# ภาคผนวก ณ

## สำเนาใบรายงานผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

# ภาคผนวก ณ-1

## ผลการติดตามตรวจสอบปริมาณของสารเจือปนในอากาศ ที่ระบายออกจากโรงไฟฟ้า

# หน่วยผลิตที่ 1

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**SAMPLING SOURCE** : BLCP POWER LIMITED
**SAMPLE TYPE** : STACK
**SAMPLING DATE** : NOVEMBER 16, 2023
**SAMPLING TIME** : 10:10-10:58 HOUR
**SAMPLING BY** : MR NATTAWAT DANGSAWAT ว-145-ค-0021
**ANALYZED BY** : MISS SUWAN KONGTHONG ว-145-ค-0025
**RECEIVED DATE** : NOVEMBER 16, 2023
**ANALYTICAL DATE** : NOVEMBER 16-22, 2023
**REPORT NO.** : 2023-U100913
**WORK NO.** : 2023-008895
**ANALYSIS NO.** : T23AW939-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | |
|---|---|---|---|---|
| | | | UNIT#1 T23AW939-0001 | |
| | | | ACTUAL OXYGEN | 7% OXYGEN |
| TOTAL SUSPENDED PARTICULATE | mg/m³ | ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5) | 20.4 | 18.7 |
| **SAMPLE CONDITION** | | | COMPLETE | |

REMARK
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**SAMPLING SOURCE** : BLCP POWER LIMITED
**SAMPLE TYPE** : STACK
**SAMPLING DATE** : NOVEMBER 16, 2023
**SAMPLING TIME** : 13:30-14:18 HOUR
**SAMPLING BY** : MR NATTAWAT DANGSAWAT
**ANALYZED BY** : MISS SUWAN KONGTHONG
**RECEIVED DATE** : NOVEMBER 16, 2023
**ANALYTICAL DATE** : NOVEMBER 16-22, 2023
**REPORT NO.** : 2023-U100914
**WORK NO.** : 2023-008895
**ANALYSIS NO.** : T23AW939-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | |
|---|---|---|---|---|
| | | | UNIT#1 T23AW939-0001 | |
| | | | ACTUAL OXYGEN | 7% OXYGEN |
| PARTICULATE MATTER (PM2.5) | mg/m³ | GRAVIMETRIC METHOD (US EPA METHOD 201A) | 5.30 | 4.90 |
| **SAMPLE CONDITION** | | | COMPLETE | |

REMARK
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**MEASURING SOURCE** : BLCP POWER LIMITED
**MEASURING TYPE** : STACK
**MEASURING DATE** : NOVEMBER 16, 2023
**MEASURING TIME** : 11:35-11:45 HOUR
**MEASURING METHOD** : U.S. EPA METHOD 6C, 7E
**MEASURED BY** : MR NATTAWAT DANGSAWAT ว-145-ค-0021
**RECEIVED DATE** : NOVEMBER 16, 2023
**ANALYTICAL DATE** : NOVEMBER 16, 2023
**REPORT NO.** : 2023-U100915
**WORK NO.** : 2023-008895
**ANALYSIS NO.** : T23AW939-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | |
|---|---|---|---|---|
| | | | UNIT#1 T23AW939-0001 | |
| | | | ACTUAL OXYGEN | 7% OXYGEN |
| SULPHUR DIOXIDE | ppm | PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 6C) | 128 | 117 |
| OXIDES OF NITROGEN AS NITROGEN DIOXIDE | ppm | PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 7E) | 210 | 192 |
| **SAMPLE CONDITION** | | | COMPLETE | |

REMARK
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**MEASURING SOURCE** : BLCP POWER LIMITED
**MEASURING TYPE** : STACK
**MEASURING DATE** : NOVEMBER 16, 2023
**MEASURING TIME** : 11:35-11:45 HOUR
**MEASURING METHOD** : U.S. EPA METHOD 10
**MEASURED BY** : MR NATTAWAT DANGSAWAT ว-145-ค-0021
**RECEIVED DATE** : NOVEMBER 16, 2023
**ANALYTICAL DATE** : NOVEMBER 16, 2023
**REPORT NO.** : 2023-U100916
**WORK NO.** : 2023-008895
**ANALYSIS NO.** : T23AW939-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | |
|---|---|---|---|---|
| | | | UNIT#1 T23AW939-0001 | |
| | | | ACTUAL OXYGEN | 7% OXYGEN |
| CARBON MONOXIDE | ppm | PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 10) | 13 | 12 |
| **SAMPLE CONDITION** | | | COMPLETE | |

REMARK
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| CUSTOMER NAME | : BLCP POWER LIMITED | | |
| ADDRESS | : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150 | | |
| **CONTACT INFORMATION** | : TEL : 0 3891 8507 e-mail : environment@blcp.co.th | | |
| **MEASURING SOURCE** | : BLCP POWER LIMITED | | |
| **MEASURING TYPE** | : STACK | **RECEIVED DATE** | : NOVEMBER 16, 2023 |
| **MEASURING DATE** | : NOVEMBER 16, 2023 | **ANALYTICAL DATE** | : NOVEMBER 16, 2023 |
| **MEASURING TIME** | : 11:30-12:00 HOUR | **REPORT NO.** | : 2023-U100917 |
| **MEASURING METHOD** | : RINGELMANN'S METHOD | **WORK NO.** | : 2023-008895 |
| **MEASURED BY** | : MR NOPPASIN THANUTHAMMARAT ว-145-ว-0036<br>MR NATTAWAT DANGSAWAT ว-145-ค-0021 | **ANALYSIS NO.** | : T23AW939-0001 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT |
|---|---|---|---|
| | | | **UNIT#1** |
| | | | **T23AW939-0001** |
| OPACITY | % | RINGELMANN 'S METHOD | 7 |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

# หน่วยผลิตที่ 2

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**SAMPLING SOURCE** : BLCP POWER LIMITED
**SAMPLE TYPE** : STACK
**SAMPLING DATE** : NOVEMBER 15, 2023
**SAMPLING TIME** : 10:20-11:08 HOUR
**SAMPLING BY** : MR NATTAWAT DANGSAWAT ว-145-ค-0021
**ANALYZED BY** : MISS SUWAN KONGTHONG ว-145-ค-0025
**RECEIVED DATE** : NOVEMBER 16, 2023
**ANALYTICAL DATE** : NOVEMBER 16-22, 2023
**REPORT NO.** : 2023-U100918
**WORK NO.** : 2023-008895
**ANALYSIS NO.** : T23AW939-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | |
|---|---|---|---|---|
| | | | UNIT#2 T23AW939-0002 | |
| | | | ACTUAL OXYGEN | 7% OXYGEN |
| TOTAL SUSPENDED PARTICULATE | mg/m³ | ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5) | 26.7 | 23.1 |
| **SAMPLE CONDITION** | | | COMPLETE | |

REMARK
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**SAMPLING SOURCE** : BLCP POWER LIMITED
**SAMPLE TYPE** : STACK
**SAMPLING DATE** : NOVEMBER 15, 2023
**SAMPLING TIME** : 12:00-12:48 HOUR
**SAMPLING BY** : MR NATTAWAT DANGSAWAT
**ANALYZED BY** : MISS SUWAN KONGTHONG
**RECEIVED DATE** : NOVEMBER 16, 2023
**ANALYTICAL DATE** : NOVEMBER 16-22, 2023
**REPORT NO.** : 2023-U100919
**WORK NO.** : 2023-008895
**ANALYSIS NO.** : T23AW939-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | |
|---|---|---|---|---|
| | | | UNIT#2 T23AW939-0002 | |
| | | | ACTUAL OXYGEN | 7% OXYGEN |
| PARTICULATE MATTER (PM2.5) | mg/m³ | GRAVIMETRIC METHOD (US EPA METHOD 201A) | 7.32 | 6.33 |
| **SAMPLE CONDITION** | | | COMPLETE | |

REMARK
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**MEASURING SOURCE** : BLCP POWER LIMITED
**MEASURING TYPE** : STACK
**MEASURING DATE** : NOVEMBER 15, 2023
**MEASURING TIME** : 10:31-10:41 HOUR
**MEASURING METHOD** : U.S. EPA METHOD 6C, 7E
**MEASURED BY** : MR NATTAWAT DANGSAWAT ว-145-ค-0021
**RECEIVED DATE** : NOVEMBER 15, 2023
**ANALYTICAL DATE** : NOVEMBER 15, 2023
**REPORT NO.** : 2023-U100920
**WORK NO.** : 2023-008895
**ANALYSIS NO.** : T23AW939-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | |
|---|---|---|---|---|
| | | | UNIT#2 T23AW939-0002 | |
| | | | ACTUAL OXYGEN | 7% OXYGEN |
| SULPHUR DIOXIDE | ppm | PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 6C) | 162 | 140 |
| OXIDES OF NITROGEN AS NITROGEN DIOXIDE | ppm | PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 7E) | 178 | 154 |
| **SAMPLE CONDITION** | | | COMPLETE | |

REMARK
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**MEASURING SOURCE** : BLCP POWER LIMITED
**MEASURING TYPE** : STACK
**MEASURING DATE** : NOVEMBER 15, 2023
**MEASURING TIME** : 10:31-10:41 HOUR
**MEASURING METHOD** : U.S. EPA METHOD 10
**MEASURED BY** : MR NATTAWAT DANGSAWAT ว-145-ค-0021
**RECEIVED DATE** : NOVEMBER 15, 2023
**ANALYTICAL DATE** : NOVEMBER 15, 2023
**REPORT NO.** : 2023-U100921
**WORK NO.** : 2023-008895
**ANALYSIS NO.** : T23AW939-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | |
|---|---|---|---|---|
| | | | UNIT#2 T23AW939-0002 | |
| | | | ACTUAL OXYGEN | 7% OXYGEN |
| CARBON MONOXIDE | ppm | PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 10) | 10 | 9 |
| **SAMPLE CONDITION** | | | COMPLETE | |

REMARK
RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| CUSTOMER NAME | : BLCP POWER LIMITED | | |
| ADDRESS | : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150 | | |
| **CONTACT INFORMATION** | : TEL : 0 3891 8507 e-mail : environment@blcp.co.th | | |
| **MEASURING SOURCE** | : BLCP POWER LIMITED | | |
| **MEASURING TYPE** | : STACK | **RECEIVED DATE** | : NOVEMBER 15, 2023 |
| **MEASURING DATE** | : NOVEMBER 15, 2023 | **ANALYTICAL DATE** | : NOVEMBER 15, 2023 |
| **MEASURING TIME** | : 13:40-14:10 HOUR | **REPORT NO.** | : 2023-U100922 |
| **MEASURING METHOD** | : RINGELMANN'S METHOD | **WORK NO.** | : 2023-008895 |
| **MEASURED BY** | : MR NOPPASIN THANUTHAMMARAT ว-145-ฉ-0036 | **ANALYSIS NO.** | : T23AW939-0002 |
| | MR NATTAWAT DANGSAWAT ว-145-ค-0021 | | |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT |
|---|---|---|---|
| | | | **UNIT#2** |
| | | | **T23AW939-0002** |
| OPACITY | % | RINGELMANN 'S METHOD | 9 |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

# ภาคผนวก ณ-2

## ผลการติดตามตรวจสอบคุณภาพอากาศในบรรยากาศโดยทั่วไป

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER COMPANY LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**SAMPLING SOURCE** : NORTHEAST OF COAL STOCK YARD
**SAMPLE TYPE** : AMBIENT
**SAMPLING DATE** : *, **, ***
**SAMPLING TIME** : *, **, ***
**SAMPLING BY** : MR AUSADAWUT YONSIRI
**ANALYZED BY** : MISS JETJARIN TUMSA-AT
**RECEIVED DATE** : OCTOBER 26, 2023
**ANALYTICAL DATE** : OCTOBER 26-31, 2023
**REPORT NO.** : 2023-U093111
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AV256-0001 - T23AV256-0003

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | |
|---|---|---|---|---|---|
| | | | NORTHEAST OF COAL STOCK YARD | | |
| | | | * T23AV256-0001 | ** T23AV256-0002 | *** T23AV256-0003 |
| TOTAL SUSPENDED PARTICULATE | mg/m³ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.046 | 0.059 | 0.066 |
| PARTICULATE MATTER (≤ 10 µm) | mg/m³ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.030 | 0.047 | 0.039 |
| FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) | µg/m³ | US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021 | 20.0 | 13.7 | 20.6 |
| **SAMPLE CONDITION** | | | COMPLETE | COMPLETE | COMPLETE |

REMARK
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 10:30 HOUR ON OCTOBER 21, 2023 TO 10:30 HOUR ON OCTOBER 22, 2023.
** : SAMPLING FROM 10:30 HOUR ON OCTOBER 22, 2023 TO 10:30 HOUR ON OCTOBER 23, 2023.
*** : SAMPLING FROM 10:30 HOUR ON OCTOBER 23, 2023 TO 10:30 HOUR ON OCTOBER 24, 2023.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER COMPANY LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**SAMPLING SOURCE** : SOUTHWEST OF COAL STOCK YARD
**SAMPLE TYPE** : AMBIENT
**SAMPLING DATE** : *, **, ***
**SAMPLING TIME** : *, **, ***
**SAMPLING BY** : MR AUSADAWUT YONSIRI
**ANALYZED BY** : MISS JETJARIN TUMSA-AT
**RECEIVED DATE** : OCTOBER 26, 2023
**ANALYTICAL DATE** : OCTOBER 26-31, 2023
**REPORT NO.** : 2023-U093112
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AV256-0004 - T23AV256-0006

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | |
|---|---|---|---|---|---|
| | | | SOUTHWEST OF COAL STOCK YARD | | |
| | | | * T23AV256-0004 | ** T23AV256-0005 | *** T23AV256-0006 |
| TOTAL SUSPENDED PARTICULATE | mg/m³ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.037 | 0.036 | 0.044 |
| PARTICULATE MATTER (≤ 10 µm) | mg/m³ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.023 | 0.026 | 0.034 |
| FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) | µg/m³ | US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021 | 10.9 | 21.1 | 18.5 |
| **SAMPLE CONDITION** | | | COMPLETE | COMPLETE | COMPLETE |

REMARK
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 11:00 HOUR ON OCTOBER 21, 2023 TO 11:00 HOUR ON OCTOBER 22, 2023.
** : SAMPLING FROM 11:00 HOUR ON OCTOBER 22, 2023 TO 11:00 HOUR ON OCTOBER 23, 2023.
*** : SAMPLING FROM 11:00 HOUR ON OCTOBER 23, 2023 TO 11:00 HOUR ON OCTOBER 24, 2023.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER COMPANY LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**SAMPLING SOURCE** : STATION A : BAN TA KUAN
**SAMPLE TYPE** : AMBIENT
**SAMPLING DATE** : *, **, ***
**SAMPLING TIME** : *, **, ***
**SAMPLING BY** : MR AUSADAWUT YONSIRI
**ANALYZED BY** : MISS JETJARIN TUMSA-AT
**RECEIVED DATE** : OCTOBER 17, 2023
**ANALYTICAL DATE** : OCTOBER 17-20, 2023
**REPORT NO.** : 2023-U090323
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU542-0001 - T23AU542-0003

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | |
|---|---|---|---|---|---|
| | | | STATION A : BAN TA KUAN | | |
| | | | * T23AU542-0001 | ** T23AU542-0002 | *** T23AU542-0003 |
| TOTAL SUSPENDED PARTICULATE | $mg/m^3$ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.029 | 0.048 | 0.031 |
| PARTICULATE MATTER (≤ 10 µm) | $mg/m^3$ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.018 | 0.031 | 0.021 |
| FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) | $µg/m^3$ | US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021 | 11.6 | 23.5 | 12.0 |
| **SAMPLE CONDITION** | | | COMPLETE | COMPLETE | COMPLETE |

REMARK
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 09:30 HOUR ON OCTOBER 9, 2023 TO 09:30 HOUR ON OCTOBER 10, 2023.
** : SAMPLING FROM 09:30 HOUR ON OCTOBER 10, 2023 TO 09:30 HOUR ON OCTOBER 11, 2023.
*** : SAMPLING FROM 09:30 HOUR ON OCTOBER 11, 2023 TO 09:30 HOUR ON OCTOBER 12, 2023.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION A : BAN TA KUAN
**MEASURING TYPE** : AMBIENT (AIR)
**MEASURING DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : *
**MEASURING METHOD** : CHEMILUMINESCENCE
**MEASURED BY** : MR AUSADAWUT YONSIRI
**RECEIVED DATE** : OCTOBER 9-12, 2023
**ANALYTICAL DATE** : OCTOBER 9-12, 2023
**REPORT NO.** : 2023-U089321
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU542-0001 - T23AU542-0003

| TIME * | RESULT (ppm) NITROGEN DIOXIDE STATION A : BAN TA KUAN | | |
|---|---|---|---|
| | OCTOBER 9-10, 2023 T23AU542-0001 | OCTOBER 10-11, 2023 T23AU542-0002 | OCTOBER 11-12, 2023 T23AU542-0003 |
| 07:00-08:00 HOUR | 0.0185 | 0.0187 | 0.0184 |
| 08:00-09:00 HOUR | 0.0165 | 0.0165 | 0.0167 |
| 09:00-10:00 HOUR | 0.0131 | 0.0139 | 0.0141 |
| 10:00-11:00 HOUR | 0.0118 | 0.0127 | 0.0132 |
| 11:00-12:00 HOUR | 0.0102 | 0.0122 | 0.0134 |
| 12:00-13:00 HOUR | 0.0101 | 0.0125 | 0.0144 |
| 13:00-14:00 HOUR | 0.0105 | 0.0145 | 0.0158 |
| 14:00-15:00 HOUR | 0.0112 | 0.0161 | 0.0176 |
| 15:00-16:00 HOUR | 0.0141 | 0.0174 | 0.0171 |
| 16:00-17:00 HOUR | 0.0160 | 0.0175 | 0.0154 |
| 17:00-18:00 HOUR | 0.0172 | 0.0167 | 0.0131 |
| 18:00-19:00 HOUR | 0.0172 | 0.0171 | 0.0120 |
| 19:00-20:00 HOUR | 0.0174 | 0.0172 | 0.0124 |
| 20:00-21:00 HOUR | 0.0176 | 0.0167 | 0.0125 |
| 21:00-22:00 HOUR | 0.0177 | 0.0153 | 0.0139 |
| 22:00-23:00 HOUR | 0.0165 | 0.0143 | 0.0151 |
| 23:00-00:00 HOUR | 0.0165 | 0.0137 | 0.0177 |
| 00:00-01:00 HOUR | 0.0151 | 0.0149 | 0.0201 |
| 01:00-02:00 HOUR | 0.0149 | 0.0161 | 0.0198 |
| 02:00-03:00 HOUR | 0.0131 | 0.0172 | 0.0164 |
| 03:00-04:00 HOUR | 0.0133 | 0.0174 | 0.0148 |
| 04:00-05:00 HOUR | 0.0142 | 0.0168 | 0.0139 |
| 05:00-06:00 HOUR | 0.0175 | 0.0179 | 0.0175 |
| 06:00-07:00 HOUR | 0.0195 | 0.0186 | 0.0181 |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION A : BAN TA KUAN
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : OCTOBER 9-12, 2023
**MEASURING DATE** : OCTOBER 9-12, 2023 **ANALYTICAL DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : * **REPORT NO.** : 2023-U089325
**MEASURING METHOD** : UV FLUORESCENCE **WORK NO.** : 2021-008697
**MEASURED BY** : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AU542-0001 - T23AU542-0003

| TIME * | RESULT (ppm) SULPHUR DIOXIDE STATION A : BAN TA KUAN | | |
|---|---|---|---|
| | OCTOBER 9-10, 2023 T23AU542-0001 | OCTOBER 10-11, 2023 T23AU542-0002 | OCTOBER 11-12, 2023 T23AU542-0003 |
| 07:00-08:00 HOUR | 0.0027 | 0.0027 | 0.0027 |
| 08:00-09:00 HOUR | 0.0024 | 0.0025 | 0.0023 |
| 09:00-10:00 HOUR | 0.0025 | 0.0023 | 0.0019 |
| 10:00-11:00 HOUR | 0.0025 | 0.0024 | 0.0018 |
| 11:00-12:00 HOUR | 0.0029 | 0.0023 | 0.0017 |
| 12:00-13:00 HOUR | 0.0030 | 0.0026 | 0.0019 |
| 13:00-14:00 HOUR | 0.0034 | 0.0027 | 0.0022 |
| 14:00-15:00 HOUR | 0.0035 | 0.0032 | 0.0026 |
| 15:00-16:00 HOUR | 0.0040 | 0.0036 | 0.0027 |
| 16:00-17:00 HOUR | 0.0038 | 0.0038 | 0.0029 |
| 17:00-18:00 HOUR | 0.0037 | 0.0034 | 0.0033 |
| 18:00-19:00 HOUR | 0.0035 | 0.0031 | 0.0035 |
| 19:00-20:00 HOUR | 0.0036 | 0.0029 | 0.0037 |
| 20:00-21:00 HOUR | 0.0036 | 0.0028 | 0.0036 |
| 21:00-22:00 HOUR | 0.0033 | 0.0026 | 0.0030 |
| 22:00-23:00 HOUR | 0.0031 | 0.0024 | 0.0029 |
| 23:00-00:00 HOUR | 0.0033 | 0.0024 | 0.0029 |
| 00:00-01:00 HOUR | 0.0031 | 0.0027 | 0.0028 |
| 01:00-02:00 HOUR | 0.0030 | 0.0029 | 0.0028 |
| 02:00-03:00 HOUR | 0.0029 | 0.0030 | 0.0026 |
| 03:00-04:00 HOUR | 0.0033 | 0.0031 | 0.0027 |
| 04:00-05:00 HOUR | 0.0033 | 0.0029 | 0.0031 |
| 05:00-06:00 HOUR | 0.0033 | 0.0031 | 0.0031 |
| 06:00-07:00 HOUR | 0.0029 | 0.0029 | 0.0030 |
| AVERAGE 24 HOUR | 0.0032 | 0.0028 | 0.0027 |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION A : BAN TA KUAN
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : OCTOBER 9-12, 2023
**MEASURING DATE** : OCTOBER 9-12, 2023 **ANALYTICAL DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : * **REPORT NO.** : 2023-U089329
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2021-008697
**MEASURED BY** : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AU542-0001 - T23AU542-0003

| TIME * | RESULT (m/s) STATION A : BAN TA KUAN | | | | | |
|---|---|---|---|---|---|---|
| | OCTOBER 9-10, 2023 T23AU542-0001 | | OCTOBER 10-11, 2023 T23AU542-0002 | | OCTOBER 11-12, 2023 T23AU542-0003 | |
| | WIND SPEED | WIND DIRECTION | WIND SPEED | WIND DIRECTION | WIND SPEED | WIND DIRECTION |
| 07:00-08:00 HOUR | 1.7 | S | 1.6 | SSE | 2.6 | SSE |
| 08:00-09:00 HOUR | 2.0 | SSW | 2.0 | S | 3.2 | S |
| 09:00-10:00 HOUR | 1.7 | SSE | 2.0 | SSW | 3.2 | S |
| 10:00-11:00 HOUR | 2.0 | SSW | 2.1 | SW | 3.0 | S |
| 11:00-12:00 HOUR | 1.5 | SSE | 1.3 | SSW | 2.8 | SSE |
| 12:00-13:00 HOUR | 1.5 | SSE | 1.4 | S | 3.6 | S |
| 13:00-14:00 HOUR | 1.9 | S | 1.8 | SW | 2.6 | SSE |
| 14:00-15:00 HOUR | 2.0 | SSW | 1.6 | SSW | 2.5 | SSW |
| 15:00-16:00 HOUR | 1.5 | SSW | 2.0 | SW | 1.8 | SSW |
| 16:00-17:00 HOUR | 2.2 | SSW | 1.6 | S | 1.7 | S |
| 17:00-18:00 HOUR | 1.8 | S | 1.4 | SSW | 2.9 | S |
| 18:00-19:00 HOUR | 2.0 | WSW | 1.4 | S | 2.3 | SSE |
| 19:00-20:00 HOUR | 2.1 | SW | 2.0 | SSW | 2.9 | SSE |
| 20:00-21:00 HOUR | 2.1 | SSW | 1.8 | S | 3.2 | S |
| 21:00-22:00 HOUR | 2.3 | SSW | 1.7 | S | 2.9 | S |
| 22:00-23:00 HOUR | 1.8 | SSW | 1.9 | SSW | 3.2 | SSW |
| 23:00-00:00 HOUR | 1.7 | SW | 2.2 | SSW | 3.4 | SSW |
| 00:00-01:00 HOUR | 1.9 | SSW | 2.1 | SW | 2.5 | S |
| 01:00-02:00 HOUR | 1.9 | SW | 1.6 | S | 2.4 | SSW |
| 02:00-03:00 HOUR | 1.9 | S | 2.3 | SSW | 3.2 | S |
| 03:00-04:00 HOUR | 2.1 | SSW | 1.9 | S | 2.9 | SSW |
| 04:00-05:00 HOUR | 1.9 | SSW | 2.3 | S | 3.0 | S |
| 05:00-06:00 HOUR | 1.6 | S | 2.3 | S | 3.7 | SSW |
| 06:00-07:00 HOUR | 2.2 | S | 2.5 | S | 2.9 | SW |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC-TISI-TIS 17025
TESTING 0207

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER COMPANY LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**SAMPLING SOURCE** : STATION B : SOI TOEDTHAI MUSLIM
**SAMPLE TYPE** : AMBIENT
**SAMPLING DATE** : *, **, ***
**SAMPLING TIME** : *, **, ***
**SAMPLING BY** : MR AUSADAWUT YONSIRI
**ANALYZED BY** : MISS JETJARIN TUMSA-AT
**RECEIVED DATE** : OCTOBER 17, 2023
**ANALYTICAL DATE** : OCTOBER 17-20, 2023
**REPORT NO.** : 2023-U090324
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU542-0004 - T23AU542-0006

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | |
|---|---|---|---|---|---|
| | | | STATION B : SOI TOEDTHAI MUSLIM | | |
| | | | * T23AU542-0004 | ** T23AU542-0005 | *** T23AU542-0006 |
| TOTAL SUSPENDED PARTICULATE | $mg/m^3$ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.035 | 0.047 | 0.031 |
| PARTICULATE MATTER (≤ 10 µm) | $mg/m^3$ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.020 | 0.037 | 0.015 |
| FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) | $µg/m^3$ | US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021 | 12.0 | 26.1 | 7.10 |
| **SAMPLE CONDITION** | | | COMPLETE | COMPLETE | COMPLETE |

REMARK
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 09:00 HOUR ON OCTOBER 9, 2023 TO 09:00 HOUR ON OCTOBER 10, 2023.
** : SAMPLING FROM 09:00 HOUR ON OCTOBER 10, 2023 TO 09:00 HOUR ON OCTOBER 11, 2023.
*** : SAMPLING FROM 09:00 HOUR ON OCTOBER 11, 2023 TO 09:00 HOUR ON OCTOBER 12, 2023.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION B : SOI TOEDTHAI MUSLIM
**MEASURING TYPE** : AMBIENT (AIR)
**MEASURING DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : *
**MEASURING METHOD** : CHEMILUMINESCENCE
**MEASURED BY** : MR AUSADAWUT YONSIRI
**RECEIVED DATE** : OCTOBER 9-12, 2023
**ANALYTICAL DATE** : OCTOBER 9-12, 2023
**REPORT NO.** : 2023-U089322
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU542-0004 - T23AU542-0006

| TIME * | RESULT (ppm) NITROGEN DIOXIDE STATION B : SOI TOEDTHAI MUSLIM | | |
|---|---|---|---|
| | OCTOBER 9-10, 2023 T23AU542-0004 | OCTOBER 10-11, 2023 T23AU542-0005 | OCTOBER 11-12, 2023 T23AU542-0006 |
| 07:00-08:00 HOUR | 0.0175 | 0.0184 | 0.0175 |
| 08:00-09:00 HOUR | 0.0164 | 0.0156 | 0.0161 |
| 09:00-10:00 HOUR | 0.0136 | 0.0121 | 0.0128 |
| 10:00-11:00 HOUR | 0.0116 | 0.0095 | 0.0128 |
| 11:00-12:00 HOUR | 0.0101 | 0.0099 | 0.0128 |
| 12:00-13:00 HOUR | 0.0103 | 0.0101 | 0.0129 |
| 13:00-14:00 HOUR | 0.0112 | 0.0125 | 0.0131 |
| 14:00-15:00 HOUR | 0.0116 | 0.0137 | 0.0129 |
| 15:00-16:00 HOUR | 0.0137 | 0.0167 | 0.0143 |
| 16:00-17:00 HOUR | 0.0158 | 0.0182 | 0.0153 |
| 17:00-18:00 HOUR | 0.0174 | 0.0193 | 0.0163 |
| 18:00-19:00 HOUR | 0.0178 | 0.0195 | 0.0166 |
| 19:00-20:00 HOUR | 0.0183 | 0.0185 | 0.0164 |
| 20:00-21:00 HOUR | 0.0185 | 0.0184 | 0.0153 |
| 21:00-22:00 HOUR | 0.0182 | 0.0166 | 0.0139 |
| 22:00-23:00 HOUR | 0.0171 | 0.0152 | 0.0120 |
| 23:00-00:00 HOUR | 0.0166 | 0.0133 | 0.0108 |
| 00:00-01:00 HOUR | 0.0168 | 0.0125 | 0.0104 |
| 01:00-02:00 HOUR | 0.0170 | 0.0126 | 0.0109 |
| 02:00-03:00 HOUR | 0.0169 | 0.0132 | 0.0117 |
| 03:00-04:00 HOUR | 0.0166 | 0.0134 | 0.0118 |
| 04:00-05:00 HOUR | 0.0168 | 0.0145 | 0.0128 |
| 05:00-06:00 HOUR | 0.0177 | 0.0160 | 0.0153 |
| 06:00-07:00 HOUR | 0.0190 | 0.0187 | 0.0185 |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION B : SOI TOEDTHAI MUSLIM
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : OCTOBER 9-12, 2023
**MEASURING DATE** : OCTOBER 9-12, 2023 **ANALYTICAL DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : 09:0 * **REPORT NO.** : 2023-U089326
**MEASURING METHOD** : UV FLUORESCENCE **WORK NO.** : 2021-008697
**MEASURED BY** : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AU542-0004 - T23AU542-0006

| TIME * | RESULT (ppm) SULPHUR DIOXIDE STATION B : SOI TOEDTHAI MUSLIM | | |
|---|---|---|---|
| | OCTOBER 9-10, 2023 T23AU542-0004 | OCTOBER 10-11, 2023 T23AU542-0005 | OCTOBER 11-12, 2023 T23AU542-0006 |
| 07:00-08:00 HOUR | 0.0024 | 0.0030 | 0.0029 |
| 08:00-09:00 HOUR | 0.0022 | 0.0028 | 0.0027 |
| 09:00-10:00 HOUR | 0.0020 | 0.0028 | 0.0024 |
| 10:00-11:00 HOUR | 0.0020 | 0.0026 | 0.0024 |
| 11:00-12:00 HOUR | 0.0021 | 0.0025 | 0.0026 |
| 12:00-13:00 HOUR | 0.0025 | 0.0026 | 0.0030 |
| 13:00-14:00 HOUR | 0.0030 | 0.0028 | 0.0029 |
| 14:00-15:00 HOUR | 0.0034 | 0.0033 | 0.0030 |
| 15:00-16:00 HOUR | 0.0035 | 0.0034 | 0.0029 |
| 16:00-17:00 HOUR | 0.0035 | 0.0035 | 0.0034 |
| 17:00-18:00 HOUR | 0.0037 | 0.0035 | 0.0034 |
| 18:00-19:00 HOUR | 0.0035 | 0.0036 | 0.0036 |
| 19:00-20:00 HOUR | 0.0034 | 0.0032 | 0.0034 |
| 20:00-21:00 HOUR | 0.0030 | 0.0027 | 0.0036 |
| 21:00-22:00 HOUR | 0.0029 | 0.0022 | 0.0034 |
| 22:00-23:00 HOUR | 0.0027 | 0.0020 | 0.0036 |
| 23:00-00:00 HOUR | 0.0029 | 0.0018 | 0.0035 |
| 00:00-01:00 HOUR | 0.0032 | 0.0018 | 0.0038 |
| 01:00-02:00 HOUR | 0.0032 | 0.0019 | 0.0037 |
| 02:00-03:00 HOUR | 0.0032 | 0.0024 | 0.0040 |
| 03:00-04:00 HOUR | 0.0030 | 0.0027 | 0.0039 |
| 04:00-05:00 HOUR | 0.0032 | 0.0031 | 0.0040 |
| 05:00-06:00 HOUR | 0.0033 | 0.0030 | 0.0035 |
| 06:00-07:00 HOUR | 0.0032 | 0.0031 | 0.0032 |
| AVERAGE 24 HOUR | 0.0030 | 0.0028 | 0.0033 |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION B : SOI TOEDTHAI MUSLIM
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : OCTOBER 9-12, 2023
**MEASURING DATE** : OCTOBER 9-12, 2023 **ANALYTICAL DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : * **REPORT NO.** : 2023-U089330
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2021-008697
**MEASURED BY** : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AU542-0004 - T23AU542-0006

| TIME * | RESULT (m/s) STATION B : SOI TOEDTHAI MUSLIM | | | | | |
|---|---|---|---|---|---|---|
| | OCTOBER 9-10, 2023 T23AU542-0004 | | OCTOBER 10-11, 2023 T23AU542-0005 | | OCTOBER 11-12, 2023 T23AU542-0006 | |
| | WIND SPEED | WIND DIRECTION | WIND SPEED | WIND DIRECTION | WIND SPEED | WIND DIRECTION |
| 07:00-08:00 HOUR | 1.7 | SSW | 1.6 | SSE | 1.7 | SSW |
| 08:00-09:00 HOUR | 2.1 | SSW | 2.3 | SSE | 2.3 | SW |
| 09:00-10:00 HOUR | 1.7 | S | 2.3 | SSE | 3.1 | SSW |
| 10:00-11:00 HOUR | 1.6 | SSE | 2.1 | SSE | 3.4 | SSW |
| 11:00-12:00 HOUR | 2.6 | SSE | 2.5 | SSW | 3.0 | S |
| 12:00-13:00 HOUR | 2.2 | SSE | 2.1 | S | 2.5 | SSW |
| 13:00-14:00 HOUR | 2.0 | SSE | 1.9 | SSW | 2.0 | SSW |
| 14:00-15:00 HOUR | 1.4 | SSE | 2.3 | S | 1.2 | S |
| 15:00-16:00 HOUR | 1.0 | SSW | 2.6 | SSW | 1.1 | S |
| 16:00-17:00 HOUR | 1.5 | S | 3.2 | SW | 1.2 | S |
| 17:00-18:00 HOUR | 1.6 | S | 2.6 | SW | 0.9 | SSW |
| 18:00-19:00 HOUR | 2.2 | S | 3.3 | SSW | 1.0 | SW |
| 19:00-20:00 HOUR | 2.3 | SSW | 2.4 | SSW | 1.0 | SSW |
| 20:00-21:00 HOUR | 2.1 | SSW | 1.7 | SSW | 1.1 | S |
| 21:00-22:00 HOUR | 3.2 | S | 1.8 | SW | 1.3 | SSW |
| 22:00-23:00 HOUR | 3.1 | S | 0.9 | SSW | 1.4 | S |
| 23:00-00:00 HOUR | 1.9 | S | 1.0 | WSW | 1.3 | S |
| 00:00-01:00 HOUR | 2.3 | SSW | 1.2 | WSW | 2.1 | S |
| 01:00-02:00 HOUR | 2.0 | S | 0.9 | SSW | 1.5 | SSW |
| 02:00-03:00 HOUR | 2.2 | SW | 1.0 | S | 2.0 | SSE |
| 03:00-04:00 HOUR | 2.0 | SSW | 1.9 | SW | 1.6 | S |
| 04:00-05:00 HOUR | 1.5 | S | 2.0 | S | 2.0 | SSE |
| 05:00-06:00 HOUR | 1.7 | SSE | 1.9 | SW | 2.1 | SW |
| 06:00-07:00 HOUR | 1.5 | S | 2.2 | SSW | 1.7 | SW |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER COMPANY LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**SAMPLING SOURCE** : STATION C : PTT RESIDENT AREA
**SAMPLE TYPE** : AMBIENT
**SAMPLING DATE** : *, **, ***
**SAMPLING TIME** : *, **, ***
**SAMPLING BY** : MR AUSADAWUT YONSIRI
**ANALYZED BY** : MISS JETJARIN TUMSA-AT
**RECEIVED DATE** : OCTOBER 17, 2023
**ANALYTICAL DATE** : OCTOBER 17-20, 2023
**REPORT NO.** : 2023-U090326
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU542-0007 - T23AU542-0009

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | |
|---|---|---|---|---|---|
| | | | STATION C : PTT RESIDENT AREA | | |
| | | | * T23AU542-0007 | ** T23AU542-0008 | *** T23AU542-0009 |
| TOTAL SUSPENDED PARTICULATE | mg/m³ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.052 | 0.053 | 0.047 |
| PARTICULATE MATTER (≤ 10 µm) | mg/m³ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.024 | 0.032 | 0.032 |
| FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) | µg/m³ | US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021 | 10.7 | 25.1 | 20.2 |
| **SAMPLE CONDITION** | | | COMPLETE | COMPLETE | COMPLETE |

REMARK
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 10:30 HOUR ON OCTOBER 9, 2023 TO 10:30 HOUR ON OCTOBER 10, 2023.
** : SAMPLING FROM 10:30 HOUR ON OCTOBER 10, 2023 TO 10:30 HOUR ON OCTOBER 11, 2023.
*** : SAMPLING FROM 10:30 HOUR ON OCTOBER 11, 2023 TO 10:30 HOUR ON OCTOBER 12, 2023.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION C : PTT RESIDENT AREA
**MEASURING TYPE** : AMBIENT (AIR)
**MEASURING DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : *
**MEASURING METHOD** : CHEMILUMINESCENCE
**MEASURED BY** : MR AUSADAWUT YONSIRI
**RECEIVED DATE** : OCTOBER 9-12, 2023
**ANALYTICAL DATE** : OCTOBER 9-12, 2023
**REPORT NO.** : 2023-U089323
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU542-0007 - T23AU542-0009

| TIME * | RESULT (ppm) NITROGEN DIOXIDE STATION C : PTT RESIDENT AREA | | |
|---|---|---|---|
| | OCTOBER 9-10, 2023 T23AU542-0007 | OCTOBER 10-11, 2023 T23AU542-0008 | OCTOBER 11-12, 2023 T23AU542-0009 |
| 07:00-08:00 HOUR | 0.0201 | 0.0180 | 0.0177 |
| 08:00-09:00 HOUR | 0.0193 | 0.0166 | 0.0153 |
| 09:00-10:00 HOUR | 0.0164 | 0.0132 | 0.0123 |
| 10:00-11:00 HOUR | 0.0142 | 0.0112 | 0.0116 |
| 11:00-12:00 HOUR | 0.0128 | 0.0101 | 0.0120 |
| 12:00-13:00 HOUR | 0.0131 | 0.0107 | 0.0118 |
| 13:00-14:00 HOUR | 0.0142 | 0.0112 | 0.0124 |
| 14:00-15:00 HOUR | 0.0144 | 0.0114 | 0.0121 |
| 15:00-16:00 HOUR | 0.0159 | 0.0141 | 0.0144 |
| 16:00-17:00 HOUR | 0.0158 | 0.0160 | 0.0151 |
| 17:00-18:00 HOUR | 0.0173 | 0.0175 | 0.0158 |
| 18:00-19:00 HOUR | 0.0175 | 0.0168 | 0.0157 |
| 19:00-20:00 HOUR | 0.0178 | 0.0169 | 0.0153 |
| 20:00-21:00 HOUR | 0.0161 | 0.0171 | 0.0159 |
| 21:00-22:00 HOUR | 0.0156 | 0.0175 | 0.0150 |
| 22:00-23:00 HOUR | 0.0161 | 0.0167 | 0.0144 |
| 23:00-00:00 HOUR | 0.0175 | 0.0162 | 0.0134 |
| 00:00-01:00 HOUR | 0.0185 | 0.0152 | 0.0127 |
| 01:00-02:00 HOUR | 0.0184 | 0.0154 | 0.0122 |
| 02:00-03:00 HOUR | 0.0177 | 0.0147 | 0.0141 |
| 03:00-04:00 HOUR | 0.0165 | 0.0151 | 0.0147 |
| 04:00-05:00 HOUR | 0.0163 | 0.0161 | 0.0149 |
| 05:00-06:00 HOUR | 0.0174 | 0.0180 | 0.0167 |
| 06:00-07:00 HOUR | 0.0185 | 0.0189 | 0.0181 |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION C : PTT RESIDENT AREA
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : OCTOBER 9-12, 2023
**MEASURING DATE** : OCTOBER 9-12, 2023 **ANALYTICAL DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : * **REPORT NO.** : 2023-U089327
**MEASURING METHOD** : UV FLUORESCENCE **WORK NO.** : 2021-008697
**MEASURED BY** : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AU542-0007 - T23AU542-0009

| TIME * | RESULT (ppm) SULPHUR DIOXIDE STATION C : PTT RESIDENT AREA | | |
|---|---|---|---|
| | OCTOBER 9-10, 2023 T23AU542-0007 | OCTOBER 10-11, 2023 T23AU542-0008 | OCTOBER 11-12, 2023 T23AU542-0009 |
| 07:00-08:00 HOUR | 0.0030 | 0.0023 | 0.0021 |
| 08:00-09:00 HOUR | 0.0029 | 0.0022 | 0.0018 |
| 09:00-10:00 HOUR | 0.0026 | 0.0024 | 0.0016 |
| 10:00-11:00 HOUR | 0.0025 | 0.0027 | 0.0016 |
| 11:00-12:00 HOUR | 0.0025 | 0.0028 | 0.0015 |
| 12:00-13:00 HOUR | 0.0027 | 0.0028 | 0.0017 |
| 13:00-14:00 HOUR | 0.0028 | 0.0029 | 0.0021 |
| 14:00-15:00 HOUR | 0.0032 | 0.0031 | 0.0023 |
| 15:00-16:00 HOUR | 0.0034 | 0.0030 | 0.0028 |
| 16:00-17:00 HOUR | 0.0035 | 0.0029 | 0.0028 |
| 17:00-18:00 HOUR | 0.0033 | 0.0028 | 0.0031 |
| 18:00-19:00 HOUR | 0.0032 | 0.0034 | 0.0028 |
| 19:00-20:00 HOUR | 0.0032 | 0.0038 | 0.0028 |
| 20:00-21:00 HOUR | 0.0028 | 0.0042 | 0.0028 |
| 21:00-22:00 HOUR | 0.0025 | 0.0042 | 0.0027 |
| 22:00-23:00 HOUR | 0.0022 | 0.0043 | 0.0029 |
| 23:00-00:00 HOUR | 0.0022 | 0.0039 | 0.0029 |
| 00:00-01:00 HOUR | 0.0021 | 0.0032 | 0.0032 |
| 01:00-02:00 HOUR | 0.0023 | 0.0028 | 0.0030 |
| 02:00-03:00 HOUR | 0.0023 | 0.0029 | 0.0029 |
| 03:00-04:00 HOUR | 0.0027 | 0.0031 | 0.0026 |
| 04:00-05:00 HOUR | 0.0027 | 0.0033 | 0.0023 |
| 05:00-06:00 HOUR | 0.0028 | 0.0032 | 0.0025 |
| 06:00-07:00 HOUR | 0.0025 | 0.0028 | 0.0028 |
| AVERAGE 24 HOUR | 0.0027 | 0.0031 | 0.0025 |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION C : PTT RESIDENT AREA
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : OCTOBER 9-12, 2023
**MEASURING DATE** : OCTOBER 9-12, 2023 **ANALYTICAL DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : * **REPORT NO.** : 2023-U089331
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2021-008697
**MEASURED BY** : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AU542-0007 - T23AU542-0009

| TIME * | RESULT (m/s) STATION C : PTT RESIDENT AREA | | | | | |
|---|---|---|---|---|---|---|
| | OCTOBER 9-10, 2023 T23AU542-0007 | | OCTOBER 10-11, 2023 T23AU542-0008 | | OCTOBER 11-12, 2023 T23AU542-0009 | |
| | WIND SPEED | WIND DIRECTION | WIND SPEED | WIND DIRECTION | WIND SPEED | WIND DIRECTION |
| 07:00-08:00 HOUR | 1.3 | S | 1.9 | SSW | 1.9 | S |
| 08:00-09:00 HOUR | 1.5 | S | 2.2 | SSW | 2.3 | SSE |
| 09:00-10:00 HOUR | 2.4 | S | 3.5 | SSE | 2.3 | SSE |
| 10:00-11:00 HOUR | 2.1 | SSW | 2.8 | S | 2.8 | SSE |
| 11:00-12:00 HOUR | 1.7 | SSE | 3.0 | SW | 3.0 | SSW |
| 12:00-13:00 HOUR | 1.6 | S | 2.4 | SW | 2.3 | SSW |
| 13:00-14:00 HOUR | 2.1 | S | 2.4 | SW | 3.1 | S |
| 14:00-15:00 HOUR | 2.0 | S | 3.3 | SSW | 2.1 | S |
| 15:00-16:00 HOUR | 2.1 | SSE | 3.0 | SW | 1.9 | S |
| 16:00-17:00 HOUR | 1.5 | SSE | 2.9 | SSW | 2.0 | S |
| 17:00-18:00 HOUR | 1.9 | SSE | 3.0 | SW | 2.8 | SSW |
| 18:00-19:00 HOUR | 1.6 | S | 1.9 | S | 2.5 | S |
| 19:00-20:00 HOUR | 1.6 | SSW | 1.9 | SSE | 2.8 | S |
| 20:00-21:00 HOUR | 2.2 | SSE | 2.4 | SSE | 2.5 | S |
| 21:00-22:00 HOUR | 2.1 | SSW | 1.6 | S | 2.3 | SSE |
| 22:00-23:00 HOUR | 1.5 | SW | 1.7 | SSE | 2.9 | SSW |
| 23:00-00:00 HOUR | 1.5 | SW | 1.6 | SW | 3.0 | SSE |
| 00:00-01:00 HOUR | 1.4 | SSW | 1.6 | SSW | 3.0 | S |
| 01:00-02:00 HOUR | 1.9 | SW | 1.1 | S | 2.5 | SSW |
| 02:00-03:00 HOUR | 1.8 | SSW | 0.7 | S | 2.1 | SW |
| 03:00-04:00 HOUR | 1.6 | S | 0.9 | SSW | 1.5 | SSW |
| 04:00-05:00 HOUR | 2.1 | S | 1.3 | S | 2.0 | SW |
| 05:00-06:00 HOUR | 1.6 | SSW | 1.8 | S | 1.7 | SSW |
| 06:00-07:00 HOUR | 1.9 | S | 2.0 | S | 2.1 | SSW |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER COMPANY LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**SAMPLING SOURCE** : STATION D : WAT MAP CHALUDE
**SAMPLE TYPE** : AMBIENT
**SAMPLING DATE** : *, **, ***
**SAMPLING TIME** : *, **, ***
**SAMPLING BY** : MR AUSADAWUT YONSIRI
**ANALYZED BY** : MISS JETJARIN TUMSA-AT
**RECEIVED DATE** : OCTOBER 17, 2023
**ANALYTICAL DATE** : OCTOBER 17-20, 2023
**REPORT NO.** : 2023-U090327
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU542-0010 - T23AU542-0012

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | |
|---|---|---|---|---|---|
| | | | STATION D : WAT MAP CHALUDE | | |
| | | | * T23AU542-0010 | ** T23AU542-0011 | *** T23AU542-0012 |
| TOTAL SUSPENDED PARTICULATE | $mg/m^3$ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.040 | 0.043 | 0.035 |
| PARTICULATE MATTER (≤ 10 µm) | $mg/m^3$ | GRAVIMETRIC (HIGH VOLUME METHOD) | 0.027 | 0.021 | 0.025 |
| FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm) | $µg/m^3$ | US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021 | 12.9 | 8.50 | 15.4 |
| **SAMPLE CONDITION** | | | COMPLETE | COMPLETE | COMPLETE |

REMARK
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 10:00 HOUR ON OCTOBER 9, 2023 TO 10:00 HOUR ON OCTOBER 10, 2023.
** : SAMPLING FROM 10:00 HOUR ON OCTOBER 10, 2023 TO 10:00 HOUR ON OCTOBER 11, 2023.
*** : SAMPLING FROM 10:00 HOUR ON OCTOBER 11, 2023 TO 10:00 HOUR ON OCTOBER 12, 2023.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION D : WAT MAP CHALUDE
**MEASURING TYPE** : AMBIENT (AIR)
**MEASURING DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : *
**MEASURING METHOD** : CHEMILUMINESCENCE
**MEASURED BY** : MR AUSADAWUT YONSIRI
**RECEIVED DATE** : OCTOBER 9-12, 2023
**ANALYTICAL DATE** : OCTOBER 9-12, 2023
**REPORT NO.** : 2023-U089324
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU542-0010 - T23AU542-0012

| TIME * | RESULT (ppm) | | |
|---|---|---|---|
| | NITROGEN DIOXIDE | | |
| | STATION D : WAT MAP CHALUDE | | |
| | OCTOBER 9-10, 2023 T23AU542-0010 | OCTOBER 10-11, 2023 T23AU542-0011 | OCTOBER 11-12, 2023 T23AU542-0012 |
| 07:00-08:00 HOUR | 0.0177 | 0.0183 | 0.0171 |
| 08:00-09:00 HOUR | 0.0169 | 0.0170 | 0.0150 |
| 09:00-10:00 HOUR | 0.0131 | 0.0135 | 0.0122 |
| 10:00-11:00 HOUR | 0.0123 | 0.0123 | 0.0108 |
| 11:00-12:00 HOUR | 0.0117 | 0.0114 | 0.0106 |
| 12:00-13:00 HOUR | 0.0117 | 0.0118 | 0.0112 |
| 13:00-14:00 HOUR | 0.0135 | 0.0131 | 0.0122 |
| 14:00-15:00 HOUR | 0.0155 | 0.0135 | 0.0129 |
| 15:00-16:00 HOUR | 0.0184 | 0.0150 | 0.0152 |
| 16:00-17:00 HOUR | 0.0206 | 0.0155 | 0.0175 |
| 17:00-18:00 HOUR | 0.0206 | 0.0170 | 0.0200 |
| 18:00-19:00 HOUR | 0.0212 | 0.0169 | 0.0206 |
| 19:00-20:00 HOUR | 0.0210 | 0.0167 | 0.0213 |
| 20:00-21:00 HOUR | 0.0202 | 0.0157 | 0.0212 |
| 21:00-22:00 HOUR | 0.0187 | 0.0158 | 0.0218 |
| 22:00-23:00 HOUR | 0.0170 | 0.0150 | 0.0205 |
| 23:00-00:00 HOUR | 0.0171 | 0.0150 | 0.0208 |
| 00:00-01:00 HOUR | 0.0168 | 0.0142 | 0.0195 |
| 01:00-02:00 HOUR | 0.0170 | 0.0137 | 0.0188 |
| 02:00-03:00 HOUR | 0.0173 | 0.0142 | 0.0172 |
| 03:00-04:00 HOUR | 0.0180 | 0.0148 | 0.0158 |
| 04:00-05:00 HOUR | 0.0181 | 0.0164 | 0.0169 |
| 05:00-06:00 HOUR | 0.0186 | 0.0169 | 0.0184 |
| 06:00-07:00 HOUR | 0.0192 | 0.0181 | 0.0200 |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION D : WAT MAP CHALUDE
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : OCTOBER 9-12, 2023
**MEASURING DATE** : OCTOBER 9-12, 2023 **ANALYTICAL DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : * **REPORT NO.** : 2023-U089328
**MEASURING METHOD** : UV FLUORESCENCE **WORK NO.** : 2021-008697
**MEASURED BY** : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AU542-0010 - T23AU542-0012

| TIME * | RESULT (ppm) SULPHUR DIOXIDE STATION D : WAT MAP CHALUDE | | |
|---|---|---|---|
| | OCTOBER 9-10, 2023 T23AU542-0010 | OCTOBER 10-11, 2023 T23AU542-0011 | OCTOBER 11-12, 2023 T23AU542-0012 |
| 07:00-08:00 HOUR | 0.0028 | 0.0027 | 0.0027 |
| 08:00-09:00 HOUR | 0.0023 | 0.0022 | 0.0025 |
| 09:00-10:00 HOUR | 0.0023 | 0.0020 | 0.0026 |
| 10:00-11:00 HOUR | 0.0024 | 0.0017 | 0.0027 |
| 11:00-12:00 HOUR | 0.0027 | 0.0018 | 0.0029 |
| 12:00-13:00 HOUR | 0.0027 | 0.0018 | 0.0031 |
| 13:00-14:00 HOUR | 0.0029 | 0.0020 | 0.0033 |
| 14:00-15:00 HOUR | 0.0027 | 0.0024 | 0.0039 |
| 15:00-16:00 HOUR | 0.0029 | 0.0027 | 0.0038 |
| 16:00-17:00 HOUR | 0.0032 | 0.0029 | 0.0036 |
| 17:00-18:00 HOUR | 0.0036 | 0.0028 | 0.0032 |
| 18:00-19:00 HOUR | 0.0040 | 0.0027 | 0.0034 |
| 19:00-20:00 HOUR | 0.0039 | 0.0027 | 0.0036 |
| 20:00-21:00 HOUR | 0.0038 | 0.0028 | 0.0035 |
| 21:00-22:00 HOUR | 0.0034 | 0.0030 | 0.0036 |
| 22:00-23:00 HOUR | 0.0032 | 0.0029 | 0.0037 |
| 23:00-00:00 HOUR | 0.0029 | 0.0029 | 0.0039 |
| 00:00-01:00 HOUR | 0.0027 | 0.0028 | 0.0039 |
| 01:00-02:00 HOUR | 0.0029 | 0.0030 | 0.0035 |
| 02:00-03:00 HOUR | 0.0031 | 0.0028 | 0.0034 |
| 03:00-04:00 HOUR | 0.0033 | 0.0030 | 0.0036 |
| 04:00-05:00 HOUR | 0.0033 | 0.0028 | 0.0038 |
| 05:00-06:00 HOUR | 0.0032 | 0.0028 | 0.0035 |
| 06:00-07:00 HOUR | 0.0031 | 0.0027 | 0.0030 |
| AVERAGE 24 HOUR | 0.0031 | 0.0026 | 0.0034 |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING PLACE** : STATION D : WAT MAP CHALUDE
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : OCTOBER 9-12, 2023
**MEASURING DATE** : OCTOBER 9-12, 2023 **ANALYTICAL DATE** : OCTOBER 9-12, 2023
**MEASURING TIME** : * **REPORT NO.** : 2023-U089332
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2021-008697
**MEASURED BY** : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AU542-0010 - T23AU542-0012

| TIME * | RESULT (m/s) STATION D : WAT MAP CHALUDE | | | | | |
|---|---|---|---|---|---|---|
| | OCTOBER 9-10, 2023 T23AU542-0010 | | OCTOBER 10-11, 2023 T23AU542-0011 | | OCTOBER 11-12, 2023 T23AU542-0012 | |
| | WIND SPEED | WIND DIRECTION | WIND SPEED | WIND DIRECTION | WIND SPEED | WIND DIRECTION |
| 07:00-08:00 HOUR | 3.1 | SSW | 3.6 | WSW | 1.0 | SSW |
| 08:00-09:00 HOUR | 1.8 | SSW | 3.1 | SW | 1.9 | S |
| 09:00-10:00 HOUR | 2.1 | S | 3.4 | SSW | 1.0 | SSW |
| 10:00-11:00 HOUR | 1.4 | SSE | 3.7 | S | 1.2 | S |
| 11:00-12:00 HOUR | 1.0 | S | 2.8 | SSW | 1.9 | SSE |
| 12:00-13:00 HOUR | 1.5 | SW | 3.5 | S | 2.3 | S |
| 13:00-14:00 HOUR | 1.3 | SSW | 3.1 | SSW | 1.7 | S |
| 14:00-15:00 HOUR | 1.1 | SSW | 2.8 | S | 2.1 | S |
| 15:00-16:00 HOUR | 1.7 | S | 3.4 | SSW | 1.5 | SSW |
| 16:00-17:00 HOUR | 1.6 | SSE | 2.9 | SSW | 1.5 | SSW |
| 17:00-18:00 HOUR | 2.1 | SSW | 2.5 | SSE | 1.2 | SSW |
| 18:00-19:00 HOUR | 2.1 | SSE | 2.3 | S | 2.3 | SSW |
| 19:00-20:00 HOUR | 1.7 | SSE | 2.8 | SSE | 2.3 | SW |
| 20:00-21:00 HOUR | 1.8 | S | 2.2 | S | 2.2 | SSW |
| 21:00-22:00 HOUR | 1.3 | SSE | 2.0 | SSW | 2.3 | SSW |
| 22:00-23:00 HOUR | 1.9 | S | 2.4 | S | 1.8 | SSW |
| 23:00-00:00 HOUR | 1.7 | SSE | 2.3 | S | 1.7 | SSW |
| 00:00-01:00 HOUR | 2.0 | S | 1.3 | SSW | 2.3 | S |
| 01:00-02:00 HOUR | 1.5 | SSE | 1.6 | S | 2.3 | S |
| 02:00-03:00 HOUR | 1.9 | SSW | 1.0 | SSW | 1.9 | S |
| 03:00-04:00 HOUR | 2.1 | WSW | 1.0 | S | 2.8 | S |
| 04:00-05:00 HOUR | 2.0 | WSW | 1.1 | SSW | 3.4 | S |
| 05:00-06:00 HOUR | 3.3 | WSW | 1.0 | SSW | 2.5 | S |
| 06:00-07:00 HOUR | 3.6 | WSW | 1.7 | SSE | 3.1 | SSE |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

# ภาคผนวก ณ-3

## ผลการติดตามตรวจสอบระดับเสียงทั่วไปในบรรยากาศ

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**MEASURING SOURCE** : POWER PLANT AREA
**MEASURING TYPE** : AMBIENT (NOISE) **RECEIVED DATE** : JULY 10-17, 2023
**MEASURING DATE** : JULY 10-17, 2023 **ANALYTICAL DATE** : JULY 10-17, 2023
**MEASURING TIME** : * **REPORT NO.** : 2023-U059777
**MEASURING METHOD** : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2021-008697
**MEASURED BY** : MR PAIRAT KUMNERDRAKSA **ANALYSIS NO.** : T23AN732-0001 - T23AN732-0007

| TIME* | RESULT dB(A) POWER PLANT AREA JULY 10-11, 2023 T23AN732-0001 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 62.7 | 76.9 | 61.8 |
| 08:00-09:00 HOUR | 62.3 | 73.9 | 61.6 |
| 09:00-10:00 HOUR | 62.2 | 78.1 | 61.6 |
| 10:00-11:00 HOUR | 62.8 | 83.8 | 61.7 |
| 11:00-12:00 HOUR | 62.7 | 83.0 | 61.6 |
| 12:00-13:00 HOUR | 62.7 | 88.7 | 61.6 |
| 13:00-14:00 HOUR | 62.6 | 86.4 | 61.7 |
| 14:00-15:00 HOUR | 63.6 | 83.3 | 62.3 |
| 15:00-16:00 HOUR | 63.5 | 89.5 | 62.3 |
| 16:00-17:00 HOUR | 63.5 | 85.0 | 62.4 |
| 17:00-18:00 HOUR | 63.8 | 84.8 | 62.4 |
| 18:00-19:00 HOUR | 63.3 | 83.3 | 62.2 |
| 19:00-20:00 HOUR | 62.7 | 81.8 | 62.1 |
| 20:00-21:00 HOUR | 62.9 | 83.0 | 62.1 |
| 21:00-22:00 HOUR | 63.3 | 82.4 | 62.2 |
| 22:00-23:00 HOUR | 63.2 | 82.9 | 62.2 |
| 23:00-00:00 HOUR | 63.0 | 84.8 | 62.1 |
| 00:00-01:00 HOUR | 62.7 | 73.2 | 62.0 |
| 01:00-02:00 HOUR | 62.7 | 79.4 | 62.0 |
| 02:00-03:00 HOUR | 62.6 | 72.9 | 62.1 |
| 03:00-04:00 HOUR | 62.7 | 74.8 | 62.2 |
| 04:00-05:00 HOUR | 63.0 | 81.4 | 61.9 |
| 05:00-06:00 HOUR | 62.7 | 79.8 | 61.6 |
| 06:00-07:00 HOUR | 62.4 | 75.6 | 61.4 |
| $L_{Aeq\ 24\ hours}$ | | 62.9 | |
| $L_{Adn}$ | | 69.2 | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) POWER PLANT AREA JULY 11-12, 2023 T23AN732-0002 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 62.2 | 71.9 | 61.5 |
| 08:00-09:00 HOUR | 62.2 | 80.5 | 61.4 |
| 09:00-10:00 HOUR | 62.2 | 80.0 | 61.3 |
| 10:00-11:00 HOUR | 62.7 | 82.5 | 61.3 |
| 11:00-12:00 HOUR | 62.9 | 80.6 | 61.3 |
| 12:00-13:00 HOUR | 62.7 | 82.8 | 61.2 |
| 13:00-14:00 HOUR | 64.0 | 80.4 | 61.5 |
| 14:00-15:00 HOUR | 63.3 | 84.6 | 61.5 |
| 15:00-16:00 HOUR | 62.9 | 80.5 | 61.5 |
| 16:00-17:00 HOUR | 63.0 | 83.9 | 62.2 |
| 17:00-18:00 HOUR | 63.1 | 85.3 | 62.1 |
| 18:00-19:00 HOUR | 62.7 | 82.9 | 62.0 |
| 19:00-20:00 HOUR | 62.7 | 79.8 | 62.1 |
| 20:00-21:00 HOUR | 63.0 | 86.4 | 62.1 |
| 21:00-22:00 HOUR | 63.5 | 80.9 | 62.3 |
| 22:00-23:00 HOUR | 63.3 | 83.2 | 62.3 |
| 23:00-00:00 HOUR | 63.0 | 78.8 | 62.2 |
| 00:00-01:00 HOUR | 62.7 | 79.5 | 62.0 |
| 01:00-02:00 HOUR | 62.8 | 74.7 | 62.2 |
| 02:00-03:00 HOUR | 62.8 | 70.5 | 62.2 |
| 03:00-04:00 HOUR | 62.5 | 82.9 | 61.9 |
| 04:00-05:00 HOUR | 62.5 | 79.6 | 61.8 |
| 05:00-06:00 HOUR | 62.6 | 77.9 | 61.7 |
| 06:00-07:00 HOUR | 62.4 | 69.6 | 61.9 |
| $L_{Aeq\ 24\ hours}$ | | 62.8 | |
| $L_{Adn}$ | | 69.2 | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) POWER PLANT AREA JULY 12-13, 2023 T23AN732-0003 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 62.5 | 80.0 | 61.8 |
| 08:00-09:00 HOUR | 62.4 | 80.6 | 61.7 |
| 09:00-10:00 HOUR | 62.9 | 84.9 | 61.8 |
| 10:00-11:00 HOUR | 63.0 | 83.6 | 62.1 |
| 11:00-12:00 HOUR | 63.2 | 83.8 | 62.3 |
| 12:00-13:00 HOUR | 63.3 | 83.5 | 62.4 |
| 13:00-14:00 HOUR | 64.0 | 85.7 | 62.8 |
| 14:00-15:00 HOUR | 63.6 | 84.9 | 62.6 |
| 15:00-16:00 HOUR | 63.6 | 81.4 | 62.6 |
| 16:00-17:00 HOUR | 63.5 | 81.9 | 62.6 |
| 17:00-18:00 HOUR | 64.0 | 79.0 | 62.7 |
| 18:00-19:00 HOUR | 63.3 | 78.2 | 62.6 |
| 19:00-20:00 HOUR | 63.2 | 83.5 | 62.5 |
| 20:00-21:00 HOUR | 63.7 | 84.0 | 62.7 |
| 21:00-22:00 HOUR | 63.7 | 81.7 | 62.6 |
| 22:00-23:00 HOUR | 63.5 | 80.1 | 62.6 |
| 23:00-00:00 HOUR | 63.7 | 81.5 | 62.3 |
| 00:00-01:00 HOUR | 63.0 | 76.7 | 62.1 |
| 01:00-02:00 HOUR | 62.8 | 74.0 | 62.2 |
| 02:00-03:00 HOUR | 62.5 | 65.7 | 62.0 |
| 03:00-04:00 HOUR | 62.6 | 76.5 | 62.0 |
| 04:00-05:00 HOUR | 62.9 | 83.6 | 62.1 |
| 05:00-06:00 HOUR | 62.9 | 74.5 | 62.3 |
| 06:00-07:00 HOUR | 63.0 | 76.8 | 62.4 |
| $L_{Aeq\ 24\ hours}$ | 63.2 | | |
| $L_{Adn}$ | 69.5 | | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



2023-U059777

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) POWER PLANT AREA JULY 13-14, 2023 T23AN732-0004 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 62.9 | 69.7 | 62.3 |
| 08:00-09:00 HOUR | 63.1 | 82.6 | 62.3 |
| 09:00-10:00 HOUR | 63.2 | 82.6 | 62.4 |
| 10:00-11:00 HOUR | 63.6 | 84.6 | 62.5 |
| 11:00-12:00 HOUR | 63.5 | 81.9 | 62.6 |
| 12:00-13:00 HOUR | 63.7 | 86.9 | 62.7 |
| 13:00-14:00 HOUR | 64.0 | 88.9 | 62.6 |
| 14:00-15:00 HOUR | 63.4 | 82.0 | 62.4 |
| 15:00-16:00 HOUR | 63.4 | 84.4 | 62.5 |
| 16:00-17:00 HOUR | 63.9 | 85.1 | 62.6 |
| 17:00-18:00 HOUR | 63.5 | 84.6 | 62.7 |
| 18:00-19:00 HOUR | 63.1 | 76.0 | 62.6 |
| 19:00-20:00 HOUR | 63.1 | 81.2 | 62.4 |
| 20:00-21:00 HOUR | 63.7 | 80.9 | 62.6 |
| 21:00-22:00 HOUR | 63.9 | 83.1 | 62.7 |
| 22:00-23:00 HOUR | 63.2 | 85.8 | 62.2 |
| 23:00-00:00 HOUR | 63.1 | 82.7 | 62.1 |
| 00:00-01:00 HOUR | 62.5 | 74.8 | 61.9 |
| 01:00-02:00 HOUR | 62.8 | 75.9 | 62.0 |
| 02:00-03:00 HOUR | 62.5 | 69.9 | 62.1 |
| 03:00-04:00 HOUR | 62.8 | 81.6 | 62.1 |
| 04:00-05:00 HOUR | 63.1 | 84.0 | 62.2 |
| 05:00-06:00 HOUR | 63.0 | 78.1 | 62.3 |
| 06:00-07:00 HOUR | 62.9 | 72.2 | 62.3 |
| $L_{Aeq\ 24\ hours}$ | 63.3 | | |
| $L_{Adn}$ | 69.4 | | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



2023-U059777

| TIME* | RESULT dB(A) POWER PLANT AREA JULY 14-15, 2023 T23AN732-0005 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 62.8 | 75.7 | 62.2 |
| 08:00-09:00 HOUR | 63.2 | 84.4 | 62.5 |
| 09:00-10:00 HOUR | 63.7 | 81.7 | 62.6 |
| 10:00-11:00 HOUR | 63.3 | 79.8 | 62.6 |
| 11:00-12:00 HOUR | 63.4 | 82.0 | 62.6 |
| 12:00-13:00 HOUR | 63.4 | 83.2 | 62.6 |
| 13:00-14:00 HOUR | 63.8 | 85.6 | 62.7 |
| 14:00-15:00 HOUR | 63.9 | 83.8 | 62.7 |
| 15:00-16:00 HOUR | 63.6 | 87.8 | 62.7 |
| 16:00-17:00 HOUR | 63.4 | 82.2 | 62.7 |
| 17:00-18:00 HOUR | 63.8 | 81.2 | 62.9 |
| 18:00-19:00 HOUR | 63.4 | 80.8 | 62.8 |
| 19:00-20:00 HOUR | 63.2 | 77.6 | 62.6 |
| 20:00-21:00 HOUR | 63.5 | 81.8 | 62.7 |
| 21:00-22:00 HOUR | 63.2 | 80.9 | 62.3 |
| 22:00-23:00 HOUR | 62.8 | 84.0 | 61.9 |
| 23:00-00:00 HOUR | 63.0 | 79.9 | 62.0 |
| 00:00-01:00 HOUR | 63.1 | 73.0 | 62.3 |
| 01:00-02:00 HOUR | 62.6 | 70.4 | 62.0 |
| 02:00-03:00 HOUR | 62.2 | 65.5 | 61.8 |
| 03:00-04:00 HOUR | 62.3 | 77.2 | 61.7 |
| 04:00-05:00 HOUR | 62.4 | 81.3 | 61.7 |
| 05:00-06:00 HOUR | 62.6 | 85.0 | 61.7 |
| 06:00-07:00 HOUR | 62.3 | 69.2 | 61.7 |
| $L_{Aeq\ 24\ hours}$ | 63.1 | | |
| $L_{Adn}$ | 69.1 | | |


• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.


United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) POWER PLANT AREA JULY 15-16, 2023 T23AN732-0006 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 62.3 | 79.1 | 61.7 |
| 08:00-09:00 HOUR | 62.5 | 69.2 | 61.8 |
| 09:00-10:00 HOUR | 63.3 | 82.1 | 62.2 |
| 10:00-11:00 HOUR | 63.5 | 81.8 | 62.3 |
| 11:00-12:00 HOUR | 63.4 | 82.1 | 62.2 |
| 12:00-13:00 HOUR | 63.0 | 83.1 | 62.2 |
| 13:00-14:00 HOUR | 62.2 | 81.1 | 61.3 |
| 14:00-15:00 HOUR | 63.4 | 85.3 | 62.1 |
| 15:00-16:00 HOUR | 63.3 | 80.6 | 62.2 |
| 16:00-17:00 HOUR | 63.0 | 77.6 | 62.2 |
| 17:00-18:00 HOUR | 62.6 | 75.7 | 61.9 |
| 18:00-19:00 HOUR | 62.7 | 84.6 | 61.8 |
| 19:00-20:00 HOUR | 62.8 | 77.2 | 61.9 |
| 20:00-21:00 HOUR | 64.0 | 83.6 | 62.7 |
| 21:00-22:00 HOUR | 63.4 | 82.9 | 62.4 |
| 22:00-23:00 HOUR | 65.0 | 83.6 | 62.9 |
| 23:00-00:00 HOUR | 64.3 | 82.9 | 60.9 |
| 00:00-01:00 HOUR | 60.4 | 78.3 | 58.7 |
| 01:00-02:00 HOUR | 59.2 | 63.9 | 58.4 |
| 02:00-03:00 HOUR | 60.4 | 71.0 | 59.4 |
| 03:00-04:00 HOUR | 60.9 | 78.9 | 59.6 |
| 04:00-05:00 HOUR | 61.4 | 85.5 | 59.6 |
| 05:00-06:00 HOUR | 61.7 | 85.2 | 59.6 |
| 06:00-07:00 HOUR | 60.9 | 78.5 | 59.5 |
| $L_{Aeq\ 24\ hours}$ | 62.7 | | |
| $L_{Adn}$ | 68.6 | | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.
• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) POWER PLANT AREA JULY 16-17, 2023 T23AN732-0007 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 61.1 | 72.9 | 60.0 |
| 08:00-09:00 HOUR | 62.4 | 84.5 | 60.2 |
| 09:00-10:00 HOUR | 62.6 | 83.3 | 60.9 |
| 10:00-11:00 HOUR | 62.5 | 81.5 | 61.7 |
| 11:00-12:00 HOUR | 62.8 | 82.2 | 61.7 |
| 12:00-13:00 HOUR | 63.2 | 85.7 | 61.7 |
| 13:00-14:00 HOUR | 63.2 | 85.4 | 61.6 |
| 14:00-15:00 HOUR | 63.3 | 83.3 | 61.9 |
| 15:00-16:00 HOUR | 62.9 | 82.2 | 61.9 |
| 16:00-17:00 HOUR | 62.3 | 68.7 | 61.7 |
| 17:00-18:00 HOUR | 62.7 | 83.1 | 61.8 |
| 18:00-19:00 HOUR | 63.1 | 83.7 | 61.9 |
| 19:00-20:00 HOUR | 63.4 | 84.4 | 61.9 |
| 20:00-21:00 HOUR | 62.9 | 80.7 | 61.8 |
| 21:00-22:00 HOUR | 62.6 | 85.1 | 61.7 |
| 22:00-23:00 HOUR | 62.6 | 81.0 | 61.8 |
| 23:00-00:00 HOUR | 62.5 | 76.7 | 61.8 |
| 00:00-01:00 HOUR | 62.4 | 67.4 | 61.8 |
| 01:00-02:00 HOUR | 62.3 | 80.0 | 61.6 |
| 02:00-03:00 HOUR | 62.9 | 84.5 | 61.8 |
| 03:00-04:00 HOUR | 62.4 | 73.4 | 61.6 |
| 04:00-05:00 HOUR | 62.3 | 73.5 | 61.7 |
| 05:00-06:00 HOUR | 62.1 | 75.7 | 60.8 |
| 06:00-07:00 HOUR | 61.9 | 82.7 | 60.8 |
| $L_{Aeq\ 24\ hours}$ | | 62.6 | |
| $L_{Adn}$ | | 68.9 | |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



2023-U059777

- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT | | |
| **CUSTOMER NAME** | : BLCP POWER LIMITED | | |
| **ADDRESS** | : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150 | | |
| **CONTACT INFORMATION** | : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th | | |
| **MEASURING SOURCE** | : POWER PLANT AREA | | |
| **MEASURING TYPE** | : AMBIENT (NOISE) | **RECEIVED DATE** | : OCTOBER 5-12, 2023 |
| **MEASURING DATE** | : OCTOBER 5-12, 2023 | **ANALYTICAL DATE** | : OCTOBER 5-12, 2023 |
| **MEASURING TIME** | : * | **REPORT NO.** | : 2023-U089334 |
| **MEASURING METHOD** | : INTEGRATED SOUND LEVEL METER | **WORK NO.** | : 2021-008697 |
| **MEASURED BY** | : MR AUSADAWUT YONSIRI | **ANALYSIS NO.** | : T23AU543-0008 - T23AU543-0014 |

| TIME* | RESULT dB(A) POWER PLANT AREA OCTOBER 5-6, 2023 T23AU543-0008 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 60.6 | 78.6 | 58.6 |
| 08:00-09:00 HOUR | 62.3 | 72.1 | 58.4 |
| 09:00-10:00 HOUR | 64.7 | 87.2 | 58.5 |
| 10:00-11:00 HOUR | 61.8 | 81.6 | 58.5 |
| 11:00-12:00 HOUR | 59.4 | 73.1 | 58.3 |
| 12:00-13:00 HOUR | 60.0 | 74.7 | 59.0 |
| 13:00-14:00 HOUR | 59.0 | 74.6 | 58.2 |
| 14:00-15:00 HOUR | 58.8 | 75.0 | 57.6 |
| 15:00-16:00 HOUR | 59.8 | 83.3 | 57.8 |
| 16:00-17:00 HOUR | 58.4 | 73.4 | 58.1 |
| 17:00-18:00 HOUR | 57.3 | 73.4 | 56.0 |
| 18:00-19:00 HOUR | 58.1 | 75.6 | 56.2 |
| 19:00-20:00 HOUR | 57.1 | 70.4 | 56.0 |
| 20:00-21:00 HOUR | 57.4 | 69.5 | 56.2 |
| 21:00-22:00 HOUR | 57.3 | 72.4 | 56.3 |
| 22:00-23:00 HOUR | 57.9 | 74.4 | 55.7 |
| 23:00-00:00 HOUR | 58.1 | 69.6 | 57.0 |
| 00:00-01:00 HOUR | 58.6 | 69.9 | 57.1 |
| 01:00-02:00 HOUR | 57.7 | 66.8 | 56.8 |
| 02:00-03:00 HOUR | 57.4 | 66.7 | 56.5 |
| 03:00-04:00 HOUR | 57.0 | 62.4 | 56.2 |
| 04:00-05:00 HOUR | 57.3 | 68.2 | 56.2 |
| 05:00-06:00 HOUR | 57.8 | 73.3 | 56.2 |
| 06:00-07:00 HOUR | 58.9 | 78.0 | 55.9 |
| $L_{Aeq\ 24\ hours}$ | | 59.4 | |
| $L_{Adn}$ | | 64.7 | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

| TIME* | RESULT dB(A) POWER PLANT AREA OCTOBER 6-7, 2023 T23AU543-0009 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 61.8 | 78.4 | 60.0 |
| 08:00-09:00 HOUR | 60.4 | 74.7 | 59.2 |
| 09:00-10:00 HOUR | 61.2 | 79.4 | 59.7 |
| 10:00-11:00 HOUR | 62.0 | 80.1 | 60.4 |
| 11:00-12:00 HOUR | 62.0 | 88.3 | 60.2 |
| 12:00-13:00 HOUR | 61.2 | 74.5 | 60.2 |
| 13:00-14:00 HOUR | 61.0 | 81.2 | 59.5 |
| 14:00-15:00 HOUR | 60.9 | 75.6 | 59.5 |
| 15:00-16:00 HOUR | 60.2 | 78.2 | 58.8 |
| 16:00-17:00 HOUR | 57.8 | 74.0 | 55.1 |
| 17:00-18:00 HOUR | 56.4 | 71.9 | 54.8 |
| 18:00-19:00 HOUR | 57.0 | 72.9 | 55.1 |
| 19:00-20:00 HOUR | 56.6 | 71.1 | 54.8 |
| 20:00-21:00 HOUR | 56.0 | 66.8 | 54.7 |
| 21:00-22:00 HOUR | 56.7 | 71.4 | 54.4 |
| 22:00-23:00 HOUR | 55.7 | 68.5 | 54.5 |
| 23:00-00:00 HOUR | 56.4 | 71.1 | 54.3 |
| 00:00-01:00 HOUR | 55.3 | 65.3 | 54.3 |
| 01:00-02:00 HOUR | 55.5 | 70.2 | 54.6 |
| 02:00-03:00 HOUR | 55.5 | 59.7 | 54.7 |
| 03:00-04:00 HOUR | 54.7 | 60.2 | 54.0 |
| 04:00-05:00 HOUR | 55.0 | 69.8 | 53.7 |
| 05:00-06:00 HOUR | 59.1 | 78.6 | 53.5 |
| 06:00-07:00 HOUR | 56.5 | 77.2 | 53.2 |
| $L_{Aeq\ 24\ hours}$ | 58.9 | | |
| $L_{Adn}$ | 63.4 | | |


• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.


United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) POWER PLANT AREA OCTOBER 7-8, 2023 T23AU543-0010 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 59.4 | 70.5 | 59.0 |
| 08:00-09:00 HOUR | 60.2 | 76.0 | 59.2 |
| 09:00-10:00 HOUR | 60.9 | 78.9 | 59.5 |
| 10:00-11:00 HOUR | 61.8 | 77.8 | 60.2 |
| 11:00-12:00 HOUR | 61.5 | 79.1 | 60.1 |
| 12:00-13:00 HOUR | 60.9 | 68.1 | 60.1 |
| 13:00-14:00 HOUR | 60.9 | 87.4 | 55.9 |
| 14:00-15:00 HOUR | 62.7 | 84.7 | 55.2 |
| 15:00-16:00 HOUR | 60.7 | 75.3 | 55.3 |
| 16:00-17:00 HOUR | 58.5 | 78.2 | 55.3 |
| 17:00-18:00 HOUR | 57.3 | 71.5 | 55.4 |
| 18:00-19:00 HOUR | 55.9 | 67.2 | 54.3 |
| 19:00-20:00 HOUR | 55.9 | 67.7 | 54.6 |
| 20:00-21:00 HOUR | 55.9 | 68.8 | 54.6 |
| 21:00-22:00 HOUR | 55.8 | 75.3 | 54.7 |
| 22:00-23:00 HOUR | 55.7 | 66.7 | 54.8 |
| 23:00-00:00 HOUR | 54.6 | 67.7 | 53.8 |
| 00:00-01:00 HOUR | 55.1 | 63.9 | 54.3 |
| 01:00-02:00 HOUR | 55.1 | 58.8 | 54.5 |
| 02:00-03:00 HOUR | 55.3 | 59.6 | 54.5 |
| 03:00-04:00 HOUR | 55.1 | 79.3 | 54.2 |
| 04:00-05:00 HOUR | 54.7 | 72.1 | 53.7 |
| 05:00-06:00 HOUR | 54.6 | 73.3 | 53.0 |
| 06:00-07:00 HOUR | 54.8 | 70.4 | 53.2 |
| $L_{Aeq\ 24\ hours}$ | 58.6 | | |
| $L_{Adn}$ | 62.5 | | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.
• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

| TIME* | RESULT dB(A) POWER PLANT AREA OCTOBER 8-9, 2023 T23AU543-0011 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 58.0 | 67.8 | 57.5 |
| 08:00-09:00 HOUR | 59.3 | 76.9 | 57.8 |
| 09:00-10:00 HOUR | 59.4 | 76.9 | 58.0 |
| 10:00-11:00 HOUR | 59.3 | 74.6 | 58.1 |
| 11:00-12:00 HOUR | 59.7 | 70.7 | 58.6 |
| 12:00-13:00 HOUR | 57.1 | 74.5 | 54.5 |
| 13:00-14:00 HOUR | 57.7 | 82.7 | 54.5 |
| 14:00-15:00 HOUR | 57.6 | 83.3 | 54.5 |
| 15:00-16:00 HOUR | 55.5 | 73.0 | 53.5 |
| 16:00-17:00 HOUR | 54.6 | 63.2 | 53.1 |
| 17:00-18:00 HOUR | 56.1 | 74.1 | 53.7 |
| 18:00-19:00 HOUR | 55.0 | 67.4 | 53.8 |
| 19:00-20:00 HOUR | 53.7 | 69.6 | 52.5 |
| 20:00-21:00 HOUR | 55.0 | 73.0 | 53.6 |
| 21:00-22:00 HOUR | 55.0 | 74.5 | 52.8 |
| 22:00-23:00 HOUR | 53.7 | 67.9 | 52.4 |
| 23:00-00:00 HOUR | 53.4 | 68.6 | 52.3 |
| 00:00-01:00 HOUR | 53.3 | 67.7 | 52.3 |
| 01:00-02:00 HOUR | 53.4 | 58.0 | 52.7 |
| 02:00-03:00 HOUR | 54.1 | 57.3 | 53.6 |
| 03:00-04:00 HOUR | 54.1 | 72.9 | 52.9 |
| 04:00-05:00 HOUR | 56.0 | 72.8 | 52.2 |
| 05:00-06:00 HOUR | 55.6 | 72.5 | 51.0 |
| 06:00-07:00 HOUR | 59.1 | 78.1 | 58.2 |
| $L_{Aeq\ 24\ hours}$ | 56.6 | | |
| $L_{Adn}$ | 62.0 | | |


• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.


United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) POWER PLANT AREA OCTOBER 9-10, 2023 T23AU543-0012 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 59.7 | 77.1 | 57.2 |
| 08:00-09:00 HOUR | 57.8 | 77.6 | 55.9 |
| 09:00-10:00 HOUR | 57.6 | 68.5 | 55.9 |
| 10:00-11:00 HOUR | 57.7 | 67.3 | 56.3 |
| 11:00-12:00 HOUR | 58.8 | 70.8 | 58.0 |
| 12:00-13:00 HOUR | 59.0 | 76.5 | 58.1 |
| 13:00-14:00 HOUR | 58.8 | 73.1 | 57.4 |
| 14:00-15:00 HOUR | 59.1 | 76.0 | 58.4 |
| 15:00-16:00 HOUR | 59.6 | 74.8 | 58.5 |
| 16:00-17:00 HOUR | 58.9 | 75.7 | 58.7 |
| 17:00-18:00 HOUR | 55.5 | 73.3 | 53.8 |
| 18:00-19:00 HOUR | 56.3 | 85.5 | 53.4 |
| 19:00-20:00 HOUR | 55.6 | 70.0 | 53.9 |
| 20:00-21:00 HOUR | 54.8 | 77.3 | 53.1 |
| 21:00-22:00 HOUR | 55.1 | 77.2 | 52.7 |
| 22:00-23:00 HOUR | 54.7 | 68.6 | 53.2 |
| 23:00-00:00 HOUR | 55.0 | 70.5 | 53.5 |
| 00:00-01:00 HOUR | 55.9 | 67.1 | 53.7 |
| 01:00-02:00 HOUR | 56.1 | 65.6 | 55.1 |
| 02:00-03:00 HOUR | 56.2 | 65.7 | 54.4 |
| 03:00-04:00 HOUR | 55.5 | 63.6 | 54.0 |
| 04:00-05:00 HOUR | 55.4 | 68.3 | 53.5 |
| 05:00-06:00 HOUR | 58.4 | 73.4 | 54.5 |
| 06:00-07:00 HOUR | 57.6 | 75.2 | 54.4 |
| $L_{Aeq\ 24\ hours}$ | 57.4 | | |
| $L_{Adn}$ | 62.9 | | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.
• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

| TIME* | RESULT dB(A) POWER PLANT AREA OCTOBER 10-11, 2023 T23AU543-0013 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 61.8 | 78.9 | 59.0 |
| 08:00-09:00 HOUR | 61.3 | 71.5 | 59.1 |
| 09:00-10:00 HOUR | 62.9 | 83.1 | 59.3 |
| 10:00-11:00 HOUR | 62.6 | 79.9 | 59.9 |
| 11:00-12:00 HOUR | 61.1 | 75.8 | 59.2 |
| 12:00-13:00 HOUR | 60.5 | 71.9 | 58.5 |
| 13:00-14:00 HOUR | 59.7 | 74.5 | 58.0 |
| 14:00-15:00 HOUR | 60.8 | 73.5 | 59.3 |
| 15:00-16:00 HOUR | 60.5 | 77.1 | 59.2 |
| 16:00-17:00 HOUR | 58.8 | 71.9 | 57.2 |
| 17:00-18:00 HOUR | 58.0 | 70.9 | 57.0 |
| 18:00-19:00 HOUR | 58.4 | 70.8 | 56.6 |
| 19:00-20:00 HOUR | 56.8 | 71.1 | 55.2 |
| 20:00-21:00 HOUR | 57.6 | 67.8 | 56.2 |
| 21:00-22:00 HOUR | 57.5 | 68.8 | 55.3 |
| 22:00-23:00 HOUR | 56.9 | 68.8 | 55.2 |
| 23:00-00:00 HOUR | 57.2 | 67.2 | 55.3 |
| 00:00-01:00 HOUR | 56.8 | 65.1 | 55.4 |
| 01:00-02:00 HOUR | 57.5 | 64.2 | 56.5 |
| 02:00-03:00 HOUR | 55.9 | 60.9 | 55.0 |
| 03:00-04:00 HOUR | 55.3 | 64.9 | 53.7 |
| 04:00-05:00 HOUR | 55.7 | 65.8 | 54.0 |
| 05:00-06:00 HOUR | 55.4 | 64.8 | 53.8 |
| 06:00-07:00 HOUR | 56.8 | 69.9 | 54.8 |
| $L_{Aeq\ 24\ hours}$ | 59.2 | | |
| $L_{Adn}$ | 63.7 | | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) POWER PLANT AREA OCTOBER 11-12, 2023 T23AU543-0014 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 57.9 | 71.2 | 56.0 |
| 08:00-09:00 HOUR | 59.1 | 71.4 | 57.6 |
| 09:00-10:00 HOUR | 59.8 | 72.6 | 57.2 |
| 10:00-11:00 HOUR | 59.5 | 69.3 | 57.6 |
| 11:00-12:00 HOUR | 61.2 | 73.4 | 59.6 |
| 12:00-13:00 HOUR | 60.5 | 71.9 | 58.3 |
| 13:00-14:00 HOUR | 59.7 | 74.5 | 58.5 |
| 14:00-15:00 HOUR | 60.7 | 73.5 | 59.3 |
| 15:00-16:00 HOUR | 60.5 | 77.1 | 59.2 |
| 16:00-17:00 HOUR | 58.8 | 71.9 | 57.4 |
| 17:00-18:00 HOUR | 57.8 | 70.9 | 56.4 |
| 18:00-19:00 HOUR | 58.6 | 70.8 | 57.0 |
| 19:00-20:00 HOUR | 57.3 | 70.0 | 55.6 |
| 20:00-21:00 HOUR | 57.4 | 67.0 | 56.0 |
| 21:00-22:00 HOUR | 57.8 | 68.1 | 56.2 |
| 22:00-23:00 HOUR | 56.9 | 67.9 | 55.1 |
| 23:00-00:00 HOUR | 58.0 | 68.5 | 56.3 |
| 00:00-01:00 HOUR | 57.0 | 64.1 | 55.3 |
| 01:00-02:00 HOUR | 57.7 | 64.3 | 57.1 |
| 02:00-03:00 HOUR | 55.8 | 61.2 | 54.5 |
| 03:00-04:00 HOUR | 55.3 | 64.9 | 53.7 |
| 04:00-05:00 HOUR | 55.7 | 65.8 | 54.0 |
| 05:00-06:00 HOUR | 55.2 | 64.7 | 53.8 |
| 06:00-07:00 HOUR | 56.9 | 69.8 | 54.8 |
| $L_{Aeq\ 24\ hours}$ | 58.5 | | |
| $L_{Adn}$ | 63.5 | | |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT | | |
| **CUSTOMER NAME** | : BLCP POWER LIMITED | | |
| **ADDRESS** | : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150 | | |
| **CONTACT INFORMATION** | : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th | | |
| **MEASURING SOURCE** | : WAT TA KUAN | | |
| **MEASURING TYPE** | : AMBIENT (NOISE) | **RECEIVED DATE** | : OCTOBER 5-12, 2023 |
| **MEASURING DATE** | : OCTOBER 5-12, 2023 | **ANALYTICAL DATE** | : OCTOBER 5-12, 2023 |
| **MEASURING TIME** | : * | **REPORT NO.** | : 2023-U089333 |
| **MEASURING METHOD** | : INTEGRATED SOUND LEVEL METER | **WORK NO.** | : 2021-008697 |
| **MEASURED BY** | : MR AUSADAWUT YONSIRI | **ANALYSIS NO.** | : T23AU543-0001 - T23AU543-0007 |

| TIME* | RESULT dB(A) WAT TA KUAN OCTOBER 5-6, 2023 T23AU543-0001 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 56.4 | 83.3 | 46.0 |
| 08:00-09:00 HOUR | 58.2 | 91.8 | 42.3 |
| 09:00-10:00 HOUR | 50.2 | 76.4 | 41.8 |
| 10:00-11:00 HOUR | 46.7 | 67.6 | 40.2 |
| 11:00-12:00 HOUR | 47.6 | 74.2 | 39.9 |
| 12:00-13:00 HOUR | 53.0 | 88.5 | 43.0 |
| 13:00-14:00 HOUR | 49.4 | 80.2 | 42.8 |
| 14:00-15:00 HOUR | 46.1 | 63.1 | 40.7 |
| 15:00-16:00 HOUR | 61.8 | 90.2 | 41.7 |
| 16:00-17:00 HOUR | 49.7 | 76.9 | 42.7 |
| 17:00-18:00 HOUR | 58.1 | 86.4 | 40.5 |
| 18:00-19:00 HOUR | 51.7 | 75.9 | 43.0 |
| 19:00-20:00 HOUR | 55.6 | 89.1 | 44.7 |
| 20:00-21:00 HOUR | 48.0 | 82.0 | 45.5 |
| 21:00-22:00 HOUR | 47.4 | 68.0 | 44.6 |
| 22:00-23:00 HOUR | 46.7 | 60.1 | 44.9 |
| 23:00-00:00 HOUR | 49.4 | 61.8 | 44.3 |
| 00:00-01:00 HOUR | 46.5 | 67.4 | 44.1 |
| 01:00-02:00 HOUR | 47.0 | 60.4 | 44.7 |
| 02:00-03:00 HOUR | 46.0 | 60.7 | 44.1 |
| 03:00-04:00 HOUR | 44.7 | 55.6 | 42.8 |
| 04:00-05:00 HOUR | 56.5 | 92.9 | 43.5 |
| 05:00-06:00 HOUR | 50.8 | 74.1 | 43.1 |
| 06:00-07:00 HOUR | 52.9 | 82.1 | 43.5 |
| $L_{Aeq\ 24\ hours}$ | | 53.7 | |
| $L_{Adn}$ | | 58.0 | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) WAT TA KUAN OCTOBER 6-7, 2023 T23AU543-0002 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 50.4 | 68.9 | 45.3 |
| 08:00-09:00 HOUR | 59.2 | 84.7 | 44.6 |
| 09:00-10:00 HOUR | 54.0 | 87.3 | 43.8 |
| 10:00-11:00 HOUR | 49.9 | 71.4 | 45.4 |
| 11:00-12:00 HOUR | 56.1 | 85.3 | 47.8 |
| 12:00-13:00 HOUR | 51.3 | 66.2 | 48.8 |
| 13:00-14:00 HOUR | 48.8 | 69.2 | 43.4 |
| 14:00-15:00 HOUR | 50.0 | 78.9 | 43.6 |
| 15:00-16:00 HOUR | 56.3 | 84.5 | 44.9 |
| 16:00-17:00 HOUR | 53.3 | 80.7 | 45.0 |
| 17:00-18:00 HOUR | 54.1 | 86.7 | 41.5 |
| 18:00-19:00 HOUR | 48.3 | 73.9 | 42.5 |
| 19:00-20:00 HOUR | 48.7 | 84.9 | 43.1 |
| 20:00-21:00 HOUR | 46.5 | 63.4 | 43.1 |
| 21:00-22:00 HOUR | 46.6 | 65.1 | 44.3 |
| 22:00-23:00 HOUR | 46.3 | 69.4 | 44.1 |
| 23:00-00:00 HOUR | 45.4 | 59.4 | 44.0 |
| 00:00-01:00 HOUR | 46.5 | 72.7 | 43.3 |
| 01:00-02:00 HOUR | 56.0 | 83.3 | 41.8 |
| 02:00-03:00 HOUR | 60.5 | 81.8 | 41.6 |
| 03:00-04:00 HOUR | 57.3 | 82.8 | 41.1 |
| 04:00-05:00 HOUR | 62.2 | 93.0 | 39.8 |
| 05:00-06:00 HOUR | 59.4 | 85.2 | 40.8 |
| 06:00-07:00 HOUR | 65.8 | 93.1 | 42.3 |
| $L_{Aeq\ 24\ hours}$ | | 56.9 | |
| $L_{Adn}$ | | 65.7 | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

| TIME* | RESULT dB(A) WAT TA KUAN OCTOBER 7-8, 2023 T23AU543-0003 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 48.8 | 69.2 | 42.4 |
| 08:00-09:00 HOUR | 56.9 | 83.1 | 43.0 |
| 09:00-10:00 HOUR | 53.3 | 76.5 | 42.5 |
| 10:00-11:00 HOUR | 51.7 | 70.0 | 44.9 |
| 11:00-12:00 HOUR | 50.7 | 79.7 | 43.9 |
| 12:00-13:00 HOUR | 50.3 | 68.9 | 44.5 |
| 13:00-14:00 HOUR | 50.4 | 71.2 | 44.4 |
| 14:00-15:00 HOUR | 56.6 | 83.0 | 42.5 |
| 15:00-16:00 HOUR | 51.7 | 82.7 | 42.4 |
| 16:00-17:00 HOUR | 54.5 | 84.2 | 42.8 |
| 17:00-18:00 HOUR | 55.7 | 82.6 | 42.8 |
| 18:00-19:00 HOUR | 50.3 | 76.4 | 45.6 |
| 19:00-20:00 HOUR | 49.4 | 71.6 | 45.0 |
| 20:00-21:00 HOUR | 52.4 | 83.0 | 45.8 |
| 21:00-22:00 HOUR | 62.4 | 87.5 | 45.5 |
| 22:00-23:00 HOUR | 46.7 | 69.0 | 44.7 |
| 23:00-00:00 HOUR | 48.6 | 63.2 | 44.7 |
| 00:00-01:00 HOUR | 57.6 | 83.4 | 45.7 |
| 01:00-02:00 HOUR | 43.0 | 61.6 | 41.2 |
| 02:00-03:00 HOUR | 43.0 | 65.8 | 40.0 |
| 03:00-04:00 HOUR | 56.5 | 83.3 | 39.0 |
| 04:00-05:00 HOUR | 57.6 | 84.0 | 38.1 |
| 05:00-06:00 HOUR | 47.9 | 76.9 | 38.8 |
| 06:00-07:00 HOUR | 49.6 | 77.2 | 41.4 |
| $L_{Aeq\ 24\ hours}$ | 54.4 | | |
| $L_{Adn}$ | 59.9 | | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) WAT TA KUAN OCTOBER 8-9, 2023 T23AU543-0004 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 56.2 | 88.6 | 41.2 |
| 08:00-09:00 HOUR | 52.5 | 82.9 | 43.1 |
| 09:00-10:00 HOUR | 48.6 | 75.7 | 42.5 |
| 10:00-11:00 HOUR | 48.7 | 71.5 | 42.9 |
| 11:00-12:00 HOUR | 58.7 | 84.5 | 47.5 |
| 12:00-13:00 HOUR | 49.6 | 74.4 | 44.7 |
| 13:00-14:00 HOUR | 47.4 | 70.0 | 42.8 |
| 14:00-15:00 HOUR | 47.5 | 70.0 | 43.3 |
| 15:00-16:00 HOUR | 52.1 | 83.8 | 43.7 |
| 16:00-17:00 HOUR | 50.6 | 68.9 | 45.6 |
| 17:00-18:00 HOUR | 53.4 | 82.3 | 44.3 |
| 18:00-19:00 HOUR | 48.0 | 78.2 | 41.8 |
| 19:00-20:00 HOUR | 44.6 | 62.4 | 41.9 |
| 20:00-21:00 HOUR | 55.6 | 85.0 | 41.6 |
| 21:00-22:00 HOUR | 60.8 | 91.3 | 41.8 |
| 22:00-23:00 HOUR | 57.3 | 84.0 | 41.6 |
| 23:00-00:00 HOUR | 42.4 | 61.1 | 40.7 |
| 00:00-01:00 HOUR | 43.1 | 66.1 | 40.5 |
| 01:00-02:00 HOUR | 47.1 | 82.8 | 41.1 |
| 02:00-03:00 HOUR | 43.2 | 63.6 | 40.2 |
| 03:00-04:00 HOUR | 40.6 | 57.6 | 39.1 |
| 04:00-05:00 HOUR | 63.7 | 90.1 | 38.7 |
| 05:00-06:00 HOUR | 45.6 | 74.1 | 41.1 |
| 06:00-07:00 HOUR | 51.9 | 78.7 | 44.6 |
| $L_{Aeq\ 24\ hours}$ | 54.7 | | |
| $L_{Adn}$ | 61.7 | | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

| TIME* | RESULT dB(A) WAT TA KUAN OCTOBER 9-10, 2023 T23AU543-0005 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 61.0 | 84.1 | 45.2 |
| 08:00-09:00 HOUR | 55.0 | 83.8 | 42.3 |
| 09:00-10:00 HOUR | 50.6 | 77.5 | 43.9 |
| 10:00-11:00 HOUR | 48.8 | 71.9 | 41.5 |
| 11:00-12:00 HOUR | 52.9 | 86.1 | 41.4 |
| 12:00-13:00 HOUR | 49.4 | 66.8 | 43.3 |
| 13:00-14:00 HOUR | 48.5 | 77.5 | 43.0 |
| 14:00-15:00 HOUR | 49.1 | 74.5 | 42.6 |
| 15:00-16:00 HOUR | 50.3 | 74.9 | 45.4 |
| 16:00-17:00 HOUR | 52.4 | 75.5 | 42.9 |
| 17:00-18:00 HOUR | 50.7 | 78.4 | 40.1 |
| 18:00-19:00 HOUR | 61.8 | 91.2 | 40.9 |
| 19:00-20:00 HOUR | 60.3 | 87.1 | 40.9 |
| 20:00-21:00 HOUR | 45.0 | 66.2 | 41.0 |
| 21:00-22:00 HOUR | 49.4 | 80.4 | 40.5 |
| 22:00-23:00 HOUR | 57.8 | 86.1 | 40.6 |
| 23:00-00:00 HOUR | 41.6 | 74.4 | 39.7 |
| 00:00-01:00 HOUR | 59.9 | 88.9 | 38.8 |
| 01:00-02:00 HOUR | 59.7 | 97.0 | 40.9 |
| 02:00-03:00 HOUR | 59.1 | 68.2 | 51.4 |
| 03:00-04:00 HOUR | 50.4 | 81.1 | 43.4 |
| 04:00-05:00 HOUR | 46.3 | 67.5 | 39.9 |
| 05:00-06:00 HOUR | 56.1 | 89.8 | 45.5 |
| 06:00-07:00 HOUR | 51.0 | 74.2 | 45.0 |
| $L_{Aeq\ 24\ hours}$ | 55.9 | | |
| $L_{Adn}$ | 62.8 | | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) WAT TA KUAN OCTOBER 10-11, 2023 T23AU543-0006 | | |
|---|---|---|---|
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 60.2 | 90.0 | 46.0 |
| 08:00-09:00 HOUR | 61.3 | 91.7 | 44.1 |
| 09:00-10:00 HOUR | 53.7 | 88.8 | 42.5 |
| 10:00-11:00 HOUR | 54.5 | 84.1 | 45.0 |
| 11:00-12:00 HOUR | 53.3 | 73.0 | 44.4 |
| 12:00-13:00 HOUR | 49.4 | 73.2 | 44.1 |
| 13:00-14:00 HOUR | 54.8 | 75.1 | 42.9 |
| 14:00-15:00 HOUR | 57.9 | 76.7 | 40.2 |
| 15:00-16:00 HOUR | 50.7 | 82.7 | 40.7 |
| 16:00-17:00 HOUR | 52.2 | 85.2 | 41.6 |
| 17:00-18:00 HOUR | 48.5 | 75.6 | 40.7 |
| 18:00-19:00 HOUR | 48.2 | 70.1 | 43.6 |
| 19:00-20:00 HOUR | 57.7 | 88.2 | 44.4 |
| 20:00-21:00 HOUR | 50.7 | 80.3 | 45.1 |
| 21:00-22:00 HOUR | 49.0 | 76.3 | 44.2 |
| 22:00-23:00 HOUR | 45.9 | 62.0 | 44.2 |
| 23:00-00:00 HOUR | 46.0 | 55.1 | 44.0 |
| 00:00-01:00 HOUR | 47.4 | 73.3 | 42.8 |
| 01:00-02:00 HOUR | 43.3 | 64.9 | 41.4 |
| 02:00-03:00 HOUR | 47.7 | 75.2 | 40.8 |
| 03:00-04:00 HOUR | 48.6 | 78.1 | 40.6 |
| 04:00-05:00 HOUR | 58.4 | 84.5 | 40.5 |
| 05:00-06:00 HOUR | 52.8 | 76.1 | 42.4 |
| 06:00-07:00 HOUR | 51.1 | 74.0 | 43.4 |
| $L_{Aeq\ 24\ hours}$ | 54.4 | | |
| $L_{Adn}$ | 58.8 | | |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| TIME* | RESULT dB(A) | | |
|---|---|---|---|
| | WAT TA KUAN | | |
| | OCTOBER 11-12, 2023 | | |
| | T23AU543-0007 | | |
| | $L_{Aeq\ 1\ hour}$ | $L_{Amax\ 1\ hour}$ | $L_{A90\ 1\ hour}$ |
| 07:00-08:00 HOUR | 59.3 | 86.9 | 45.7 |
| 08:00-09:00 HOUR | 62.0 | 90.7 | 44.0 |
| 09:00-10:00 HOUR | 59.4 | 87.4 | 41.1 |
| 10:00-11:00 HOUR | 47.5 | 72.9 | 41.1 |
| 11:00-12:00 HOUR | 49.2 | 71.0 | 43.0 |
| 12:00-13:00 HOUR | 48.6 | 65.3 | 42.9 |
| 13:00-14:00 HOUR | 60.0 | 83.7 | 45.6 |
| 14:00-15:00 HOUR | 50.7 | 80.0 | 40.1 |
| 15:00-16:00 HOUR | 52.0 | 76.9 | 41.7 |
| 16:00-17:00 HOUR | 59.7 | 87.5 | 43.6 |
| 17:00-18:00 HOUR | 47.6 | 69.8 | 42.5 |
| 18:00-19:00 HOUR | 46.2 | 69.6 | 42.2 |
| 19:00-20:00 HOUR | 46.4 | 62.1 | 44.2 |
| 20:00-21:00 HOUR | 56.1 | 82.4 | 44.6 |
| 21:00-22:00 HOUR | 46.5 | 62.0 | 44.5 |
| 22:00-23:00 HOUR | 47.8 | 73.4 | 44.6 |
| 23:00-00:00 HOUR | 49.3 | 73.1 | 43.9 |
| 00:00-01:00 HOUR | 44.5 | 59.7 | 42.6 |
| 01:00-02:00 HOUR | 51.9 | 73.6 | 45.7 |
| 02:00-03:00 HOUR | 49.4 | 72.4 | 44.9 |
| 03:00-04:00 HOUR | 43.5 | 59.9 | 41.8 |
| 04:00-05:00 HOUR | 54.2 | 80.0 | 47.0 |
| 05:00-06:00 HOUR | 53.1 | 79.7 | 46.9 |
| 06:00-07:00 HOUR | 53.1 | 76.3 | 48.2 |
| $L_{Aeq\ 24\ hours}$ | 54.9 | | |
| $L_{Adn}$ | 58.6 | | |

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

# ภาคผนวก ณ-4

## ผลการติดตามตรวจสอบคุณภาพน้ำทิ้งหลังผ่านระบบบำบัดน้ำเสีย

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**SAMPLING SOURCE** : -
**SAMPLE TYPE** : WASTEWATER
**SAMPLING DATE** : OCTOBER 9, 2023
**SAMPLING TIME** : 14:00 HOUR
**SAMPLING METHOD** : GRAB
**SAMPLING BY** : MR ANUSART SUAYDEE
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : OCTOBER 10, 2023
**ANALYTICAL DATE** : OCTOBER 10-24, 2023
**REPORT NO.** : 2023-U090135
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU093-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | TREATED WATER STORAGE TANK T23AU093-0001 | |
| pH [a] | - | ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H+ B) | 7.8 (34.2°C) | - |
| TEMPERATURE [c] | °C | THERMOMETER AT SITE (SM: PART 2550 B) | 34.2 | - |
| DISSOLVED OXYGEN [c] | mg/L | AZIDE MODIFICATION METHOD AT SITE (SM: PART 4500-O C) | 4.1 | 0.5 |
| BIOCHEMICAL OXYGEN DEMAND [c] | mg/L | AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C) | ND | 2.0 |
| TOTAL SUSPENDED SOLIDS [c] | mg/L | TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D) | ND | 5.0 |
| TOTAL NITROGEN [c] | mg/L | NED COLOURIMETRIC, CADMIUM REDUCTION, KJELDAHL (SM: PART 4500-$NO_2^-$ B, PART 4500-$NO_3^-$ E AND PART 4500-Norg C) AND CALCULATION METHOD | 7.78 | 0.02 |
| NITRATE-NITROGEN [c] | mg/L $NO_3^-$-N | CADMIUM REDUCTION METHOD (SM: PART 4500-$NO_3^-$ E) | 5.63 | 0.02 |
| NITRITE-NITROGEN [c] | mg/L $NO_2^-$-N | NED COLOURIMETRIC METHOD (SM: PART 4500-$NO_2^-$ B) | 0.79 | 0.02 |
| TOTAL KJELDAHL NITROGEN [c] | mg/L | IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C | ND | 1.5 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | TREATED WATER STORAGE TANK T23AU093-0001 | |
| TOTAL PHOSPHORUS [c] | mg/L P | PERSULPHATE DIGESTION AND ASCORBIC ACID METHOD (SM: PART 4500-P B AND PART 4500-P E) | 0.02 | 0.01 |
| **SAMPLE CONDITION** | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/CLEAR | |
| SEDIMENT | | | BROWN | |

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 RD EDITION, 2017.
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23 RD EDITION, 2017.
ND : NON-DETECTABLE.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



2023-U090135

- End of Analysis Report -

# ภาคผนวก ณ-5

## ผลการติดตามตรวจสอบคุณภาพน้ำที่คลองระบายน้ำหล่อเย็น

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**SAMPLING SOURCE** : COOLING WATER OUTFALL CANAL
**SAMPLE TYPE** : SEAWATER
**SAMPLING DATE** : JULY 12, 2023
**SAMPLING TIME** : 1/
**SAMPLING METHOD** : GRAB
**SAMPLING BY** : MR ANUSART SUAYDEE
**ANALYZED BY** : MR KORNVIT CHIASIRISAKUL

**RECEIVED DATE** : JULY 12, 2023
**ANALYTICAL DATE** : JULY 12-26, 2023
**REPORT NO.** : 2023-U062704
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AN366-0001 - T23AN366-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT 1 11:25 HOUR 1/ T23AN366-0001 | RESULT 2 11:10 HOUR 1/ T23AN366-0002 | DETECTION LIMIT |
|---|---|---|---|---|---|
| FREE CHLORINE | mg/L $Cl_2$ | MODIFIED DPD COLOURIMETRIC METHOD (AT SITE) | ND | ND | 0.1 |
| METALS | | | | | |
| TOTAL MERCURY | µg/L Hg | COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005: 245.7) | ND | ND | 0.020 |
| CADMIUM | mg/L Cd | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | ND | 0.0001 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR/TURBID | | | COLOURLESS/CLEAR | YELLOW/CLEAR | |
| SEDIMENT | | | YELLOW | YELLOW | |

RESULT 1 : COOLING WATER OUTFALL CANAL 1
RESULT 2 : COOLING WATER OUTFALL CANAL 2
ND : NON-DETECTABLE.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**SAMPLING SOURCE** : COOLING WATER OUTFALL CANAL
**SAMPLE TYPE** : SEAWATER
**SAMPLING DATE** : OCTOBER 9, 2023
**SAMPLING TIME** : 1/
**SAMPLING METHOD** : GRAB
**SAMPLING BY** : MR ANUSART SUAYDEE
**ANALYZED BY** : MR KORNVIT CHIASIRISAKUL

**RECEIVED DATE** : OCTOBER 10, 2023
**ANALYTICAL DATE** : OCTOBER 10-20, 2023
**REPORT NO.** : 2023-U092778
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU090-0001 - T23AU090-0002

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT 1 15:40 HOUR 1/ T23AU090-0001 | RESULT 2 15:10 HOUR 1/ T23AU090-0002 | DETECTION LIMIT |
|---|---|---|---|---|---|
| FREE CHLORINE | mg/L $Cl_2$ | DPD FERROUS TITRIMETRIC METHOD (SM: PART 4500-Cl F) | ND | ND | 0.1 |
| METALS | | | | | |
| TOTAL MERCURY | µg/L Hg | COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005: 245.7) | ND | ND | 0.020 |
| CADMIUM | mg/L Cd | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | ND | 0.0001 |
| **SAMPLE CONDITION** | | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/CLEAR | YELLOW/CLEAR | |
| SEDIMENT | | | YELLOW | YELLOW | |

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
RESULT 1 : COOLING WATER OUTFALL CANAL 1
RESULT 2 : COOLING WATER OUTFALL CANAL 2
ND : NON-DETECTABLE.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

# ภาคผนวก ณ-6

## ผลการติดตามตรวจสอบอุณหภูมิของน้ำทะเล บริเวณรัศมี 500 เมตร จากจุดระบายน้ำหล่อเย็น

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO.9, I-8 ROAD, P.O. BOX 92 MAP TA PHUT INDUSTRIAL ESTATE, MUANG, RAYONG 21150.
**CONTACT INFORMATION** : TEL. 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th
**SAMPLING SOURCE** : SEAWATER TEMPERATURE MEASUREMENT AT 500 METERS-RADIUS AROUND COOLING WATER DISCHARGE POINT
**SAMPLE TYPE** : SEAWATER
**MEASURING DATE** : JULY 11, 2023
**MEASURING TIME** : [1]
**SAMPLING METHOD** : -
**MEASURED BY** : MR ANUSART SUAYDEE
**RECEIVED DATE** : -
**ANALYTICAL DATE** : -
**REPORT NO.** : 2023-U059171
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AN346-0001 - T23AN346-0015

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | | | |
|---|---|---|---|---|---|---|---|
| | | | ST-1<br>09:30 HOUR[1]<br>T23AN346-0001 | ST-2<br>09:40 HOUR[1]<br>T23AN346-0002 | ST-3<br>09:50 HOUR[1]<br>T23AN346-0003 | ST-4<br>10:00 HOUR[1]<br>T23AN346-0004 | ST-5<br>10:10 HOUR[1]<br>T23AN346-0005 |
| WATER DEPTH AT MEASUREMENT STATION | m | DEPTH METER | 8.0 | 8.0 | 9.0 | 9.5 | 10.0 |
| TEMPERATURE | °C | THERMOMETER AT SITE (SM: PART 2550 B) | 31.2 | 31.5 | 31.6 | 31.5 | 31.6 |
| **SAMPLE CONDITION** | | | | | | | |
| WATER'S COLOUR/CLEAR | | | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR |
| SEDIMENT | | | - | - | - | - | - |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | | | |
|---|---|---|---|---|---|---|---|
| | | | ST-6<br>10:20 HOUR[1]<br>T23AN346-0006 | ST-7<br>10:30 HOUR[1]<br>T23AN346-0007 | ST-8<br>10:40 HOUR[1]<br>T23AN346-0008 | ST-9<br>10:50 HOUR[1]<br>T23AN346-0009 | ST-10<br>11:00 HOUR[1]<br>T23AN346-0010 |
| WATER DEPTH AT MEASUREMENT STATION | m | DEPTH METER | 11.0 | 13.0 | 10.0 | 9.0 | 8.5 |
| TEMPERATURE | °C | THERMOMETER AT SITE (SM: PART 2550 B) | 31.9 | 31.5 | 31.7 | 31.8 | 31.7 |
| **SAMPLE CONDITION** | | | | | | | |
| WATER'S COLOUR/CLEAR | | | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR |
| SEDIMENT | | | - | - | - | - | - |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | | | |
|---|---|---|---|---|---|---|---|
| | | | ST-11<br>11:10 HOUR[1]<br>T23AN346-0011 | ST-12<br>11:20 HOUR[1]<br>T23AN346-0012 | ST-13<br>11:30 HOUR[1]<br>T23AN346-0013 | IT-1<br>09:15 HOUR[1]<br>T23AN346-0014 | SK-1<br>11:40 HOUR[1]<br>T23AN346-0015 |
| WATER DEPTH AT MEASUREMENT STATION | m | DEPTH METER | 8.0 | 7.5 | 7.0 | 7.0 | 6.0 |
| TEMPERATURE | °C | THERMOMETER AT SITE (SM: PART 2550 B) | 31.5 | 31.6 | 31.3 | 31.0 | 31.3 |
| **SAMPLE CONDITION** | | | | | | | |
| WATER'S COLOUR/CLEAR | | | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR |
| SEDIMENT | | | - | - | - | - | - |

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

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

# ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT | | |
| **CUSTOMER NAME** | : BLCP POWER LIMITED | | |
| **ADDRESS** | : NO.9, I-8 ROAD, P.O. BOX 92 MAP TA PHUT INDUSTRIAL ESTATE, MUANG, RAYONG 21150. | | |
| **CONTACT INFORMATION** | : TEL. 0 3892 5150 EXT. 5806 e-mail : jirawan_j@blcp.co.th | | |
| **SAMPLING SOURCE** | : SEAWATER TEMPERATURE MEASUREMENT AT 500 METERS-RADIUS AROUND COOLING WATER DISCHARGE POINT | | |
| **SAMPLE TYPE** | : SEAWATER | **RECEIVED DATE** | : - |
| **MEASURING DATE** | : OCTOBER 10, 2023 | **ANALYTICAL DATE** | : - |
| **MEASURING TIME** | : - | **REPORT NO.** | : 2023-U089499 |
| **SAMPLING METHOD** | : - | **WORK NO.** | : 2021-008697 |
| **MEASURED BY** | : MR ANUSART SUAYDEE | **ANALYSIS NO.** | : T23AU125-0001 - T23AU125-0015 |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | | | |
|---|---|---|---|---|---|---|---|
| | | | ST-1<br>10:20 HOUR<br>T23AU125-0001 | ST-2<br>10:28 HOUR<br>T23AU125-0002 | ST-3<br>10:36 HOUR<br>T23AU125-0003 | ST-4<br>10:52 HOUR<br>T23AU125-0004 | ST-5<br>11:00 HOUR<br>T23AU125-0005 |
| WATER DEPTH AT MEASUREMENT STATION | m | DEPTH METER | 8.0 | 8.5 | 9.0 | 9.5 | 10.0 |
| TEMPERATURE | °C | THERMOMETER AT SITE (SM: PART 2550 B) | 30.6 | 30.8 | 30.8 | 30.8 | 31.2 |
| **SAMPLE CONDITION** | | | | | | | |
| WATER'S COLOUR/CLEAR | | | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR |
| SEDIMENT | | | - | - | - | - | - |

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | | | |
|---|---|---|---|---|---|---|---|
| | | | ST-6<br>11:08 HOUR<br>T23AU125-0006 | ST-7<br>11:16 HOUR<br>T23AU125-0007 | ST-8<br>11:24 HOUR<br>T23AU125-0008 | ST-9<br>11:32 HOUR<br>T23AU125-0009 | ST-10<br>11:40 HOUR<br>T23AU125-0010 |
| WATER DEPTH AT MEASUREMENT STATION | m | DEPTH METER | 11.0 | 11.0 | 11.0 | 10.5 | 9.5 |
| TEMPERATURE | °C | THERMOMETER AT SITE (SM: PART 2550 B) | 31.3 | 30.1 | 30.1 | 30.1 | 30.5 |
| **SAMPLE CONDITION** | | | | | | | |
| WATER'S COLOUR/CLEAR | | | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR |
| SEDIMENT | | | - | - | - | - | - |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | | | | |
|---|---|---|---|---|---|---|---|
| | | | ST-11<br>11:48 HOUR<br>T23AU125-0011 | ST-12<br>11:56 HOUR<br>T23AU125-0012 | ST-13<br>12:04 HOUR<br>T23AU125-0013 | IT-1<br>09:40 HOUR<br>T23AU125-0014 | SK-1<br>12:12 HOUR<br>T23AU125-0015 |
| WATER DEPTH AT MEASUREMENT STATION | m | DEPTH METER | 10.0 | 9.0 | 5.5 | 7.5 | 7.0 |
| TEMPERATURE | °C | THERMOMETER AT SITE (SM: PART 2550 B) | 30.1 | 30.2 | 30.0 | 29.9 | 30.4 |
| **SAMPLE CONDITION** | | | | | | | |
| WATER'S COLOUR/CLEAR | | | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR | COLOURLESS/CLEAR |
| SEDIMENT | | | - | - | - | - | - |

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

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

# ภาคผนวก ณ-7

## ผลการติดตามตรวจสอบคุณภาพน้ำทะเล และนิเวศวิทยาทางทะเล

# ผลการติดตามตรวจสอบคุณภาพน้ำทะเล

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com
NSC -TISI -TIS 17025 TESTING 0207
TESTING No. 0063

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : sineenart_k@blcp.co.th
**SAMPLING SOURCE** : 200 METRES FROM BLCP INTAKE
**SAMPLE TYPE** : SEAWATER
**SAMPLING DATE** : JULY 11, 2023
**SAMPLING TIME** : 09:20 HOUR
**SAMPLING METHOD** : COMPOSITE
**SAMPLING BY** : MR ANUSART SUAYDEE
**ANALYZED BY** : MR KARNPHONG BOONPUANG
**RECEIVED DATE** : JULY 12, 2023
**ANALYTICAL DATE** : JULY 12-21, 2023
**REPORT NO.** : 2023-U062482
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AN338-0003

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | 200 METRES FROM BLCP INTAKE T23AN338-0003 | |
| pH [a] | - | ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H+ B) | 8.1 (31.0°C) | - |
| TRANSPARENCY [c] | m | SECCHI DISC | 2.0 | - |
| DISSOLVED OXYGEN [c] | mg/L | MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G) | 4.9 | 0.5 |
| SALINITY [c] | ppt | ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B) | 32.4 | 0.1 |
| SUSPENDED SOLIDS [c] | mg/L | GRAVIMETRIC METHOD (SM: PART 2540 D) | 6.1 | 1.0 |
| TOTAL DISSOLVED SOLIDS [c] | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C) | 36,195 | 25 |
| NITRATE-NITROGEN [c] | µg/L N | CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6)) | 5.15 | 0.50 |
| PHOSPHATE-PHOSPHORUS [b] | µg/L P | IN-HOUSE METHOD: UAE.TP.WAT.002 BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS STRICKLAND AND PARSON, 1972 | 4.48 | 0.50 |
| FAT, OIL AND GREASE [c] | mg/L | SOXHLET EXTRACTION METHOD (SM: PART 5520 D) | ND | 3 |
| METALS | | | | |
| CADMIUM [c] | µg/L Cd | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| CHROMIUM [c] | µg/L Cr | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| LEAD [c] | µg/L Pb | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | 0.220 | 0.100 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.
• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.


United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com
NSC -TISI -TIS 17025 TESTING 0207
TESTING No. 0063

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | 200 METRES FROM BLCP INTAKE T23AN338-0003 | |
| TOTAL MERCURY [c] | µg/L Hg | COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005: 245.7) | ND | 0.020 |
| **SAMPLE CONDITION** | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/CLEAR | |
| SEDIMENT | | | BROWN | |

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.
• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2023-U062482

- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

TESTING
No.0063

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**SAMPLING SOURCE** : 200 METRES FROM BLCP INTAKE
**SAMPLE TYPE** : SEAWATER
**SAMPLING DATE** : OCTOBER 10, 2023
**SAMPLING TIME** : 09:40 HOUR
**SAMPLING METHOD** [c] : COMPOSITE
**SAMPLING BY** [c] : MR ANUSART SUAYDEE
**ANALYZED BY** : MISS PANTIPA ANONAM

**RECEIVED DATE** : OCTOBER 10, 2023
**ANALYTICAL DATE** : OCTOBER 10-27, 2023
**REPORT NO.** : 2023-U093031
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU126-0003

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | 200 METRES FROM BLCP INTAKE T23AU126-0003 | |
| pH [c] | - | ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H+ B) | 8.0 (29.9°C) | - |
| TRANSPARENCY [c] | m | SECCHI DISC | 3.0 | - |
| DISSOLVED OXYGEN [c] | mg/L | MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G) | 4.3 | 0.5 |
| SALINITY [c] | ppt | ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B) | 32.3 | 0.1 |
| SUSPENDED SOLIDS [c] | mg/L | GRAVIMETRIC METHOD (SM: PART 2540 D) | 4.9 | 1.0 |
| TOTAL DISSOLVED SOLIDS [c] | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C) | 35,760 | 25 |
| NITRATE-NITROGEN [c] | µg/L N | CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6)) | 1.24 | 0.50 |
| PHOSPHATE-PHOSPHORUS [b] | µg/L P | IN-HOUSE METHOD: UAE.TP.WAT.002 BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS STRICKLAND AND PARSON, 1972 | 4.54 | 0.50 |
| FAT, OIL AND GREASE [c] | mg/L | SOXHLET EXTRACTION METHOD (SM: PART 5520 D) | ND | 3 |
| METALS | | | | |
| CADMIUM [c] | µg/L Cd | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| CHROMIUM [c] | µg/L Cr | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| LEAD [c] | µg/L Pb | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | 0.360 | 0.100 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

TESTING
No.0063

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | 200 METRES FROM BLCP INTAKE T23AU126-0003 | |
| TOTAL MERCURY [c] | µg/L Hg | COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005: 245.7) | ND | 0.020 |
| **SAMPLE CONDITION** | | | | |
| WATER'S COLOUR/TURBID | | | COLOURLESS/CLEAR | |
| SEDIMENT | | | YELLOW | |

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

ND : NON-DETECTABLE.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



2023-U093031

- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com
NSC -TISI -TIS 17025 TESTING 0207
TESTING No. 0063

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : sineenart_k@blcp.co.th
**SAMPLING SOURCE** : AT 500 METRES FROM BLCP'S DISCHARGED POINT
**SAMPLE TYPE** : SEAWATER
**SAMPLING DATE** : JULY 12, 2023
**SAMPLING TIME** : 08:30 HOUR
**SAMPLING METHOD** : COMPOSITE
**SAMPLING BY** : MR ANUSART SUAYDEE
**ANALYZED BY** : MR KARNPHONG BOONPUANG

**RECEIVED DATE** : JULY 12, 2023
**ANALYTICAL DATE** : JULY 12-25, 2023
**REPORT NO.** : 2023-U062703
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AN367-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | AT 500 METRES FROM BLCP'S DISCHARGED POINT T23AN367-0001 | |
| pH [a] | - | ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H+ B) | 7.9 (31.2°C) | - |
| TRANSPARENCY [c] | m | SECCHI DISC | 2.0 | - |
| SALINITY [c] | ppt | ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B) | 32.6 | 0.1 |
| DISSOLVED OXYGEN [c] | mg/L | MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G) | 5.0 | 0.5 |
| SUSPENDED SOLIDS [c] | mg/L | GRAVIMETRIC METHOD (SM: PART 2540 D) | 3.7 | 1.0 |
| TOTAL DISSOLVED SOLIDS [c] | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C) | 37,810 | 25 |
| NITRATE-NITROGEN [c] | µg/L N | CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6)) | 6.08 | 0.50 |
| PHOSPHATE-PHOSPHORUS [b] | µg/L P | IN-HOUSE METHOD: UAE.TP.WAT.002 BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS STRICKLAND AND PARSON, 1972 | 37.7 | 0.50 |
| FAT, OIL AND GREASE [c] | mg/L | SOXHLET EXTRACTION METHOD (SM: PART 5520 D) | ND | 3 |
| METALS | | | | |
| CADMIUM [c] | µg/L Cd | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| CHROMIUM [c] | µg/L Cr | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| LEAD [c] | µg/L Pb | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | 0.210 | 0.100 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.


United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com
NSC -TISI -TIS 17025 TESTING 0207
TESTING No. 0063

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | AT 500 METRES FROM BLCP'S DISCHARGED POINT T23AN367-0001 | |
| TOTAL MERCURY [c] | µg/L Hg | COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005: 245.7) | ND | 0.020 |
| **SAMPLE CONDITION** | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/CLEAR | |
| SEDIMENT | | | BROWN | |

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

ND : NON-DETECTABLE.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.


2023-U062703

- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

TESTING No.0063

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**SAMPLING SOURCE** : AT 500 METRES FROM BLCP'S DISCHARGED POINT
**SAMPLE TYPE** : SEAWATER
**SAMPLING DATE** : OCTOBER 9, 2023
**SAMPLING TIME** : 08:30 HOUR
**SAMPLING METHOD** [c] : COMPOSITE
**SAMPLING BY** [c] : MR ANUSART SUAYDEE
**ANALYZED BY** : MISS PANTIPA ANONAM
**RECEIVED DATE** : OCTOBER 10, 2023
**ANALYTICAL DATE** : OCTOBER 10-25, 2023
**REPORT NO.** : 2023-U093028
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU102-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | AT 500 METRES FROM BLCP'S DISCHARGED POINT T23AU102-0001 | |
| pH [c] | - | ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H+ B) | 7.8 (29.4°C) | - |
| TRANSPARENCY [c] | m | SECCHI DISC | 2.0 | - |
| SALINITY [c] | ppt | ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B) | 32.7 | 0.1 |
| DISSOLVED OXYGEN [c] | mg/L | MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G) | 4.8 | 0.5 |
| SUSPENDED SOLIDS [c] | mg/L | GRAVIMETRIC METHOD (SM: PART 2540 D) | 3.2 | 1.0 |
| TOTAL DISSOLVED SOLIDS [c] | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C) | 36,050 | 25 |
| NITRATE-NITROGEN [c] | µg/L N | CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6)) | 2.30 | 0.50 |
| PHOSPHATE-PHOSPHORUS [b] | µg/L P | IN-HOUSE METHOD: UAE.TP.WAT.002 BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS STRICKLAND AND PARSON, 1972 | 4.24 | 0.50 |
| FAT, OIL AND GREASE [c] | mg/L | SOXHLET EXTRACTION METHOD (SM: PART 5520 D) | ND | 3 |
| METALS | | | | |
| CADMIUM [c] | µg/L Cd | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| CHROMIUM [c] | µg/L Cr | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| LEAD [c] | µg/L Pb | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | 0.710 | 0.100 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com
TESTING No.0063

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | AT 500 METRES FROM BLCP'S DISCHARGED POINT T23AU102-0001 | |
| TOTAL MERCURY [c] | µg/L Hg | COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005: 245.7) | ND | 0.020 |
| **SAMPLE CONDITION** | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/CLEAR | |
| SEDIMENT | | | YELLOW | |

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

ND : NON-DETECTABLE.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com
NSC -TISI -TIS 17025 TESTING 0207
TESTING No. 0063

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : sineenart_k@blcp.co.th
**SAMPLING SOURCE** : IEAT PORT APPROACH CHANNEL
**SAMPLE TYPE** : SEAWATER
**SAMPLING DATE** : JULY 11, 2023
**SAMPLING TIME** : 08:50 HOUR
**SAMPLING METHOD** : COMPOSITE
**SAMPLING BY** : MR ANUSART SUAYDEE
**ANALYZED BY** : MR KARNPHONG BOONPUANG
**RECEIVED DATE** : JULY 12, 2023
**ANALYTICAL DATE** : JULY 12-21, 2023
**REPORT NO.** : 2023-U062481
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AN338-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | IEAT PORT APPROACH CHANNEL T23AN338-0001 | |
| pH [a] | - | ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H+ B) | 8.0 (31.1°C) | - |
| TRANSPARENCY [c] | m | SECCHI DISC | 3.0 | - |
| DISSOLVED OXYGEN [c] | mg/L | MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G) | 4.9 | 0.5 |
| SALINITY [c] | ppt | ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B) | 32.4 | 0.1 |
| SUSPENDED SOLIDS [c] | mg/L | GRAVIMETRIC METHOD (SM: PART 2540 D) | 5.1 | 1.0 |
| TOTAL DISSOLVED SOLIDS [c] | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C) | 35,744 | 25 |
| NITRATE-NITROGEN [c] | µg/L N | CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6)) | 5.63 | 0.50 |
| PHOSPHATE-PHOSPHORUS [b] | µg/L P | IN-HOUSE METHOD: UAE.TP.WAT.002 BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS STRICKLAND AND PARSON, 1972 | 6.75 | 0.50 |
| FAT, OIL AND GREASE [c] | mg/L | SOXHLET EXTRACTION METHOD (SM: PART 5520 D) | ND | 3 |
| METALS | | | | |
| CADMIUM [c] | µg/L Cd | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| CHROMIUM [c] | µg/L Cr | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| LEAD [c] | µg/L Pb | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | 0.460 | 0.100 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.
• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.


United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com
NSC -TISI -TIS 17025 TESTING 0207
TESTING No. 0063

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | IEAT PORT APPROACH CHANNEL T23AN338-0001 | |
| TOTAL MERCURY [c] | µg/L Hg | COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005: 245.7) | ND | 0.020 |
| **SAMPLE CONDITION** | | | | |
| WATER'S COLOUR/TURBID | | | YELLOW/CLEAR | |
| SEDIMENT | | | BROWN | |

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

ND : NON-DETECTABLE.

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.
• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2023-U062481

- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

TESTING
No.0063

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**SAMPLING SOURCE** : IEAT PORT APPROACH CHANNEL
**SAMPLE TYPE** : SEAWATER
**SAMPLING DATE** : OCTOBER 10, 2023
**SAMPLING TIME** : 09:55 HOUR
**SAMPLING METHOD** [c] : COMPOSITE
**SAMPLING BY** [c] : MR ANUSART SUAYDEE
**ANALYZED BY** : MISS PANTIPA ANONAM

**RECEIVED DATE** : OCTOBER 10, 2023
**ANALYTICAL DATE** : OCTOBER 10-27, 2023
**REPORT NO.** : 2023-U093030
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU126-0001

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | IEAT PORT APPROACH CHANNEL T23AU126-0001 | |
| pH [c] | - | ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H+ B) | 8.1 (30.3°C) | - |
| TRANSPARENCY [c] | m | SECCHI DISC | 3.0 | - |
| DISSOLVED OXYGEN [c] | mg/L | MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G) | 5.1 | 0.5 |
| SALINITY [c] | ppt | ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B) | 32.5 | 0.1 |
| SUSPENDED SOLIDS [c] | mg/L | GRAVIMETRIC METHOD (SM: PART 2540 D) | 3.3 | 1.0 |
| TOTAL DISSOLVED SOLIDS [c] | mg/L | TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C) | 37,680 | 25 |
| NITRATE-NITROGEN [c] | µg/L N | CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6)) | 1.12 | 0.50 |
| PHOSPHATE-PHOSPHORUS [b] | µg/L P | IN-HOUSE METHOD: UAE.TP.WAT.002 BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS STRICKLAND AND PARSON, 1972 | 3.78 | 0.50 |
| FAT, OIL AND GREASE [c] | mg/L | SOXHLET EXTRACTION METHOD (SM: PART 5520 D) | ND | 3 |
| METALS | | | | |
| CADMIUM [c] | µg/L Cd | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| CHROMIUM [c] | µg/L Cr | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | ND | 0.100 |
| LEAD [c] | µg/L Pb | PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12) | 0.140 | 0.100 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

TESTING
No.0063

| PARAMETER | UNIT | METHOD OF ANALYSIS | RESULT | DETECTION LIMIT |
|---|---|---|---|---|
| | | | IEAT PORT APPROACH CHANNEL T23AU126-0001 | |
| TOTAL MERCURY [c] | µg/L Hg | COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005: 245.7) | ND | 0.020 |
| **SAMPLE CONDITION** | | | | |
| WATER'S COLOUR/TURBID | | | COLOURLESS/CLEAR | |
| SEDIMENT | | | YELLOW | |

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
[c] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -

# ผลการติดตามตรวจสอบนิเวศวิทยาทางทะเล

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : sineenart_k@blcp.co.th
**SAMPLING SOURCE** : SEAWATER AROUND BLCP'S AREA
**SAMPLE TYPE** : SEAWATER
**SAMPLING DATE** : JULY 11, 2023
**SAMPLING TIME** : *
**SAMPLING METHOD** [b] : PLANKTON NET
**SAMPLING BY** [b] : MR ANUSART SUAYDEE
**ANALYZED BY** : MISS NAPAPORN PURATAKO

**RECEIVED DATE** : JULY 12, 2023
**ANALYTICAL DATE** : JULY 12-20, 2023
**REPORT NO.** : 2023-U061381
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AN338-0002, T23AN338-0004

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT | |
|---|---|---|---|
| | | SAMPLE NO. 1 08:55 HOUR * T23AN338-0002 | SAMPLE NO. 2 09:25 HOUR * T23AN338-0004 |
| Division Cyanophyta | | | |
| Class Cyanophyceae | | | |
| Family Oscillatoriaceae | | | |
| *Oscillatoria* spp. [b] | FILAMENT | 331 | 179 |
| Division Chromophyta | | | |
| Class Bacillariophyceae | | | |
| Family Thalassiosiraceae | | | |
| *Lauderia annulata* [b] | FILAMENT | 37 | 28 |
| *Skeletonema* spp. [b] | FILAMENT | 1,908 | 218 |
| *Thalassiosira* spp. [b] | CELL | 253 | 188 |
| Family Melosiraceae | | | |
| *Paralia sulcata* [b] | CELL | 53 | 85 |
| Family Leptocylindraceae | | | |
| *Corethron criophilum* [b] | CELL | 12 | 21 |
| *Leptocylindrus danicus* [b] | FILAMENT | 410 | 211 |
| Family Coscinodiscaceae | | | |
| *Coscinodiscus* spp. [b] | CELL | 28 | 41 |
| Family Asterolampraceae | | | |
| *Asteromphalus* spp. [b] | CELL | 4 | 2 |
| Family Rhizosoleniaceae | | | |
| *Dactyliosolen* spp. [b] | CELL | 21 | 16 |
| *Guinardia* spp. [b] | CELL | 619 | 353 |
| *Proboscia alata* [b] | CELL | 63 | 26 |
| *Rhizosolenia* spp. [b] | CELL | 158 | 89 |
| Family Hemiaulaceae | | | |
| *Cerataulina* spp. [b] | CELL | 8 | 12 |
| *Eucampia* spp. [b] | CELL | 33 | 90 |
| *Hemiaulus* spp. [b] | CELL | 77 | 85 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT | |
|---|---|---|---|
| | | SAMPLE NO. 1 08:55 HOUR * T23AN338-0002 | SAMPLE NO. 2 09:25 HOUR * T23AN338-0004 |
| Family Chaetocerotaceae | | | |
| *Bacteriastrum* spp. [b] | FILAMENT | 188 | 111 |
| *Chaetoceros* spp. [a] | CELL | 3,675 | 2,140 |
| Family Lithodesmaceae | | | |
| *Ditylum* spp. [b] | CELL | 21 | 16 |
| *Helicotheca tamesis* [b] | CELL | 84 | 208 |
| Family Eupodiscaceae | | | |
| *Odontella* spp. [b] | CELL | 41 | 27 |
| *Triceratium* spp. [b] | CELL | 4 | 0 |
| Family Thalassionemataceae | | | |
| *Thalassionema frauenfeldii* [b] | CELL | 0 | 56 |
| *T. nitzschioides* [b] | CELL | 2,228 | 2,087 |
| Family Lyrellaceae | | | |
| *Lyrella lyra* [b] | CELL | 9 | 0 |
| Family Naviculaceae | | | |
| *Amphora* spp. [b] | CELL | 34 | 31 |
| *Diploneis* spp. [b] | CELL | 16 | 0 |
| *Meuniera membranacea* [b] | CELL | 28 | 0 |
| *Navicula* spp. [b] | CELL | 28 | 16 |
| *Pleurosigma* spp. [b] | CELL | 159 | 153 |
| *Trachyneis* spp. [b] | CELL | 36 | 6 |
| Family Bacillariaceae | | | |
| *Bacillaria paxillifer* [b] | CELL | 80 | 110 |
| *Nitzschia* spp. [b] | CELL | 32 | 35 |
| *N. longissima* [b] | CELL | 52 | 39 |
| *Pseudo-nitzschia* spp. [b] | CELL | 147 | 53 |
| Family Surirellaceae | | | |
| *Entomoneis* spp. [b] | CELL | 48 | 39 |
| *Surirella* spp. [b] | CELL | 4 | 6 |
| Class Dictyochophyceae | | | |
| Family Dictyochophyceae | | | |
| *Dictyocha* spp. [b] | CELL | 16 | 6 |
| Class Dinophyceae | | | |
| Family Prorocentraceae | | | |
| *Prorocentrum* spp. [b] | CELL | 4 | 4 |
| Family Dinophysiaceae | | | |
| *Dinophysis* spp. [b] | CELL | 0 | 2 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



2023-U061381

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT | |
|---|---|---|---|
| | | SAMPLE NO. 1 08:55 HOUR * T23AN338-0002 | SAMPLE NO. 2 09:25 HOUR * T23AN338-0004 |
| Family Ceratiaceae | | | |
| *Ceratium* spp. [b] | CELL | 4 | 2 |
| *C. furca* [b] | CELL | 8 | 4 |
| *C. fusus* [b] | CELL | 4 | 0 |
| Family Protoperidiniaceae | | | |
| *Protoperidinium* spp. [b] | CELL | 65 | 33 |
| TOTAL ABUNDANCE (Natural Units/mL) | | 11,030 | 6,828 |
| AMOUNT OF SPECIES | | 42 | 39 |
| SAMPLE VOLUME (mL) | | 240 | 222 |
| SAMPLE CONDITION | | | |
| WATER'S COLOUR/TURBID | | COLOURLESS/CLEAR | COLOURLESS/CLEAR |
| SEDIMENT | | GREEN | GREEN |

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED
REMARK : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF 23 rd EDITION, 2017 PART 10200 F.

SAMPLE NO. 1 IEAT PORT APPROACH CHANNEL
SAMPLE NO. 2 200 m FROM BLCP INTAKE

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



2023-U061381

- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

## ANALYSIS REPORT

| | | | |
|---|---|---|---|
| **PROJECT NAME** | : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT | | |
| **CUSTOMER NAME** | : BLCP POWER LIMITED | | |
| **ADDRESS** | : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150 | | |
| **CONTACT INFORMATION** | : TEL : 0 3891 8507 e-mail : sineenart_k@blcp.co.th | | |
| **SAMPLING SOURCE** | : SEAWATER AROUND BLCP'S AREA | | |
| **SAMPLE TYPE** | : SEAWATER | **RECEIVED DATE** | : JULY 12, 2023 |
| **SAMPLING DATE** | : JULY 12, 2023 | **ANALYTICAL DATE** | : JULY 12-19, 2023 |
| **SAMPLING TIME** | : 08:35 HOUR | **REPORT NO.** | : 2023-U061388 |
| **SAMPLING METHOD** [b] | : PLANKTON NET | **WORK NO.** | : 2021-008697 |
| **SAMPLING BY** [b] | : MR ANUSART SUAYDEE | **ANALYSIS NO.** | : T23AN367-0002 |
| **ANALYZED BY** | : MISS NAPAPORN PURATAKO | | |

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT SAMPLE NO. 1 T23AN367-0002 |
|---|---|---|
| **Division Cyanophyta** | | |
| Class Cyanophyceae | | |
| Family Oscillatoriaceae | | |
| *Oscillatoria* spp. [b] | FILAMENT | 452 |
| **Division Chromophyta** | | |
| Class Bacillariophyceae | | |
| Family Thalassiosiraceae | | |
| *Lauderia annulata* [b] | FILAMENT | 64 |
| *Skeletonema* spp. [b] | FILAMENT | 352 |
| *Thalassiosira* spp. [b] | CELL | 149 |
| Family Melosiraceae | | |
| *Paralia sulcata* [b] | CELL | 40 |
| Family Leptocylindraceae | | |
| *Corethron criophilum* [b] | CELL | 64 |
| *Leptocylindrus danicus* [b] | FILAMENT | 376 |
| Family Coscinodiscaceae | | |
| *Coscinodiscus* spp. [b] | CELL | 72 |
| Family Asterolampraceae | | |
| *Asteromphalus* spp. [b] | CELL | 4 |
| Family Rhizosoleniaceae | | |
| *Dactyliosolen* spp. [b] | CELL | 52 |
| *Guinardia* spp. [b] | CELL | 561 |
| *Proboscia alata* [b] | CELL | 33 |
| *Rhizosolenia* spp. [b] | CELL | 87 |
| Family Hemiaulaceae | | |
| *Cerataulina* spp. [b] | CELL | 6 |
| *Eucampia* spp. [b] | CELL | 25 |
| *Hemiaulus* spp. [b] | CELL | 75 |
| Family Chaetocerotaceae | | |
| *Bacteriastrum* spp. [b] | FILAMENT | 350 |
| *Chaetoceros* spp. [a] | CELL | 3,952 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT SAMPLE NO. 1 T23AN367-0002 |
|---|---|---|
| Family Lithodesmaceae | | |
| *Ditylum* spp.[b] | CELL | 38 |
| *Helicotheca tamesis* [b] | CELL | 20 |
| Family Eupodiscaceae | | |
| *Odontella* spp.[b] | CELL | 41 |
| *Triceratium* spp.[b] | CELL | 4 |
| Family Thalassionemataceae | | |
| *Thalassionema frauenfeldii* [b] | CELL | 41 |
| *T. nitzschioides* [b] | CELL | 2,322 |
| Family Naviculaceae | | |
| *Amphora* spp.[b] | CELL | 17 |
| *Meuniera membranacea* [b] | CELL | 10 |
| *Navicula* spp.[b] | CELL | 11 |
| *Pleurosigma* spp.[b] | CELL | 42 |
| *Trachyneis* spp.[b] | CELL | 6 |
| Family Bacillariaceae | | |
| *Bacillaria paxillifer* [b] | CELL | 112 |
| *Nitzschia* spp.[b] | CELL | 11 |
| *N. longissima* [b] | CELL | 15 |
| *Pseudo -nitzschia* spp.[b] | CELL | 175 |
| Family Surirellaceae | | |
| *Entomoneis* spp.[b] | CELL | 16 |
| Class Dictyochophyceae | | |
| Family Dictyochophyceae | | |
| *Dictyocha* spp.[b] | CELL | 12 |
| Class Dinophyceae | | |
| Family Prorocentraceae | | |
| *Prorocentrum* spp.[b] | CELL | 11 |
| Family Dinophysiaceae | | |
| *Dinophysis* spp.[b] | CELL | 10 |
| Family Ceratiaceae | | |
| *Ceratium* spp.[b] | CELL | 2 |
| *C. furca* [b] | CELL | 31 |
| *C. fusus* [b] | CELL | 4 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.
• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.


United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com
NSC -TISI -TIS 17025
TESTING 0207

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT SAMPLE NO. 1 T23AN367-0002 |
|---|---|---|
| Family Protoperidiniaceae | | |
| *Protoperidinium* spp.[b] | CELL | 57 |
| TOTAL ABUNDANCE (Natural Units/mL) | | 9,722 |
| AMOUNT OF SPECIES | | 41 |
| SAMPLE VOLUME (mL) | | 210 |
| SAMPLE CONDITION | | |
| WATER'S COLOUR/TURBID | | COLOURLESS/CLEAR |
| SEDIMENT | | GREEN |

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

REMARK : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF 23 rd EDITION, 2017 PART 10200 F.

SAMPLE NO. 1 At 500 m FROM BLCP's DISCHARGE POINT

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.
• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.


- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**SAMPLING SOURCE** : SEAWATER AROUND BLCP'S AREA
**SAMPLE TYPE** : SEAWATER
**SAMPLING DATE** : OCTOBER 10, 2023
**SAMPLING TIME** : *
**SAMPLING METHOD** [b] : PLANKTON NET
**SAMPLING BY** [b] : MR ANUSART SUAYDEE
**ANALYZED BY** : MISS NAPAPORN PURATAKO

**RECEIVED DATE** : OCTOBER 10, 2023
**ANALYTICAL DATE** : OCTOBER 10-24, 2023
**REPORT NO.** : 2023-U091189
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU126-0002, T23AU126-0004

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT | |
|---|---|---|---|
| | | SAMPLE NO. 1 10:00 HOUR * T23AU126-0002 | SAMPLE NO. 2 09:45 HOUR * T23AU126-0004 |
| Division Cyanophyta | | | |
| Class Cyanophyceae | | | |
| Family Oscillatoriaceae | | | |
| *Oscillatoria* spp. [b] | FILAMENT | 81 | 26 |
| Division Chromophyta | | | |
| Class Bacillariophyceae | | | |
| Family Thalassiosiraceae | | | |
| *Detonula* spp. [b] | FILAMENT | 52 | 72 |
| *Lauderia annulata* [b] | FILAMENT | 421 | 326 |
| *Thalassiosira* spp. [b] | CELL | 345 | 354 |
| Family Melosiraceae | | | |
| *Paralia sulcata* [b] | CELL | 6 | 4 |
| Family Leptocylindraceae | | | |
| *Corethron criophilum* [b] | CELL | 105 | 27 |
| *Leptocylindrus danicus* [b] | FILAMENT | 22 | 21 |
| Family Coscinodiscaceae | | | |
| *Coscinodiscus* spp. [b] | CELL | 10 | 12 |
| *Palmeria hardmaniana* [b] | CELL | 2 | 2 |
| Family Asterolampraceae | | | |
| *Asteromphalus* spp. [b] | CELL | 9 | 6 |
| Family Rhizosoleniaceae | | | |
| *Dactyliosolen* spp. [b] | CELL | 21 | 14 |
| *Guinardia* spp. [b] | CELL | 229 | 275 |
| *Proboscia alata* [b] | CELL | 166 | 163 |
| *Rhizosolenia* spp. [b] | CELL | 103 | 111 |
| Family Hemiaulaceae | | | |
| *Cerataulina* spp. [b] | CELL | 15 | 0 |
| *Eucampia* spp. [b] | CELL | 23 | 0 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT | |
|---|---|---|---|
| | | SAMPLE NO. 1 10:00 HOUR * T23AU126-0002 | SAMPLE NO. 2 09:45 HOUR * T23AU126-0004 |
| *Hemiaulus* spp. [b] | CELL | 23 | 0 |
| Family Chaetocerotaceae | | | |
| *Bacteriastrum* spp. [b] | FILAMENT | 106 | 84 |
| *Chaetoceros* spp. [a] | CELL | 155,416 | 143,142 |
| Family Lithodesmaceae | | | |
| *Helicotheca tamesis* [b] | CELL | 0 | 25 |
| Family Eupodiscaceae | | | |
| *Odontella* spp. [b] | CELL | 14 | 48 |
| *Triceratium* spp. [b] | CELL | 0 | 2 |
| Family Thalassionemataceae | | | |
| *Thalassionema frauenfeldii* [b] | CELL | 17 | 40 |
| *T. nitzschioides* [b] | CELL | 19 | 143 |
| Family Naviculaceae | | | |
| *Amphora* spp. [b] | CELL | 0 | 24 |
| *Diploneis* spp. [b] | CELL | 11 | 0 |
| *Meuniera membranacea* [b] | CELL | 42 | 0 |
| *Navicula* spp. [b] | CELL | 79 | 103 |
| *Trachyneis* spp. [b] | CELL | 2 | 6 |
| Family Bacillariaceae | | | |
| *Nitzschia* spp. [b] | CELL | 13 | 0 |
| *Pseudo-nitzschia* spp. [b] | CELL | 25 | 72 |
| Class Dictyochophyceae | | | |
| Family Dictyochophyceae | | | |
| *Dictyocha* spp. [b] | CELL | 20 | 11 |
| Class Dinophyceae | | | |
| Family Prorocentraceae | | | |
| *Prorocentrum* spp. [b] | CELL | 53 | 13 |
| Family Dinophysiaceae | | | |
| *Dinophysis* spp. [b] | CELL | 0 | 6 |
| Family Noctilucaceae | | | |
| *Noctiluca* spp. [b] | CELL | 21 | 19 |
| Family Ceratiaceae | | | |
| *Ceratium* spp. [b] | CELL | 6 | 8 |
| *C. furca* [b] | CELL | 2 | 2 |
| *C. fusus* [b] | CELL | 0 | 2 |
| Family Goniodomaceae | | | |
| *Gonyaulax* spp. [b] | CELL | 0 | 10 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT | |
|---|---|---|---|
| | | SAMPLE NO. 1<br>10:00 HOUR *<br>T23AU126-0002 | SAMPLE NO. 2<br>09:45 HOUR *<br>T23AU126-0004 |
| Family Pyrophacaceae | | | |
| *Pyrophacus* spp. [b] | CELL | 2 | 0 |
| Family Peridiniaceae | | | |
| *Peridinium* spp. [b] | CELL | 25 | 18 |
| Family Protoperidiniaceae | | | |
| *Protoperidinium* spp. [b] | CELL | 13 | 59 |
| TOTAL ABUNDANCE (Natural Units/mL) | | 157,519 | 145,250 |
| AMOUNT OF SPECIES | | 36 | 35 |
| SAMPLE VOLUME (mL) | | 204 | 202 |
| SAMPLE CONDITION<br>WATER'S COLOUR/TURBID<br>SEDIMENT | | COLOURLESS/CLEAR<br>GREEN | COLOURLESS/CLEAR<br>GREEN |

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED
REMARK : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF 23 rd EDITION, 2017 PART 10200 F.

SAMPLE NO. 1 IEAT PORT APPROACH CHANNEL
SAMPLE NO. 2 200 m FROM BLCP INTAKE

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



2023-U091189

- End of Analysis Report -

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC -TISI -TIS 17025
TESTING 0207

# ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL QUALITY MONITORING DURING OPERATION PERIOD OF BLCP POWER PLANT PROJECT
**CUSTOMER NAME** : BLCP POWER LIMITED
**ADDRESS** : NO. 9, I-8 ROAD, P.O. BOX 92, MAP TA PHUT INDUSTRIAL ESTATE, MAP TA PHUT MUEANG RAYONG RAYONG 21150
**CONTACT INFORMATION** : TEL : 0 3891 8507 e-mail : environment@blcp.co.th
**SAMPLING SOURCE** : SEAWATER AROUND BLCP'S AREA
**SAMPLE TYPE** : SEAWATER
**SAMPLING DATE** : OCTOBER 9, 2023
**SAMPLING TIME** : 08:35 HOUR
**SAMPLING METHOD** [b] : PLANKTON NET
**SAMPLING BY** [b] : MR ANUSART SUAYDEE
**ANALYZED BY** : MISS NAPAPORN PURATAKO

**RECEIVED DATE** : OCTOBER 10, 2023
**ANALYTICAL DATE** : OCTOBER 10-24, 2023
**REPORT NO.** : 2023-U091162
**WORK NO.** : 2021-008697
**ANALYSIS NO.** : T23AU102-0002

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT<br>SAMPLE NO. 1<br>T23AU102-0002 |
|---|---|---|
| Division Cyanophyta | | |
| Class Cyanophyceae | | |
| Family Oscillatoriaceae | | |
| *Oscillatoria* spp. [b] | FILAMENT | 39 |
| Division Chromophyta | | |
| Class Bacillariophyceae | | |
| Family Thalassiosiraceae | | |
| *Detonula* spp. [b] | FILAMENT | 15 |
| *Lauderia annulata* [b] | FILAMENT | 47 |
| *Thalassiosira* spp. [b] | CELL | 809 |
| Family Melosiraceae | | |
| *Paralia sulcata* [b] | CELL | 36 |
| Family Leptocylindraceae | | |
| *Corethron criophilum* [b] | CELL | 42 |
| *Leptocylindrus danicus* [b] | FILAMENT | 17 |
| Family Coscinodiscaceae | | |
| *Coscinodiscus* spp. [b] | CELL | 52 |
| *Palmeria hardmaniana* [b] | CELL | 11 |
| Family Rhizosoleniaceae | | |
| *Dactyliosolen* spp. [b] | CELL | 75 |
| *Guinardia* spp. [b] | CELL | 289 |
| *Proboscia alata* [b] | CELL | 221 |
| *Rhizosolenia* spp. [b] | CELL | 83 |
| Family Hemiaulaceae | | |
| *Eucampia* spp. [b] | CELL | 64 |
| Family Chaetocerotaceae | | |
| *Bacteriastrum* spp. [b] | FILAMENT | 47 |
| *Chaetoceros* spp. [a] | CELL | 3,025 |
| Family Lithodesmaceae | | |
| *Helicotheca tamesis* [b] | CELL | 42 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT SAMPLE NO. 1 T23AU102-0002 |
|---|---|---|
| Family Thalassionemataceae | | |
| *Thalassionema frauenfeldii* [b] | CELL | 11 |
| *T. nitzschioides* [b] | CELL | 114 |
| Family Naviculaceae | | |
| *Amphora* spp.[b] | CELL | 74 |
| *Meuniera membranacea* [b] | CELL | 291 |
| *Navicula* spp.[b] | CELL | 12 |
| *Pleurosigma* spp.[b] | CELL | 40 |
| *Trachyneis* spp.[b] | CELL | 51 |
| Family Bacillariaceae | | |
| *Bacillaria paxillifer* [b] | CELL | 48 |
| *Pseudo-nitzschia* spp.[b] | CELL | 44 |
| Class Dictyochophyceae | | |
| Family Dictyochophyceae | | |
| *Dictyocha* spp.[b] | CELL | 34 |
| Class Dinophyceae | | |
| Family Prorocentraceae | | |
| *Prorocentrum* spp.[b] | CELL | 8 |
| Family Dinophysiaceae | | |
| *Dinophysis* spp.[b] | CELL | 2 |
| Family Noctilucaceae | | |
| *Noctiluca* spp.[b] | CELL | 19 |
| Family Ceratiaceae | | |
| *Ceratium* spp.[b] | CELL | 7 |
| *C. furca* [b] | CELL | 2 |
| Family Goniodomaceae | | |
| *Gonyaulax* spp.[b] | CELL | 13 |
| Family Pyrophacaceae | | |
| *Pyrophacus* spp.[b] | CELL | 2 |
| Family Peridiniaceae | | |
| *Peridinium* spp.[b] | CELL | 21 |

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com
NSC - TISI - TIS 17025
TESTING 0207

| PHYTOPLANKTON (Natural Units/mL) | COUNTING UNIT | RESULT SAMPLE NO. 1 T23AU102-0002 |
|---|---|---|
| Family Protoperidiniaceae | | |
| *Protoperidinium* spp.[b] | CELL | 23 |
| TOTAL ABUNDANCE (Natural Units/mL) | | 5,730 |
| AMOUNT OF SPECIES | | 36 |
| SAMPLE VOLUME (mL) | | 150 |
| SAMPLE CONDITION | | |
| WATER'S COLOUR/TURBID | | COLOURLESS/CLEAR |
| SEDIMENT | | GREEN |

[a] : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
[b] : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

REMARK : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF 23 rd EDITION, 2017 PART 10200 F.

SAMPLE NO. 1 AT 500 m FROM BLCP'S DISCHARGE POINT

[redacted]

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.,LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



- End of Analysis Report -