.0025 | 0.0028 | 0.0037 | 0.0045 | 0.0027 | 0.0021 |
| 13. | 23:00-00:00 | 0.0014 | 0.0022 | 0.0031 | 0.0019 | 0.0016 | 0.0021 | 0.0033 |
| 14. | 00:00-01:00 | 0.0015 | 0.0016 | 0.0029 | 0.0018 | 0.0015 | 0.0016 | 0.0018 |
| 15. | 01:00-02:00 | 0.0015 | 0.0018 | 0.0023 | 0.0017 | 0.0016 | 0.0015 | 0.0022 |
| 16. | 02:00-03:00 | 0.0016 | 0.0016 | 0.0018 | 0.0020 | 0.0045 | 0.0017 | 0.0017 |
| 17. | 03:00-04:00 | 0.0018 | 0.0016 | 0.0014 | 0.0049 | 0.0016 | 0.0027 | 0.0033 |
| 18. | 04:00-05:00 | 0.0016 | 0.0015 | 0.0041 | 0.0030 | 0.0016 | 0.0020 | 0.0018 |
| 19. | 05:00-06:00 | 0.0023 | 0.0014 | 0.0017 | 0.0055 | 0.0020 | 0.0017 | 0.0018 |
| 20. | 06:00-07:00 | 0.0020 | 0.0015 | 0.0019 | 0.0026 | 0.0016 | 0.0016 | 0.0019 |
| 21. | 07:00-08:00 | 0.0016 | 0.0014 | 0.0019 | 0.0027 | 0.0017 | 0.0016 | 0.0019 |
| 22. | 08:00-09:00 | 0.0014 | 0.0016 | 0.0021 | 0.0024 | 0.0018 | 0.0016 | 0.0017 |
| 23. | 09:00-10:00 | 0.0013 | 0.0015 | 0.0023 | 0.0017 | 0.0021 | 0.0018 | 0.0017 |
| 24. | 10:00-11:00 | 0.0014 | 0.0016 | 0.0023 | 0.0016 | 0.0017 | 0.0020 | 0.0017 |
| ค่าต่ำสุด | | 0.0013 | 0.0013 | 0.0014 | 0.0014 | 0.0015 | 0.0015 | 0.0015 |
| ค่าสูงสุด | | 0.0041 | 0.0049 | 0.0041 | 0.0073 | 0.0050 | 0.0046 | 0.0048 |
| ค่าเฉลี่ย | | 0.0021 | 0.0018 | 0.0020 | 0.0025 | 0.0022 | 0.0022 | 0.0022 |
| มาตรฐาน | | 0.10 | | | | | | |

มาตรฐาน : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 28 (พ.ศ. 2550) เรื่องกำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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TEST REPORT

Report No. : R23-1541/15-30

Report Date : June 6, 2023

Sampling Date : May 23-30, 2023

Type of Sample : WS & WD

Job No. : S660394/May

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Location : การนิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| ลำดับ | เวลา | บริเวณสำนักงานนิคมฯ ลาดกระบัง | | | | | | | |
|-----------|-------|-------------------------------|----------|-----------------------------|----------|-----------------------------|----------|-----------------------------|----------|
| | | 23-24/05/23 | | 24-25/05/23 | | 25-26/05/23 | | 26-27/05/23 | |
| | | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม |
| 1. | 10:00 | 0.4 | WSW | 0.0 | S | 0.0 | WNW | 0.4 | S |
| 2. | 11:00 | 0.4 | W | 0.4 | WNW | 0.0 | WNW | 0.0 | S |
| 3. | 12:00 | 0.4 | W | 0.0 | WNW | 0.4 | W | 0.0 | S |
| 4. | 13:00 | 0.0 | WSW | 0.0 | WNW | 0.0 | W | 0.0 | S |
| 5. | 14:00 | 0.0 | WSW | 0.0 | WNW | 0.0 | W | 0.0 | S |
| 6. | 15:00 | 0.4 | WSW | 0.0 | WNW | 0.4 | WSW | 0.0 | S |
| 7. | 16:00 | 0.4 | WSW | 0.0 | WNW | 0.4 | WSW | 0.0 | S |
| 8. | 17:00 | 0.0 | SSE | 0.0 | WNW | 0.4 | SSE | 0.0 | S |
| 9. | 18:00 | 0.0 | SSE | 0.0 | WNW | 0.0 | SSE | 0.0 | S |
| 10. | 19:00 | 0.0 | SSE | 0.0 | WNW | 0.0 | SSE | 0.0 | S |
| 11. | 20:00 | 0.0 | SSE | 0.0 | WNW | 0.0 | SSE | 0.0 | S |
| 12. | 21:00 | 0.0 | SSE | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 13. | 22:00 | 0.0 | SSE | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 14. | 23:00 | 0.0 | SSE | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 15. | 00:00 | 0.0 | SSE | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 16. | 01:00 | 0.0 | NNW | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 17. | 02:00 | 0.0 | NNW | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 18. | 03:00 | 0.0 | NNW | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 19. | 04:00 | 0.0 | NW | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 20. | 05:00 | 0.0 | WNW | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 21. | 06:00 | 0.0 | WNW | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 22. | 07:00 | 0.4 | S | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 23. | 08:00 | 0.0 | S | 0.0 | WNW | 0.0 | S | 0.0 | S |
| 24. | 09:00 | 0.0 | S | 0.0 | WNW | 0.0 | S | 0.0 | S |
| ค่าเฉลี่ย | | 0.1 | - | 0.0 | - | 0.1 | - | 0.0 | - |

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/16-30

Report Date : June 6, 2023

Sampling Date : May 23-30, 2023

Type of Sample : WS & WD

Job No. : S660394/May

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Location : การนิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาหัว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| ลำดับ | เวลา | บริเวณสำนักงานนิคมฯ ลาดกระบัง | | | | | |
|-----------|-------|-------------------------------|----------|-----------------------------|----------|-----------------------------|----------|
| | | 27-28/05/23 | | 28-29/05/23 | | 29-30/05/23 | |
| | | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม |
| 1. | 10:00 | 1.3 | E | 0.9 | ENE | 0.4 | WSW |
| 2. | 11:00 | 1.3 | NE | 0.9 | SE | 0.9 | N |
| 3. | 12:00 | 1.3 | NE | 0.9 | SE | 1.3 | N |
| 4. | 13:00 | 1.3 | SE | 1.3 | NE | 2.2 | N |
| 5. | 14:00 | 0.9 | SE | 0.9 | N | 1.8 | N |
| 6. | 15:00 | 0.9 | SE | 0.9 | N | 1.8 | N |
| 7. | 16:00 | 0.9 | SE | 0.9 | N | 1.3 | N |
| 8. | 17:00 | 0.4 | SE | 0.4 | NNW | 0.9 | N |
| 9. | 18:00 | 0.0 | ESE | 0.4 | N | 0.4 | N |
| 10. | 19:00 | 0.0 | ESE | 0.0 | NNW | 0.0 | NNE |
| 11. | 20:00 | 0.0 | ESE | 0.0 | NNW | 0.4 | N |
| 12. | 21:00 | 0.0 | ESE | 0.0 | NNW | 1.3 | N |
| 13. | 22:00 | 0.0 | ESE | 0.0 | NNW | 0.9 | N |
| 14. | 23:00 | 0.0 | ESE | 0.0 | NNW | 1.3 | N |
| 15. | 00:00 | 0.0 | ESE | 0.0 | NNW | 0.4 | N |
| 16. | 01:00 | 0.0 | ESE | 0.0 | NNW | 0.4 | N |
| 17. | 02:00 | 0.0 | ESE | 0.0 | NNW | 0.9 | N |
| 18. | 03:00 | 0.0 | ESE | 0.0 | NNW | 0.9 | N |
| 19. | 04:00 | 0.0 | ESE | 0.0 | NW | 1.3 | N |
| 20. | 05:00 | 0.0 | ESE | 0.0 | NW | 1.8 | N |
| 21. | 06:00 | 0.0 | ESE | 0.0 | NNW | 3.6 | NNW |
| 22. | 07:00 | 0.0 | ESE | 0.0 | SSE | 3.6 | N |
| 23. | 08:00 | 0.0 | ESE | 0.4 | SW | 3.1 | N |
| 24. | 09:00 | 0.0 | ESE | 0.4 | W | 2.2 | N |
| ค่าเฉลี่ย | | 0.3 | - | 0.3 | - | 1.4 | - |

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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TEST REPORT

Report No. : R23-1541/17-30

Report Date : June 6, 2023

Sampling Date : May 23-30, 2023

Type of Sample : WS & WD

Job No. : S660394/May

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Location : การนิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| ลำดับ | เวลา | วัดทิศทางลม (ศูนย์พัฒนาเด็กอ่อนก่อนวัยเรียนทิพพาวาสพัฒนา) | | | | | | | |
|-----------|-------|---|----------|-----------------------------|----------|-----------------------------|----------|-----------------------------|----------|
| | | 23-24/05/23 | | 24-25/05/23 | | 25-26/05/23 | | 26-27/05/23 | |
| | | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม |
| 1. | 12:00 | 1.8 | SSW | 1.8 | W | 2.7 | SSW | 1.8 | SW |
| 2. | 13:00 | 1.8 | SSW | 1.8 | SSW | 2.7 | W | 1.8 | S |
| 3. | 14:00 | 1.8 | SSW | 1.8 | SW | 2.7 | WSW | 2.2 | SSW |
| 4. | 15:00 | 2.2 | W | 1.8 | WSW | 2.2 | W | 2.2 | W |
| 5. | 16:00 | 1.8 | WSW | 2.2 | W | 1.8 | W | 1.8 | W |
| 6. | 17:00 | 2.2 | SW | 2.2 | SSW | 2.2 | SW | 2.2 | SW |
| 7. | 18:00 | 2.2 | SSW | 1.8 | SSW | 1.8 | WSW | 2.2 | SSW |
| 8. | 19:00 | 1.8 | SSW | 1.3 | W | 0.9 | W | 1.3 | SSW |
| 9. | 20:00 | 1.8 | SSW | 1.8 | WSW | 1.3 | WSW | 0.4 | ENE |
| 10. | 21:00 | 1.8 | WSW | 1.3 | SW | 1.8 | W | 0.4 | WNW |
| 11. | 22:00 | 1.3 | SW | 1.8 | SSW | 1.8 | SW | 0.0 | WNW |
| 12. | 23:00 | 1.3 | SW | 1.8 | SSW | 2.2 | SSW | 0.0 | NNE |
| 13. | 00:00 | 1.3 | SSW | 2.2 | SSW | 2.2 | SSW | 0.0 | N |
| 14. | 01:00 | 1.8 | SSW | 1.3 | SW | 1.8 | SSW | 0.0 | NE |
| 15. | 02:00 | 1.3 | SSW | 1.3 | SSW | 1.8 | SW | 0.0 | NE |
| 16. | 03:00 | 0.9 | S | 0.9 | WSW | 1.3 | SSW | 0.0 | NE |
| 17. | 04:00 | 0.9 | SSW | 0.9 | SSW | 1.3 | SSW | 0.0 | E |
| 18. | 05:00 | 1.3 | SSW | 1.3 | SSE | 1.3 | SSW | 0.0 | NNW |
| 19. | 06:00 | 0.9 | SSW | 2.2 | SE | 0.4 | S | 0.0 | E |
| 20. | 07:00 | 1.3 | S | 2.7 | SE | 0.4 | S | 0.0 | E |
| 21. | 08:00 | 1.8 | SSW | 3.1 | SE | 1.3 | SSE | 0.9 | WNW |
| 22. | 09:00 | 2.2 | SSW | 2.7 | SE | 1.3 | SSE | 0.9 | W |
| 23. | 10:00 | 2.2 | SSW | 2.2 | ESE | 1.8 | W | 0.9 | N |
| 24. | 11:00 | 2.2 | W | 2.2 | SSE | 1.8 | SSW | 0.9 | N |
| ค่าเฉลี่ย | | 1.7 | - | 1.9 | - | 1.7 | - | 0.8 | - |

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Report No. : R23-1541/18-30

Report Date : June 6, 2023

Sampling Date : May 23-30, 2023

Type of Sample : WS & WD

Job No. : S660394/May

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Location : การนิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| ลำดับ | เวลา | วัดทิศทางลม (ศูนย์พัฒนาเด็กอ่อนก่อนวัยเรียนทิพพาวาสพัฒนา) | | | | | |
|-----------|-------|---|----------|-----------------------------|----------|-----------------------------|----------|
| | | 27-28/05/23 | | 28-29/05/23 | | 29-30/05/23 | |
| | | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม |
| 1. | 12:00 | 0.9 | N | 0.0 | W | 2.7 | WSW |
| 2. | 13:00 | 1.3 | W | 0.0 | W | 3.1 | WSW |
| 3. | 14:00 | 0.9 | WNW | 0.0 | W | 2.7 | WSW |
| 4. | 15:00 | 0.9 | W | 0.0 | W | 3.1 | SW |
| 5. | 16:00 | 0.9 | W | 0.0 | W | 2.7 | SW |
| 6. | 17:00 | 0.9 | W | 0.0 | W | 0.0 | SSW |
| 7. | 18:00 | 0.9 | W | 0.0 | W | 0.0 | SSW |
| 8. | 19:00 | 0.4 | W | 0.0 | W | 0.0 | SSW |
| 9. | 20:00 | 0.9 | WNW | 1.3 | SSW | 0.0 | SSW |
| 10. | 21:00 | 0.9 | SW | 2.2 | SSW | 0.0 | SSW |
| 11. | 22:00 | 0.4 | SW | 2.2 | SSW | 1.8 | NW |
| 12. | 23:00 | 0.0 | ENE | 2.2 | SSW | 1.8 | NW |
| 13. | 00:00 | 0.4 | S | 1.8 | SSW | 2.2 | NW |
| 14. | 01:00 | 0.4 | S | 1.8 | SSW | 1.8 | NW |
| 15. | 02:00 | 0.4 | SSW | 1.8 | SSW | 1.8 | NW |
| 16. | 03:00 | 0.4 | SSW | 1.3 | SW | 1.8 | NW |
| 17. | 04:00 | 0.4 | S | 2.7 | WSW | 1.3 | SW |
| 18. | 05:00 | 0.4 | SSE | 2.7 | WSW | 1.3 | SW |
| 19. | 06:00 | 0.4 | SSE | 2.2 | NW | 1.8 | SW |
| 20. | 07:00 | 0.4 | S | 1.3 | NNE | 1.8 | SW |
| 21. | 08:00 | 0.9 | W | 0.4 | NNE | 1.8 | SW |
| 22. | 09:00 | 0.0 | W | 0.0 | NNE | 1.8 | SW |
| 23. | 10:00 | 0.0 | W | 2.7 | WSW | 2.2 | SW |
| 24. | 11:00 | 0.0 | W | 2.2 | SW | 1.3 | NW |
| ค่าเฉลี่ย | | 0.6 | - | 1.2 | - | 1.6 | - |

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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TEST REPORT

Report No. : R23-1541/19-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง

Type of Sample : WS & WD

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| ลำดับ | เวลา | วัดบึงบัว (โรงเรียนวัดบึงบัว) | | | | | | | |
|-----------|-------|-------------------------------|----------|-----------------------------|----------|-----------------------------|----------|-----------------------------|----------|
| | | 23-24/05/23 | | 24-25/05/23 | | 25-26/05/23 | | 26-27/05/23 | |
| | | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม |
| 1. | 09:00 | 0.0 | SSW | 2.7 | SSE | 0.0 | NE | 0.0 | ESE |
| 2. | 10:00 | 1.3 | SSW | 2.2 | S | 0.0 | SSW | 0.0 | ESE |
| 3. | 11:00 | 0.0 | WSW | 2.2 | S | 0.0 | SW | 1.3 | N |
| 4. | 12:00 | 0.9 | SSW | 1.3 | SSW | 1.8 | N | 1.8 | N |
| 5. | 13:00 | 0.4 | WSW | 2.2 | WSW | 2.7 | N | 2.7 | N |
| 6. | 14:00 | 0.0 | SSE | 2.2 | W | 2.2 | N | 2.7 | NNW |
| 7. | 15:00 | 0.0 | SSE | 0.0 | SSW | 1.8 | N | 2.2 | N |
| 8. | 16:00 | 0.0 | NW | 0.0 | SSW | 1.3 | NNE | 2.2 | N |
| 9. | 17:00 | 0.0 | NW | 1.3 | S | 1.3 | NNE | 2.2 | N |
| 10. | 18:00 | 0.0 | NW | 0.9 | S | 1.3 | N | 2.7 | N |
| 11. | 19:00 | 0.4 | NE | 2.7 | S | 1.8 | S | 2.2 | N |
| 12. | 20:00 | 0.0 | NE | 2.2 | S | 0.9 | SSE | 2.2 | N |
| 13. | 21:00 | 0.0 | NE | 2.2 | SSE | 0.9 | S | 1.3 | NNW |
| 14. | 22:00 | 0.0 | NE | 2.2 | S | 0.4 | ENE | 2.2 | NNW |
| 15. | 23:00 | 0.0 | NE | 0.0 | NE | 0.4 | N | 0.9 | NNW |
| 16. | 00:00 | 0.0 | NE | 0.0 | NE | 0.0 | N | 0.4 | NE |
| 17. | 01:00 | 0.0 | NE | 0.4 | NE | 0.0 | NNE | 0.9 | NNE |
| 18. | 02:00 | 0.0 | W | 0.4 | NE | 0.0 | NNE | 1.8 | NNW |
| 19. | 03:00 | 0.0 | NW | 0.0 | NE | 0.0 | NE | 0.9 | NNE |
| 20. | 04:00 | 0.0 | NW | 0.0 | NE | 0.0 | NE | 0.4 | NNW |
| 21. | 05:00 | 0.0 | NE | 0.0 | NE | 0.0 | E | 1.8 | NW |
| 22. | 06:00 | 0.0 | NE | 0.0 | NE | 0.4 | ESE | 3.1 | W |
| 23. | 07:00 | 0.0 | NE | 0.0 | NE | 0.0 | ESE | 2.2 | W |
| 24. | 08:00 | 0.0 | NE | 0.0 | NE | 0.0 | ESE | 2.2 | WSW |
| ค่าเฉลี่ย | | 0.1 | - | 1.0 | - | 0.7 | - | 1.7 | - |

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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TEST REPORT

Report No. : R23-1541/20-30

Report Date : June 6, 2023

Sampling Date : May 23-30, 2023

Type of Sample : WS & WD

Job No. : S660394/May

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Location : การนิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| ลำดับ | เวลา | วัดบึงบัว (โรงเรียนวัดบึงบัว) | | | | | |
|-----------|-------|-------------------------------|----------|-----------------------------|----------|-----------------------------|----------|
| | | 27-28/05/23 | | 28-29/05/23 | | 29-30/05/23 | |
| | | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม |
| 1. | 09:00 | 2.2 | WSW | 2.2 | SSE | 0.9 | ESE |
| 2. | 10:00 | 3.1 | WSW | 2.2 | SSE | 1.3 | SE |
| 3. | 11:00 | 3.6 | SSW | 1.8 | SE | 1.8 | S |
| 4. | 12:00 | 3.6 | SSW | 2.7 | ESE | 2.2 | SE |
| 5. | 13:00 | 3.1 | S | 3.1 | SSE | 2.7 | SSE |
| 6. | 14:00 | 3.1 | S | 2.7 | S | 2.2 | S |
| 7. | 15:00 | 3.1 | SSW | 3.1 | S | 2.2 | SW |
| 8. | 16:00 | 3.6 | SSE | 2.7 | S | 2.2 | S |
| 9. | 17:00 | 3.6 | SSE | 3.1 | SSE | 2.2 | SSE |
| 10. | 18:00 | 3.1 | S | 3.1 | SSW | 2.2 | S |
| 11. | 19:00 | 2.7 | S | 1.8 | SSE | 2.2 | SSW |
| 12. | 20:00 | 2.2 | SSE | 2.2 | SSW | 2.2 | SSW |
| 13. | 21:00 | 2.7 | SSE | 1.3 | SW | 1.3 | SSW |
| 14. | 22:00 | 2.7 | SSE | 1.8 | SSE | 0.9 | SSE |
| 15. | 23:00 | 2.7 | SSE | 1.8 | SSE | 0.4 | SE |
| 16. | 00:00 | 2.7 | SSE | 2.2 | SSE | 0.0 | SSE |
| 17. | 01:00 | 2.2 | SSE | 1.3 | SE | 0.4 | S |
| 18. | 02:00 | 2.7 | S | 1.3 | SE | 0.4 | ESE |
| 19. | 03:00 | 2.7 | SSE | 1.3 | SE | 0.4 | ESE |
| 20. | 04:00 | 2.7 | SSE | 1.3 | SE | 1.3 | ESE |
| 21. | 05:00 | 2.2 | SSE | 0.9 | ESE | 1.3 | E |
| 22. | 06:00 | 2.7 | SE | 1.3 | ESE | 0.9 | ESE |
| 23. | 07:00 | 2.2 | SSE | 0.9 | ESE | 1.3 | E |
| 24. | 08:00 | 1.8 | SE | 0.4 | ESE | 0.9 | ESE |
| ค่าเฉลี่ย | | 2.8 | - | 1.9 | - | 1.4 | - |

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/21-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Type of Sample : WS & WD

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| ลำดับ | เวลา | มุมทิศตะวันออกเฉียงเหนือของพื้นที่นิคมฯ (บริษัท ไทยฮอนด้า แมนูแฟคเจอร์ จำกัด) | | | | | | | |
|-----------|-------|---|----------|-----------------------------|----------|-----------------------------|----------|-----------------------------|----------|
| | | 23-24/05/23 | | 24-25/05/23 | | 25-26/05/23 | | 26-27/05/23 | |
| | | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม |
| 1. | 11:00 | 1.3 | W | 0.4 | WNW | 1.3 | W | 0.4 | WNW |
| 2. | 12:00 | 1.3 | WNW | 0.9 | WNW | 1.3 | W | 0.9 | W |
| 3. | 13:00 | 1.3 | WNW | 0.9 | WNW | 1.3 | W | 0.4 | WNW |
| 4. | 14:00 | 0.9 | W | 0.9 | WNW | 1.3 | W | 0.4 | W |
| 5. | 15:00 | 0.9 | W | 0.9 | WSW | 0.9 | WNW | 0.4 | WSW |
| 6. | 16:00 | 1.3 | W | 0.4 | W | 0.9 | W | 0.9 | W |
| 7. | 17:00 | 0.4 | W | 0.4 | W | 1.3 | WNW | 0.9 | WNW |
| 8. | 18:00 | 0.4 | WNW | 0.4 | NW | 0.4 | W | 0.9 | W |
| 9. | 19:00 | 0.9 | W | 0.0 | WNW | 0.4 | WNW | 0.9 | W |
| 10. | 20:00 | 1.3 | WNW | 0.0 | WNW | 0.4 | WNW | 0.4 | W |
| 11. | 21:00 | 0.9 | W | 0.0 | WNW | 0.4 | W | 0.4 | NW |
| 12. | 22:00 | 0.9 | W | 0.0 | NW | 0.9 | W | 0.4 | W |
| 13. | 23:00 | 0.4 | W | 0.0 | NW | 1.3 | W | 0.9 | W |
| 14. | 00:00 | 0.9 | W | 0.0 | NW | 0.9 | W | 0.4 | W |
| 15. | 01:00 | 0.9 | WSW | 0.0 | NW | 0.4 | W | 0.4 | W |
| 16. | 02:00 | 0.4 | W | 0.0 | NW | 0.9 | WNW | 0.4 | W |
| 17. | 03:00 | 0.4 | WSW | 0.0 | NW | 0.0 | WNW | 0.0 | W |
| 18. | 04:00 | 0.0 | W | 0.0 | NW | 0.0 | NW | 0.0 | WNW |
| 19. | 05:00 | 0.0 | W | 0.0 | NW | 0.0 | W | 0.0 | SW |
| 20. | 06:00 | 0.0 | W | 0.0 | NW | 0.0 | W | 0.0 | W |
| 21. | 07:00 | 0.0 | SSW | 0.0 | NW | 0.0 | W | 0.4 | W |
| 22. | 08:00 | 0.4 | WSW | 0.9 | WSW | 0.0 | W | 0.4 | SSW |
| 23. | 09:00 | 0.4 | W | 1.3 | WSW | 0.4 | SSW | 0.9 | WNW |
| 24. | 10:00 | 0.4 | NW | 1.3 | W | 0.4 | WSW | 0.9 | W |
| ค่าเฉลี่ย | | 0.7 | - | 0.4 | - | 0.6 | - | 0.5 | - |

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/22-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Type of Sample : WS & WD

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| ลำดับ | เวลา | มุมทิศตะวันออกเฉียงเหนือของพื้นที่นิคมฯ (บริษัท ไทยฮอนด้า แมนูแฟคเจอร์ จำกัด) | | | | | |
|-----------|-------|---|----------|-----------------------------|----------|-----------------------------|----------|
| | | 27-28/05/23 | | 28-29/05/23 | | 29-30/05/23 | |
| | | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม | ความเร็วลม (เมตร/วินาที) | ทิศทางลม |
| 1. | 11:00 | 0.9 | WSW | 2.2 | WSW | 1.8 | SW |
| 2. | 12:00 | 0.4 | W | 2.7 | W | 2.2 | WSW |
| 3. | 13:00 | 0.4 | W | 1.3 | WNW | 2.7 | W |
| 4. | 14:00 | 0.4 | NW | 2.7 | WSW | 2.2 | SW |
| 5. | 15:00 | 0.4 | NW | 2.7 | WSW | 1.8 | WSW |
| 6. | 16:00 | 0.4 | W | 2.7 | SW | 1.8 | SW |
| 7. | 17:00 | 0.4 | WNW | 2.2 | SW | 1.8 | SW |
| 8. | 18:00 | 0.9 | W | 1.8 | SW | 1.3 | SW |
| 9. | 19:00 | 0.4 | WNW | 0.9 | SW | 0.9 | W |
| 10. | 20:00 | 0.4 | W | 0.0 | W | 1.8 | SW |
| 11. | 21:00 | 0.9 | W | 0.0 | W | 1.8 | SW |
| 12. | 22:00 | 0.4 | WNW | 0.9 | W | 1.8 | SW |
| 13. | 23:00 | 0.9 | W | 0.0 | WSW | 1.8 | SW |
| 14. | 00:00 | 0.4 | W | 0.9 | SSW | 1.8 | SW |
| 15. | 01:00 | 0.9 | W | 0.4 | SSW | 1.8 | SW |
| 16. | 02:00 | 0.0 | WSW | 0.4 | SW | 1.3 | SW |
| 17. | 03:00 | 0.0 | W | 0.0 | WNW | 1.3 | SW |
| 18. | 04:00 | 0.0 | W | 0.0 | WNW | 0.9 | WSW |
| 19. | 05:00 | 0.4 | WSW | 0.4 | WNW | 0.9 | SW |
| 20. | 06:00 | 0.0 | WNW | 0.0 | WNW | 0.9 | SW |
| 21. | 07:00 | 0.4 | WNW | 0.0 | WNW | 0.0 | SSW |
| 22. | 08:00 | 1.3 | SW | 0.9 | SW | 1.3 | SW |
| 23. | 09:00 | 1.3 | WSW | 0.9 | SW | 1.8 | SW |
| 24. | 10:00 | 1.8 | WNW | 1.8 | SW | 1.8 | SW |
| ค่าเฉลี่ย | | 0.6 | - | 1.1 | - | 1.6 | - |

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/23-30

Report Date : June 6, 2023

Sampling Date : May 23-30, 2023

Type of Sample : Sound Level

Job No. : S660394/May

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Location : การนิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| เวลา | ผลการตรวจวัด (dB(A)) | | | | | | | | | | | |
|---------------------------|-------------------------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | บริเวณสำนักงานนิคมฯ ลาดกระบัง | | | | | | | | | | | |
| | 23-24/05/23 | | | 24-25/05/23 | | | 25-26/05/23 | | | 26-27/05/23 | | |
| | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 08:00 | 57.2 | 71.4 | 54.0 | 66.6 | 86.1 | 59.5 | 65.2 | 88.6 | 57.9 | 65.0 | 79.1 | 57.9 |
| 09:00 | 57.3 | 69.6 | 53.8 | 67.8 | 86.0 | 61.7 | 65.7 | 87.2 | 59.5 | 61.3 | 73.6 | 55.8 |
| 10:00 | 67.2 | 83.6 | 61.0 | 67.6 | 82.5 | 61.7 | 65.6 | 79.4 | 59.7 | 64.9 | 83.1 | 56.9 |
| 11:00 | 64.5 | 91.7 | 58.7 | 65.9 | 79.1 | 61.6 | 64.9 | 88.3 | 57.2 | 64.9 | 81.2 | 56.4 |
| 12:00 | 68.2 | 96.6 | 61.0 | 56.5 | 93.1 | 61.2 | 65.8 | 83.5 | 58.8 | 66.4 | 90.2 | 55.3 |
| 13:00 | 66.8 | 85.3 | 61.1 | 67.1 | 85.0 | 61.7 | 67.7 | 91.9 | 59.5 | 64.7 | 85.7 | 58.2 |
| 14:00 | 62.1 | 79.6 | 58.4 | 67.4 | 79.6 | 60.2 | 65.1 | 85.5 | 55.8 | 62.9 | 77.4 | 57.1 |
| 15:00 | 66.2 | 80.5 | 60.2 | 66.2 | 82.0 | 65.1 | 63.7 | 74.3 | 56.1 | 63.7 | 82.6 | 57.2 |
| 16:00 | 66.2 | 82.5 | 60.2 | 65.1 | 86.8 | 61.5 | 66.9 | 90.0 | 59.2 | 64.1 | 82.4 | 58.1 |
| 17:00 | 67.4 | 86.2 | 60.4 | 63.7 | 95.6 | 62.3 | 66.9 | 84.0 | 58.4 | 63.5 | 85.7 | 57.3 |
| 18:00 | 65.8 | 83.4 | 60.1 | 61.8 | 97.1 | 60.1 | 61.0 | 76.9 | 55.2 | 64.7 | 86.8 | 57.7 |
| 19:00 | 66.7 | 87.6 | 59.2 | 64.0 | 97.1 | 60.3 | 63.8 | 78.7 | 58.3 | 69.5 | 92.0 | 56.8 |
| 20:00 | 67.6 | 87.6 | 58.3 | 67.1 | 88.2 | 60.3 | 65.2 | 79.4 | 57.4 | 68.1 | 89.7 | 54.5 |
| 21:00 | 66.9 | 85.5 | 57.8 | 63.5 | 88.2 | 62.3 | 63.5 | 78.8 | 55.3 | 65.2 | 84.0 | 58.8 |
| 22:00 | 63.2 | 85.4 | 55.9 | 68.2 | 88.9 | 64.1 | 68.3 | 90.5 | 56.4 | 66.2 | 81.5 | 60.5 |
| 23:00 | 61.6 | 79.3 | 55.5 | 61.5 | 90.1 | 67.0 | 66.9 | 86.1 | 56.9 | 67.2 | 82.4 | 61.0 |
| 00:00 | 58.9 | 83.6 | 55.1 | 63.2 | 96.3 | 66.2 | 65.6 | 82.5 | 59.1 | 62.4 | 70.5 | 55.0 |
| 01:00 | 63.1 | 77.2 | 55.8 | 61.5 | 91.3 | 66.1 | 65.1 | 87.2 | 58.2 | 61.2 | 66.2 | 56.2 |
| 02:00 | 64.7 | 87.8 | 55.9 | 65.1 | 93.1 | 66.3 | 67.1 | 88.3 | 59.5 | 64.0 | 71.1 | 57.6 |
| 03:00 | 68.4 | 88.1 | 62.4 | 62.1 | 89.9 | 66.3 | 61.5 | 73.4 | 56.8 | 68.7 | 72.5 | 61.0 |
| 04:00 | 68.8 | 88.1 | 63.0 | 63.1 | 90.0 | 66.0 | 66.8 | 82.2 | 59.2 | 61.2 | 78.9 | 55.7 |
| 05:00 | 66.6 | 85.0 | 60.9 | 62.1 | 94.0 | 65.8 | 65.0 | 81.5 | 58.0 | 62.4 | 68.6 | 55.0 |
| 06:00 | 66.6 | 82.8 | 60.8 | 68.1 | 87.0 | 61.6 | 64.4 | 80.1 | 58.3 | 55.5 | 57.0 | 54.6 |
| 07:00 | 65.6 | 81.5 | 58.3 | 67.9 | 84.4 | 60.9 | 63.7 | 87.3 | 55.6 | 55.4 | 56.8 | 54.5 |
| Leq 24 hr | 65.8 | - | - | 65.5 | - | - | 65.5 | - | - | 64.9 | - | - |
| Lmax | - | 96.6 | - | - | 97.1 | - | - | 91.9 | - | - | 92.0 | - |
| Ldn | 72.1 | - | - | 71.3 | - | - | 72.3 | - | - | 71.1 | - | - |
| มาตรฐาน ⁽¹⁾⁽²⁾ | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| ค่าเฉลี่ย Leq 24 hr | 62.9 | | | | | | | | | | | |
| ค่าเฉลี่ย Lmax | 87.2 | | | | | | | | | | | |
| ค่าเฉลี่ย Ldn | 69.4 | | | | | | | | | | | |

มาตรฐาน : (1) ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
(2) ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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TEST REPORT

Report No. : R23-1541/24-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520

Type of Sample : Sound Level

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| เวลา | ผลการตรวจวัด (dB(A)) | | | | | | | | |
|---------------------------|-------------------------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | บริเวณสำนักงานนิคมฯ ลาดกระบัง | | | | | | | | |
| | 27-28/05/23 | | | 28-29/05/23 | | | 29-30/05/23 | | |
| | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 08:00 | 57.3 | 58.8 | 56.0 | 56.7 | 62.8 | 52.8 | 54.9 | 64.8 | 51.6 |
| 09:00 | 62.0 | 69.1 | 55.9 | 61.0 | 67.9 | 54.0 | 56.7 | 72.2 | 51.9 |
| 10:00 | 55.9 | 57.9 | 54.2 | 65.1 | 71.3 | 56.6 | 56.8 | 69.6 | 51.7 |
| 11:00 | 56.2 | 59.0 | 53.8 | 62.3 | 78.5 | 52.6 | 56.6 | 71.6 | 52.0 |
| 12:00 | 55.2 | 57.7 | 52.5 | 65.9 | 74.9 | 52.4 | 55.9 | 71.7 | 51.8 |
| 13:00 | 59.3 | 66.3 | 52.9 | 55.7 | 59.5 | 52.7 | 56.9 | 73.9 | 51.6 |
| 14:00 | 65.2 | 77.0 | 52.4 | 59.6 | 63.5 | 53.6 | 55.7 | 68.9 | 51.6 |
| 15:00 | 58.4 | 65.2 | 52.2 | 57.2 | 60.4 | 51.5 | 54.5 | 67.1 | 52.0 |
| 16:00 | 63.5 | 73.0 | 53.4 | 58.5 | 69.0 | 55.7 | 56.7 | 70.9 | 52.9 |
| 17:00 | 58.3 | 71.5 | 52.2 | 59.6 | 77.8 | 55.1 | 55.4 | 65.1 | 53.2 |
| 18:00 | 60.0 | 66.9 | 52.5 | 59.6 | 76.6 | 54.5 | 56.0 | 66.6 | 53.7 |
| 19:00 | 58.5 | 64.0 | 53.2 | 57.4 | 66.7 | 54.7 | 59.4 | 74.6 | 54.6 |
| 20:00 | 52.5 | 54.3 | 50.3 | 59.3 | 76.8 | 55.7 | 58.1 | 73.4 | 54.7 |
| 21:00 | 57.2 | 64.3 | 50.4 | 61.6 | 79.5 | 55.5 | 57.4 | 72.4 | 54.9 |
| 22:00 | 68.0 | 75.1 | 51.9 | 60.1 | 79.9 | 55.6 | 58.0 | 73.1 | 55.3 |
| 23:00 | 54.4 | 56.8 | 52.7 | 60.9 | 76.7 | 55.7 | 59.2 | 74.3 | 55.7 |
| 00:00 | 53.8 | 55.9 | 52.1 | 59.2 | 72.6 | 55.5 | 60.4 | 72.7 | 56.0 |
| 01:00 | 53.6 | 56.1 | 52.3 | 58.0 | 68.5 | 55.2 | 59.1 | 72.0 | 55.0 |
| 02:00 | 53.2 | 54.7 | 52.2 | 57.5 | 68.4 | 54.9 | 57.7 | 65.0 | 54.8 |
| 03:00 | 59.4 | 66.0 | 52.7 | 57.3 | 68.9 | 54.1 | 60.5 | 76.0 | 56.8 |
| 04:00 | 56.1 | 62.5 | 51.8 | 57.9 | 70.7 | 54.1 | 58.9 | 65.0 | 56.5 |
| 05:00 | 61.9 | 70.3 | 50.9 | 59.0 | 70.8 | 54.4 | 59.2 | 70.2 | 56.1 |
| 06:00 | 65.4 | 73.4 | 53.9 | 57.1 | 68.6 | 54.3 | 58.5 | 74.6 | 55.7 |
| 07:00 | 53.9 | 56.4 | 52.0 | 57.2 | 75.2 | 54.2 | 59.2 | 75.9 | 54.4 |
| Leq 24 hr | 60.6 | - | - | 60.2 | - | - | 57.9 | - | - |
| Lmax | - | 77.0 | - | - | 79.9 | - | - | 76.0 | - |
| Ldn | 67.9 | - | - | 65.5 | - | - | 65.3 | - | - |
| มาตรฐาน ⁽¹⁾⁽²⁾ | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| ค่าเฉลี่ย Leq 24 hr | 62.9 | | | | | | | | |
| ค่าเฉลี่ย Lmax | 87.2 | | | | | | | | |
| ค่าเฉลี่ย Ldn | 69.4 | | | | | | | | |

มาตรฐาน : ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป

⁽²⁾ ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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TEST REPORT

Report No. : R23-1541/25-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง

Type of Sample : Sound Level

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| เวลา | ผลการตรวจวัด (dB(A)) | | | | | | | | | | | |
|---------------------------|---|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | วัดที่พาวาส (ศูนย์พัฒนาเด็กอ่อนก่อนวัยเรียนที่พาวาสพัฒนา) | | | | | | | | | | | |
| | 23-24/05/23 | | | 24-25/05/23 | | | 25-26/05/23 | | | 26-27/05/23 | | |
| | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 08:00 | 61.5 | 82.2 | 53.0 | 56.5 | 68.4 | 49.4 | 57.8 | 72.2 | 52.2 | 57.5 | 66.1 | 52.0 |
| 09:00 | 58.6 | 77.2 | 52.1 | 58.5 | 71.8 | 52.2 | 56.5 | 72.0 | 50.9 | 59.0 | 71.4 | 53.3 |
| 10:00 | 60.9 | 84.4 | 53.4 | 57.9 | 68.6 | 51.7 | 58.5 | 69.5 | 51.5 | 60.0 | 77.4 | 53.8 |
| 11:00 | 59.0 | 76.0 | 52.8 | 57.8 | 71.0 | 50.7 | 57.2 | 67.5 | 51.6 | 60.5 | 72.5 | 53.0 |
| 12:00 | 57.2 | 69.5 | 50.8 | 58.4 | 70.9 | 51.2 | 58.7 | 71.2 | 51.8 | 58.9 | 69.9 | 53.4 |
| 13:00 | 59.5 | 74.8 | 50.7 | 58.4 | 77.2 | 51.7 | 57.1 | 69.4 | 51.8 | 60.1 | 75.6 | 53.7 |
| 14:00 | 57.3 | 69.2 | 52.8 | 57.7 | 73.4 | 50.8 | 57.7 | 69.3 | 50.5 | 59.0 | 73.3 | 52.7 |
| 15:00 | 59.8 | 77.4 | 51.6 | 57.7 | 70.2 | 50.9 | 57.6 | 69.2 | 51.7 | 58.4 | 69.2 | 52.1 |
| 16:00 | 57.6 | 69.7 | 50.3 | 58.0 | 72.7 | 50.2 | 55.5 | 66.1 | 50.5 | 58.4 | 74.1 | 51.7 |
| 17:00 | 57.2 | 70.8 | 51.1 | 56.5 | 67.0 | 51.2 | 58.3 | 70.5 | 50.3 | 57.8 | 69.4 | 52.6 |
| 18:00 | 57.2 | 70.3 | 51.0 | 56.7 | 67.3 | 51.1 | 56.7 | 67.1 | 51.6 | 57.5 | 72.4 | 52.0 |
| 19:00 | 59.1 | 71.2 | 50.7 | 57.1 | 76.4 | 51.0 | 56.6 | 68.3 | 51.5 | 59.1 | 70.9 | 52.5 |
| 20:00 | 57.0 | 69.8 | 49.9 | 58.2 | 74.6 | 50.8 | 57.6 | 72.3 | 51.2 | 58.3 | 70.1 | 51.7 |
| 21:00 | 57.6 | 69.9 | 51.5 | 58.1 | 72.6 | 51.9 | 59.1 | 75.2 | 51.4 | 58.5 | 69.4 | 52.5 |
| 22:00 | 56.7 | 68.8 | 50.0 | 60.6 | 83.4 | 53.3 | 57.2 | 68.2 | 51.7 | 59.2 | 70.6 | 53.1 |
| 23:00 | 57.4 | 66.6 | 51.8 | 57.9 | 71.1 | 51.3 | 57.1 | 67.5 | 51.6 | 59.8 | 68.1 | 53.5 |
| 00:00 | 57.0 | 72.6 | 50.3 | 56.8 | 69.1 | 51.4 | 59.7 | 78.2 | 50.6 | 57.1 | 68.0 | 51.5 |
| 01:00 | 56.5 | 65.7 | 51.9 | 57.7 | 70.1 | 51.4 | 61.0 | 76.9 | 50.1 | 57.6 | 67.5 | 53.2 |
| 02:00 | 58.0 | 68.1 | 52.3 | 58.0 | 69.9 | 50.9 | 59.6 | 75.2 | 52.0 | 56.0 | 64.7 | 52.4 |
| 03:00 | 57.5 | 68.5 | 52.9 | 57.7 | 68.4 | 52.7 | 56.7 | 68.7 | 51.3 | 58.7 | 71.8 | 52.7 |
| 04:00 | 57.1 | 68.1 | 51.0 | 57.7 | 71.5 | 52.4 | 58.7 | 68.9 | 53.2 | 58.0 | 71.3 | 52.5 |
| 05:00 | 59.6 | 72.8 | 51.3 | 57.6 | 68.9 | 52.9 | 58.4 | 70.0 | 52.3 | 59.3 | 70.7 | 53.1 |
| 06:00 | 56.6 | 69.6 | 50.2 | 59.0 | 74.1 | 52.0 | 57.9 | 76.0 | 51.7 | 61.7 | 77.6 | 52.8 |
| 07:00 | 59.0 | 73.5 | 51.4 | 58.5 | 67.9 | 53.8 | 57.6 | 69.3 | 50.8 | 60.4 | 75.9 | 53.1 |
| Leq 24 hr | 58.4 | - | - | 58.0 | - | - | 58.0 | - | - | 59.0 | - | - |
| Lmax | - | 84.4 | - | - | 83.4 | - | - | 78.2 | - | - | 77.6 | - |
| Ldn | 64.1 | - | - | 64.6 | - | - | 65.0 | - | - | 65.3 | - | - |
| มาตรฐาน ⁽¹⁾⁽²⁾ | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| ค่าเฉลี่ย Leq 24 hr | 58.6 | | | | | | | | | | | |
| ค่าเฉลี่ย Lmax | 81.5 | | | | | | | | | | | |
| ค่าเฉลี่ย Ldn | 65.1 | | | | | | | | | | | |

มาตรฐาน : ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป

⁽²⁾ ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Report No. : R23-1541/26-30
Report Date : June 6, 2023
Sampling Date : May 23-30, 2023
Type of Sample : Sound Level
Job No. : S660394/May

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย
Location : การนิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341
Fax. (02) 326 0220

| เวลา | ผลการตรวจวัด (dB(A)) | | | | | | | | |
|---------------------------|---|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | วัดที่พาวาส (ศูนย์พัฒนาเด็กอ่อนก่อนวัยเรียนที่พาวาสพัฒนา) | | | | | | | | |
| | 27-28/05/23 | | | 28-29/05/23 | | | 29-30/08/23 | | |
| | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 08:00 | 57.6 | 66.0 | 53.2 | 57.9 | 66.4 | 52.6 | 56.1 | 72.8 | 51.2 |
| 09:00 | 58.2 | 70.3 | 52.2 | 62.9 | 81.9 | 52.4 | 55.3 | 70.8 | 51.2 |
| 10:00 | 58.6 | 69.3 | 53.8 | 55.5 | 64.6 | 51.6 | 54.8 | 71.6 | 50.7 |
| 11:00 | 58.2 | 69.3 | 53.3 | 60.2 | 73.8 | 52.8 | 55.2 | 70.2 | 50.7 |
| 12:00 | 61.0 | 73.7 | 53.8 | 61.2 | 83.4 | 52.7 | 54.4 | 67.3 | 51.1 |
| 13:00 | 59.3 | 75.3 | 52.9 | 59.2 | 75.3 | 51.6 | 54.9 | 74.1 | 50.7 |
| 14:00 | 56.3 | 65.7 | 52.5 | 57.7 | 72.5 | 51.2 | 54.3 | 72.3 | 51.2 |
| 15:00 | 58.3 | 72.0 | 54.0 | 58.5 | 76.1 | 51.9 | 55.4 | 68.8 | 51.6 |
| 16:00 | 58.3 | 74.2 | 53.0 | 59.0 | 79.0 | 52.2 | 54.4 | 71.5 | 51.3 |
| 17:00 | 59.0 | 73.2 | 52.4 | 59.4 | 77.9 | 52.5 | 56.1 | 79.6 | 51.4 |
| 18:00 | 57.9 | 75.2 | 51.9 | 59.7 | 78.1 | 51.8 | 54.7 | 72.5 | 51.3 |
| 19:00 | 56.5 | 67.3 | 51.9 | 63.1 | 82.1 | 53.8 | 60.1 | 77.8 | 51.4 |
| 20:00 | 58.4 | 73.1 | 52.5 | 60.9 | 80.5 | 54.1 | 59.7 | 80.2 | 52.4 |
| 21:00 | 58.5 | 70.6 | 52.4 | 62.1 | 84.9 | 54.1 | 59.2 | 81.9 | 52.8 |
| 22:00 | 58.5 | 67.3 | 53.8 | 61.5 | 84.8 | 54.0 | 58.4 | 77.1 | 52.4 |
| 23:00 | 57.9 | 69.6 | 53.5 | 60.7 | 81.7 | 54.4 | 59.6 | 80.5 | 52.9 |
| 00:00 | 58.9 | 69.1 | 53.5 | 60.2 | 83.0 | 52.6 | 59.1 | 79.7 | 52.6 |
| 01:00 | 58.4 | 74.3 | 52.4 | 59.0 | 82.6 | 53.0 | 59.4 | 84.4 | 52.2 |
| 02:00 | 57.6 | 67.5 | 52.1 | 58.3 | 78.2 | 52.1 | 61.4 | 83.1 | 52.6 |
| 03:00 | 59.5 | 71.2 | 53.1 | 58.1 | 76.1 | 51.7 | 60.2 | 79.3 | 53.1 |
| 04:00 | 57.1 | 63.7 | 53.8 | 56.3 | 77.1 | 51.2 | 59.5 | 78.8 | 52.7 |
| 05:00 | 57.9 | 67.6 | 52.7 | 57.7 | 79.1 | 51.4 | 60.8 | 83.3 | 52.6 |
| 06:00 | 56.4 | 68.2 | 51.9 | 59.2 | 80.0 | 52.1 | 60.0 | 80.0 | 53.0 |
| 07:00 | 58.7 | 77.4 | 52.2 | 58.4 | 80.9 | 51.7 | 59.7 | 82.5 | 53.3 |
| Leq 24 hr | 58.3 | - | - | 59.9 | - | - | 58.3 | - | - |
| Lmax | - | 77.4 | - | - | 84.9 | - | - | 84.4 | - |
| Ldn | 64.6 | - | - | 65.8 | - | - | 66.0 | - | - |
| มาตรฐาน ⁽¹⁾⁽²⁾ | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| ค่าเฉลี่ย Leq 24 hr | 58.6 | | | | | | | | |
| ค่าเฉลี่ย Lmax | 81.5 | | | | | | | | |
| ค่าเฉลี่ย Ldn | 65.1 | | | | | | | | |

มาตรฐาน : (1) ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
(2) ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Report No. : R23-1541/27-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง

Type of Sample : Sound Level

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| เวลา | ผลการตรวจวัด (dB(A)) | | | | | | | | | | | |
|---------------------------|-------------------------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | วัดบึงบัว (โรงเรียนวัดบึงบัว) | | | | | | | | | | | |
| | 23-24/05/23 | | | 24-25/05/23 | | | 25-26/05/23 | | | 26-27/05/23 | | |
| | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 08:00 | 59.5 | 78.0 | 54.3 | 59.9 | 76.7 | 52.4 | 60.2 | 83.7 | 52.2 | 60.4 | 76.0 | 53.3 |
| 09:00 | 60.0 | 92.8 | 51.9 | 60.6 | 75.6 | 51.8 | 62.9 | 91.3 | 51.7 | 61.3 | 90.6 | 51.1 |
| 10:00 | 60.5 | 81.1 | 50.8 | 60.6 | 75.8 | 52.9 | 60.3 | 76.9 | 51.3 | 60.4 | 77.7 | 50.9 |
| 11:00 | 59.9 | 78.4 | 49.8 | 60.7 | 76.3 | 51.6 | 62.1 | 86.2 | 53.3 | 60.7 | 77.5 | 51.9 |
| 12:00 | 61.9 | 78.0 | 51.9 | 62.1 | 79.2 | 52.0 | 61.8 | 79.1 | 51.5 | 60.5 | 74.6 | 49.8 |
| 13:00 | 61.0 | 77.7 | 50.4 | 60.5 | 82.0 | 50.3 | 61.0 | 79.5 | 51.7 | 61.8 | 81.0 | 53.8 |
| 14:00 | 61.4 | 75.4 | 52.4 | 62.4 | 80.5 | 53.1 | 62.6 | 80.3 | 53.6 | 57.2 | 68.7 | 53.1 |
| 15:00 | 61.6 | 85.4 | 54.1 | 60.6 | 80.0 | 52.7 | 60.7 | 79.9 | 52.6 | 57.5 | 68.1 | 53.5 |
| 16:00 | 61.5 | 82.9 | 53.7 | 60.6 | 74.8 | 53.3 | 60.7 | 77.6 | 53.5 | 58.1 | 69.8 | 53.6 |
| 17:00 | 64.3 | 91.1 | 55.0 | 61.4 | 81.7 | 54.0 | 60.6 | 77.0 | 53.0 | 59.5 | 75.4 | 54.2 |
| 18:00 | 60.9 | 77.5 | 53.9 | 61.3 | 77.1 | 53.6 | 60.0 | 75.8 | 52.9 | 57.4 | 72.2 | 52.4 |
| 19:00 | 60.1 | 78.6 | 52.4 | 59.5 | 77.6 | 52.8 | 61.0 | 77.3 | 52.3 | 60.2 | 75.9 | 55.5 |
| 20:00 | 60.5 | 77.9 | 51.7 | 59.6 | 75.0 | 51.3 | 60.1 | 77.0 | 50.0 | 61.2 | 72.6 | 57.8 |
| 21:00 | 59.5 | 79.3 | 48.2 | 59.0 | 76.2 | 46.3 | 59.9 | 81.4 | 47.2 | 61.2 | 74.9 | 57.6 |
| 22:00 | 58.6 | 75.7 | 46.4 | 58.6 | 74.2 | 45.7 | 59.0 | 82.3 | 45.0 | 65.7 | 88.1 | 57.3 |
| 23:00 | 58.0 | 75.3 | 45.5 | 57.9 | 78.2 | 44.4 | 57.2 | 75.3 | 43.4 | 59.5 | 71.4 | 57.0 |
| 00:00 | 55.5 | 77.4 | 44.5 | 61.2 | 95.6 | 44.8 | 54.1 | 75.3 | 43.5 | 58.4 | 68.6 | 56.1 |
| 01:00 | 57.3 | 76.9 | 44.0 | 50.9 | 69.5 | 43.5 | 55.8 | 73.2 | 44.4 | 60.6 | 75.6 | 56.6 |
| 02:00 | 53.0 | 75.4 | 44.0 | 48.7 | 64.7 | 43.4 | 52.6 | 73.9 | 44.1 | 59.7 | 71.5 | 56.5 |
| 03:00 | 53.7 | 73.2 | 44.6 | 51.5 | 69.6 | 43.2 | 56.0 | 73.9 | 43.7 | 62.3 | 77.2 | 57.0 |
| 04:00 | 57.9 | 74.0 | 45.9 | 54.4 | 72.4 | 45.3 | 59.4 | 74.8 | 47.0 | 61.3 | 74.0 | 56.5 |
| 05:00 | 60.7 | 77.4 | 49.1 | 60.0 | 78.9 | 51.3 | 60.2 | 76.2 | 52.8 | 59.4 | 72.1 | 56.9 |
| 06:00 | 60.9 | 78.5 | 53.9 | 58.6 | 73.2 | 53.5 | 61.2 | 82.3 | 55.7 | 59.7 | 70.0 | 57.3 |
| 07:00 | 62.5 | 77.8 | 55.8 | 62.0 | 80.5 | 54.2 | 60.0 | 76.7 | 54.2 | 60.2 | 79.8 | 57.5 |
| Leq 24 hr | 60.3 | - | - | 59.8 | - | - | 60.1 | - | - | 60.6 | - | - |
| Lmax | - | 92.8 | - | - | 95.6 | - | - | 91.3 | - | - | 90.6 | - |
| Ldn | 65.1 | - | - | 64.5 | - | - | 65.0 | - | - | 67.6 | - | - |
| มาตรฐาน ⁽¹⁾⁽²⁾ | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| ค่าเฉลี่ย Leq 24 hr | 61.3 | | | | | | | | | | | |
| ค่าเฉลี่ย Lmax | 92.1 | | | | | | | | | | | |
| ค่าเฉลี่ย Ldn | 67.1 | | | | | | | | | | | |

มาตรฐาน : ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป

⁽²⁾ ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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TEST REPORT

Report No. : R23-1541/28-30
Report Date : June 6, 2023
Sampling Date : May 23-30, 2023
Type of Sample : Sound Level
Job No. : S660394/May

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย
Location : การนิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง
กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341
Fax. (02) 326 0220

| เวลา | ผลการตรวจวัด (dB(A)) | | | | | | | | |
|---------------------------|-------------------------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | วัดบึงบัว (โรงเรียนวัดบึงบัว) | | | | | | | | |
| | 27-28/05/23 | | | 28-29/05/23 | | | 29-30/08/23 | | |
| | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 08:00 | 59.2 | 69.1 | 57.4 | 62.5 | 75.9 | 60.2 | 63.4 | 74.1 | 58.5 |
| 09:00 | 60.8 | 70.6 | 58.2 | 62.5 | 76.3 | 60.8 | 62.5 | 71.6 | 57.2 |
| 10:00 | 59.7 | 70.6 | 57.8 | 64.6 | 82.9 | 61.3 | 64.0 | 82.9 | 58.4 |
| 11:00 | 61.0 | 75.3 | 58.3 | 67.2 | 77.9 | 61.8 | 64.5 | 83.9 | 57.5 |
| 12:00 | 59.9 | 69.0 | 57.4 | 66.5 | 84.3 | 62.6 | 64.0 | 78.3 | 57.8 |
| 13:00 | 60.5 | 74.0 | 57.3 | 66.8 | 82.5 | 63.1 | 61.7 | 74.6 | 56.5 |
| 14:00 | 60.4 | 79.0 | 57.7 | 64.3 | 77.0 | 62.0 | 61.3 | 72.9 | 56.4 |
| 15:00 | 60.6 | 72.6 | 58.5 | 63.2 | 74.5 | 60.1 | 62.0 | 77.3 | 56.1 |
| 16:00 | 62.2 | 73.9 | 59.0 | 63.8 | 74.3 | 60.5 | 60.4 | 73.5 | 55.1 |
| 17:00 | 61.3 | 71.1 | 59.3 | 69.4 | 77.9 | 61.6 | 61.0 | 71.1 | 57.4 |
| 18:00 | 60.6 | 68.3 | 59.1 | 64.5 | 97.8 | 77.5 | 59.8 | 71.1 | 56.3 |
| 19:00 | 62.3 | 75.0 | 59.7 | 60.5 | 90.6 | 76.6 | 61.2 | 73.7 | 56.1 |
| 20:00 | 62.9 | 74.1 | 60.7 | 64.2 | 99.5 | 72.2 | 63.0 | 81.4 | 55.7 |
| 21:00 | 62.8 | 81.3 | 59.6 | 65.7 | 80.7 | 64.8 | 60.4 | 72.0 | 56.0 |
| 22:00 | 60.6 | 71.1 | 58.6 | 65.7 | 77.4 | 59.1 | 61.3 | 74.6 | 54.9 |
| 23:00 | 62.3 | 76.2 | 59.0 | 64.1 | 82.5 | 58.0 | 61.0 | 70.6 | 55.8 |
| 00:00 | 63.0 | 76.7 | 59.3 | 64.8 | 77.6 | 58.0 | 60.8 | 75.1 | 56.1 |
| 01:00 | 62.0 | 72.3 | 59.7 | 62.3 | 81.1 | 56.9 | 62.9 | 75.6 | 56.4 |
| 02:00 | 64.3 | 69.7 | 61.7 | 61.9 | 78.9 | 56.8 | 64.0 | 77.9 | 56.1 |
| 03:00 | 63.4 | 75.8 | 59.7 | 62.0 | 74.5 | 58.3 | 59.0 | 74.9 | 53.4 |
| 04:00 | 61.9 | 71.0 | 59.1 | 66.0 | 84.4 | 58.1 | 59.8 | 71.8 | 53.1 |
| 05:00 | 61.8 | 75.6 | 59.4 | 62.0 | 72.6 | 57.8 | 58.5 | 69.2 | 52.0 |
| 06:00 | 62.4 | 67.6 | 60.7 | 65.6 | 82.0 | 59.4 | 58.8 | 70.3 | 53.8 |
| 07:00 | 62.3 | 69.9 | 59.5 | 65.1 | 85.2 | 57.2 | 60.8 | 75.9 | 55.3 |
| Leq 24 hr | 61.8 | - | - | 64.9 | - | - | 61.8 | - | - |
| Lmax | - | 81.3 | - | - | 99.5 | - | - | 83.9 | - |
| Ldn | 68.8 | - | - | 70.7 | - | - | 67.7 | - | - |
| มาตรฐาน ⁽¹⁾⁽²⁾ | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| ค่าเฉลี่ย Leq 24 hr | 61.3 | | | | | | | | |
| ค่าเฉลี่ย Lmax | 92.1 | | | | | | | | |
| ค่าเฉลี่ย Ldn | 67.1 | | | | | | | | |

มาตรฐาน : ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
⁽²⁾ ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Report No. : R23-1541/29-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง

Type of Sample : Sound Level

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| เวลา | ผลการตรวจวัด (dB(A)) | | | | | | | | | | | |
|---------------------------|---|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | มุมทิศตะวันออกเฉียงเหนือของพื้นที่นิคมฯ (บริษัท ไทยฮอนด้า แมนูแฟคเจอร์ จำกัด) | | | | | | | | | | | |
| | 23-24/05/23 | | | 24-25/05/23 | | | 25-26/05/23 | | | 26-27/05/23 | | |
| | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 08:00 | 60.6 | 73.8 | 54.5 | 58.0 | 81.2 | 48.9 | 57.0 | 75.8 | 50.5 | 55.3 | 75.7 | 51.4 |
| 09:00 | 58.5 | 77.5 | 53.1 | 52.8 | 66.2 | 49.1 | 52.7 | 67.9 | 50.5 | 56.0 | 67.8 | 51.0 |
| 10:00 | 61.8 | 80.7 | 52.3 | 58.7 | 76.6 | 52.1 | 53.7 | 77.9 | 50.5 | 56.6 | 77.7 | 50.9 |
| 11:00 | 60.3 | 91.2 | 50.1 | 56.3 | 67.0 | 50.4 | 52.6 | 73.0 | 50.5 | 57.0 | 66.5 | 49.5 |
| 12:00 | 52.4 | 66.1 | 49.4 | 57.3 | 73.5 | 48.8 | 64.6 | 79.4 | 49.6 | 55.7 | 64.8 | 50.5 |
| 13:00 | 52.5 | 64.5 | 49.8 | 56.5 | 65.3 | 50.1 | 51.9 | 68.4 | 49.3 | 57.0 | 79.4 | 50.6 |
| 14:00 | 53.3 | 79.4 | 50.5 | 55.5 | 76.8 | 50.1 | 53.9 | 76.8 | 49.8 | 57.1 | 66.9 | 51.8 |
| 15:00 | 54.2 | 76.7 | 50.7 | 57.8 | 69.7 | 50.8 | 55.2 | 74.9 | 51.3 | 55.3 | 77.3 | 51.9 |
| 16:00 | 56.9 | 74.4 | 51.7 | 58.1 | 77.5 | 51.9 | 62.7 | 90.1 | 51.9 | 60.1 | 82.4 | 53.3 |
| 17:00 | 61.9 | 84.2 | 51.7 | 62.4 | 90.7 | 51.2 | 60.2 | 80.4 | 52.0 | 65.9 | 90.4 | 53.2 |
| 18:00 | 59.0 | 82.7 | 53.8 | 56.1 | 80.6 | 51.4 | 54.2 | 68.1 | 51.8 | 53.9 | 71.0 | 50.3 |
| 19:00 | 56.4 | 82.9 | 53.1 | 56.1 | 86.8 | 51.5 | 55.5 | 75.8 | 52.2 | 54.6 | 79.6 | 50.5 |
| 20:00 | 56.2 | 75.9 | 52.7 | 54.5 | 75.1 | 51.8 | 55.2 | 75.3 | 52.7 | 54.3 | 76.9 | 51.0 |
| 21:00 | 56.2 | 80.5 | 52.7 | 56.9 | 83.4 | 50.8 | 58.7 | 94.4 | 52.3 | 55.0 | 75.5 | 52.0 |
| 22:00 | 59.0 | 98.3 | 50.9 | 52.3 | 65.5 | 50.6 | 54.9 | 69.1 | 51.6 | 54.1 | 75.4 | 51.4 |
| 23:00 | 52.9 | 69.0 | 50.5 | 53.1 | 73.2 | 50.3 | 56.1 | 78.7 | 51.7 | 55.1 | 79.3 | 51.4 |
| 00:00 | 57.3 | 78.3 | 49.9 | 57.4 | 91.8 | 49.6 | 52.9 | 75.3 | 50.3 | 60.7 | 78.7 | 51.2 |
| 01:00 | 60.9 | 85.6 | 49.5 | 69.4 | 98.9 | 50.8 | 62.0 | 83.4 | 50.0 | 63.2 | 83.2 | 51.4 |
| 02:00 | 59.2 | 84.0 | 50.4 | 53.8 | 70.6 | 50.9 | 56.0 | 70.5 | 50.2 | 65.7 | 98.4 | 52.1 |
| 03:00 | 53.3 | 80.2 | 50.0 | 53.7 | 74.2 | 51.6 | 53.5 | 74.2 | 50.1 | 53.5 | 74.6 | 51.1 |
| 04:00 | 51.9 | 68.3 | 50.0 | 54.4 | 73.4 | 52.4 | 54.1 | 71.3 | 51.0 | 55.4 | 73.5 | 51.5 |
| 05:00 | 56.1 | 78.9 | 50.6 | 56.1 | 75.6 | 51.9 | 55.2 | 73.5 | 51.9 | 55.4 | 77.7 | 51.3 |
| 06:00 | 54.9 | 76.8 | 51.4 | 56.2 | 74.5 | 52.6 | 58.4 | 76.5 | 53.2 | 56.2 | 70.3 | 53.6 |
| 07:00 | 58.7 | 75.6 | 53.3 | 58.8 | 79.0 | 51.5 | 58.9 | 79.5 | 51.9 | 58.6 | 82.3 | 53.1 |
| Leq 24 hr | 57.9 | - | - | 59.2 | - | - | 57.8 | - | - | 59.0 | - | - |
| Lmax | - | 98.3 | - | - | 98.9 | - | - | 94.4 | - | - | 98.4 | - |
| Ldn | 63.7 | - | - | 67.0 | - | - | 63.5 | - | - | 66.2 | - | - |
| มาตรฐาน ⁽¹⁾⁽²⁾ | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| ค่าเฉลี่ย Leq 24 hr | 58.2 | | | | | | | | | | | |
| ค่าเฉลี่ย Lmax | 91.6 | | | | | | | | | | | |
| ค่าเฉลี่ย Ldn | 64.8 | | | | | | | | | | | |

มาตรฐาน : (1) ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป

(2) ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Report No. : R23-1541/30-30

Customer Name : การนิคมอุตสาหกรรมแห่งประเทศไทย

Report Date : June 6, 2023

Location : การนิคมอุตสาหกรรมลาดกระบัง

Sampling Date : May 23-30, 2023

Address : 94 ถนนฉลองกรุง แขวงลำปลาหัว เขตลาดกระบัง

Type of Sample : Sound Level

กรุงเทพมหานคร 10520

Job No. : S660394/May

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

| เวลา | ผลการตรวจวัด (dB(A)) | | | | | | | | |
|---------------------------|---|------|-----------------|-------------|------|-----------------|-------------|------|-----------------|
| | มุมทิศตะวันออกเฉียงเหนือของพื้นที่นิคมฯ (บริษัท ไทยฮอนด้า แมนูแฟคเจอร์ จำกัด) | | | | | | | | |
| | 27-28/05/23 | | | 28-29/05/23 | | | 29-30/08/23 | | |
| | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ | Leq | Lmax | L ₉₀ |
| 08:00 | 59.1 | 77.3 | 53.5 | 56.9 | 68.8 | 54.4 | 63.4 | 77.2 | 55.7 |
| 09:00 | 56.4 | 66.4 | 52.2 | 58.1 | 77.7 | 54.3 | 61.1 | 75.6 | 54.6 |
| 10:00 | 55.1 | 75.0 | 51.1 | 57.4 | 69.7 | 54.3 | 58.8 | 69.1 | 53.6 |
| 11:00 | 52.7 | 69.4 | 49.1 | 56.3 | 64.0 | 54.5 | 57.4 | 68.1 | 52.6 |
| 12:00 | 52.6 | 77.4 | 49.4 | 56.3 | 67.3 | 54.5 | 57.3 | 67.4 | 52.9 |
| 13:00 | 53.6 | 82.6 | 49.5 | 57.3 | 67.7 | 54.3 | 57.6 | 70.8 | 52.7 |
| 14:00 | 52.9 | 73.2 | 50.1 | 56.8 | 67.0 | 54.1 | 56.6 | 68.4 | 53.3 |
| 15:00 | 57.3 | 74.7 | 51.7 | 58.5 | 76.9 | 53.9 | 56.6 | 70.8 | 52.7 |
| 16:00 | 62.2 | 80.1 | 51.1 | 60.7 | 79.2 | 54.4 | 56.0 | 71.6 | 52.5 |
| 17:00 | 56.5 | 78.8 | 50.2 | 57.4 | 67.2 | 54.3 | 55.5 | 65.6 | 52.5 |
| 18:00 | 57.9 | 89.5 | 50.2 | 55.6 | 65.4 | 53.4 | 56.4 | 69.7 | 52.5 |
| 19:00 | 53.6 | 64.6 | 50.9 | 55.7 | 66.9 | 52.9 | 56.0 | 64.9 | 52.6 |
| 20:00 | 54.5 | 69.4 | 52.2 | 54.9 | 67.1 | 52.7 | 56.4 | 66.9 | 53.0 |
| 21:00 | 55.2 | 77.5 | 52.1 | 54.9 | 64.2 | 52.7 | 55.8 | 65.3 | 53.0 |
| 22:00 | 54.8 | 71.4 | 51.9 | 56.2 | 64.5 | 53.5 | 56.1 | 65.9 | 52.8 |
| 23:00 | 55.0 | 75.9 | 51.6 | 56.1 | 66.6 | 54.1 | 58.0 | 70.7 | 53.1 |
| 00:00 | 53.7 | 78.4 | 51.1 | 57.7 | 72.9 | 54.4 | 59.0 | 74.1 | 53.2 |
| 01:00 | 61.1 | 82.7 | 51.2 | 61.9 | 77.0 | 54.7 | 58.0 | 74.4 | 53.2 |
| 02:00 | 53.0 | 72.5 | 50.9 | 61.5 | 72.1 | 56.3 | 57.5 | 68.7 | 53.6 |
| 03:00 | 53.2 | 68.7 | 50.0 | 63.3 | 81.9 | 54.8 | 56.3 | 65.4 | 53.6 |
| 04:00 | 53.5 | 72.3 | 49.8 | 57.9 | 67.7 | 54.0 | 58.9 | 71.2 | 55.5 |
| 05:00 | 54.2 | 77.3 | 50.2 | 57.2 | 69.5 | 52.3 | 59.2 | 73.7 | 55.8 |
| 06:00 | 56.4 | 82.6 | 50.5 | 57.7 | 75.9 | 52.1 | 61.5 | 79.7 | 55.3 |
| 07:00 | 57.5 | 82.7 | 50.2 | 61.2 | 72.6 | 54.3 | 60.2 | 73.6 | 55.2 |
| Leq 24 hr | 56.4 | - | - | 58.5 | - | - | 58.4 | - | - |
| Lmax | - | 89.5 | - | - | 81.9 | - | - | 79.7 | - |
| Ldn | 62.4 | - | - | 65.8 | - | - | 64.9 | - | - |
| มาตรฐาน ⁽¹⁾⁽²⁾ | 70 | 115 | - | 70 | 115 | - | 70 | 115 | - |
| ค่าเฉลี่ย Leq 24 hr | 58.2 | | | | | | | | |
| ค่าเฉลี่ย Lmax | 91.6 | | | | | | | | |
| ค่าเฉลี่ย Ldn | 64.8 | | | | | | | | |

มาตรฐาน : ⁽¹⁾ ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป

⁽²⁾ ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Wannasiri S.

Wannasiri Suriyawong



Somchai P.

Somchai Piyavorasakul
General Manager

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TEST REPORT

Analysis No. : R23-0068

Received Date: 10/01/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 16/01/23

Analysis Date : 09-16/01/23

Job No. : S660033/Jan

Sampling Date * : 09/01/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2301-WW0126 = black turbid/high black sediment/smell

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|---------------|
| | | | | 2301-WW0126 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 31.8 | ≤ 45 | 09/01/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.40 | 5.5-9.0 | 09/01/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate | 159 | 600 | 11/01/23 |
| | Color (pH 7) * | ADMI | Spectrophotometric Method (SM 2120 F) | 136 | 600 | 11/01/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 87.8 | 200 | 10/01/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 1,474 | 3,000 | 11/01/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 1.31 | - | 09/01/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 89 | 500 | 11-16/01/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 300 | 750 | 11/01/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 10.6 | 10 | 13/01/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 28.85 | 100 | 11/01/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.65 | - | 12/01/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.005 | 0.2 | 11/01/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | 0.040 | 1.0 | 12/01/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 10/01/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | 0.24 | 1.0 | 12/01/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 11/01/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 11/01/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 10/01/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 13/01/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0013 | 0.25 | 10/01/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 10/01/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.05 | 1.0 | 11/01/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 11/01/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.47 | 2.0 | 11/01/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.30 | 5.0 | 11/01/23 |

continue

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TEST REPORT

Analysis No. : R23-0068

Received Date: 10/01/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 16/01/23

Analysis Date : 09-16/01/23

Job No. : S660033/Jan

Sampling Date * : 09/01/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2301-WW0126 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.04 | 1.0 | 11/01/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 11/01/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.39 | 5.0 | 11/01/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 10-11/01/23 |

continue

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TEST REPORT

Analysis No. : R23-0068

Received Date: 10/01/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 16/01/23

Analysis Date : 09-16/01/23

Job No. : S660033/Jan

Sampling Date * : 09/01/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|--|-----------|---------------|
| | | | | 2301-WW0126 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| | - Endrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Mirex | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 10-11/01/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692753 UTM 1522006

N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 รงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธิศักดิ์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

16/01/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

16/01/23



TEST REPORT

Analysis No. : R23-0068

Received Date: 10/01/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 16/01/23

Analysis Date : 09-16/01/23

Job No. : S660033/Jan

Sampling Date * : 09/01/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2301-WW0127 = black turbid/high black sediment/smell

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|---|----------|---------------|
| | | | | 2301-WW0127 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 30.1 | ≤ 45 | 09/01/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.46 | 5.5-9.0 | 09/01/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F) | 210 | 600 | 11/01/23 |
| | Color (pH 7) * | ADMI | | 179 | 600 | 11/01/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 40.8 | 200 | 11/01/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 874 | 3,000 | 11/01/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 0.26 | - | 09/01/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 76 | 500 | 11-16/01/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 236 | 750 | 11/01/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 7.7 | 10 | 13/01/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/ Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 27.28 | 100 | 11/01/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 3.66 | - | 12/01/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.002 | 0.2 | 11/01/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | 0.020 | 1.0 | 12/01/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | 8.54 | 1.0 | 10/01/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | 0.16 | 1.0 | 12/01/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 11/01/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 11/01/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 10/01/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 13/01/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0016 | 0.25 | 10/01/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 10/01/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.08 | 1.0 | 11/01/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 11/01/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.06 | 2.0 | 11/01/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.19 | 5.0 | 11/01/23 |

continue

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TEST REPORT

Analysis No. : R23-0068

Received Date: 10/01/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 16/01/23

Analysis Date : 09-16/01/23

Job No. : S660033/Jan

Sampling Date * : 09/01/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|---|-----------|---------------|
| | | | | 2301-WW0127 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.06 | 1.0 | 11/01/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 11/01/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.93 | 5.0 | 11/01/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 10-11/01/23 |

continue

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R23-0068
Received Date: 10/01/23
Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220

Report Date : 16/01/23
Analysis Date : 09-16/01/23
Job No. : S660033/Jan
Sampling Date * : 09/01/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|---|-----------|---------------|
| | | | | 2301-WW0127 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| | - Endrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Mirex | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 10-11/01/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0693115 UTM 1524114
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ของ พ.ร.บ. ควบคุมมลพิษ, วิทยาลัยเทคนิค วิทยาศาสตร์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

16/01/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager

16/01/23

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TEST REPORT

Analysis No. : R23-0068

Received Date: 10/01/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 16/01/23

Analysis Date : 09-16/01/23

Job No. : S660033/Jan

Sampling Date * : 09/01/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2301-WW0128 = yellow turbid/high white sediment

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|---------------|
| | | | | 2301-WW0128 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 32.1 | ≤ 40 | 09/01/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.48 | 5.5-9.0 | 09/01/23 |
| 3 | Color (Original pH) * | ADMI | } ADMI Weighted-Ordinate | 48 | 300 | 11/01/23 |
| | Color (pH 7) * | ADMI | | 40 | 300 | 11/01/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 12.1 | 50 | 11/01/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 1,859 | 3,000 | 11/01/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 2.14 | - | 09/01/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 6 | 20 | 11-16/01/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 70 | 120 | 11/01/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8 | 5 | 13/01/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 11.03 | 100 | 11/01/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.21 | - | 12/01/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.003 | 0.2 | 11/01/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 12/01/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 10/01/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 12/01/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 11/01/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 11/01/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 10/01/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 13/01/23 |
| 20 | As * | mg/L | } Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0011 | 0.25 | 10/01/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 10/01/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 1.0 | 11/01/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 11/01/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.11 | 2.0 | 11/01/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.24 | 5.0 | 11/01/23 |

continue

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TEST REPORT

Analysis No. : R23-0068

Received Date: 10/01/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 16/01/23

Analysis Date : 09-16/01/23

Job No. : S660033/Jan

Sampling Date * : 09/01/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2301-WW0128 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.05 | 1.0 | 11/01/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 11/01/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 1.56 | 5 | 11/01/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 10-11/01/23 |

continue

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TEST REPORT

Analysis No. : R23-0068
Received Date: 10/01/23
Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนคลองกรู แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220

Report Date : 16/01/23
Analysis Date : 09-16/01/23
Job No. : S660033/Jan
Sampling Date * : 09/01/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|---|-----------|---------------|
| | | | | 2301-WW0128 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| | - Endrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Mirex | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 10-11/01/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692545 UTM 1521950
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธศักดิ์

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

16/01/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager

16/01/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R23-0068

Received Date: 10/01/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 16/01/23

Analysis Date : 09-16/01/23

Job No. : S660033/Jan

Sampling Date * : 09/01/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2301-WW0129 = white turbid/slight white sediment

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|--|--|----------|---------------|
| | | | | 2301-WW0129 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 27.5 | ≤ 40 | 09/01/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.76 | 5.5-9.0 | 09/01/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate | 29 | 300 | 11/01/23 |
| | Color (pH 7) * | ADMI | Spectrophotometric Method (SM 2120 F) | 24 | 300 | 11/01/23 |
| 4 | TSS * | mg/L | Dried at 103-105 °C (SM 2540 D) | 6.3 | 50 | 11/01/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 856 | 3,000 | 11/01/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 2.70 | - | 09/01/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 4 | 20 | 11-16/01/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 38 | 120 | 11/01/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.6 | 5 | 13/01/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 2.27 | 100 | 11/01/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.35 | - | 12/01/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.2 | 11/01/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 12/01/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 10/01/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 12/01/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 11/01/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 11/01/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 10/01/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 13/01/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0011 | 0.25 | 10/01/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 10/01/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 1.0 | 11/01/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 11/01/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 2.0 | 11/01/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 5.0 | 11/01/23 |

continue

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TEST REPORT

Analysis No. : R23-0068

Received Date: 10/01/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 16/01/23

Analysis Date : 09-16/01/23

Job No. : S660033/Jan

Sampling Date * : 09/01/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|--|------|--|--|-----------|---------------|
| | | | | 2301-WW0129 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.03 | 1.0 | 11/01/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 11/01/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.27 | 5 | 11/01/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 10-11/01/23 |

continue

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TEST REPORT

Analysis No. : R23-0068

Received Date: 10/01/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรู แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 16/01/23

Analysis Date : 09-16/01/23

Job No. : S660033/Jan

Sampling Date * : 09/01/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|--|-----------|---------------|
| | | | | 2301-WW0129 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| | - Endrin | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Mirex | µg/L | | N.D. | Not found | 10-11/01/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 10-11/01/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0692998 UTM 1524184
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธิศักดิ์

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

16/01/23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

16/01/23

..... END OF REPORT



TEST REPORT

Analysis No. : R23-0453

Received Date: 16/02/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/02/23

Analysis Date : 15-21/02/23

Job No. : S660033/Feb

Sampling Date * : 15/02/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2302-WW0391 = gray turbid/high black sediment/smell

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|---------------|
| | | | | 2302-WW0391 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 33.3 | ≤ 45 | 15/02/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 6.92 | 5.5-9.0 | 15/02/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F) | 65 | 600 | 16/02/23 |
| | Color (pH 7) * | ADMI | | 80 | 600 | 16/02/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 164.7 | 200 | 17/02/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 1,083 | 3,000 | 17/02/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 1.37 | - | 15/02/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 135 | 500 | 16-21/02/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 349 | 750 | 17/02/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 23.3 | 10 | 20/02/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 35.10 | 100 | 20/02/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.21 | - | 17/02/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.023 | 0.2 | 16/02/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 20/02/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 17/02/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 17/02/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 17/02/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 17/02/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 17/02/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 16/02/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0010 | 0.25 | 17/02/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 17/02/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.07 | 1.0 | 17/02/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 17/02/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.13 | 2.0 | 17/02/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.38 | 5.0 | 17/02/23 |

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E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-0453

Received Date: 16/02/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/02/23

Analysis Date : 15-21/02/23

Job No. : S660033/Feb

Sampling Date * : 15/02/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2302-WW0391 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.04 | 1.0 | 17/02/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 17/02/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 1.61 | 5.0 | 17/02/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 20-21/02/23 |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-0453

Received Date: 16/02/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/02/23

Analysis Date : 15-21/02/23

Job No. : S660033/Feb

Sampling Date * : 15/02/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|--|-----------|---------------|
| | | | | 2302-WW0391 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| | - Endrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Mirex | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 20-21/02/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692753 UTM 1522006
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธิศักดิ์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

22, 2, 23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

22, 2, 23

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

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ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-0453

Received Date: 16/02/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/02/23

Analysis Date : 15-21/02/23

Job No. : S660033/Feb

Sampling Date * : 15/02/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2302-WW0392 = gray turbid/high black sediment/smell

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|---|----------|---------------|
| | | | | 2302-WW0392 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 30.3 | ≤ 45 | 15/02/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.41 | 5.5-9.0 | 15/02/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate | 253 | 600 | 16/02/23 |
| | Color (pH 7) * | ADMI | Spectrophotometric Method (SM 2120 F) | 210 | 600 | 16/02/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 111.0 | 200 | 17/02/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 493 | 3,000 | 17/02/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 1.63 | - | 15/02/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 86 | 500 | 16-21/02/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 253 | 750 | 17/02/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 11.4 | 10 | 20/02/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 26.75 | 100 | 20/02/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 1.84 | - | 17/02/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.004 | 0.2 | 16/02/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 20/02/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | 7.85 | 1.0 | 17/02/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 17/02/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 17/02/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | 0.03 | 0.75 | 17/02/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 17/02/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 16/02/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0012 | 0.25 | 17/02/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 17/02/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.08 | 1.0 | 17/02/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 17/02/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.37 | 2.0 | 17/02/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.13 | 5.0 | 17/02/23 |

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TEST REPORT

Analysis No. : R23-0453

Received Date: 16/02/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/02/23

Analysis Date : 15-21/02/23

Job No. : S660033/Feb

Sampling Date * : 15/02/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|---|-----------|---------------|
| | | | | 2302-WW0392 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.05 | 1.0 | 17/02/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 17/02/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.46 | 5.0 | 17/02/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 20-21/02/23 |

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1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-0453

Received Date: 16/02/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/02/23

Analysis Date : 15-21/02/23

Job No. : S660033/Feb

Sampling Date * : 15/02/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|---|-----------|---------------|
| | | | | 2302-WW0392 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| | - Endrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Mirex | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 20-21/02/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0693115 UTM 1524114
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธศักดิ์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

22/02/23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

22/02/23

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-0453

Received Date: 16/02/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/02/23

Analysis Date : 15-21/02/23

Job No. : S660033/Feb

Sampling Date * : 15/02/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2302-WW0393 = yellow turbid/slight black sediment

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|---------------|
| | | | | 2302-WW0393 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 34.7 | ≤ 40 | 15/02/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.68 | 5.5-9.0 | 15/02/23 |
| 3 | Color (Original pH) * | ADMI | } ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F) | 94 | 300 | 16/02/23 |
| | Color (pH 7) * | ADMI | | 53 | 300 | 16/02/23 |
| 4 | TSS * | mg/L | Dried at 103-105 °C (SM 2540 D) | 7.4 | 50 | 17/02/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 1,772 | 3,000 | 17/02/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 2.11 | - | 15/02/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 6 | 20 | 16-21/02/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 59 | 120 | 17/02/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 1.3 | 5 | 20/02/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 34.10 | 100 | 20/02/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.17 | - | 17/02/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.006 | 0.2 | 16/02/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 20/02/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 17/02/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 17/02/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 17/02/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 17/02/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 17/02/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 16/02/23 |
| 20 | As * | mg/L | } Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | < 0.0005 | 0.25 | 17/02/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 17/02/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.06 | 1.0 | 17/02/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 17/02/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.09 | 2.0 | 17/02/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.85 | 5.0 | 17/02/23 |

continue

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TEST REPORT

Analysis No. : R23-0453
Received Date: 16/02/23
Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220

Report Date : 22/02/23
Analysis Date : 15-21/02/23
Job No. : S660033/Feb
Sampling Date * : 15/02/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2302-WW0393 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.06 | 1.0 | 17/02/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 17/02/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.87 | 5 | 17/02/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 20-21/02/23 |

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-0453 **Report Date** : 22/02/23
Received Date : 16/02/23 **Analysis Date** : 15-21/02/23
Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง **Job No.** : S660033/Feb
Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520 **Sampling Date *** : 15/02/23
Contact : Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220 **Sampling By *** : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|---|-----------|---------------|
| | | | | 2302-WW0393 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| | - Endrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Mirex | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 20-21/02/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692545 UTM 1521950
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ของชัย พรวัฒนสวัสดิ์, วิทยาลัยถาวร วัตถุประสงค์

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
22/2/23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
22/2/23

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TEST REPORT

Analysis No. : R23-0453

Received Date: 16/02/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 22/02/23

Analysis Date : 15-21/02/23

Job No. : S660033/Feb

Sampling Date * : 15/02/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2302-WW0394 = yellow turbid/slight black sediment

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|--|--|----------|---------------|
| | | | | 2302-WW0394 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 30.2 | ≤ 40 | 15/02/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.75 | 5.5-9.0 | 15/02/23 |
| 3 | Color (Original pH) * | ADMI | } ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F) | 61 | 300 | 16/02/23 |
| | Color (pH 7) * | ADMI | | 44 | 300 | 16/02/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 15.2 | 50 | 17/02/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 792 | 3,000 | 17/02/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 1.94 | - | 15/02/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 5 | 20 | 16-21/02/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 50 | 120 | 17/02/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 1.2 | 5 | 20/02/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 23.59 | 100 | 20/02/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.23 | - | 17/02/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.2 | 16/02/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 20/02/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 17/02/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 17/02/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 17/02/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 17/02/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 17/02/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 16/02/23 |
| 20 | As * | mg/L | } Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | < 0.0005 | 0.25 | 17/02/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 17/02/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 1.0 | 17/02/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 17/02/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 2.0 | 17/02/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.18 | 5.0 | 17/02/23 |

continue

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-0453
Received Date: 16/02/23
Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220

Report Date : 22/02/23
Analysis Date : 15-21/02/23
Job No. : S660033/Feb
Sampling Date * : 15/02/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2302-WW0394 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.04 | 1.0 | 17/02/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 17/02/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.16 | 5 | 17/02/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 20-21/02/23 |

continue

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 12 of 12

TEST REPORT

Analysis No. : R23-0453
Received Date: 16/02/23
Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220

Report Date : 22/02/23
Analysis Date : 15-21/02/23
Job No. : S660033/Feb
Sampling Date * : 15/02/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|--|-----------|---------------|
| | | | | 2302-WW0394 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| | - Endrin | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Mirex | µg/L | | N.D. | Not found | 20-21/02/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 20-21/02/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0692998 UTM 1524184
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 รังชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิศุทธิ์ศักดิ์

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
16.2.23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
16.2.23

..... END OF REPORT

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TEST REPORT

Analysis No. : R23-1255

Received Date: 28/04/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาหัว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 08/05/23

Analysis Date : 27/04-05/05/23

Job No. : S660394/Apr

Sampling Date * : 27/04/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2304-WW0556 = white turbid/high black sediment/covered with oil slick/smell

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|----------------|
| | | | | 2304-WW0556 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 35.7 | ≤ 45 | 27/04/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.53 | 5.5-9.0 | 27/04/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate | 105 | 600 | 28/04/23 |
| | Color (pH 7) * | ADMI | Spectrophotometric Method (SM 2120 F) | 93 | 600 | 28/04/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 56.8 | 200 | 02/05/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 1,324 | 3,000 | 28/04/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 2.76 | - | 27/04/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 87 | 500 | 28/04-03/05/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 225 | 750 | 28/04/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 3.5 | 10 | 28/04/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 36.76 | 100 | 03/05/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.30 | - | 03/05/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.043 | 0.2 | 28/04/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 03/05/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 28/04/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 03/05/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 28/04/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 05/05/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 05/05/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 02/05/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0020 | 0.25 | 03/05/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 03/05/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.05 | 1.0 | 05/05/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 05/05/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.20 | 2.0 | 05/05/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.36 | 5.0 | 05/05/23 |

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- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R23-1255
Received Date: 28/04/23
Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220

Report Date : 08/05/23
Analysis Date : 27/04-05/05/23
Job No. : S660394/Apr
Sampling Date * : 27/04/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|----------------|
| | | | | 2304-WW0556 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.10 | 1.0 | 05/05/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 05/05/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.20 | 5.0 | 05/05/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 28/04-02/05/23 |

continue

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TEST REPORT

Analysis No. : R23-1255

Received Date: 28/04/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 08/05/23

Analysis Date : 27/04-05/05/23

Job No. : S660394/Apr

Sampling Date * : 27/04/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|--|-----------|----------------|
| | | | | 2304-WW0556 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| | - Endrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Mirex | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 28/04-02/05/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692753 UTM 1522006
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรหมสวัสดิ์, วิทยาลัยเทคนิค วิศวกรรมศาสตร์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

08/05/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

08/05/23

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TEST REPORT

Analysis No. : R23-1255

Received Date: 28/04/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 08/05/23

Analysis Date : 27/04-05/05/23

Job No. : S660394/Apr

Sampling Date * : 27/04/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2304-WW0557 = white turbid/high white sediment/covered with oil slick/smell

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|---|----------|----------------|
| | | | | 2304-WW0557 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 33.2 | ≤ 45 | 27/04/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.65 | 5.5-9.0 | 27/04/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F) | 275 | 600 | 28/04/23 |
| | Color (pH 7) * | ADMI | | 216 | 600 | 28/04/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 40.5 | 200 | 02/05/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 464 | 3,000 | 28/04/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 0.05 | - | 27/04/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 78 | 500 | 28/04-03/05/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 221 | 750 | 28/04/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 5.5 | 10 | 28/04/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 25.17 | 100 | 03/05/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 1.73 | - | 03/05/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.001 | 0.2 | 28/04/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 03/05/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | 8.58 | 1.0 | 28/04/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(m) | < 0.01 | 1.0 | 03/05/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 28/04/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 05/05/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 05/05/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 02/05/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0013 | 0.25 | 03/05/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 03/05/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.06 | 1.0 | 05/05/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 05/05/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.19 | 2.0 | 05/05/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.13 | 5.0 | 05/05/23 |

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TEST REPORT

Analysis No. : R23-1255

Received Date: 28/04/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 08/05/23

Analysis Date : 27/04-05/05/23

Job No. : S660394/Apr

Sampling Date * : 27/04/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|----------------|
| | | | | 2304-WW0557 น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.04 | 1.0 | 05/05/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 05/05/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.27 | 5.0 | 05/05/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 28/04-02/05/23 |

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 6 of 12

TEST REPORT

Analysis No. : R23-1255

Received Date: 28/04/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 08/05/23

Analysis Date : 27/04-05/05/23

Job No. : S660394/Apr

Sampling Date * : 27/04/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|---|-----------|----------------|
| | | | | 2304-WW0557 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| | - Endrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Mirex | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 28/04-02/05/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0693115 UTM 1524114

N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 รังษย พรหมสวัสดิ์, วิทยาลัยเกษตร วิสุทธรักษ์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

08/05/23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

08/05/23

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1255

Received Date: 28/04/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 08/05/23

Analysis Date : 27/04-05/05/23

Job No. : S660394/Apr

Sampling Date * : 27/04/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2304-WW0558 = white turbid/high white sediment/covered with oil slick

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|----------------|
| | | | | 2304-WW0558 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 34.6 | ≤ 40 | 27/04/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.65 | 5.5-9.0 | 27/04/23 |
| 3 | Color (Original pH) * | ADMI | } ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F) | 42 | 300 | 28/04/23 |
| | Color (pH 7) * | ADMI | | 33 | 300 | 28/04/23 |
| 4 | TSS * | mg/L | Dried at 103-105 °C (SM 2540 D) | 8.4 | 50 | 02/05/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 1,197 | 3,000 | 28/04/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 2.32 | - | 27/04/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 2 | 20 | 28/04-03/05/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 20 | 120 | 28/04/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 1.0 | 5 | 28/04/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 17.76 | 100 | 03/05/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.02 | - | 03/05/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.003 | 0.2 | 28/04/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 03/05/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 28/04/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 03/05/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 28/04/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 05/05/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 05/05/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 02/05/23 |
| 20 | As * | mg/L | } Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0012 | 0.25 | 03/05/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 03/05/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 1.0 | 05/05/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 05/05/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 2.0 | 05/05/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.38 | 5.0 | 05/05/23 |

continue

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TEST REPORT

Analysis No. : R23-1255

Received Date: 28/04/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 08/05/23

Analysis Date : 27/04-05/05/23

Job No. : S660394/Apr

Sampling Date * : 27/04/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|----------------|
| | | | | 2304-WW0558 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.04 | 1.0 | 05/05/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 05/05/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.50 | 5 | 05/05/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 28/04-02/05/23 |

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-1255

Received Date: 28/04/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 08/05/23

Analysis Date : 27/04-05/05/23

Job No. : S660394/Apr

Sampling Date * : 27/04/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|---|-----------|----------------|
| | | | | 2304-WW0558 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| | - Endrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Mirex | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 28/04-02/05/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692648 UTM 1522000
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธศักดิ์

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

08/05/23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

08/05/23

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

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TEST REPORT

Analysis No. : R23-1255

Received Date: 28/04/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 08/05/23

Analysis Date : 27/04-05/05/23

Job No. : S660394/Apr

Sampling Date * : 27/04/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2304-WW0559 = clear/high black sediment/covered with oil slick

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|----------------|
| | | | | 2304-WW0559 | | |
| | | | | น้ำทิ้งก่อนระบายออกจาก ระบบบำบัดน้ำเสียส่วนกลาง ของนิคมฯ ระยะที่ 3 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 31.6 | ≤ 40 | 27/04/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.91 | 5.5-9.0 | 27/04/23 |
| 3 | Color (Original pH) * | ADMI | } ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F) | 29 | 300 | 28/04/23 |
| | Color (pH 7) * | ADMI | | 28 | 300 | 28/04/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 10.1 | 50 | 02/05/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 382 | 3,000 | 28/04/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 1.81 | - | 27/04/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 2 | 20 | 28/04-03/05/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 22 | 120 | 28/04/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 1.2 | 5 | 28/04/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 16.29 | 100 | 03/05/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.37 | - | 03/05/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ₂ B/E) | < 0.001 | 0.2 | 28/04/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 03/05/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 28/04/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 03/05/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 28/04/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 05/05/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 05/05/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 02/05/23 |
| 20 | As * | mg/L | } Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0010 | 0.25 | 03/05/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 03/05/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 1.0 | 05/05/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 05/05/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 2.0 | 05/05/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.10 | 5.0 | 05/05/23 |

continue

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 11 of 12

TEST REPORT

Analysis No. : R23-1255

Received Date: 28/04/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 08/05/23

Analysis Date : 27/04-05/05/23

Job No. : S660394/Apr

Sampling Date * : 27/04/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|----------------|
| | | | | 2304-WW0559 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.03 | 1.0 | 05/05/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 05/05/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.05 | 5 | 05/05/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 28/04-02/05/23 |

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**TET**

Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



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E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 12 of 12

TEST REPORT

Analysis No. : R23-1255

Report Date : 08/05/23

Received Date: 28/04/23

Analysis Date : 27/04-05/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Job No. : S660394/Apr

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Sampling Date * : 27/04/23

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|--|-----------|----------------|
| | | | | 2304-WW0559 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| | - Endrin | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Mirex | µg/L | | N.D. | Not found | 28/04-02/05/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 28/04-02/05/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0692998 UTM 1524184
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธศักดิ์

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

08, 05, 23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager

08, 05, 23

END OF REPORT

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2305-WW0555 = white turbid/high white sediment

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|---------------|
| | | | | 2305-WW0555 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 36.0 | ≤ 45 | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.25 | 5.5-9.0 | 24/05/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate | 135 | 600 | 25/05/23 |
| | Color (pH 7) * | ADMI | Spectrophotometric Method (SM 2120 F) | 133 | 600 | 25/05/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 130.7 | 200 | 26/05/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 1,651 | 3,000 | 26/05/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 1.27 | - | 24/05/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 114 | 500 | 25-30/05/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 439 | 750 | 26/05/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 9.3 | 10 | 26/05/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 36.67 | 100 | 29/05/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 1.02 | - | 25/05/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.017 | 0.2 | 26/05/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 30/05/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 26/05/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 30/05/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 25/05/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 26/05/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 25/05/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 25/05/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0014 | 0.25 | 29/05/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 29/05/23 |
| 22 | Ba | mg/L | | 0.06 | 1.0 | 26/05/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 26/05/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.17 | 2.0 | 26/05/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.58 | 5.0 | 26/05/23 |

continue

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TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2305-WW0555 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.09 | 1.0 | 26/05/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 26/05/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.89 | 5.0 | 26/05/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 26-29/05/23 |

continue

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



ORIGINAL
ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240
1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

E-mail : admin@tet1995.com

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 5 of 25

TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|--|-----------|---------------|
| | | | | 2305-WW0555 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| | - Endrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Mirex | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 26-29/05/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692753 UTM 1522006
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธิศักดิ์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

07.06.23



Approved by

Mrs. Pornip Pethshee
Laboratory Manager

07.06.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2305-WW0556 = yellow turbid/high black sediment/smell

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|---|----------|---------------|
| | | | | 2305-WW0556 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 33.9 | ≤ 45 | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.72 | 5.5-9.0 | 24/05/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate | 212 | 600 | 25/05/23 |
| | Color (pH 7) * | ADMI | Spectrophotometric Method (SM 2120 F) | 206 | 600 | 25/05/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 25.9 | 200 | 26/05/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 721 | 3,000 | 26/05/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 0.82 | - | 24/05/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 77 | 500 | 25-30/05/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 227 | 750 | 26/05/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 7.1 | 10 | 26/05/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 23.36 | 100 | 29/05/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 1.98 | - | 25/05/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.001 | 0.2 | 26/05/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 30/05/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | 18.81 | 1.0 | 26/05/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 30/05/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 25/05/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 26/05/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 25/05/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 25/05/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0016 | 0.25 | 29/05/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 29/05/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.07 | 1.0 | 26/05/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 26/05/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.09 | 2.0 | 26/05/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.12 | 5.0 | 26/05/23 |

continue

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TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2305-WW0556 น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.04 | 1.0 | 26/05/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 26/05/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.25 | 5.0 | 26/05/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 26-29/05/23 |

continue

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



ORIGINAL
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E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 8 of 25

TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|---|-----------|---------------|
| | | | | 2305-WW0556 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| | - Endrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Mirex | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 26-29/05/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0693115 UTM 1524114
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ราชบัณฑิตยสถาน, วิทยาลัยการสัตวบาล วิทยาลัยการสัตวบาล

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

07/06/23



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

07/06/23

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2305-WW0557 = yellow turbid/high black sediment

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|---------------|
| | | | | 2305-WW0557 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 36.1 | ≤ 40 | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.57 | 5.5-9.0 | 24/05/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate | 50 | 300 | 25/05/23 |
| | Color (pH 7) * | ADMI | Spectrophotometric Method (SM 2120 F) | 49 | 300 | 25/05/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 15.9 | 50 | 26/05/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 1,635 | 3,000 | 26/05/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 2.37 | - | 24/05/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 7 | 20 | 25-30/05/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 71 | 120 | 26/05/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 1.0 | 5 | 26/05/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 34.30 | 100 | 29/05/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.14 | - | 25/05/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.002 | 0.2 | 26/05/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 30/05/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 26/05/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 30/05/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 25/05/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 26/05/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 25/05/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 25/05/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0008 | 0.25 | 29/05/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 29/05/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.05 | 1.0 | 26/05/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 26/05/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.06 | 2.0 | 26/05/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.56 | 5.0 | 26/05/23 |

continue

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TEST REPORT

Analysis No. : R23-1541
Received Date: 25/05/23
Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220

Report Date : 07/06/23
Analysis Date : 24-30/05/23
Job No. : S660394/May
Sampling Date * : 24/05/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2305-WW0557 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.05 | 1.0 | 26/05/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 26/05/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.89 | 5 | 26/05/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 26-29/05/23 |

continue

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Thai Environmental Technic Limited
บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด



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E-mail : admin@tet1995.com
Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-1541
Received Date: 25/05/23
Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220

Report Date : 07/06/23
Analysis Date : 24-30/05/23
Job No. : S660394/May
Sampling Date * : 24/05/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|---|-----------|---------------|
| | | | | 2305-WW0557 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| | - Endrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Mirex | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 26-29/05/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692648 UTM 1522000
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรรณสวัสดิ์, วิทยาลัยเกษตรและเทคโนโลยีสุพรรณบุรี

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
07.06.23



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
07.06.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R23-1541
Received Date: 25/05/23
Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220
Sample Conditions : 2305-WW0558 = yellow turbid/high yellow sediment

Report Date : 07/06/23
Analysis Date : 24-30/05/23
Job No. : S660394/May
Sampling Date * : 24/05/23
Sampling By * : TET
Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|---------------|
| | | | | 2305-WW0558 | | |
| | | | | น้ำทิ้งก่อนระบายออกจาก ระบบบำบัดน้ำเสียส่วนกลาง ของนิคมฯ ระยะที่ 3 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 33.0 | ≤ 40 | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.90 | 5.5-9.0 | 24/05/23 |
| 3 | Color (Original pH) * | ADMI | } ADMI Weighted-Ordinate | 38 | 300 | 25/05/23 |
| | Color (pH 7) * | ADMI | | 37 | 300 | 25/05/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 15.4 | 50 | 26/05/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 735 | 3,000 | 26/05/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 2.32 | - | 24/05/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 7 | 20 | 25-30/05/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 69 | 120 | 26/05/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 0.8 | 5 | 26/05/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 14.90 | 100 | 29/05/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.76 | - | 25/05/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.2 | 26/05/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 30/05/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 26/05/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 30/05/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 25/05/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 26/05/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 25/05/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 25/05/23 |
| 20 | As * | mg/L | } Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0012 | 0.25 | 29/05/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 29/05/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 1.0 | 26/05/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 26/05/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 2.0 | 26/05/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.14 | 5.0 | 26/05/23 |

continue

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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Thai Environmental Technic Limited
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1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

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1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2305-WW0558 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.04 | 1.0 | 26/05/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 26/05/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.07 | 5 | 26/05/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 26-29/05/23 |

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|--|-----------|---------------|
| | | | | 2305-WW0558 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| | - Endrin | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Mirex | µg/L | | N.D. | Not found | 26-29/05/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 26-29/05/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0692998 UTM 1524184
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิทยาลัยเกษตรและเทคโนโลยีสุพรรณบุรี

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1819

Received Date: 14/06/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 20/06/23

Analysis Date : 13-19/06/23

Job No. : S660394/June

Sampling Date * : 13/06/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2306-WW0447 = light yellow/slight black sediment/covered with oil slick/smell

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|---------------|
| | | | | 2306-WW0447 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 35.8 | ≤ 45 | 13/06/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.87 | 5.5-9.0 | 13/06/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F) | 51 | 600 | 16/06/23 |
| | Color (pH 7) * | ADMI | | 45 | 600 | 16/06/23 |
| 4 | TSS * | mg/L | Dried at 103-105 °C (SM 2540 D) | 8.2 | 200 | 16/06/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 1,474 | 3,000 | 14/06/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 0.71 | - | 13/06/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 6 | 500 | 14-19/06/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 55 | 750 | 16/06/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 2.1 | 10 | 19/06/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 55.71 | 100 | 16/06/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.16 | - | 19/06/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.003 | 0.2 | 15/06/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 19/06/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 15/06/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 16/06/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 14/06/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 15/06/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 15/06/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 19/06/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0010 | 0.25 | 15/06/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 15/06/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 1.0 | 15/06/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 15/06/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.66 | 2.0 | 15/06/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.43 | 5.0 | 15/06/23 |

continue



TEST REPORT

Analysis No. : R23-1819

Received Date: 14/06/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 20/06/23

Analysis Date : 13-19/06/23

Job No. : S660394/June

Sampling Date * : 13/06/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2306-WW0447 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.13 | 1.0 | 15/06/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 15/06/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 5.0 | 15/06/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 14-16/06/23 |

continue

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



ORIGINAL
ต้นฉบับ

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E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

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TEST REPORT

Analysis No. : R23-1819

Received Date: 14/06/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 20/06/23

Analysis Date : 13-19/06/23

Job No. : S660394/June

Sampling Date * : 13/06/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|--|-----------|---------------|
| | | | | 2306-WW0447 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| | - Endrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Mirex | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 14-16/06/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692753 UTM 1522006
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ชงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธิสักดิ์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

20, 06, 23



Approved by

Mrs. Pornpip Pethishee

Laboratory Manager

20, 06, 23

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

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TEST REPORT

Analysis No. : R23-1819

Received Date: 14/06/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 20/06/23

Analysis Date : 13-19/06/23

Job No. : S660394/June

Sampling Date * : 13/06/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2306-WW0448 = yellow turbid/high black sediment/covered with oil slick/smell

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|---|----------|---------------|
| | | | | 2306-WW0448 น้ำเสียก่อนเข้าระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 34.1 | ≤ 45 | 13/06/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.61 | 5.5-9.0 | 13/06/23 |
| 3 | Color (Original pH) * | ADMI | ADMI Weighted-Ordinate | 98 | 600 | 16/06/23 |
| | Color (pH 7) * | ADMI | Spectrophotometric Method (SM 2120 F) | 125 | 600 | 16/06/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 43.0 | 200 | 16/06/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 788 | 3,000 | 14/06/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 0.60 | - | 13/06/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 56 | 500 | 14-19/06/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 207 | 750 | 16/06/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 11.1 | 10 | 19/06/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 23.66 | 100 | 16/06/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 2.10 | - | 19/06/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.2 | 15/06/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 19/06/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | 4.68 | 1.0 | 15/06/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 16/06/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 14/06/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | 0.02 | 0.75 | 16/06/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 15/06/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 19/06/23 |
| 20 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0012 | 0.25 | 15/06/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 15/06/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.05 | 1.0 | 16/06/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 16/06/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.05 | 2.0 | 16/06/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.09 | 5.0 | 16/06/23 |

continue

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TEST REPORT

Analysis No. : R23-1819

Received Date: 14/06/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 20/06/23

Analysis Date : 13-19/06/23

Job No. : S660394/June

Sampling Date * : 13/06/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2306-WW0448 น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.03 | 1.0 | 16/06/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 16/06/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.25 | 5.0 | 16/06/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 14-16/06/23 |

continue

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Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



ORIGINAL

ต้นฉบับ

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E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 6 of 12

TEST REPORT

Analysis No. : R23-1819

Report Date : 20/06/23

Received Date: 14/06/23

Analysis Date : 13-19/06/23

Customer : Technical Division of Thai Environmental Technic Limited

Job No. : S660394/June

For นิคมอุตสาหกรรมลาดกระบัง

Sampling Date * : 13/06/23

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Sampling By * : TET

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|---|-----------|---------------|
| | | | | 2306-WW0448 | | |
| | | | | น้ำเสียก่อนเข้าระบบบำบัดน้ำเสีย ส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| | - Endrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Mirex | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 14-16/06/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำเสียก่อนเข้าระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0693115 UTM 1524114
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ราชัย พรหมสวัสดิ์, วิทยาลัยกมล วิศวกรรมศาสตร์

Standard : Notification of the Industrial Estate Authority of Thailand No. 76 (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

20, 06/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

20, 06/23

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1819

Received Date: 14/06/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 20/06/23

Analysis Date : 13-19/06/23

Job No. : S660394/June

Sampling Date * : 13/06/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2306-WW0449 = light yellow/slight black sediment/covered with oil slick/smell

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|---------------|
| | | | | 2306-WW0449 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 35.2 | ≤ 40 | 13/06/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.51 | 5.5-9.0 | 13/06/23 |
| 3 | Color (Original pH) * | ADMI | } ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F) | 73 | 300 | 16/06/23 |
| | Color (pH 7) * | ADMI | | 45 | 300 | 16/06/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 19.8 | 50 | 16/06/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 1,448 | 3,000 | 14/06/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 2.34 | - | 13/06/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 9 | 20 | 14-19/06/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 82 | 120 | 16/06/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 1.2 | 5 | 19/06/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 37.46 | 100 | 16/06/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.05 | - | 19/06/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | 0.002 | 0.2 | 15/06/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 19/06/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 15/06/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 16/06/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 14/06/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 16/06/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 15/06/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 19/06/23 |
| 20 | As * | mg/L | } Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0010 | 0.25 | 15/06/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 15/06/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 1.0 | 16/06/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 16/06/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 2.0 | 16/06/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.36 | 5.0 | 16/06/23 |

continue

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด



ORIGINAL

ต้นฉบับ

1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

Page 8 of 12

TEST REPORT

Analysis No. : R23-1819

Received Date: 14/06/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 20/06/23

Analysis Date : 13-19/06/23

Job No. : S660394/June

Sampling Date * : 13/06/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2306-WW0449 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบ บำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.04 | 1.0 | 16/06/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 16/06/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.70 | 5 | 16/06/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 14-16/06/23 |

continue

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R23-1819

Received Date: 14/06/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 20/06/23

Analysis Date : 13-19/06/23

Job No. : S660394/June

Sampling Date * : 13/06/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|---|-----------|---------------|
| | | | | 2306-WW0449 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 | | |
| | - Endrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Mirex | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 14-16/06/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0692648 UTM 1522000
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ทรงชัย พรพรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธิศักดิ์

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory



Approved by

Mrs. Pomtip Pethshee
Laboratory Manager



TEST REPORT

Analysis No. : R23-1819

Received Date: 14/06/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 20/06/23

Analysis Date : 13-19/06/23

Job No. : S660394/June

Sampling Date * : 13/06/23

Sampling By * : TET

Type of Sample : Wastewater

Sample Conditions : 2306-WW0450 = light yellow/slight black sediment

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|-----------------------|------|---|--|----------|---------------|
| | | | | 2306-WW0450 | | |
| | | | | น้ำทิ้งก่อนระบายออกจาก ระบบบำบัดน้ำเสียส่วนกลาง ของนิคมฯ ระยะที่ 3 | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 32.4 | ≤ 40 | 13/06/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.91 | 5.5-9.0 | 13/06/23 |
| 3 | Color (Original pH) * | ADMI | } ADMI Weighted-Ordinate Spectrophotometric Method (SM 2120 F) | 29 | 300 | 16/06/23 |
| | Color (pH 7) * | ADMI | | 26 | 300 | 16/06/23 |
| 4 | TSS | mg/L | Dried at 103-105 °C (SM 2540 D) | 10.8 | 50 | 16/06/23 |
| 5 | TDS * | mg/L | Dried at 180 °C (SM 2540 C) | 830 | 3,000 | 14/06/23 |
| 6 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 2.37 | - | 13/06/23 |
| 7 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 6 | 20 | 14-19/06/23 |
| 8 | COD * | mg/L | Closed Reflux Titrimetric Method (SM 5220 C) | 57 | 120 | 16/06/23 |
| 9 | Oil & Grease * | mg/L | Liquid-Liquid, Partition Gravimetric Method (SM 5520 B) | 1.4 | 5 | 19/06/23 |
| 10 | TKN * | mg/L | Macro-Kjeldahl/Titrimetric Method (SM 4500-N _{org} B&4500-NH ₃ C) | 14.79 | 100 | 16/06/23 |
| 11 | Total P * | mg/L | Ascorbic Acid (Colorimetric) (SM 4500-P E) | 0.61 | - | 19/06/23 |
| 12 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.2 | 15/06/23 |
| 13 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 1.0 | 19/06/23 |
| 14 | Sulfide * | mg/L | ZnS Precipitation, Methylene Blue Colorimetric Method (SM 4500-S ²⁻ D) | < 0.01 | 1.0 | 15/06/23 |
| 15 | Formaldehyde * | mg/L | Distillation, Colorimetric Method ^(B) | < 0.01 | 1.0 | 16/06/23 |
| 16 | Free Chlorine * | mg/L | DPD Ferrous Titrimetric (SM 4500-Cl ₂ F) | < 0.01 | 1.0 | 14/06/23 |
| 17 | Cr ⁺³ * | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) ; Filtration, Colorimetric Method (SM 3500-Cr B); Calculation | < 0.02 | 0.75 | 15/06/23 |
| 18 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.25 | 15/06/23 |
| 19 | Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.005 | 19/06/23 |
| 20 | As * | mg/L | } Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0009 | 0.25 | 15/06/23 |
| 21 | Se * | mg/L | | < 0.0005 | 0.02 | 15/06/23 |
| 22 | Ba | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 1.0 | 15/06/23 |
| 23 | Cd | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.02 | 0.03 | 15/06/23 |
| 24 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 2.0 | 15/06/23 |
| 25 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.13 | 5.0 | 15/06/23 |

continue



TEST REPORT

Analysis No. : R23-1819

Received Date: 14/06/23

Customer : Technical Division of Thai Environmental Technic Limited

For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 20/06/23

Analysis Date : 13-19/06/23

Job No. : S660394/June

Sampling Date * : 13/06/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|---|------|--|--|-----------|---------------|
| | | | | 2306-WW0450 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัด น้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| 26 | Ni | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.02 | 1.0 | 15/06/23 |
| 27 | Pb | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 0.2 | 15/06/23 |
| 28 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 5 | 15/06/23 |
| 29 | Pesticide * | | LLE, GC/ECD (SM 6630 B) | | | |
| | - alpha-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Hexachlorobenzene | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - beta-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - gamma-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - delta-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - epsilon-HCH | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Aldrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Isodrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor-exo-epoxide (cis-isomer B) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - oxy-Chlordane | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor-endo-epoxide (trans-isomer A) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - trans-chlordane (gamma) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDE | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - alpha-Endosulfan | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - cis-Chlordane (alpha) | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Dieldrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDE | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDD | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - beta-Endosulfan | µg/L | | N.D. | Not found | 14-16/06/23 |

continue

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



Analysis No. : R23-1819

Received Date: 14/06/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนจลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

TEST REPORT

Report Date : 20/06/23

Analysis Date : 13-19/06/23

Job No. : S660394/June

Sampling Date * : 13/06/23

Sampling By * : TET

Type of Sample : Wastewater

| Item | Parameter | Unit | Method ^(A) | Result | Standard | Analysis Date |
|------|----------------------|------|-----------------------|--|-----------|---------------|
| | | | | 2306-WW0450 | | |
| | | | | น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | |
| | - Endrin | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDD | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 2,4-DDT | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - 4,4-DDT | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Methoxychlor | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Mirex | µg/L | | N.D. | Not found | 14-16/06/23 |
| | - Heptachlor Epoxide | µg/L | | N.D. | Not found | 14-16/06/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำทิ้งก่อนระบายออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0692998 UTM 1524184
N.D. = Not Detectable (Less than 0.10 µg/L)

Method (A) SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

(B) คู่มือวิเคราะห์น้ำเสีย พิมพ์ครั้งที่ 3 ธงชัย พรหมสวัสดิ์, วิบูลย์ลักษณ์ วิสุทธิศักดิ์

Standard : Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
10, 06/23



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
10, 06/23

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Surface Water

Sample Conditions : 2305-WF0559 = green turbid/high green sediment, Flow Rate = - m³/s, Odor = no smell

| Item | Parameter | Unit | Method | Result | Standard ⁽¹⁾ | | Analysis Date |
|------|---------------------------|---------------------------|---|-------------------------|-------------------------|---------------------|---------------|
| | | | | 2305-WF0559 | Class 3 | Class 4 | |
| | | | | คลอโรฟอร์ม | | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 32.7 | 35.5 ⁽²⁾ | 35.5 ⁽²⁾ | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.81 | 5.0-9.0 | 5.0-9.0 | 24/05/23 |
| 3 | Color * | Pt-Co Unit | Spectrophotometric- Single-Wavelength Method (SM 2120C) | 25 | ไม่เกินที่พ้องกับ | ไม่เกินที่พ้องกับ | 25/05/23 |
| 4 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 4.29 | ≥ 4.0 | ≥ 2.0 | 24/05/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 7 | ≤ 2.0 | ≤ 4.0 | 25-30/05/23 |
| 6 | Total Hardness * | mg/L as CaCO ₃ | EDTA Titrimetric (SM 2340 C) | 311.1 | - | - | 26/05/23 |
| 7 | NO ₃ -N * | mg/L | Cadmium Reduction (SM 4500-NO ₃ E) | < 0.01 | 5.0 | 5.0 | 25/05/23 |
| 8 | NH ₃ -N * | mg/L | Distillation/Titrimetric Method (SM 4500-NH ₃ C) | 9.17 | 0.5 | 0.5 | 29/05/23 |
| 9 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.005 | 0.005 | 26/05/23 |
| 10 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 0.005 | 0.005 | 30/05/23 |
| 11 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.05 | 0.05 | 25/05/23 |
| 12 | Pb * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 | 0.05 | 30/05/23 |
| 13 | Cd * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 ⁽³⁾ | 0.05 ⁽³⁾ | 26/05/23 |
| 14 | Ni * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | 0.018 | 0.1 | 0.1 | 26/05/23 |
| 15 | Total Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.002 | 0.002 | 25/05/23 |
| 16 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0026 | 0.01 | 0.01 | 29/05/23 |
| 17 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 0.1 | 0.1 | 26/05/23 |
| 18 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.64 | 1.0 | 1.0 | 26/05/23 |
| 19 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 1.0 | 1.0 | 26/05/23 |
| 20 | Fecal Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E) | 9.2 x 10 ⁴ | 4,000 | - | 26-30/05/23 |
| 21 | Total Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 B&C) | > 1.6 x 10 ⁵ | 20,000 | - | 26-30/05/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: คลอโรฟอร์ม = 47P 0692295 UTM 1524360
- น้ำนิ่งไม่ไหล

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the National Environment Board No. 8 (1994) (B.E. 2537) : Class 3 and Class 4

(2) อุณหภูมิ (Temperature) ไม่สูงกว่าอุณหภูมิมาตรฐานตามธรรมชาติเกิน 3 องศาเซลเซียส
(อ้างอิงอุณหภูมิมาตรฐานตามธรรมชาติ จุดเหนือน้ำขึ้นไป 500 เมตร คลอโรฟอร์ม ตรวจวัดเมื่อวันที่ 24/05/2023 มีค่าเท่ากับ 32.5 °C ดังนั้นมาตรฐานอุณหภูมิคุณภาพน้ำผิวดิน คือ 32.5 °C + 3 °C = 35.5 °C)

(3) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

07/06/23

Approved by

Mrs. Porntip Pethshee

Laboratory Manager

07/06/23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Surface Water

Sample Conditions : 2305-WF0560 = yellow turbid/high black sediment/smell, Flow Rate = - m³/s, Odor = smell

| Item | Parameter | Unit | Method | Result | Standard ⁽¹⁾ | | Analysis Date |
|------|---------------------------|---------------------------|--|-------------------------|-------------------------|---------------------|------------------|
| | | | | 2305-WF0560 | | | |
| | | | | ทดลองลำชาวดเคย | Class 3 | Class 4 | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 31.8 | 34.5 ⁽²⁾ | 34.5 ⁽²⁾ | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.74 | 5.0-9.0 | 5.0-9.0 | 24/05/23 |
| 3 | Color * | Pt-Co Unit | Spectrophotometric- Single-Wavelength Method (SM 2120C) | 37 | ไม่เกินที่พร้อมกึ่ง | ไม่เกินที่พร้อมกึ่ง | 25/05/23 |
| 4 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 4.01 | ≥ 4.0 | ≥ 2.0 | 24/05/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 34 | ≤ 2.0 | ≤ 4.0 | 25-30/05/23 |
| 6 | Total Hardness * | mg/L as CaCO ₃ | EDTA Titrimetric (SM 2340 C) | 236.0 | - | - | 26/05/23 |
| 7 | NO ₃ -N * | mg/L | Cadmium Reduction (SM 4500-NO ₃ E) | < 0.01 | 5.0 | 5.0 | 25/05/23 |
| 8 | NH ₃ -N * | mg/L | Distillation/Titrimetric Method (SM 4500-NH ₃ C) | 30.75 | 0.5 | 0.5 | 29/05/23 |
| 9 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.005 | 0.005 | 26/05/23 |
| 10 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 0.005 | 0.005 | 30/05/23 |
| 11 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.05 | 0.05 | 25/05/23 |
| 12 | Pb * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 | 0.05 | 30/05/23 |
| 13 | Cd * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 ⁽³⁾ | 0.05 ⁽³⁾ | 26/05/23 |
| 14 | Ni * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | 0.008 | 0.1 | 0.1 | 26/05/23 |
| 15 | Total Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.002 | 0.002 | 25/05/23 |
| 16 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0061 | 0.01 | 0.01 | 29/05/23 |
| 17 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 0.1 | 0.1 | 26/05/23 |
| 18 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.21 | 1.0 | 1.0 | 26/05/23 |
| 19 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.10 | 1.0 | 1.0 | 26/05/23 |
| 20 | Fecal Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E) | > 1.6 x 10 ⁵ | 4,000 | - | 26-30/05/23 |
| 21 | Total Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 B&C) | > 1.6 x 10 ⁵ | 20,000 | - | 26-30/05/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: คล่องลำชาวดเคย = 47P 0694195 UTM 1521161
- น้ำนิ่งไม่ไหล

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the National Environment Board No. 8 (1994) (B.E. 2537) : Class 3 and Class 4

(2) อุณหภูมิ (Temperature) ไม่สูงกว่าอุณหภูมิตามธรรมชาติเกิน 3 องศาเซลเซียส
(อ้างอิงอุณหภูมิสภาพธรรมชาติ จุดเหนือน้ำขึ้นไป 500 เมตร คล่องลำชาวดเคย ตรวจวัดเมื่อวันที่ 24/05/23 มีค่าเท่ากับ 31.5 °C ดังนั้นมาตรฐานอุณหภูมิคุณภาพน้ำผิวดิน คือ 31.5 °C + 3 °C = 34.5 °C)

(3) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

07.06.23

Approved by

Mrs. Porntip Pethshee

Laboratory Manager

07.06.23

● REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

● DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Surface Water

Sample Conditions : 2305-WF0561 = yellow turbid/high yellow sediment, Flow Rate = - m³/s, Odor = no smell

| Item | Parameter | Unit | Method | Result | Standard ⁽¹⁾ | | Analysis Date |
|------|---------------------------|---------------------------|---|-----------------------|-------------------------|---------------------|---------------|
| | | | | 2305-WF0561 | | | |
| | | | | คลองลำแตงโม | Class 3 | Class 4 | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 30.9 | 33.6 ⁽²⁾ | 33.6 ⁽²⁾ | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.94 | 5.0-9.0 | 5.0-9.0 | 24/05/23 |
| 3 | Color * | Pt-Co Unit | Spectrophotometric- Single-Wavelength Method (SM 2120C) | 55 | ไม่เกินที่คิดร้อยละ | ไม่เกินที่คิดร้อยละ | 25/05/23 |
| 4 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 4.34 | ≥ 4.0 | ≥ 2.0 | 24/05/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 2 | ≤ 2.0 | ≤ 4.0 | 25-30/05/23 |
| 6 | Total Hardness * | mg/L as CaCO ₃ | EDTA Titrimetric (SM 2340 C) | 259.8 | - | - | 26/05/23 |
| 7 | NO ₃ -N * | mg/L | Cadmium Reduction (SM 4500-NO ₃ E) | 0.06 | 5.0 | 5.0 | 25/05/23 |
| 8 | NH ₃ -N * | mg/L | Distillation/Titrimetric Method (SM 4500-NH ₃ C) | < 0.10 | 0.5 | 0.5 | 29/05/23 |
| 9 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.005 | 0.005 | 26/05/23 |
| 10 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 0.005 | 0.005 | 30/05/23 |
| 11 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.05 | 0.05 | 25/05/23 |
| 12 | Pb * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 | 0.05 | 30/05/23 |
| 13 | Cd * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 ⁽³⁾ | 0.05 ⁽³⁾ | 26/05/23 |
| 14 | Ni * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | 0.010 | 0.1 | 0.1 | 26/05/23 |
| 15 | Total Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.002 | 0.002 | 25/05/23 |
| 16 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0063 | 0.01 | 0.01 | 29/05/23 |
| 17 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 0.1 | 0.1 | 26/05/23 |
| 18 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.47 | 1.0 | 1.0 | 26/05/23 |
| 19 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 1.0 | 1.0 | 26/05/23 |
| 20 | Fecal Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E) | 3.5 x 10 ⁴ | 4,000 | - | 26-30/05/23 |
| 21 | Total Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 B&C) | 5.4 x 10 ⁴ | 20,000 | - | 26-30/05/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: คล่องลำแดงโม = 47P 0693818 UTM 1523001

- น้ำนี้ยังไม่ไหล

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the National Environment Board No. 8 (1994) (B.E. 2537) : Class 3 and Class 4

(2) อุณหภูมิ (Temperature) ไม่สูงกว่าอุณหภูมิตามธรรมชาติเกิน 3 องศาเซลเซียส

(อ้างอิงอุณหภูมิสภาพธรรมชาติ จุดเหนือลำน้ำขึ้นไป 500 เมตร คล่องลำแดงโม ตรวจวัดเมื่อวันที่ 24/05/23

มีค่าเท่ากับ 30.6 °C ดังนั้นมาตรฐานอุณหภูมิคุณภาพน้ำผิวดิน คือ 30.6 °C + 3 °C = 33.6 °C)

(3) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO₃

Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

07.06.23



Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

07.06.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Surface Water

Sample Conditions : 2305-WF0562 = green turbid/high green sediment, Flow Rate = - m³/s, Odor = no smell

| Item | Parameter | Unit | Method | Result | Standard ⁽¹⁾ | | Analysis Date |
|------|---------------------------|---------------------------|---|-------------------------|-------------------------|---------------------|---------------|
| | | | | 2305-WF0562 | | | |
| | | | | คลองปิ้งบัว | Class 3 | Class 4 | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 33.3 | 36.2 ⁽²⁾ | 36.2 ⁽²⁾ | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.10 | 5.0-9.0 | 5.0-9.0 | 24/05/23 |
| 3 | Color * | Pt-Co Unit | Spectrophotometric- Single-Wavelength Method (SM 2120C) | 39 | ไม่เกินที่ตรวจวัด | ไม่เกินที่ตรวจวัด | 25/05/23 |
| 4 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 5.20 | ≥ 4.0 | ≥ 2.0 | 24/05/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 8 | ≤ 2.0 | ≤ 4.0 | 25-30/05/23 |
| 6 | Total Hardness * | mg/L as CaCO ₃ | EDTA Titrimetric (SM 2340 C) | 270.6 | - | - | 26/05/23 |
| 7 | NO ₃ -N * | mg/L | Cadmium Reduction (SM 4500-NO ₃ E) | < 0.01 | 5.0 | 5.0 | 25/05/23 |
| 8 | NH ₃ -N * | mg/L | Distillation/Titrimetric Method (SM 4500-NH ₃ C) | 7.57 | 0.5 | 0.5 | 29/05/23 |
| 9 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.005 | 0.005 | 26/05/23 |
| 10 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 0.005 | 0.005 | 30/05/23 |
| 11 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.05 | 0.05 | 25/05/23 |
| 12 | Pb * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 | 0.05 | 30/05/23 |
| 13 | Cd * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 ⁽³⁾ | 0.05 ⁽³⁾ | 26/05/23 |
| 14 | Ni * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | 0.010 | 0.1 | 0.1 | 26/05/23 |
| 15 | Total Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.002 | 0.002 | 25/05/23 |
| 16 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0030 | 0.01 | 0.01 | 29/05/23 |
| 17 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 0.1 | 0.1 | 26/05/23 |
| 18 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.47 | 1.0 | 1.0 | 26/05/23 |
| 19 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.05 | 1.0 | 1.0 | 26/05/23 |
| 20 | Fecal Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E) | 9.2 x 10 ⁴ | 4,000 | - | 26-30/05/23 |
| 21 | Total Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 B&C) | > 1.6 x 10 ⁵ | 20,000 | - | 26-30/05/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: คล่องปิ้งบัว = 47P 0692282 UTM 1522416
- น้ำนิ่งไม่ไหล

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the National Environment Board No. 8 (1994) (B.E. 2537) : Class 3 and Class 4

(2) อุณหภูมิ (Temperature) ไม่สูงกว่าอุณหภูมิตามธรรมชาติเกิน 3 องศาเซลเซียส
(อ้างอิงอุณหภูมิสภาพธรรมชาติ จุดเหนือน้ำขึ้น ไป 500 เมตร คล่องปิ้งบัว ตรวจวัดเมื่อวันที่ 24/05/2023 มีค่าเท่ากับ 33.2 °C ดังนั้นมาตรฐานอุณหภูมิคุณภาพน้ำผิวดิน คือ 33.2 °C + 3 °C = 36.2 °C)

(3) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

07.06.23

Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

07.06.23



- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Surface Water

Sample Conditions : 2305-WF0563 = green turbid/high green sediment, Flow Rate = - m³/s, Odor = no smell

| Item | Parameter | Unit | Method | Result | Standard ⁽¹⁾ | | Analysis Date |
|------|---------------------------|---------------------------|---|---|-------------------------|---------------------|---------------|
| | | | | 2305-WF0563 | Class 3 | Class 4 | |
| | | | | คล่องล้าตาเลื้อยบริเวณท้ายน้ำได้จุดระบายน้ำทั้งออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ | | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 33.0 | 35.9 ⁽²⁾ | 35.9 ⁽²⁾ | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 8.16 | 5.0-9.0 | 5.0-9.0 | 24/05/23 |
| 3 | Color * | Pt-Co Unit | Spectrophotometric- Single-Wavelength Method (SM 2120C) | 28 | ไม่เกินที่ระบุด้วย | ไม่เกินที่ระบุด้วย | 25/05/23 |
| 4 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 5.55 | ≥ 4.0 | ≥ 2.0 | 24/05/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 7 | ≤ 2.0 | ≤ 4.0 | 25-30/05/23 |
| 6 | Total Hardness * | mg/L as CaCO ₃ | EDTA Titrimetric (SM 2340 C) | 211.4 | - | - | 26/05/23 |
| 7 | NO ₃ -N * | mg/L | Cadmium Reduction (SM 4500-NO ₃ E) | < 0.01 | 5.0 | 5.0 | 25/05/23 |
| 8 | NH ₃ -N * | mg/L | Distillation/Titrimetric Method (SM 4500-CN ₃ C) | 7.22 | 0.5 | 0.5 | 29/05/23 |
| 9 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.005 | 0.005 | 26/05/23 |
| 10 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 0.005 | 0.005 | 30/05/23 |
| 11 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.05 | 0.05 | 25/05/23 |
| 12 | Pb * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 | 0.05 | 30/05/23 |
| 13 | Cd * | mg/L | | < 0.001 | 0.05 ⁽³⁾ | 0.05 ⁽³⁾ | 26/05/23 |
| 14 | Ni * | mg/L | | 0.024 | 0.1 | 0.1 | 26/05/23 |
| 15 | Total Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.002 | 0.002 | 25/05/23 |
| 16 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0022 | 0.01 | 0.01 | 29/05/23 |
| 17 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 0.1 | 0.1 | 26/05/23 |
| 18 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.27 | 1.0 | 1.0 | 26/05/23 |
| 19 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.06 | 1.0 | 1.0 | 26/05/23 |
| 20 | Fecal Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E) | 1.7 x 10 ⁴ | 4,000 | - | 26-30/05/23 |
| 21 | Total Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 B&C) | > 1.6 x 10 ⁵ | 20,000 | - | 26-30/05/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: คล่องล้าตาเลื้อยบริเวณท้ายน้ำได้จุดระบายน้ำทั้งออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ = 47P 0692593 UTM 1523744
- น้ำนิ่งไม่ไหล

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the National Environment Board No. 8 (1994) (B.E. 2537) : Class 3 and Class 4
(2) อุณหภูมิ (Temperature) ไม่สูงกว่าอุณหภูมิตามธรรมชาติเกิน 3 องศาเซลเซียส
(อ้างอิงอุณหภูมิสภาพธรรมชาติ จุดเหนือน้ำขึ้นไป 500 เมตร คล่องล้าตาเลื้อยบริเวณท้ายน้ำได้จุดระบายน้ำทั้งออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ตรวจวัดเมื่อวันที่ 24/05/2023 มีค่าเท่ากับ 32.9 °C ดังนั้นมาตรฐานอุณหภูมิคุณภาพน้ำผิวดิน คือ 32.9 °C + 3 °C = 35.9 °C)
(3) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

Approved by

Mrs. Pornpip Pethshee
Laboratory Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Surface Water

Sample Conditions : 2305-WF0564 = yellow turbid/high black sediment/smell, Flow Rate = - m³/s, Odor = smell

| Item | Parameter | Unit | Method | Result | Standard ⁽¹⁾ | | Analysis Date |
|------|---------------------------|---------------------------|---|--|-------------------------|---------------------|---------------|
| | | | | 2305-WF0564 | Class 3 | Class 4 | |
| | | | | จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 31.8 | 35.5 ⁽²⁾ | 35.5 ⁽²⁾ | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.48 | 5.0-9.0 | 5.0-9.0 | 24/05/23 |
| 3 | Color * | Pt-Co Unit | Spectrophotometric- Single-Wavelength Method (SM 2120C) | 65 | ไม่พบสีหรือสีอ่อน | ไม่พบสีหรือสีอ่อน | 25/05/23 |
| 4 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 4.11 | ≥ 4.0 | ≥ 2.0 | 24/05/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 14 | ≤ 2.0 | ≤ 4.0 | 25-30/05/23 |
| 6 | Total Hardness * | mg/L as CaCO ₃ | EDTA Titrimetric (SM 2340 C) | 256.3 | - | - | 26/05/23 |
| 7 | NO ₃ -N * | mg/L | Cadmium Reduction (SM 4500-NO ₃ E) | < 0.01 | 5.0 | 5.0 | 25/05/23 |
| 8 | NH ₃ -N * | mg/L | Distillation/Titrimetric Method (SM 4500-NH ₃ C) | 24.19 | 0.5 | 0.5 | 29/05/23 |
| 9 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.005 | 0.005 | 26/05/23 |
| 10 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 0.005 | 0.005 | 30/05/23 |
| 11 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.05 | 0.05 | 25/05/23 |
| 12 | Pb * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 | 0.05 | 30/05/23 |
| 13 | Cd * | mg/L | | < 0.001 | 0.05 ⁽³⁾ | 0.05 ⁽³⁾ | 26/05/23 |
| 14 | Ni * | mg/L | | 0.010 | 0.1 | 0.1 | 26/05/23 |
| 15 | Total Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.002 | 0.002 | 25/05/23 |
| 16 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0020 | 0.01 | 0.01 | 29/05/23 |
| 17 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 0.1 | 0.1 | 26/05/23 |
| 18 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.43 | 1.0 | 1.0 | 26/05/23 |
| 19 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 1.0 | 1.0 | 26/05/23 |
| 20 | Fecal Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E) | > 1.6 x 10 ⁵ | 4,000 | - | 26-30/05/23 |
| 21 | Total Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 B&C) | > 1.6 x 10 ⁵ | 20,000 | - | 26-30/05/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0692896 UTM 1524162
- น้ำนิ่งไม่ไหล

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the National Environment Board No. 8 (1994) (B.E. 2537) : Class 3 and Class 4

(2) อุณหภูมิ (Temperature) ไม่สูงกว่าอุณหภูมิตามธรรมชาติเกิน 3 องศาเซลเซียส
(อ้างอิงอุณหภูมิสภาพธรรมชาติ จุดเหนือเขื่อนไป 500 เมตร จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 ตรวจวัดเมื่อวันที่ 24/05/23 มีค่าเท่ากับ 32.5 °C ดังนั้นมาตรฐานอุณหภูมิคุณภาพน้ำผิวดิน คือ 32.5 °C + 3 °C = 35.5 °C)

(3) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachundaeng

Chief of Laboratory

Approved by

Mrs. Pomtip Pethshee

Laboratory Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1541
Received Date: 25/05/23
Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง
Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520
Contact : Tel. (02) 326 0221-3, 326 0341 Fax. (02) 326 0220
Sample Conditions : 2305-WF0565 = yellow turbid/high black sediment, Flow Rate = - m³/s, Odor = no smell

Report Date : 07/06/23
Analysis Date : 24-30/05/23
Job No. : S660394/May
Sampling Date * : 24/05/23
Sampling By * : TET
Type of Sample : Surface Water

| Item | Parameter | Unit | Method | Result | Standard ⁽¹⁾ | | Analysis Date |
|------|---------------------------|---------------------------|---|--|-------------------------|---------------------|---------------|
| | | | | 2305-WF0565 | Class 3 | Class 4 | |
| | | | | จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1-2 | | | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 31.3 | 33.7 ⁽²⁾ | 33.7 ⁽²⁾ | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.69 | 5.0-9.0 | 5.0-9.0 | 24/05/23 |
| 3 | Color * | Pt-Co Unit | Spectrophotometric- Single-Wavelength Method (SM 2120C) | 36 | ไม่เกินสี่ร้อย | ไม่เกินหกร้อย | 25/05/23 |
| 4 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 4.89 | ≥ 4.0 | ≥ 2.0 | 24/05/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 9 | ≤ 2.0 | ≤ 4.0 | 25-30/05/23 |
| 6 | Total Hardness * | mg/L as CaCO ₃ | EDTA Titrimetric (SM 2340 C) | 217.3 | - | - | 26/05/23 |
| 7 | NO ₃ -N * | mg/L | Cadmium Reduction (SM 4500-NO ₃ E) | < 0.01 | 5.0 | 5.0 | 25/05/23 |
| 8 | NH ₃ -N * | mg/L | Distillation/Titrimetric Method (SM 4500-NH ₃ C) | 8.28 | 0.5 | 0.5 | 29/05/23 |
| 9 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.005 | 0.005 | 26/05/23 |
| 10 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 0.005 | 0.005 | 30/05/23 |
| 11 | Cr ⁶⁺ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.05 | 0.05 | 25/05/23 |
| 12 | Pb * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 | 0.05 | 30/05/23 |
| 13 | Cd * | mg/L | | < 0.001 | 0.05 ⁽³⁾ | 0.05 ⁽³⁾ | 26/05/23 |
| 14 | Ni * | mg/L | | 0.018 | 0.1 | 0.1 | 26/05/23 |
| 15 | Total Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.002 | 0.002 | 25/05/23 |
| 16 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0036 | 0.01 | 0.01 | 29/05/23 |
| 17 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 0.1 | 0.1 | 26/05/23 |
| 18 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.25 | 1.0 | 1.0 | 26/05/23 |
| 19 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 1.0 | 1.0 | 26/05/23 |
| 20 | Fecal Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E) | > 1.6 x 10 ⁵ | 4,000 | - | 26-30/05/23 |
| 21 | Total Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 B&C) | > 1.6 x 10 ⁵ | 20,000 | - | 26-30/05/23 |

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1-2 = 47P 0692573 UTM 1521917 - น้ำนิ่งไม่ไหล

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the National Environment Board No. 8 (1994) (B.E. 2537) : Class 3 and Class 4

(2) อุณหภูมิ (Temperature) ไม่สูงกว่าอุณหภูมิตามธรรมชาติเกิน 3 องศาเซลเซียส (อ้างอิงอุณหภูมิสภาพธรรมชาติ จุดเหนือน้ำขึ้นไป 500 เมตร จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1-2 ตรวจวัดเมื่อวันที่ 24/05/2023 มีค่าเท่ากับ 30.7 °C ดังนั้นมาตรฐานอุณหภูมิคุณภาพน้ำผิวน้ำ คือ 30.7 °C + 3 °C = 33.7 °C)

(3) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO₃

Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนฉลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24-30/05/23

Job No. : S660394/May

Sampling Date * : 24/05/23

Sampling By * : TET

Type of Sample : Surface Water

Sample Conditions : 2305-WF0566 = green turbid/high green and black sediment, Flow Rate = - m³/s, Odor = no smell

| Item | Parameter | Unit | Method | Result | Standard ⁽¹⁾ | | Analysis Date |
|------|---------------------------|---------------------------|--|-------------------------|-------------------------|---------------------|---------------|
| | | | | 2305-WF0566 | Class 3 | Class 4 | |
| 1 | Temperature * | °C | Laboratory and Field, Methods (SM 2550B) | 33.6 | 36.0 ⁽²⁾ | 36.0 ⁽²⁾ | 24/05/23 |
| 2 | pH * | - | Electrometric Method (SM 4500 B) | 7.88 | 5.0-9.0 | 5.0-9.0 | 24/05/23 |
| 3 | Color * | Pt-Co Unit | Spectrophotometric- Single-Wavelength Method (SM 2120C) | 28 | ไม่เขียนวิธีรวมกัน | ไม่เขียนวิธีรวมกัน | 25/05/23 |
| 4 | DO * | mg/L | Membrane Electrode (SM 4500 G) | 4.26 | ≥ 4.0 | ≥ 2.0 | 24/05/23 |
| 5 | BOD * | mg/L | 5-Days BOD Test, Azide Modification Method (SM 5210 B) | 4 | ≤ 2.0 | ≤ 4.0 | 25-30/05/23 |
| 6 | Total Hardness * | mg/L as CaCO ₃ | EDTA Titrimetric (SM 2340 C) | 221.2 | - | - | 26/05/23 |
| 7 | NO ₃ -N * | mg/L | Cadmium Reduction (SM 4500-NO ₃ E) | < 0.01 | 5.0 | 5.0 | 25/05/23 |
| 8 | NH ₃ -N * | mg/L | Distillation/Titrimetric Method (SM 4500-NH ₃ C) | 3.96 | 0.5 | 0.5 | 29/05/23 |
| 9 | Cyanide * | mg/L | Distillation, Colorimetric Method (SM 4500-CN ⁻ B/E) | < 0.001 | 0.005 | 0.005 | 26/05/23 |
| 10 | Phenols * | mg/L | Distillation, Direct Photometric Method (SM 5530 D) | < 0.001 | 0.005 | 0.005 | 30/05/23 |
| 11 | Cr ⁺⁶ * | mg/L | Filtration, Colorimetric Method (SM 3500-Cr B) | < 0.02 | 0.05 | 0.05 | 25/05/23 |
| 12 | Pb * | mg/L | Digestion, Electrothermal AAS Method (SM 3030E and 3113B) | < 0.001 | 0.05 | 0.05 | 30/05/23 |
| 13 | Cd * | mg/L | | < 0.001 | 0.05 ⁽³⁾ | 0.05 ⁽³⁾ | 26/05/23 |
| 14 | Ni * | mg/L | | 0.007 | 0.1 | 0.1 | 26/05/23 |
| 15 | Total Hg * | mg/L | Cold-Vapor AAS Method (SM 3112 B) | < 0.0005 | 0.002 | 0.002 | 25/05/23 |
| 16 | As * | mg/L | Digestion, Continuous Hydride generation/AAS Method (SM 3114 C) | 0.0038 | 0.01 | 0.01 | 29/05/23 |
| 17 | Cu | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.05 | 0.1 | 0.1 | 26/05/23 |
| 18 | Mn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | 0.35 | 1.0 | 1.0 | 26/05/23 |
| 19 | Zn | mg/L | Digestion, ICP-OES Method (SM 3030F and 3120B) | < 0.04 | 1.0 | 1.0 | 26/05/23 |
| 20 | Fecal Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 C&E) | > 1.6 x 10 ⁵ | 4,000 | - | 26-30/05/23 |
| 21 | Total Coliform Bacteria * | MPN/100 mL | Multiple-Tube Fermentation Technique (SM 9221 B&C) | > 1.6 x 10 ⁵ | 20,000 | - | 26-30/05/23 |

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: คลองลำกอไผ่ = 47P 0695174 UTM 1522595
- น้ำนิ่งไม่ไหล

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the National Environment Board No. 8 (1994) (B.E. 2537) : Class 3 and Class 4

(2) อุณหภูมิ (Temperature) ไม่สูงกว่าอุณหภูมิมาตรฐานชาติเกิน 3 องศาเซลเซียส
(อ้างอิงอุณหภูมิสภาพธรรมชาติ จุดเหนือน้ำขึ้นไป 500 เมตร คลองลำกอไผ่ ตรวจวัดเมื่อวันที่ 24/05/2023
มีค่าเท่ากับ 33.0 °C ดังนั้นมาตรฐานอุณหภูมิคุณภาพน้ำผิวดิน คือ 33.0 °C + 3 °C = 36.0 °C)

(3) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

07.06.23

Approved by

Mrs. Porntip Pethshee

Laboratory Manager

07.06.23

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R23-1541

Received Date: 25/05/23

Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

Address : 94 ถนนคลองกรุง แขวงลำปลาทิว เขตลาดกระบัง กรุงเทพมหานคร 10520

Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 24/05/23

Job No. : S660394/May

Sampling Date : 24/05/23

Sampling By : TET

Type of Sample : Surface Water

| Item | Sampling Point | Result | Analysis Date |
|------|--|------------------|---------------|
| | | Temperature (°C) | |
| | จุดเหนือน้ำขึ้นไป 500 เมตร | | |
| 1 | คลองลำตาเสือ | 32.5 | 24/05/23 |
| 2 | คลองลำซวดเคย | 31.5 | 24/05/23 |
| 3 | คลองลำแดงโม | 30.6 | 24/05/23 |
| 4 | คลองบึงบัว | 33.2 | 24/05/23 |
| 5 | คลองลำตาเสือบริเวณท้ายน้ำได้จุดระบายน้ำที่ออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ | 32.9 | 24/05/23 |
| 6 | จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 | 32.5 | 24/05/23 |
| 7 | จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1-2 | 30.7 | 24/05/23 |
| 8 | คลองลำกอไผ่ | 33.0 | 24/05/23 |

Remarks : คลองลำตาเสือ = 47P 0691948 UTM 1524674
คลองลำซวดเคย = 47P 0694195 UTM 1521161
คลองลำแดงโม = 47P 0693331 UTM 1522860
คลองบึงบัว = 47P 0692444 UTM 1522900
คลองลำตาเสือบริเวณท้ายน้ำได้จุดระบายน้ำที่ออกจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ = 47P 0692869 UTM 1524153
จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0693202 UTM 1524261
จุดระบายน้ำทิ้งของระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1-2 = 47P 0692321 UTM 1522347
คลองลำกอไผ่ = 47P 0694889 UTM 1522999

Method : Temperature - Laboratory and Field, Methods (SM 2550B)
: SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

07.06.23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

07.06.23

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TEST REPORT

Analysis No. : R23-1541

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For นิคมอุตสาหกรรมลาดกระบัง

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Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 29-31/05/23

Job No. : S660394/May

Sampling Date : 24/05/23

Sampling By : TET

Type of Sample : Soil

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|------------------|--------------------|---|--|----------|------|---------------|
| | | | | 2305-SS0053 | | | |
| | | | | บริเวณคลองบึงบัว บริเวณ ท้ายน้ำได้จุดระบายน้ำทั้งจาก ระบบบำบัดน้ำเสียส่วนกลาง ของนิคมฯ ระยะที่ 1, 2 | (1) | (2) | |
| 1 | Cr ⁺⁶ | mg/kg (dry weight) | Digestion/Colorimetric Method (SW-846 Method 3060 and 7196A) | < 0.4 | - | - | 29/05/23 |
| 2 | Cd | mg/kg (dry weight) | Digestion/Electrothermal AAS Method (SW-846 Method 3050B and 7010) | < 0.05 | 0.16 | 0.16 | 30/05/23 |
| 3 | Hg | mg/kg (dry weight) | Digestion, Cold-Vapor AAS Method (SW-846 Method 7471B) | 0.422 | 0.2 | 0.2 | 31/05/23 |
| 4 | As | mg/kg (dry weight) | Digestion, Hydride generation/AAS Method (SW-846 Method 3050B and 7062) | 8.955 | 10 | 10 | 29/05/23 |
| 5 | Se | mg/kg (dry weight) | Digestion, Hydride generation/AAS Method (SW-846 Method 3050B and 7742) | 0.154 | - | - | 29/05/23 |
| 6 | Cu | mg/kg (dry weight) | Digestion, Direct Air-Acetylene Flame Method (SW-846 Method 3050B and 7000B) | 19.9 | 21.5 | 31.5 | 29/05/23 |
| 7 | Mn | mg/kg (dry weight) | | 504.1 | - | - | 29/05/23 |
| 8 | Ni | mg/kg (dry weight) | | 14.4 | 27.5 | 23 | 29/05/23 |
| 9 | Pb | mg/kg (dry weight) | | 23.6 | 36 | 36 | 29/05/23 |
| 10 | Zn | mg/kg (dry weight) | | 45.9 | 80 | 120 | 29/05/23 |

Remarks : บริเวณคลองบึงบัว บริเวณท้ายน้ำได้จุดระบายน้ำทั้งจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 1, 2 = 47P 0693130 UTM 1521504

Method : U.S. Environmental Protection Agency TEST METHOD : SW : 846 Manual

Standard (1) Notification of Pollution Control Department (2018) (B.E. 2561)

(2) Notification of the Nation Environment Board (2023) (B.E. 2566)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

07.06.23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

07.06.23



TEST REPORT

Analysis No. : R23-1541

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Customer : Technical Division of Thai Environmental Technic Limited
For นิคมอุตสาหกรรมลาดกระบัง

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Contact : Tel. (02) 326 0221-3, 326 0341

Fax. (02) 326 0220

Report Date : 07/06/23

Analysis Date : 29-31/05/23

Job No. : S660394/May

Sampling Date : 24/05/23

Sampling By : TET

Type of Sample : Soil

| Item | Parameter | Unit | Method | Result | Standard | | Analysis Date |
|------|------------------|--------------------|---|---|----------|------|---------------|
| | | | | 2305-SS0054 | | | |
| | | | | บริเวณคลองลำตาเสือ บริเวณ ท้ายน้ำใต้จุดระบายน้ำทิ้งจาก ระบบบำบัดน้ำเสียส่วนกลาง ของนิคมฯ ระยะที่ 3 | (1) | (2) | |
| 1 | Cr ⁶⁺ | mg/kg (dry weight) | Digestion/Colorimetric Method (SW-846 Method 3060 and 7196A) | < 0.4 | - | - | 29/05/23 |
| 2 | Cd | mg/kg (dry weight) | Digestion/Electrothermal AAS Method (SW-846 Method 3050B and 7010) | 0.41 | 0.16 | 0.16 | 30/05/23 |
| 3 | Hg | mg/kg (dry weight) | Digestion, Cold-Vapor AAS Method (SW-846 Method 7471B) | 0.477 | 0.2 | 0.2 | 31/05/23 |
| 4 | As | mg/kg (dry weight) | Digestion, Hydride generation/AAS Method (SW-846 Method 3050B and 7062) | 5.759 | 10 | 10 | 29/05/23 |
| 5 | Se | mg/kg (dry weight) | Digestion, Hydride generation/AAS Method (SW-846 Method 3050B and 7742) | 0.103 | - | - | 29/05/23 |
| 6 | Cu | mg/kg (dry weight) | Digestion, Direct Air-Acetylene Flame Method (SW-846 Method 3050B and 7000B) | 61.6 | 21.5 | 31.5 | 29/05/23 |
| 7 | Mn | mg/kg (dry weight) | | 211.2 | - | - | 29/05/23 |
| 8 | Ni | mg/kg (dry weight) | | 57.6 | 27.5 | 23 | 29/05/23 |
| 9 | Pb | mg/kg (dry weight) | | 26.4 | 36 | 36 | 29/05/23 |
| 10 | Zn | mg/kg (dry weight) | | 237.9 | 80 | 120 | 29/05/23 |

Remarks : บริเวณคลองลำตาเสือ บริเวณท้ายน้ำใต้จุดระบายน้ำทิ้งจากระบบบำบัดน้ำเสียส่วนกลางของนิคมฯ ระยะที่ 3 = 47P 0692593 UTM 1523744

Method : U.S. Environmental Protection Agency TEST METHOD : SW : 846 Manual

Standard (1) Notification of Pollution Control Department (2018) (B.E. 2561)

(2) Notification of the Nation Environment Board (2023) (B.E. 2566)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

07/06/23



Approved by

Mrs. Pornpip Pethshee

Laboratory Manager

07/06/23

END OF REPORT

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