



TNP ENVIRONMENT CO.,LTD.

เลขที่ 332/173 หมู่ 3 ตำบลบางรักพัฒนา อำเภอบางบัวทอง จังหวัดนนทบุรี 11110 โทรศัพท์: 02-156-8273

E-mail: tnp.envi@gmail.com เลขประจำตัวผู้เสียภาษี 0125560008957 สำนักงานใหญ่

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604441 E 1385657 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 30 – 31 January 2025
Sampling Time : 03.37 p.m.
Received Date : 01 February 2025
Analytical Date : 01 – 07 February 2025
Report Date : 10 February 2025
Sampling Method : High-Volume Air Sampler

Item	Sample No.	Sampling Date	Result (mg/m ³)	
			Total Suspended Particulates (TSP)	Particulate Matter < 10 microns (PM-10)
1.	S68005/2	30-31/01/2025	0.0617	0.0303
Standard			≤ 0.33	≤ 0.12

Standard : Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere

Method : US.EPA.40 CFR 60, Appendix B, Appendix J/ Gravimetric Method

Remark : Model and Serial No. : TNP-F-01-TSP and TNP-F-01-PM10

Calibrator Model and Serial No. : TE-5028 and 3945

Calibrator Expire Date : Sep 27, 2025



TNP ENVIRONMENT CO.,LTD.

เลขที่ 332/173 หมู่ 3 ตำบลบางรักพัฒนา อำเภอบางบัวทอง จังหวัดนนทบุรี 11110 โทรศัพท์: 02-156-8273

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ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604436 E 1386403 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 30 – 31 January 2025
Sampling Time : 03.16 p.m.
Received Date : 01 February 2025
Analytical Date : 01 – 07 February 2025
Report Date : 10 February 2025
Sampling Method : High-Volume Air Sampler

Item	Sample No.	Sampling Date	Result (mg/m ³)	
			Total Suspended Particulates (TSP)	Particulate Matter < 10 microns (PM-10)
1.	S68005/3	30-31/01/2025	0.0429	0.0212
Standard			≤ 0.33	≤ 0.12

Standard : Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere

Method : US.EPA.40 CFR 60, Appendix B, Appendix J/ Gravimetric Method

Remark : Model and Serial No. : TNP-F-02-TSP and TNP-F-02-PM10

Calibrator Model and Serial No. : TE-5028 and 3945

Calibrator Expire Date : Sep 27, 2025

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604441 E 1385657 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

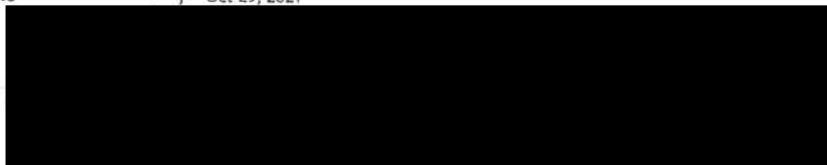
Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/2
Sample Type : Ambient Air
Sampling Date : 30 – 31 January 2025
Received Date : 01 February 2025
Analytical Date : 01 – 04 February 2025
Report Date : 05 February 2025
Measurement Method : Non-Dispersive Infrared Detection

Interval Time	Result (ppm)
	Carbon Monoxide (CO)
03.00 p.m. - 04.00 p.m.	1.1180
04.00 p.m. - 05.00 p.m.	1.0250
05.00 p.m. - 06.00 p.m.	1.0600
06.00 p.m. - 07.00 p.m.	1.0750
07.00 p.m. - 08.00 p.m.	1.0930
08.00 p.m. - 09.00 p.m.	1.0850
09.00 p.m. - 10.00 p.m.	1.0350
10.00 p.m. - 11.00 p.m.	1.0270
11.00 p.m. - 12.00 a.m.	0.9865
12.00 a.m. - 01.00 a.m.	0.9510
01.00 a.m. - 02.00 a.m.	0.9930
02.00 a.m. - 03.00 a.m.	0.9800
03.00 a.m. - 04.00 a.m.	0.9600
04.00 a.m. - 05.00 a.m.	0.9720
05.00 a.m. - 06.00 a.m.	0.9490
06.00 a.m. - 07.00 a.m.	0.9150
07.00 a.m. - 08.00 a.m.	0.9310
08.00 a.m. - 09.00 a.m.	1.0510
09.00 a.m. - 10.00 a.m.	1.0380
10.00 a.m. - 11.00 a.m.	1.0400
11.00 a.m. - 12.00 p.m.	1.0300
12.00 p.m. - 01.00 p.m.	1.0190
01.00 p.m. - 02.00 p.m.	1.1150
02.00 p.m. - 03.00 p.m.	1.1100
8 Hour Average	1.0648
1 Hour Maximum	1.1180
1 Hour Minimum	0.9150
Standard 8 Hour Averages	9
Standard 1 Hour	30

Standard : Notification of the National Environment Committee Issue 10 B.E. 2538 (1995) According to Supporting and Preserving National Environmental Quality Act, B.E. 2535 (1992), Air quality Standard in the generic atmosphere.

Remark : Model and Serial No. ; 48C and 48C-67530-357
 Calibration Gas Cylinder I.D. ; EB0129027
 Concentration (ppm) ; 4,535
 Expire Date ; Oct 29, 2027



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอกหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604436 E 1386403 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

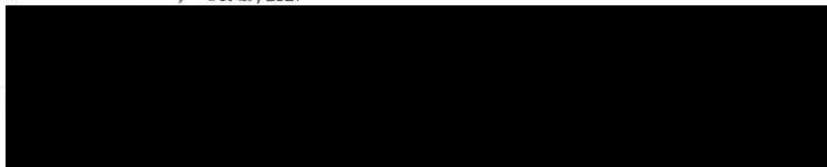
Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/3
Sample Type : Ambient Air
Sampling Date : 30 – 31 January 2025
Received Date : 01 February 2025
Analytical Date : 01 – 04 February 2025
Report Date : 05 February 2025
Measurement Method : Non-Dispersive Infrared Detection

Interval Time	Result (ppm)
	Carbon Monoxide (CO)
03.00 p.m. - 04.00 p.m.	0.8880
04.00 p.m. - 05.00 p.m.	0.8860
05.00 p.m. - 06.00 p.m.	0.9040
06.00 p.m. - 07.00 p.m.	0.8680
07.00 p.m. - 08.00 p.m.	0.8700
08.00 p.m. - 09.00 p.m.	0.8550
09.00 p.m. - 10.00 p.m.	0.8240
10.00 p.m. - 11.00 p.m.	0.8460
11.00 p.m. - 12.00 a.m.	0.8240
12.00 a.m. - 01.00 a.m.	0.8130
01.00 a.m. - 02.00 a.m.	0.7820
02.00 a.m. - 03.00 a.m.	0.8010
03.00 a.m. - 04.00 a.m.	0.7520
04.00 a.m. - 05.00 a.m.	0.7830
05.00 a.m. - 06.00 a.m.	0.9030
06.00 a.m. - 07.00 a.m.	0.9270
07.00 a.m. - 08.00 a.m.	0.9160
08.00 a.m. - 09.00 a.m.	0.9720
09.00 a.m. - 10.00 a.m.	0.9580
10.00 a.m. - 11.00 a.m.	0.9460
11.00 a.m. - 12.00 p.m.	0.9340
12.00 p.m. - 01.00 p.m.	0.9030
01.00 p.m. - 02.00 p.m.	0.8960
02.00 p.m. - 03.00 p.m.	0.8930
8 Hour Average	0.9324
1 Hour Maximum	0.9720
1 Hour Minimum	0.7520
Standard 8 Hour Averages	9
Standard 1 Hour	30

Standard : Notification of the National Environment Committee Issue 10 B.E. 2538 (1995) According to Supporting and Preserving National Environmental Quality Act, B.E. 2535 (1992), Air quality Standard in the generic atmosphere.

Remark : Model and Serial No. ; 48C and 48CHL-67713-358
Calibration Gas Cylinder I.D. ; EB0129027
Concentration (ppm) ; 4,535
Expire Date ; Oct 29, 2027



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอนครหลวง จังหวัดพระจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604441 E 1385657 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

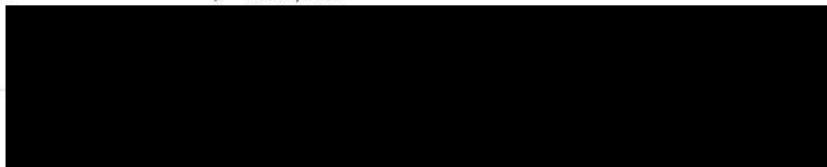
Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/2
Sample Type : Ambient Air
Sampling Date : 30 – 31 January 2025
Received Date : 01 February 2025
Analytical Date : 01 – 04 February 2025
Report Date : 05 February 2025
Measurement Method : Chemiluminescence

Interval Time	Result (ppm)
	Nitrogen Dioxide (NO ₂)
03.00 p.m. - 04.00 p.m.	0.0206
04.00 p.m. - 05.00 p.m.	0.0185
05.00 p.m. - 06.00 p.m.	0.0146
06.00 p.m. - 07.00 p.m.	0.0192
07.00 p.m. - 08.00 p.m.	0.0157
08.00 p.m. - 09.00 p.m.	0.0136
09.00 p.m. - 10.00 p.m.	0.0169
10.00 p.m. - 11.00 p.m.	0.0175
11.00 p.m. - 12.00 a.m.	0.0192
12.00 a.m. - 01.00 a.m.	0.0156
01.00 a.m. - 02.00 a.m.	0.0184
02.00 a.m. - 03.00 a.m.	0.0141
03.00 a.m. - 04.00 a.m.	0.0163
04.00 a.m. - 05.00 a.m.	0.0139
05.00 a.m. - 06.00 a.m.	0.0192
06.00 a.m. - 07.00 a.m.	0.0205
07.00 a.m. - 08.00 a.m.	0.0156
08.00 a.m. - 09.00 a.m.	0.0186
09.00 a.m. - 10.00 a.m.	0.0223
10.00 a.m. - 11.00 a.m.	0.0213
11.00 a.m. - 12.00 p.m.	0.0204
12.00 p.m. - 01.00 p.m.	0.0196
01.00 p.m. - 02.00 p.m.	0.0235
02.00 p.m. - 03.00 p.m.	0.0227
24 Hour Average	0.0182
1 Hour Maximum	0.0235
1 Hour Minimum	0.0136
Standard 1 Hour Averages	0.17

Standard : Notification of the National Environment Committee Issue 33 B.E. 2552 (2009), The Standard Level of Nitrogen dioxide in the generic atmosphere.

Remark : Model and Serial No. : 42C and 42C-59194-321
Calibration Gas Cylinder I.D. : EB0129027
Concentration (ppm) : 55.47
Expire Date : Oct 29, 2027



บริษัท ทีเอ็นพี เอ็นไวรอนเม้นท์ จำกัด



TNP ENVIRONMENT CO.,LTD.

เลขที่ 332/173 หมู่ 3 ตำบลบางรักพัฒนา อำเภอบางบัวทอง จังหวัดนนทบุรี 11110 โทรศัพท์: 02-156-8273

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ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604436 E 1386403 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

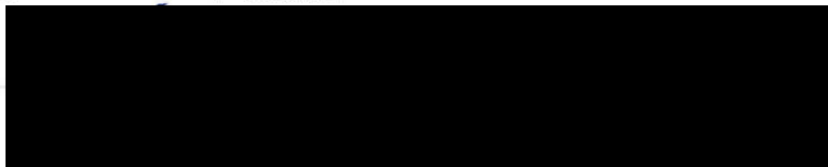
Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/3
Sample Type : Ambient Air
Sampling Date : 30 – 31 January 2025
Received Date : 01 February 2025
Analytical Date : 01 – 04 February 2025
Report Date : 05 February 2025
Measurement Method : Chemiluminescence

Interval Time	Result (ppm)
	Nitrogen Dioxide (NO ₂)
03.00 p.m. - 04.00 p.m.	0.0132
04.00 p.m. - 05.00 p.m.	0.0147
05.00 p.m. - 06.00 p.m.	0.0156
06.00 p.m. - 07.00 p.m.	0.0124
07.00 p.m. - 08.00 p.m.	0.0143
08.00 p.m. - 09.00 p.m.	0.0132
09.00 p.m. - 10.00 p.m.	0.0103
10.00 p.m. - 11.00 p.m.	0.0125
11.00 p.m. - 12.00 a.m.	0.0124
12.00 a.m. - 01.00 a.m.	0.0106
01.00 a.m. - 02.00 a.m.	0.0116
02.00 a.m. - 03.00 a.m.	0.0124
03.00 a.m. - 04.00 a.m.	0.0136
04.00 a.m. - 05.00 a.m.	0.0139
05.00 a.m. - 06.00 a.m.	0.0145
06.00 a.m. - 07.00 a.m.	0.0158
07.00 a.m. - 08.00 a.m.	0.0165
08.00 a.m. - 09.00 a.m.	0.0152
09.00 a.m. - 10.00 a.m.	0.0147
10.00 a.m. - 11.00 a.m.	0.0139
11.00 a.m. - 12.00 p.m.	0.0175
12.00 p.m. - 01.00 p.m.	0.0168
01.00 p.m. - 02.00 p.m.	0.0159
02.00 p.m. - 03.00 p.m.	0.0156
24 Hour Average	0.0140
1 Hour Maximum	0.0175
1 Hour Minimum	0.0103
Standard 1 Hour Averages	0.17

Standard : Notification of the National Environment Committee Issue 33 B.E. 2552 (2009), The Standard Level of Nitrogen dioxide in the generic atmosphere.

Remark : Model and Serial No. : 42C and 42C-70987-367
Calibration Gas Cylinder I.D. : EB0129027
Concentration (ppm) : 55.47
Expire Date : Oct 29, 2027



บริษัท ทีเอ็นพี เอ็นvironment จำกัด

ANALYSIS REPORT

Data Provided by Customer

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ตำบลหนองแก อำเภอกหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604441 E 1385657 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/2
Sample Type : Ambient Air
Sampling Date : 30 – 31 January 2025
Received Date : 01 February 2025
Analytical Date : 01 – 04 February 2025
Report Date : 05 February 2025
Measurement Method : UV Fluorescence

Interval Time	Result (ppm)
	Sulfur Dioxide (SO ₂)
03.00 p.m. - 04.00 p.m.	0.0032
04.00 p.m. - 05.00 p.m.	0.0040
05.00 p.m. - 06.00 p.m.	0.0039
06.00 p.m. - 07.00 p.m.	0.0028
07.00 p.m. - 08.00 p.m.	0.0034
08.00 p.m. - 09.00 p.m.	0.0037
09.00 p.m. - 10.00 p.m.	0.0028
10.00 p.m. - 11.00 p.m.	0.0024
11.00 p.m. - 12.00 a.m.	0.0031
12.00 a.m. - 01.00 a.m.	0.0029
01.00 a.m. - 02.00 a.m.	0.0037
02.00 a.m. - 03.00 a.m.	0.0035
03.00 a.m. - 04.00 a.m.	0.0030
04.00 a.m. - 05.00 a.m.	0.0046
05.00 a.m. - 06.00 a.m.	0.0052
06.00 a.m. - 07.00 a.m.	0.0047
07.00 a.m. - 08.00 a.m.	0.0034
08.00 a.m. - 09.00 a.m.	0.0045
09.00 a.m. - 10.00 a.m.	0.0048
10.00 a.m. - 11.00 a.m.	0.0053
11.00 a.m. - 12.00 p.m.	0.0052
12.00 p.m. - 01.00 p.m.	0.0057
01.00 p.m. - 02.00 p.m.	0.0048
02.00 p.m. - 03.00 p.m.	0.0053
24 Hour Average	0.0040
1 Hour Maximum	0.0057
1 Hour Minimum	0.0024
Standard 24 Hour Averages ^{1/}	0.12
Standard 1 Hour ^{2/}	0.30

Standard : ^{1/} Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere
: ^{2/} Notification of the National Environment Board, No.24, B.E. 2547 (2004), dated August9, B.E. 2547 (2004), which was published in the Royal Government Gazette Vol.121 Part 104D dated September 22, B.E. 2547 (2004).
Remark : Model and Serial No. ; 43C and 43C-0427408948
Calibration Gas Cylinder I.D. ; EB0129027
Concentration (ppm) ; 55.11
Expire Date ; Oct 29, 2027



TNP ENVIRONMENT CO.,LTD.

เลขที่ 332/173 หมู่ 3 ตำบลบางรักพัฒนา อำเภอบางบัวทอง จังหวัดนนทบุรี 11110 โทรศัพท์: 02-156-8273

E-mail: tnp.envi@gmail.com เลขประจำตัวผู้เสียภาษี 0125560008957 สำนักงานใหญ่

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอกว๊าน จังหวัดประจวบคีรีขันธ์
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604436 E 1386403 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

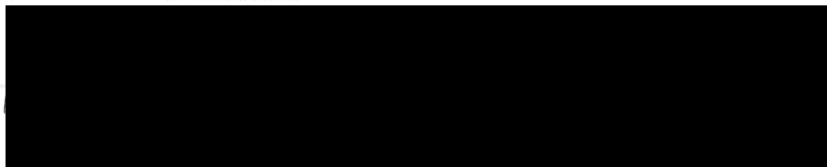
Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/3
Sample Type : Ambient Air
Sampling Date : 30 – 31 January 2025
Received Date : 01 February 2025
Analytical Date : 01 – 04 February 2025
Report Date : 05 February 2025
Measurement Method : UV Fluorescence

Interval Time	Result (ppm)
	Sulfur Dioxide (SO ₂)
03.00 p.m. - 04.00 p.m.	0.0021
04.00 p.m. - 05.00 p.m.	0.0023
05.00 p.m. - 06.00 p.m.	0.0024
06.00 p.m. - 07.00 p.m.	0.0020
07.00 p.m. - 08.00 p.m.	0.0018
08.00 p.m. - 09.00 p.m.	0.0016
09.00 p.m. - 10.00 p.m.	0.0019
10.00 p.m. - 11.00 p.m.	0.0015
11.00 p.m. - 12.00 a.m.	0.0017
12.00 a.m. - 01.00 a.m.	0.0014
01.00 a.m. - 02.00 a.m.	0.0018
02.00 a.m. - 03.00 a.m.	0.0015
03.00 a.m. - 04.00 a.m.	0.0016
04.00 a.m. - 05.00 a.m.	0.0019
05.00 a.m. - 06.00 a.m.	0.0020
06.00 a.m. - 07.00 a.m.	0.0023
07.00 a.m. - 08.00 a.m.	0.0025
08.00 a.m. - 09.00 a.m.	0.0021
09.00 a.m. - 10.00 a.m.	0.0026
10.00 a.m. - 11.00 a.m.	0.0023
11.00 a.m. - 12.00 p.m.	0.0024
12.00 p.m. - 01.00 p.m.	0.0020
01.00 p.m. - 02.00 p.m.	0.0026
02.00 p.m. - 03.00 p.m.	0.0025
24 Hour Average	0.0020
1 Hour Maximum	0.0026
1 Hour Minimum	0.0014
Standard 24 Hour Averages ^{1/}	0.12
Standard 1 Hour ^{2/}	0.30

Standard : ^{1/} Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere
: ^{2/} Notification of the National Environment Board, No.24, B.E. 2547 (2004), dated August9, B.E. 2547 (2004), which was published in the Royal Government Gazette Vol.121 Part 104D dated September 22, B.E. 2547 (2004).

Remark : Model and Serial No. ; 43C and 43C-71079-367
Calibration Gas Cylinder I.D. ; EB0129027
Concentration (ppm) ; 55.11
Expire Date ; Oct 29, 2027



ANALYSIS REPORT

Data Provided by Customer

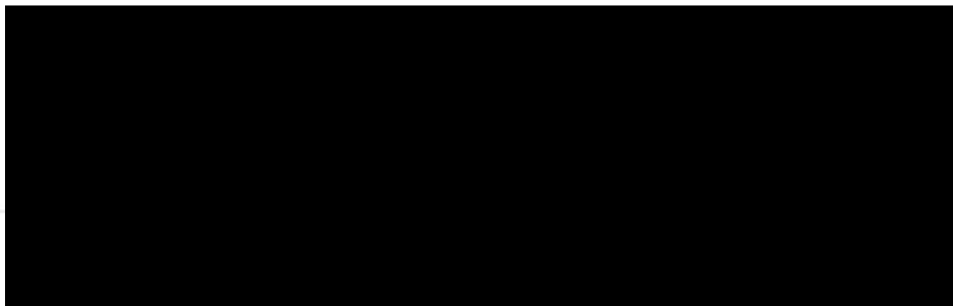
Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604441 E 1385657 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 30 January 2025
Sampling Time : 03.47 p.m.
Received Date : 01 February 2025
Analytical Date : 01 – 11 February 2025
Report Date : 12 February 2025
Sampling Method : Flame Ionization Detection

Sampling No.	Date	Result (ppm)		
		Methane	Non-Methane	Total Hydrocarbon
S68005/2	30/01/2025	0.788	1.162	1.950

Remark : Model and Serial No. ; APHA-360CE and 423740300209
Calibration Gas Cylinder I.D. ; 4860
Concentration (ppm) ; 183.0
Expire Date ; Dec 06, 2025



ANALYSIS REPORT

Data Provided by Customer

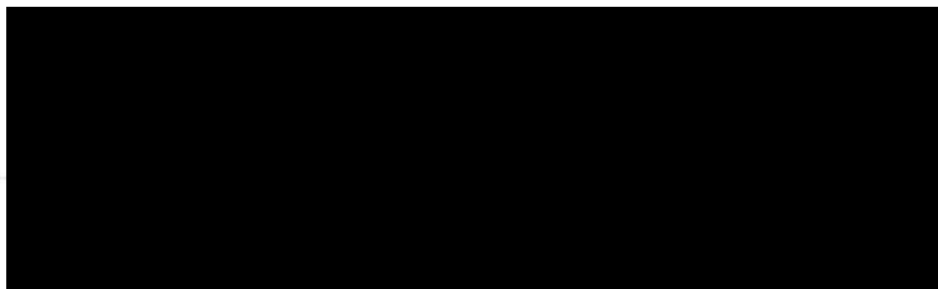
Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604436 E 1386403 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 30 January 2025
Sampling Time : 03.16 p.m.
Received Date : 01 February 2025
Analytical Date : 01 – 11 February 2025
Report Date : 12 February 2025
Sampling Method : Flame Ionization Detection

Sampling No.	Date	Result (ppm)		
		Methane	Non-Methane	Total Hydrocarbon
S68005/3	30/01/2025	0.754	1.115	1.869

Remark : Model and Serial No. ; APHA-360CE and 423740300209
Calibration Gas Cylinder I.D. ; 4860
Concentration (ppm) ; 183.0
Expire Date ; Dec 06, 2025



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอบางบัวทอง จังหวัดประจวบคีรีขันธ์
 Sampling Point : บริเวณพื้นที่โครงการ
 GPS. Coordinate : 47 P 604441 E 1385657 N
 Sampling By : TNP ENVIRONMENT CO.,LTD.

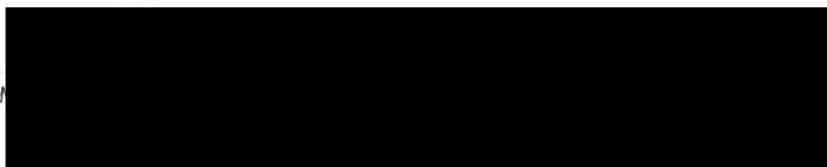
Data Provided by Laboratory

Report No. : S68005
 Sample No. : S68005/2
 Sample Type : Sound Level
 Sampling Date : 30 – 31 January 2025
 Received Date : 01 February 2025
 Analytical Date : 01 – 04 February 2025
 Report Date : 05 February 2025
 Measurement Method : Sound Level Meter

Interval Time	Result (dB(A))			
	Leq	Lmax	L10	L90
03.00 p.m. - 04.00 p.m.	60.1	95.8	63.2	58.2
04.00 p.m. - 05.00 p.m.	61.1	85.2	64.5	59.2
05.00 p.m. - 06.00 p.m.	63.6	97.0	65.9	61.4
06.00 p.m. - 07.00 p.m.	55.7	71.6	57.4	53.2
07.00 p.m. - 08.00 p.m.	55.4	74.0	57.3	53.1
08.00 p.m. - 09.00 p.m.	56.0	78.5	57.6	54.1
09.00 p.m. - 10.00 p.m.	54.6	79.6	56.4	52.8
10.00 p.m. - 11.00 p.m.	54.4	81.3	56.3	52.9
11.00 p.m. - 12.00 a.m.	55.5	82.1	57.4	53.7
12.00 a.m. - 01.00 a.m.	51.7	76.0	53.7	49.5
01.00 a.m. - 02.00 a.m.	50.6	73.6	52.4	47.5
02.00 a.m. - 03.00 a.m.	50.4	73.7	52.8	48.2
03.00 a.m. - 04.00 a.m.	48.6	63.4	51.4	46.1
04.00 a.m. - 05.00 a.m.	55.5	82.0	57.9	53.2
05.00 a.m. - 06.00 a.m.	52.4	66.1	55.1	50.1
06.00 a.m. - 07.00 a.m.	60.7	92.3	63.2	57.4
07.00 a.m. - 08.00 a.m.	59.4	81.6	60.5	57.6
08.00 a.m. - 09.00 a.m.	57.3	76.6	59.2	55.1
09.00 a.m. - 10.00 a.m.	58.3	87.4	59.3	56.2
10.00 a.m. - 11.00 a.m.	56.6	80.5	58.6	54.1
11.00 a.m. - 12.00 p.m.	57.8	77.7	59.6	55.2
12.00 p.m. - 01.00 p.m.	56.0	69.9	58.2	54.2
01.00 p.m. - 02.00 p.m.	59.2	74.6	61.4	57.2
02.00 p.m. - 03.00 p.m.	57.7	74.1	59.8	54.0
24 Hours Average	57.6	-	63.2	48.6
Lmax	-	97.0	-	-
Standard	≤70	≤115	-	-
Ldn	64.3	-	-	-

Standard : Notification of the National Environment Board, No.15, B.E. 2540 (1997), dated March 12, B.E. 2540 (1997), which was published in the Royal Government Gazette, Vol.114, Part 27D dated April 3, B.E. 2540 (1997).

Remark : SLM Model and Serial No. ; ST-25D and 10340945
 Calibrator Model and Serial No. ; KSM-42C and S/N 160100568
 Calibrator Expire Date ; Aug 26, 2025



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอนครหลวง จังหวัดพระนครศรีอยุธยา
 Sampling Point : บ้านน้ำปูน รีสอร์ท
 GPS. Coordinate : 47 P 604433 E 1386406 N
 Sampling By : TNP ENVIRONMENT CO.,LTD.

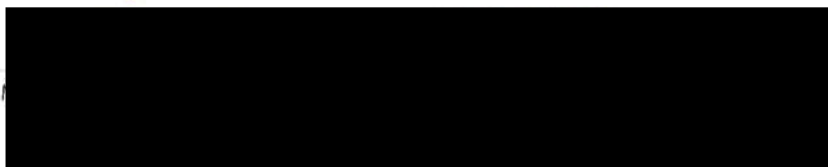
Data Provided by Laboratory

Report No. : S68005
 Sample No. : S68005/3
 Sample Type : Sound Level
 Sampling Date : 30 – 31 January 2025
 Received Date : 01 February 2025
 Analytical Date : 01 – 04 February 2025
 Report Date : 05 February 2025
 Measurement Method : Sound Level Meter

Interval Time	Result (dB(A))			
	Leq	Lmax	L10	L90
03.00 p.m. - 04.00 p.m.	67.5	83.8	69.1	65.1
04.00 p.m. - 05.00 p.m.	64.4	82.5	67.6	62.8
05.00 p.m. - 06.00 p.m.	64.9	85.9	68.0	62.4
06.00 p.m. - 07.00 p.m.	63.4	80.5	65.2	61.4
07.00 p.m. - 08.00 p.m.	57.0	75.7	59.1	55.2
08.00 p.m. - 09.00 p.m.	61.7	74.9	63.4	59.8
09.00 p.m. - 10.00 p.m.	63.3	80.1	65.2	61.8
10.00 p.m. - 11.00 p.m.	63.9	77.2	65.7	61.8
11.00 p.m. - 12.00 a.m.	62.3	78.9	64.8	60.2
12.00 a.m. - 01.00 a.m.	64.4	77.1	66.2	62.4
01.00 a.m. - 02.00 a.m.	59.0	80.8	61.4	56.4
02.00 a.m. - 03.00 a.m.	60.4	80.7	62.5	57.4
03.00 a.m. - 04.00 a.m.	59.7	82.3	63.2	56.2
04.00 a.m. - 05.00 a.m.	58.5	82.7	60.8	56.2
05.00 a.m. - 06.00 a.m.	58.1	78.6	60.4	54.4
06.00 a.m. - 07.00 a.m.	57.9	80.1	60.2	54.6
07.00 a.m. - 08.00 a.m.	66.1	83.2	68.5	64.2
08.00 a.m. - 09.00 a.m.	64.8	82.4	66.9	62.0
09.00 a.m. - 10.00 a.m.	63.7	85.3	65.1	61.2
10.00 a.m. - 11.00 a.m.	66.3	87.4	68.2	64.9
11.00 a.m. - 12.00 p.m.	67.8	84.9	71.4	65.2
12.00 p.m. - 01.00 p.m.	62.1	81.1	65.4	59.9
01.00 p.m. - 02.00 p.m.	64.7	80.8	67.2	62.7
02.00 p.m. - 03.00 p.m.	65.5	86.7	68.0	63.2
24 Hours Average	63.8	-	68.4	55.5
Lmax	-	87.4	-	-
Standard	≤70	≤115	-	-
Ldn	69.3	-	-	-

Standard : Notification of the National Environment Board, No.15, B.E. 2540 (1997), dated March 12, B.E. 2540 (1997), which was published in the Royal Government Gazette, Vol.114, Part 27D dated April 3, B.E. 2540 (1997).

Remark : SLM Model and Serial No. ; ST-25D and 10340943
 Calibrator Model and Serial No. ; KSM-42C and S/N 160100568
 Calibrator Expire Date ; Aug 26, 2025



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604441 E 1385657 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Annoyance Level
Sampling Date : 30 – 31 January 2025
Received Date : 01 February 2025
Analytical Date : 01 – 04 February 2025
Report Date : 05 February 2025
Measurement Method : Sound Level Meter

Sample No.	Sampling Date	Specific Noise Level : L_{eq}	Residual Noise Level : L_{eq}	Background Noise Level : L_{90}	The Values of Annoyance Level	Standard
S68005/2	30-31/01/2025	63.6 ^{1/}	55.4 ^{2/}	53.1 ^{2/}	9.8	10.0

Standard : Notification of the National Environment Board, No.29, B.E. 2550 (2007), dated June 29, B.E. 2550 (2007), which was published in the Royal Government Gazette, Vol.124, Part 98D dated August, B.E. 2550 (2007).

Remark : Unit of Measurement is dB(A)

Specific Noise Level

^{1/} Measurement on 05.00 p.m. - 06.00 p.m., 30 January 2025

; Residual Noise Level

^{2/} Measurement on 12.45 p.m. - 12.50 p.m., 31 January 2025

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
 Sampling Point : บ้านน้ำปูน รีสอร์ท
 GPS. Coordinate : 47 P 604433 E 1386406 N
 Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
 Sample Type : Annoyance Level
 Sampling Date : 30 – 31 January 2025
 Received Date : 01 February 2025
 Analytical Date : 01 – 04 February 2025
 Report Date : 05 February 2025
 Measurement Method : Sound Level Meter

Sample No.	Sampling Date	Specific Noise Level : L_{eq}	Residual Noise Level : L_{eq}	Background Noise Level : L_{90}	The Values of Annoyance Level	Standard
S68005/3	30-31/01/2025	67.8 ^{1/}	61.9 ^{2/}	59.4 ^{2/}	7.1	10.0

Standard : Notification of the National Environment Board, No.29, B.E. 2550 (2007), dated June 29, B.E. 2550 (2007), which was published in the Royal Government Gazette, Vol.124, Part 98D dated August, B.E. 2550 (2007).

Remark : Unit of Measurement is dB(A)

Specific Noise Level

^{1/} Measurement on 11.00 a.m. – 12.00 a.m., 31 January 2025

; Residual Noise Level

^{2/} Measurement on 12.30 p.m. – 12.35 p.m., 31 January 2025



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604441 E 1385657 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

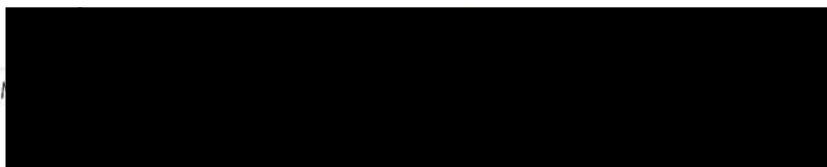
Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/2
Sample Type : Vibration
Sampling Date : 30 – 31 January 2025
Received Date : 01 February 2025
Analytical Date : 01 – 04 February 2025
Report Date : 05 February 2025
Measurement Method : Vibration Meter

Interval Time	Transverse		Vertical		Longitudinal		Standard	
	PPV (mm/s)	f (Hz)	PPV (mm/s)	f (Hz)	PPV (mm/s)	f (Hz)	f (Hz)	PPV (mm/s)
03.00 p.m. - 04.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
04.00 p.m. - 05.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
05.00 p.m. - 06.00 p.m.	0.252	11.0	0.749	15.0	0.189	11.0	10 < f ≤ 50	6.250
06.00 p.m. - 07.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
07.00 p.m. - 08.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
08.00 p.m. - 09.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
09.00 p.m. - 10.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
10.00 p.m. - 11.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
11.00 p.m. - 12.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
12.00 a.m. - 01.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
01.00 a.m. - 02.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
02.00 a.m. - 03.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
03.00 a.m. - 04.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
04.00 a.m. - 05.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
05.00 a.m. - 06.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
06.00 a.m. - 07.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
07.00 a.m. - 08.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
08.00 a.m. - 09.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
09.00 a.m. - 10.00 a.m.	0.071	>100	0.347	85.0	0.615	85.0	50 < f ≤ 100	18.500
10.00 a.m. - 11.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
11.00 a.m. - 12.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
12.00 p.m. - 01.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
01.00 p.m. - 02.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
02.00 p.m. - 03.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
24 Hour Maximum	-	-	0.749	15.0	-	-	10 < f ≤ 50	6.250

Standard : Notification of National Environmental Board No. 37 B.E. 2553 (2010), Under the Enhancement and Conservation of National Environmental Quality Act B.E. 2535 (1992) published in the Royal Government Gazette No. 127 Special Part 69 4, dated June 2 B.E. 2553 (2010)

Remark : N/A = Not Applicable (Frequency < 1.0 Hz, Velocity < 0.127 mm/sec),
PPV = Peak Particle Velocity, f = Frequency, mm/sec = millimeter/second, Hz = Hertz





TNP ENVIRONMENT CO.,LTD.

เลขที่ 332/173 หมู่ 3 ตำบลบางรักพัฒนา อำเภอบางบัวทอง จังหวัดนนทบุรี 11110 โทรศัพท์: 02-156-8273

E-mail: tnp.envi@gmail.com เลขประจำตัวผู้เสียภาษี 0125560008957 สำนักงานใหญ่



NSC-TISI-TIS 17025
Testing 1679

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604405 E 1385650 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/1
Sample Type : Waste Water
Sampling Date : 31 January 2025
Sampling Time : 10.06 a.m.
Received Date : 01 February 2025
Analytical Date : 01 – 26 February 2025
Report Date : 27 February 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 25°C	-	Electrometric Method (4500-H ⁺ B)	7.8	5.5-9.0
Total Dissolved Solids	mg/L	Dried at 180°C (2540 C)	135	≤ 1,000
Total Suspended Solids	mg/L	Dried at 103-105°C (2540 D)	< 5.0	≤ 40
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	< 2.0	≤ 30
Settleable Solids	mL/L	Imhoff Cone (2540 F)	< 0.1	-
Sulfide	mg/L	Iodometric Method (4500-S ²⁻ F)	< 0.60	≤ 1.0
Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	< 2.0	≤ 20
Total Kjeldahl Nitrogen ^{2/}	mg/L	Based on Standard Methods for Examination of Water and Wastewater, APHA, AWWA, WEF, 24 th edition, 2023, part 4500-Norg B and part 4500-NH ₃ C.	< 1.00	≤ 35
Total Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	> 1,600	-
Fecal Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E)	> 1,600	-
Sample Appearance		Clear/Little Sediment/Odorless		

Standard : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type B.

Remark ^{1/} Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24th edition 2023.

^{2/} Analyzed by SGS (Thailand) Limited, Environmental Laboratory (Rayong Branch) registration number Wo-197.



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604438 E 1385657 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 22 – 23 February 2025
Sampling Time : 10.11 a.m.
Received Date : 24 February 2025
Analytical Date : 24 February – 10 March 2025
Report Date : 11 March 2025
Sampling Method : High-Volume Air Sampler

Item	Sample No.	Sampling Date	Result (mg/m ³)	
			Total Suspended Particulates (TSP)	Particulate Matter < 10 microns (PM-10)
1.	S68005/2	22-23/02/2025	0.0527	0.0261
Standard			≤ 0.33	≤ 0.12

Standard : Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere
Method : US.EPA.40 CFR 60, Appendix B, Appendix J/ Gravimetric Method
Remark : Model and Serial No. ; TNP-F-01-TSP and TNP-F-01-PM10
Calibrator Model and Serial No. ; TE-5028 and 3945
Calibrator Expire Date ; Sep 27, 2025

[Redacted Signature Area]

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604439 E 1386412 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 22 – 23 February 2025
Sampling Time : 11.04 a.m.
Received Date : 24 February 2025
Analytical Date : 24 February – 10 March 2025
Report Date : 11 March 2025
Sampling Method : High-Volume Air Sampler

Item	Sample No.	Sampling Date	Result (mg/m ³)	
			Total Suspended Particulates (TSP)	Particulate Matter < 10 microns (PM-10)
1.	S68005/3	22-23/02/2025	0.0328	0.0162
Standard			≤ 0.33	≤ 0.12

Standard : Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere

Method : US.EPA.40 CFR 60, Appendix B, Appendix J/ Gravimetric Method

Remark : Model and Serial No. ; TNP-F-02-TSP and TNP-F-02-PM10

Calibrator Model and Serial No. ; TE-5028 and 3945

Calibrator Expire Date ; Sep 27, 2025

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
 Sampling Point : บริเวณพื้นที่โครงการ
 GPS. Coordinate : 47 P 604438 E 1385657 N
 Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
 Sample No. : S68005/2
 Sample Type : Ambient Air
 Sampling Date : 22 – 23 February 2025
 Received Date : 24 February 2025
 Analytical Date : 24 – 26 February 2025
 Report Date : 27 February 2025
 Measurement Method : Non-Dispersive Infrared Detection

Interval Time	Result (ppm)
	Carbon Monoxide (CO)
10.00 a.m. - 11.00 a.m.	1.0964
11.00 a.m. - 12.00 p.m.	1.1468
12.00 p.m. - 01.00 p.m.	1.1549
01.00 p.m. - 02.00 p.m.	1.2056
02.00 p.m. - 03.00 p.m.	1.1036
03.00 p.m. - 04.00 p.m.	0.9863
04.00 p.m. - 05.00 p.m.	0.9456
05.00 p.m. - 06.00 p.m.	0.9561
06.00 p.m. - 07.00 p.m.	0.8563
07.00 p.m. - 08.00 p.m.	0.8125
08.00 p.m. - 09.00 p.m.	0.7964
09.00 p.m. - 10.00 p.m.	0.8546
10.00 p.m. - 11.00 p.m.	0.9562
11.00 p.m. - 12.00 a.m.	0.7562
12.00 a.m. - 01.00 a.m.	0.8493
01.00 a.m. - 02.00 a.m.	0.8162
02.00 a.m. - 03.00 a.m.	0.8263
03.00 a.m. - 04.00 a.m.	0.7496
04.00 a.m. - 05.00 a.m.	0.9632
05.00 a.m. - 06.00 a.m.	0.9506
06.00 a.m. - 07.00 a.m.	0.9152
07.00 a.m. - 08.00 a.m.	0.8241
08.00 a.m. - 09.00 a.m.	0.9634
09.00 a.m. - 10.00 a.m.	1.2548
8 Hour Average	1.0744
1 Hour Maximum	1.2548
1 Hour Minimum	0.7496
Standard 8 Hour Averages	9
Standard 1 Hour	30

Standard : Notification of the National Environment Committee Issue 10 B.E. 2538 (1995) According to Supporting and Preserving National Environmental Quality Act, B.E. 2535 (1992), Air quality Standard in the generic atmosphere.

Remark : Model and Serial No. ; 48C and 48C-67530-357
 Calibration Gas Cylinder I.D. ; EB0129027
 Concentration (ppm) ; 4,535
 Expire Date ; Oct 29, 2027

บริษัท ทีเอ็นพี อีโคโนมิกส์ จำกัด

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604439 E 1386412 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/3
Sample Type : Ambient Air
Sampling Date : 22 – 23 February 2025
Received Date : 24 February 2025
Analytical Date : 24 – 26 February 2025
Report Date : 27 February 2025
Measurement Method : Non-Dispersive Infrared Detection

Interval Time	Result (ppm)
	Carbon Monoxide (CO)
11.00 a.m. - 12.00 p.m.	0.9654
12.00 p.m. - 01.00 p.m.	0.9863
01.00 p.m. - 02.00 p.m.	0.8651
02.00 p.m. - 03.00 p.m.	0.9635
03.00 p.m. - 04.00 p.m.	0.8563
04.00 p.m. - 05.00 p.m.	0.7465
05.00 p.m. - 06.00 p.m.	0.5693
06.00 p.m. - 07.00 p.m.	0.6514
07.00 p.m. - 08.00 p.m.	0.7159
08.00 p.m. - 09.00 p.m.	0.7560
09.00 p.m. - 10.00 p.m.	0.7284
10.00 p.m. - 11.00 p.m.	0.6452
11.00 p.m. - 12.00 a.m.	0.8463
12.00 a.m. - 01.00 a.m.	0.7965
01.00 a.m. - 02.00 a.m.	0.9165
02.00 a.m. - 03.00 a.m.	0.8463
03.00 a.m. - 04.00 a.m.	0.7195
04.00 a.m. - 05.00 a.m.	0.7265
05.00 a.m. - 06.00 a.m.	0.8432
06.00 a.m. - 07.00 a.m.	0.6425
07.00 a.m. - 08.00 a.m.	0.8419
08.00 a.m. - 09.00 a.m.	0.8463
09.00 a.m. - 10.00 a.m.	0.9562
10.00 a.m. - 11.00 a.m.	0.9486
8 Hour Average	0.8255
1 Hour Maximum	0.9863
1 Hour Minimum	0.5693
Standard 8 Hour Averages	9
Standard 1 Hour	30

Standard : Notification of the National Environment Committee Issue 10 B.E. 2538 (1995) According to Supporting and Preserving National Environmental Quality Act, B.E. 2535 (1992), Air quality Standard in the generic atmosphere.

Remark : Model and Serial No. : 48C and 48CHL-67713-358
Calibration Gas Cylinder I.D. : EB0129027
Concentration (ppm) : 4,535
Expire Date : Oct 29, 2027

บริษัท ทีเอ็นพี เอ็นvironment จำกัด

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604438 E 1385657 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/2
Sample Type : Ambient Air
Sampling Date : 22 – 23 February 2025
Received Date : 24 February 2025
Analytical Date : 24 – 26 February 2025
Report Date : 27 February 2025
Measurement Method : Chemiluminescence

Interval Time	Result (ppm)
	Nitrogen Dioxide (NO ₂)
10.00 a.m. - 11.00 a.m.	0.0196
11.00 a.m. - 12.00 p.m.	0.0187
12.00 p.m. - 01.00 p.m.	0.0209
01.00 p.m. - 02.00 p.m.	0.0156
02.00 p.m. - 03.00 p.m.	0.0198
03.00 p.m. - 04.00 p.m.	0.0187
04.00 p.m. - 05.00 p.m.	0.0165
05.00 p.m. - 06.00 p.m.	0.0152
06.00 p.m. - 07.00 p.m.	0.0135
07.00 p.m. - 08.00 p.m.	0.0124
08.00 p.m. - 09.00 p.m.	0.0146
09.00 p.m. - 10.00 p.m.	0.0163
10.00 p.m. - 11.00 p.m.	0.0135
11.00 p.m. - 12.00 a.m.	0.0157
12.00 a.m. - 01.00 a.m.	0.0120
01.00 a.m. - 02.00 a.m.	0.0136
02.00 a.m. - 03.00 a.m.	0.0129
03.00 a.m. - 04.00 a.m.	0.0140
04.00 a.m. - 05.00 a.m.	0.0156
05.00 a.m. - 06.00 a.m.	0.0169
06.00 a.m. - 07.00 a.m.	0.0138
07.00 a.m. - 08.00 a.m.	0.0165
08.00 a.m. - 09.00 a.m.	0.0197
09.00 a.m. - 10.00 a.m.	0.0204
24 Hour Average	0.0161
1 Hour Maximum	0.0209
1 Hour Minimum	0.0120
Standard 1 Hour Averages	0.17

Standard : Notification of the National Environment Committee Issue 33 B.E. 2552 (2009), The Standard Level of Nitrogen dioxide in the generic atmosphere.

Remark : Model and Serial No. : 42C and 42C-59194-321
Calibration Gas Cylinder I.D. : EB0129027
Concentration (ppm) : 55.47
Expire Date : Oct 29, 2027

บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604439 E 1386412 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/3
Sample Type : Ambient Air
Sampling Date : 22 – 23 February 2025
Received Date : 24 February 2025
Analytical Date : 24 – 26 February 2025
Report Date : 27 February 2025
Measurement Method : Chemiluminescence

Interval Time	Result (ppm)
	Nitrogen Dioxide (NO ₂)
11.00 a.m. - 12.00 p.m.	0.0149
12.00 p.m. - 01.00 p.m.	0.0145
01.00 p.m. - 02.00 p.m.	0.0139
02.00 p.m. - 03.00 p.m.	0.0136
03.00 p.m. - 04.00 p.m.	0.0148
04.00 p.m. - 05.00 p.m.	0.0136
05.00 p.m. - 06.00 p.m.	0.0152
06.00 p.m. - 07.00 p.m.	0.0145
07.00 p.m. - 08.00 p.m.	0.0120
08.00 p.m. - 09.00 p.m.	0.0136
09.00 p.m. - 10.00 p.m.	0.0115
10.00 p.m. - 11.00 p.m.	0.0119
11.00 p.m. - 12.00 a.m.	0.0105
12.00 a.m. - 01.00 a.m.	0.0121
01.00 a.m. - 02.00 a.m.	0.0118
02.00 a.m. - 03.00 a.m.	0.0120
03.00 a.m. - 04.00 a.m.	0.0117
04.00 a.m. - 05.00 a.m.	0.0114
05.00 a.m. - 06.00 a.m.	0.0126
06.00 a.m. - 07.00 a.m.	0.0108
07.00 a.m. - 08.00 a.m.	0.0129
08.00 a.m. - 09.00 a.m.	0.0108
09.00 a.m. - 10.00 a.m.	0.0116
10.00 a.m. - 11.00 a.m.	0.0135
24 Hour Average	0.0127
1 Hour Maximum	0.0152
1 Hour Minimum	0.0105
Standard 1 Hour Averages	0.17

Standard : Notification of the National Environment Committee Issue 33 B.E. 2552 (2009), The Standard Level of Nitrogen dioxide in the generic atmosphere.

Remark : Model and Serial No. : 42C and 42C-70987-367
Calibration Gas Cylinder I.D. : EB0129027
Concentration (ppm) : 55.47
Expire Date : Oct 29, 2027



บริษัท ทีเอ็นพี เอ็นvironment จำกัด

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอยะหริ่ง จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604438 E 1385657 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/2
Sample Type : Ambient Air
Sampling Date : 22 – 23 February 2025
Received Date : 24 February 2025
Analytical Date : 24 – 26 February 2025
Report Date : 27 February 2025
Measurement Method : UV Fluorescence

Interval Time	Result (ppm)
	Sulfur Dioxide (SO ₂)
10.00 a.m. - 11.00 a.m.	0.0036
11.00 a.m. - 12.00 p.m.	0.0048
12.00 p.m. - 01.00 p.m.	0.0059
01.00 p.m. - 02.00 p.m.	0.0067
02.00 p.m. - 03.00 p.m.	0.0053
03.00 p.m. - 04.00 p.m.	0.0056
04.00 p.m. - 05.00 p.m.	0.0063
05.00 p.m. - 06.00 p.m.	0.0042
06.00 p.m. - 07.00 p.m.	0.0031
07.00 p.m. - 08.00 p.m.	0.0033
08.00 p.m. - 09.00 p.m.	0.0036
09.00 p.m. - 10.00 p.m.	0.0058
10.00 p.m. - 11.00 p.m.	0.0046
11.00 p.m. - 12.00 a.m.	0.0042
12.00 a.m. - 01.00 a.m.	0.0031
01.00 a.m. - 02.00 a.m.	0.0025
02.00 a.m. - 03.00 a.m.	0.0046
03.00 a.m. - 04.00 a.m.	0.0039
04.00 a.m. - 05.00 a.m.	0.0031
05.00 a.m. - 06.00 a.m.	0.0026
06.00 a.m. - 07.00 a.m.	0.0064
07.00 a.m. - 08.00 a.m.	0.0059
08.00 a.m. - 09.00 a.m.	0.0035
09.00 a.m. - 10.00 a.m.	0.0023
24 Hour Average	0.0044
1 Hour Maximum	0.0067
1 Hour Minimum	0.0023
Standard 24 Hour Averages ^{1/}	0.12
Standard 1 Hour ^{2/}	0.30

Standard : ^{1/} Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere
: ^{2/} Notification of the National Environment Board, No.24, B.E. 2547 (2004), dated August 9, B.E. 2547 (2004), which was published in the Royal Government Gazette Vol.121 Part 104D dated September 22, B.E. 2547 (2004).
Remark : Model and Serial No. : 43C and 43C-0427408948
Calibration Gas Cylinder I.D. : EB0129027
Concentration (ppm) : 55.11
Expire Date : Oct 29, 2027

ANALYSIS REPORT

Data Provided by Customer

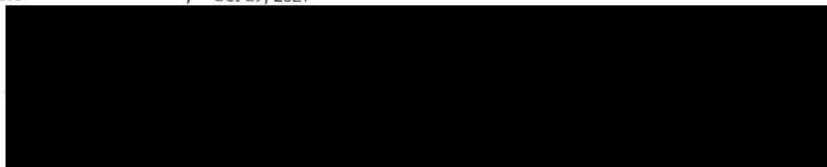
Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604439 E 1386412 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/3
Sample Type : Ambient Air
Sampling Date : 22 – 23 February 2025
Received Date : 24 February 2025
Analytical Date : 24 – 26 February 2025
Report Date : 27 February 2025
Measurement Method : UV Fluorescence

Interval Time	Result (ppm)
	Sulfur Dioxide (SO ₂)
11.00 a.m. - 12.00 p.m.	0.0030
12.00 p.m. - 01.00 p.m.	0.0028
01.00 p.m. - 02.00 p.m.	0.0027
02.00 p.m. - 03.00 p.m.	0.0028
03.00 p.m. - 04.00 p.m.	0.0025
04.00 p.m. - 05.00 p.m.	0.0022
05.00 p.m. - 06.00 p.m.	0.0023
06.00 p.m. - 07.00 p.m.	0.0022
07.00 p.m. - 08.00 p.m.	0.0021
08.00 p.m. - 09.00 p.m.	0.0017
09.00 p.m. - 10.00 p.m.	0.0025
10.00 p.m. - 11.00 p.m.	0.0020
11.00 p.m. - 12.00 a.m.	0.0022
12.00 a.m. - 01.00 a.m.	0.0024
01.00 a.m. - 02.00 a.m.	0.0024
02.00 a.m. - 03.00 a.m.	0.0025
03.00 a.m. - 04.00 a.m.	0.0021
04.00 a.m. - 05.00 a.m.	0.0025
05.00 a.m. - 06.00 a.m.	0.0029
06.00 a.m. - 07.00 a.m.	0.0028
07.00 a.m. - 08.00 a.m.	0.0029
08.00 a.m. - 09.00 a.m.	0.0033
09.00 a.m. - 10.00 a.m.	0.0032
10.00 a.m. - 11.00 a.m.	0.0033
24 Hour Average	0.0025
1 Hour Maximum	0.0033
1 Hour Minimum	0.0017
Standard 24 Hour Averages ^{1/}	0.12
Standard 1 Hour ^{2/}	0.30

Standard : ^{1/} Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere
: ^{2/} Notification of the National Environment Board, No.24, B.E. 2547 (2004), dated August 9, B.E. 2547 (2004), which was published in the Royal Government Gazette Vol.121 Part 104D dated September 22, B.E. 2547 (2004).
Remark : Model and Serial No. : 43C and 43C-71079-367
Calibration Gas Cylinder I.D. : EB0129027
Concentration (ppm) : 55.11
Expire Date : Oct 29, 2027



ANALYSIS REPORT

Data Provided by Customer

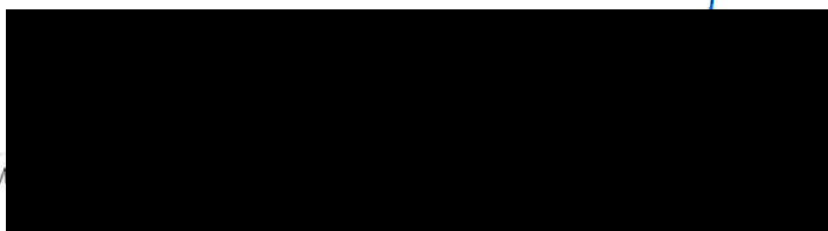
Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604438 E 1385657 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 22 February 2025
Sampling Time : 10.00 a.m.
Received Date : 26 February 2025
Analytical Date : 26 February – 04 March 2025
Report Date : 05 March 2025
Sampling Method : Flame Ionization Detection

Sampling No.	Date	Result (ppm)		
		Methane	Non-Methane	Total Hydrocarbon
S68005/2	22/02/2025	0.811	1.188	1.999

Remark : Model and Serial No. ; APHA-360CE and 423740300209
Calibration Gas Cylinder I.D. ; 4860
Concentration (ppm) ; 183.0
Expire Date ; Dec 06, 2025



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604439 E 1386412 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 22 February 2025
Sampling Time : 10.00 a.m.
Received Date : 26 February 2025
Analytical Date : 26 February – 04 March 2025
Report Date : 05 March 2025
Sampling Method : Flame Ionization Detection

Sampling No.	Date	Result (ppm)		
		Methane	Non-Methane	Total Hydrocarbon
S68005/3	22/02/2025	0.796	1.162	1.958

Remark : Model and Serial No. ; APHA-360CE and 423740300209
Calibration Gas Cylinder I.D. ; 4860
Concentration (ppm) ; 183.0
Expire Date ; Dec 06, 2025

[Redacted Signature Area]

Analyst

Laboratory Manager

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
 Sampling Point : บริเวณพื้นที่โครงการ
 GPS. Coordinate : 47 P 604440 E 1385658 N
 Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
 Sample No. : S68005/2
 Sample Type : Sound Level
 Sampling Date : 22 – 23 February 2025
 Received Date : 24 February 2025
 Analytical Date : 24 – 26 February 2025
 Report Date : 27 February 2025
 Measurement Method : Sound Level Meter

Interval Time	Result (dB(A))			
	Leq	Lmax	L10	L90
10.00 a.m. - 11.00 a.m.	64.9	96.8	66.7	62.1
11.00 a.m. - 12.00 p.m.	61.0	83.7	62.5	58.7
12.00 p.m. - 01.00 p.m.	58.4	79.2	59.6	56.6
01.00 p.m. - 02.00 p.m.	65.3	92.7	68.7	63.6
02.00 p.m. - 03.00 p.m.	62.6	86.2	64.7	60.1
03.00 p.m. - 04.00 p.m.	63.9	82.8	66.7	61.4
04.00 p.m. - 05.00 p.m.	65.0	89.0	67.5	61.7
05.00 p.m. - 06.00 p.m.	60.1	78.8	61.2	57.4
06.00 p.m. - 07.00 p.m.	60.3	74.5	63.6	58.2
07.00 p.m. - 08.00 p.m.	58.8	75.7	60.8	56.4
08.00 p.m. - 09.00 p.m.	58.1	74.5	60.0	56.1
09.00 p.m. - 10.00 p.m.	57.2	78.7	59.2	55.8
10.00 p.m. - 11.00 p.m.	61.4	77.9	63.5	58.2
11.00 p.m. - 12.00 a.m.	58.4	76.0	60.7	56.4
12.00 a.m. - 01.00 a.m.	59.7	74.1	62.5	56.2
01.00 a.m. - 02.00 a.m.	56.9	78.6	58.7	54.9
02.00 a.m. - 03.00 a.m.	56.2	75.4	58.0	54.2
03.00 a.m. - 04.00 a.m.	56.0	70.5	57.2	54.6
04.00 a.m. - 05.00 a.m.	57.1	78.5	59.6	54.9
05.00 a.m. - 06.00 a.m.	58.8	71.8	61.8	55.5
06.00 a.m. - 07.00 a.m.	58.9	73.1	60.8	56.4
07.00 a.m. - 08.00 a.m.	62.2	83.2	63.7	60.1
08.00 a.m. - 09.00 a.m.	63.7	91.9	66.5	61.5
09.00 a.m. - 10.00 a.m.	60.3	85.6	63.2	58.4
24 Hours Average	61.2	-	66.7	54.9
Lmax	-	96.8	-	-
Standard	≤70	≤115	-	-
Ldn	66.8	-	-	-

Standard : Notification of the National Environment Board, No.15, B.E. 2540 (1997), dated March 12, B.E. 2540 (1997), which was published in the Royal Government Gazette, Vol.114, Part 27D dated April 3, B.E. 2540 (1997).

Remark : SLM Model and Serial No. ; ST-25D and 10340945
 Calibrator Model and Serial No. ; KSM-42C and S/N 160100568
 Calibrator Expire Date ; Aug 26, 2025



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลิฟวิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอกหัวหิน จังหวัดประจวบคีรีขันธ์
 Sampling Point : บ้านน้ำปูน รีสอร์ท
 GPS. Coordinate : 47 P 604439 E 1386412 N
 Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
 Sample No. : S68005/3
 Sample Type : Sound Level
 Sampling Date : 22 – 23 February 2025
 Received Date : 24 February 2025
 Analytical Date : 24 – 26 February 2025
 Report Date : 27 February 2025
 Measurement Method : Sound Level Meter

Interval Time	Result (dB(A))			
	Leq	Lmax	L10	L90
11.00 a.m. - 12.00 p.m.	57.2	82.3	59.6	54.1
12.00 p.m. - 01.00 p.m.	56.9	79.6	60.4	54.9
01.00 p.m. - 02.00 p.m.	62.0	87.9	64.5	58.5
02.00 p.m. - 03.00 p.m.	63.3	93.2	66.9	61.2
03.00 p.m. - 04.00 p.m.	60.1	81.8	62.7	58.1
04.00 p.m. - 05.00 p.m.	59.0	84.8	61.4	57.2
05.00 p.m. - 06.00 p.m.	59.2	79.2	62.8	57.5
06.00 p.m. - 07.00 p.m.	59.9	77.4	62.7	57.4
07.00 p.m. - 08.00 p.m.	59.5	79.1	61.6	57.5
08.00 p.m. - 09.00 p.m.	59.3	82.7	63.2	57.8
09.00 p.m. - 10.00 p.m.	60.0	81.1	62.4	57.9
10.00 p.m. - 11.00 p.m.	58.2	75.2	60.1	56.2
11.00 p.m. - 12.00 a.m.	57.4	76.3	59.8	55.7
12.00 a.m. - 01.00 a.m.	54.8	72.1	56.1	52.1
01.00 a.m. - 02.00 a.m.	56.9	75.5	58.4	54.9
02.00 a.m. - 03.00 a.m.	60.9	80.1	62.7	58.6
03.00 a.m. - 04.00 a.m.	60.8	81.3	63.6	58.9
04.00 a.m. - 05.00 a.m.	60.2	78.8	62.5	58.7
05.00 a.m. - 06.00 a.m.	59.6	80.1	62.8	57.4
06.00 a.m. - 07.00 a.m.	60.8	82.6	63.2	58.5
07.00 a.m. - 08.00 a.m.	59.2	81.6	62.8	58.1
08.00 a.m. - 09.00 a.m.	61.3	83.5	63.0	58.6
09.00 a.m. - 10.00 a.m.	58.5	78.4	60.7	55.4
10.00 a.m. - 11.00 a.m.	60.1	82.5	62.1	58.4
24 Hours Average	59.7	-	63.5	54.9
Lmax	-	93.2	-	-
Standard	≤70	≤115	-	-
Ldn	65.3	-	-	-

Standard : Notification of the National Environment Board, No.15, B.E. 2540 (1997), dated March 12, B.E. 2540 (1997), which was published in the Royal Government Gazette, Vol.114, Part 27D dated April 3, B.E. 2540 (1997).

Remark : SLM Model and Serial No. ; ST-25D and 10340943
 Calibrator Model and Serial No. ; KSM-42C and S/N 160100568
 Calibrator Expire Date ; Aug 26, 2025



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604440 E 1385658 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Annoyance Level
Sampling Date : 22 – 23 February 2025
Received Date : 24 February 2025
Analytical Date : 24 – 26 February 2025
Report Date : 27 February 2025
Measurement Method : Sound Level Meter

Sample No.	Sampling Date	Specific Noise Level : L_{eq}	Residual Noise Level : L_{eq}	Background Noise Level : L_{90}	The Values of Annoyance Level	Standard
S68005/2	22-23/02/2025	65.3 ^{1/}	58.4 ^{2/}	56.3 ^{2/}	7.8	10.0

Standard : Notification of the National Environment Board, No.29, B.E. 2550 (2007), dated June 29, B.E. 2550 (2007), which was published in the Royal Government Gazette, Vol.124, Part 98D dated August, B.E. 2550 (2007).

Remark : Unit of Measurement is dB(A)

Specific Noise Level

^{1/} Measurement on 01.00 p.m. - 02.00 p.m., 22 February 2025

; Residual Noise Level

^{2/} Measurement on 12.35 p.m. - 12.40 p.m., 22 February 2025

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604439 E 1386412 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Annoyance Level
Sampling Date : 22 – 23 February 2025
Received Date : 24 February 2025
Analytical Date : 24 – 26 February 2025
Report Date : 27 February 2025
Measurement Method : Sound Level Meter

Sample No.	Sampling Date	Specific Noise Level : L_{eq}	Residual Noise Level : L_{eq}	Background Noise Level : L_{90}	The Values of Annoyance Level	Standard
S68005/3	22-23/02/2025	63.3 ^{1/}	56.6 ^{2/}	54.7 ^{2/}	7.6	10.0

Standard : Notification of the National Environment Board, No.29, B.E. 2550 (2007), dated June 29, B.E. 2550 (2007), which was published in the Royal Government Gazette, Vol.124, Part 98D dated August, B.E. 2550 (2007).

Remark : Unit of Measurement is dB(A)

Specific Noise Level

^{1/} Measurement on 02.00 p.m. - 03.00 p.m., 22 February 2025

; Residual Noise Level

^{2/} Measurement on 12.45 p.m. – 12.50 p.m., 22 February 2025

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภ หัวหิน จังหวัดประจวบคีรีขันธ์
 Sampling Point : บริเวณพื้นที่โครงการ
 GPS. Coordinate : 47 P 604440 E 1385658 N
 Measurement By : TNP ENVIRONMENT CO.,LTD.

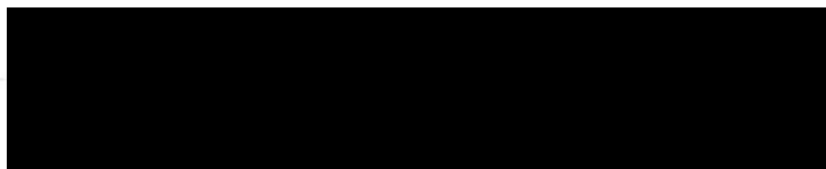
Data Provided by Laboratory

Report No. : S68005
 Sample No. : S68005/2
 Sample Type : Vibration
 Sampling Date : 22 – 23 February 2025
 Received Date : 24 February 2025
 Analytical Date : 24 – 26 February 2025
 Report Date : 27 February 2025
 Measurement Method : Vibration Meter

Interval Time	Transverse		Vertical		Longitudinal		Standard	
	PPV (mm/s)	f (Hz)	PPV (mm/s)	f (Hz)	PPV (mm/s)	f (Hz)	f (Hz)	PPV (mm/s)
10.00 a.m. - 11.00 a.m.	0.181	3.1	0.899	12.0	0.189	4.5	$10 < f \leq 50$	5.500
11.00 a.m. - 12.00 p.m.	0.213	2.0	0.544	2.1	0.284	6.3	$f \leq 10$	5.000
12.00 p.m. - 01.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
01.00 p.m. - 02.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
02.00 p.m. - 03.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
03.00 p.m. - 04.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
04.00 p.m. - 05.00 p.m.	0.181	7.5	1.103	15.0	0.394	8.6	$10 < f \leq 50$	6.250
05.00 p.m. - 06.00 p.m.	0.158	3.3	0.772	5.2	0.252	6.4	$f \leq 10$	5.000
06.00 p.m. - 07.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
07.00 p.m. - 08.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
08.00 p.m. - 09.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
09.00 p.m. - 10.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
10.00 p.m. - 11.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
11.00 p.m. - 12.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
12.00 a.m. - 01.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
01.00 a.m. - 02.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
02.00 a.m. - 03.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
03.00 a.m. - 04.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
04.00 a.m. - 05.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
05.00 a.m. - 06.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
06.00 a.m. - 07.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
07.00 a.m. - 08.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
08.00 a.m. - 09.00 a.m.	0.079	4.4	0.528	7.5	0.126	2.0	$f \leq 10$	5.000
09.00 a.m. - 10.00 a.m.	0.102	6.5	0.678	5.2	0.166	6.3	$f \leq 10$	5.000
24 Hour Maximum	-	-	1.103	15.0	-	-	$10 < f \leq 50$	6.250

Standard : Notification of National Environmental Board No. 37 B.E. 2553 (2010), Under the Enhancement and Conservation of National Environmental Quality Act B.E. 2535 (1992) published in the Royal Government Gazette No. 127 Special Part 69 4, dated June 2 B.E. 2553 (2010)

Remark : N/A = Not Applicable (Frequency < 1.0 Hz, Velocity < 0.127 mm/sec),
 PPV = Peak Particle Velocity, f = Frequency, mm/sec = millimeter/second, Hz = Hertz



mm

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอบางน้ำจืด จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณบ่อกักน้ำสุดท้ายก่อนระบายออกสู่ท่อระบายน้ำ
ริมทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
GPS. Coordinate : 47 P 604474 E 1385666 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/1
Sample Type : Waste Water
Sampling Date : 22 February 2025
Sampling Time : 10.22 a.m.
Received Date : 23 February 2025
Analytical Date : 23 February – 11 March 2025
Report Date : 12 March 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 25°C	-	Electrometric Method (4500-H ⁺ B)	6.9	5.5-9.0
Total Dissolved Solids	mg/L	Dried at 180°C (2540 C)	152	≤ 1,000
Total Suspended Solids	mg/L	Dried at 103-105°C (2540 D)	19.6	≤ 40
Biochemical Oxygen Demand *	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O ₂ G, 5210 B)	4.2	≤ 30
Settleable Solids *	mL/L	Imhoff Cone (2540 F)	< 0.1	-
Sulfide *	mg/L	Iodometric Method (4500-S ²⁻ F)	< 0.60	≤ 1.0
Fat, Oil and Grease *	mg/L	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	< 2.0	≤ 20
Total Kjeldahl Nitrogen * ^{2/}	mg/L N	APHA:4500-Norg (B) ^{3/}	< 0.28	≤ 35
Total Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	> 160,000	-
Fecal Coliform Bacteria *	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E)	> 160,000	-
Sample Appearance		Clear/Little Sediment/Smelly		

Standard : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type B.

Remark ^{1/} Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24th edition 2023.

^{2/} Analyzed by Environment & Laboratory Co., Ltd. registration number Wo-029.

^{3/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition 2017.

* This item is out the scope ISO/IEC 17025:2017 Accreditation.



TNP ENVIRONMENT CO.,LTD.

เลขที่ 332/173 หมู่ 3 ตำบลบางรักพัฒนา อำเภอบางบัวทอง จังหวัดนนทบุรี 11110 โทรศัพท์: 02-156-8273

E-mail: tnp.envi@gmail.com เลขประจำตัวผู้เสียภาษี 0125560008957 สำนักงานใหญ่

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604439 E 1385664 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 12 – 13 March 2025
Sampling Time : 10.39 a.m.
Received Date : 14 March 2025
Analytical Date : 14 – 21 March 2025
Report Date : 24 March 2025
Sampling Method : High-Volume Air Sampler

Item	Sample No.	Sampling Date	Result (mg/m ³)	
			Total Suspended Particulates (TSP)	Particulate Matter < 10 microns (PM-10)
1.	S68005/2	12-13/03/2025	0.0548	0.0271
Standard			≤ 0.33	≤ 0.12

Standard : Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere

Method : US.EPA.40 CFR 60, Appendix B, Appendix J/ Gravimetric Method

Remark : Model and Serial No. ; TNP-F-01-TSP and TNP-F-01-PM10

Calibrator Model and Serial No. ; TE-5028 and 3945

Calibrator Expire Date ; Sep 27, 2025

M

Analyst

Laboratory Manager

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604431 E 1386402 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 12 – 13 March 2025
Sampling Time : 11.20 a.m.
Received Date : 14 March 2025
Analytical Date : 14 – 21 March 2025
Report Date : 24 March 2025
Sampling Method : High-Volume Air Sampler

Item	Sample No.	Sampling Date	Result (mg/m ³)	
			Total Suspended Particulates (TSP)	Particulate Matter < 10 microns (PM-10)
1.	S68005/3	12-13/03/2025	0.0245	0.0120
Standard			≤ 0.33	≤ 0.12

Standard : Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere

Method : US.EPA.40 CFR 60, Appendix B, Appendix J/ Gravimetric Method

Remark : Model and Serial No. ; TNP-F-02-TSP and TNP-F-02-PM10

Calibrator Model and Serial No. ; TE-5028 and 3945

Calibrator Expire Date ; Sep 27, 2025

[Redacted Signature Area]

Analyst

Laboratory Manager

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอนครหลวง จังหวัดพระจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604439 E 1385664 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

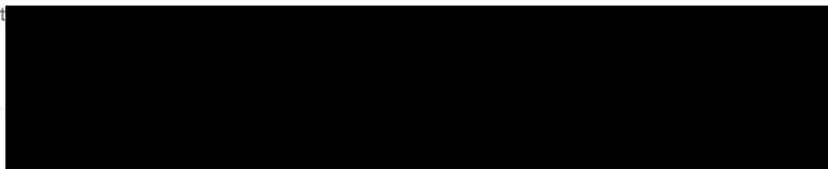
Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/2
Sample Type : Ambient Air
Sampling Date : 12 – 13 March 2025
Received Date : 14 March 2025
Analytical Date : 14 – 18 March 2025
Report Date : 21 March 2025
Measurement Method : Non-Dispersive Infrared Detection

Interval Time	Result (ppm)
	Carbon Monoxide (CO)
10.00 a.m. - 11.00 a.m.	1.1354
11.00 a.m. - 12.00 p.m.	1.0659
12.00 p.m. - 01.00 p.m.	1.0362
01.00 p.m. - 02.00 p.m.	1.2547
02.00 p.m. - 03.00 p.m.	1.1632
03.00 p.m. - 04.00 p.m.	0.9865
04.00 p.m. - 05.00 p.m.	0.9697
05.00 p.m. - 06.00 p.m.	0.9493
06.00 p.m. - 07.00 p.m.	0.9540
07.00 p.m. - 08.00 p.m.	0.9013
08.00 p.m. - 09.00 p.m.	0.9147
09.00 p.m. - 10.00 p.m.	0.8951
10.00 p.m. - 11.00 p.m.	0.8844
11.00 p.m. - 12.00 a.m.	0.8627
12.00 a.m. - 01.00 a.m.	0.8421
01.00 a.m. - 02.00 a.m.	0.8334
02.00 a.m. - 03.00 a.m.	0.8161
03.00 a.m. - 04.00 a.m.	0.8096
04.00 a.m. - 05.00 a.m.	0.8285
05.00 a.m. - 06.00 a.m.	0.8497
06.00 a.m. - 07.00 a.m.	0.8618
07.00 a.m. - 08.00 a.m.	0.8556
08.00 a.m. - 09.00 a.m.	1.0475
09.00 a.m. - 10.00 a.m.	1.0257
8 Hour Average	1.0701
1 Hour Maximum	1.2547
1 Hour Minimum	0.8096
Standard 8 Hour Averages	9
Standard 1 Hour	30

Standard : Notification of the National Environment Committee Issue 10 B.E. 2538 (1995) According to Supporting and Preserving National Environmental Quality Act, B.E. 2535 (1992), Air quality Standard in the generic atmosphere.

Remark : Model and Serial No. ; 48C and 48C-67530-357
 Calibration Gas Cylinder I.D. ; EB0129027
 Concentration (ppm) ; 4,535
 Expire Date



Reviewed Signatory **TNP ENVIRONMENT CO.,LTD.** Approved Signatory
 บริษัท ทีเอ็นพี เอ็นไวรอนเม้นท์ จำกัด

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
 Sampling Point : บ้านน้ำปูน รีสอร์ท
 GPS. Coordinate : 47 P 604431 E 1386402 N
 Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
 Sample No. : S68005/3
 Sample Type : Ambient Air
 Sampling Date : 12 – 13 March 2025
 Received Date : 14 March 2025
 Analytical Date : 14 – 18 March 2025
 Report Date : 21 March 2025
 Measurement Method : Non-Dispersive Infrared Detection

Interval Time	Result (ppm)
	Carbon Monoxide (CO)
11.00 a.m. - 12.00 p.m.	0.9076
12.00 p.m. - 01.00 p.m.	0.9238
01.00 p.m. - 02.00 p.m.	0.9006
02.00 p.m. - 03.00 p.m.	0.9164
03.00 p.m. - 04.00 p.m.	0.8899
04.00 p.m. - 05.00 p.m.	0.9095
05.00 p.m. - 06.00 p.m.	0.9472
06.00 p.m. - 07.00 p.m.	0.9167
07.00 p.m. - 08.00 p.m.	0.8985
08.00 p.m. - 09.00 p.m.	0.8830
09.00 p.m. - 10.00 p.m.	0.9126
10.00 p.m. - 11.00 p.m.	0.8915
11.00 p.m. - 12.00 a.m.	0.8868
12.00 a.m. - 01.00 a.m.	0.8800
01.00 a.m. - 02.00 a.m.	0.8751
02.00 a.m. - 03.00 a.m.	0.8216
03.00 a.m. - 04.00 a.m.	0.8151
04.00 a.m. - 05.00 a.m.	0.8246
05.00 a.m. - 06.00 a.m.	0.8128
06.00 a.m. - 07.00 a.m.	0.8229
07.00 a.m. - 08.00 a.m.	0.8327
08.00 a.m. - 09.00 a.m.	0.8376
09.00 a.m. - 10.00 a.m.	0.8522
10.00 a.m. - 11.00 a.m.	0.9215
8 Hour Average	0.9140
1 Hour Maximum	0.9472
1 Hour Minimum	0.8128
Standard 8 Hour Averages	9
Standard 1 Hour	30

Standard : Notification of the National Environment Committee Issue 10 B.E. 2538 (1995) According to Supporting and Preserving National Environmental Quality Act, B.E. 2535 (1992), Air quality Standard in the generic atmosphere.

Remark : Model and Serial No. ; 48C and 48CHL-67713-358

Calibration Gas Cylinder I.D. ; EB0129027

Concentration

Expire Date

Reviewed Signatory

TNP ENVIRONMENT CO.,LTD.
 บริษัท ทีเอ็นพี เอ็นvironment จำกัด

Approved Signatory

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604439 E 1385664 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/2
Sample Type : Ambient Air
Sampling Date : 12 – 13 March 2025
Received Date : 14 March 2025
Analytical Date : 14 – 18 March 2025
Report Date : 21 March 2025
Measurement Method : Chemiluminescence

Interval Time	Result (ppm)
	Nitrogen Dioxide (NO ₂)
10.00 a.m. - 11.00 a.m.	0.0214
11.00 a.m. - 12.00 p.m.	0.0189
12.00 p.m. - 01.00 p.m.	0.0213
01.00 p.m. - 02.00 p.m.	0.0236
02.00 p.m. - 03.00 p.m.	0.0156
03.00 p.m. - 04.00 p.m.	0.0162
04.00 p.m. - 05.00 p.m.	0.0156
05.00 p.m. - 06.00 p.m.	0.0154
06.00 p.m. - 07.00 p.m.	0.0182
07.00 p.m. - 08.00 p.m.	0.0132
08.00 p.m. - 09.00 p.m.	0.0128
09.00 p.m. - 10.00 p.m.	0.0145
10.00 p.m. - 11.00 p.m.	0.0150
11.00 p.m. - 12.00 a.m.	0.0136
12.00 a.m. - 01.00 a.m.	0.0125
01.00 a.m. - 02.00 a.m.	0.0146
02.00 a.m. - 03.00 a.m.	0.0138
03.00 a.m. - 04.00 a.m.	0.0124
04.00 a.m. - 05.00 a.m.	0.0117
05.00 a.m. - 06.00 a.m.	0.0136
06.00 a.m. - 07.00 a.m.	0.0170
07.00 a.m. - 08.00 a.m.	0.0155
08.00 a.m. - 09.00 a.m.	0.0169
09.00 a.m. - 10.00 a.m.	0.0203
24 Hour Average	0.0160
1 Hour Maximum	0.0236
1 Hour Minimum	0.0117
Standard 1 Hour Averages	0.17

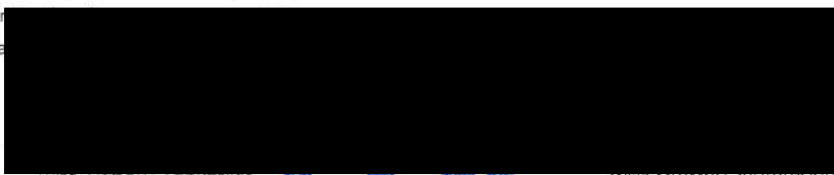
Standard : Notification of the National Environment Committee Issue 33 B.E. 2552 (2009), The Standard Level of Nitrogen dioxide in the generic atmosphere.

Remark : Model and Serial No. ; 42C and 42C-59194-321

Calibration Gas Cylinder I.D. ; EB0129027

Concentration

Expire Date

Reviewed Signatory  Approved Signatory 

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอนหัวหิน จังหวัดประจวบคีรีขันธ์
 Sampling Point : บ้านน้ำปูน รีสอร์ท
 GPS. Coordinate : 47 P 604431 E 1386402 N
 Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
 Sample No. : S68005/3
 Sample Type : Ambient Air
 Sampling Date : 12 – 13 March 2025
 Received Date : 14 March 2025
 Analytical Date : 14 – 18 March 2025
 Report Date : 21 March 2025
 Measurement Method : Chemiluminescence

Interval Time	Result (ppm)
	Nitrogen Dioxide (NO ₂)
11.00 a.m. - 12.00 p.m.	0.0140
12.00 p.m. - 01.00 p.m.	0.0125
01.00 p.m. - 02.00 p.m.	0.0139
02.00 p.m. - 03.00 p.m.	0.0136
03.00 p.m. - 04.00 p.m.	0.0142
04.00 p.m. - 05.00 p.m.	0.0140
05.00 p.m. - 06.00 p.m.	0.0133
06.00 p.m. - 07.00 p.m.	0.0150
07.00 p.m. - 08.00 p.m.	0.0122
08.00 p.m. - 09.00 p.m.	0.0105
09.00 p.m. - 10.00 p.m.	0.0133
10.00 p.m. - 11.00 p.m.	0.0112
11.00 p.m. - 12.00 a.m.	0.0103
12.00 a.m. - 01.00 a.m.	0.0129
01.00 a.m. - 02.00 a.m.	0.0136
02.00 a.m. - 03.00 a.m.	0.0105
03.00 a.m. - 04.00 a.m.	0.0095
04.00 a.m. - 05.00 a.m.	0.0097
05.00 a.m. - 06.00 a.m.	0.0092
06.00 a.m. - 07.00 a.m.	0.0126
07.00 a.m. - 08.00 a.m.	0.0119
08.00 a.m. - 09.00 a.m.	0.0103
09.00 a.m. - 10.00 a.m.	0.0133
10.00 a.m. - 11.00 a.m.	0.0113
24 Hour Average	0.0122
1 Hour Maximum	0.0150
1 Hour Minimum	0.0092
Standard 1 Hour Averages	0.17

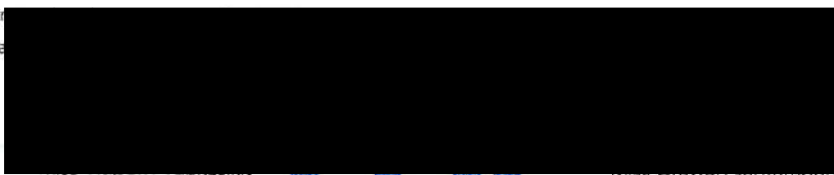
Standard : Notification of the National Environment Committee Issue 33 B.E. 2552 (2009), The Standard Level of Nitrogen dioxide in the generic atmosphere.

Remark : Model and Serial No. ; 42C and 42C-70987-367

Calibration Gas Cylinder I.D. ; EB0129027

Concentration

Expire Date

Reviewed Signatory  Approved Signatory

TNP ENVIRONMENT CO.,LTD.
 บริษัท ทีเอ็นพี เอ็นไวรอนเม้นท์ จำกัด

ANALYSIS REPORT

Data Provided by Customer

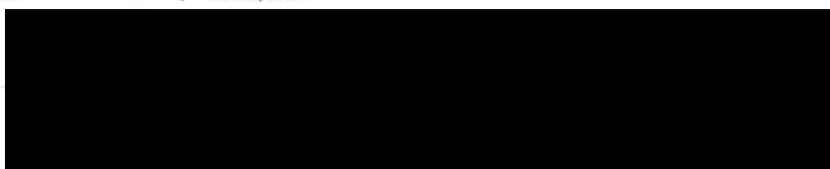
Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604439 E 1385664 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/2
Sample Type : Ambient Air
Sampling Date : 12 – 13 March 2025
Received Date : 14 March 2025
Analytical Date : 14 – 18 March 2025
Report Date : 21 March 2025
Measurement Method : UV Fluorescence

Interval Time	Result (ppm)
	Sulfur Dioxide (SO ₂)
10.00 a.m. - 11.00 a.m.	0.0033
11.00 a.m. - 12.00 p.m.	0.0037
12.00 p.m. - 01.00 p.m.	0.0040
01.00 p.m. - 02.00 p.m.	0.0053
02.00 p.m. - 03.00 p.m.	0.0060
03.00 p.m. - 04.00 p.m.	0.0056
04.00 p.m. - 05.00 p.m.	0.0049
05.00 p.m. - 06.00 p.m.	0.0046
06.00 p.m. - 07.00 p.m.	0.0049
07.00 p.m. - 08.00 p.m.	0.0044
08.00 p.m. - 09.00 p.m.	0.0040
09.00 p.m. - 10.00 p.m.	0.0038
10.00 p.m. - 11.00 p.m.	0.0034
11.00 p.m. - 12.00 a.m.	0.0032
12.00 a.m. - 01.00 a.m.	0.0029
01.00 a.m. - 02.00 a.m.	0.0026
02.00 a.m. - 03.00 a.m.	0.0024
03.00 a.m. - 04.00 a.m.	0.0020
04.00 a.m. - 05.00 a.m.	0.0016
05.00 a.m. - 06.00 a.m.	0.0015
06.00 a.m. - 07.00 a.m.	0.0019
07.00 a.m. - 08.00 a.m.	0.0022
08.00 a.m. - 09.00 a.m.	0.0035
09.00 a.m. - 10.00 a.m.	0.0030
24 Hour Average	0.0035
1 Hour Maximum	0.0060
1 Hour Minimum	0.0015
Standard 24 Hour Averages ^{1/}	0.12
Standard 1 Hour ^{2/}	0.30

Standard : ^{1/} Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere
: ^{2/} Notification of the National Environment Board, No.24, B.E. 2547 (2004), dated August 9, B.E. 2547 (2004), which was published in the Royal Government Gazette Vol.121 Part 104D dated September 22, B.E. 2547 (2004).
Remark : Model and Serial No. : 43C and 43C-0427408948
Calibration Gas Cylinder I.D. : EB0129027
Concentration (ppm) : 55.11
Expire Date : Oct 29, 2027



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอนิวหวิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604431 E 1386402 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

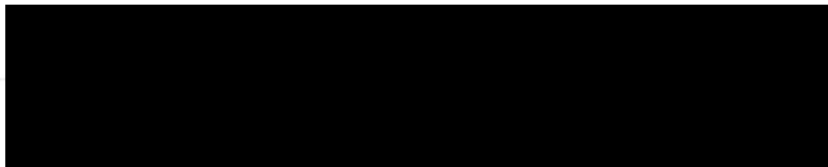
Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/3
Sample Type : Ambient Air
Sampling Date : 12 – 13 March 2025
Received Date : 14 March 2025
Analytical Date : 14 – 18 March 2025
Report Date : 21 March 2025
Measurement Method : UV Fluorescence

Interval Time	Result (ppm)
	Sulfur Dioxide (SO ₂)
11.00 a.m. - 12.00 p.m.	0.0029
12.00 p.m. - 01.00 p.m.	0.0025
01.00 p.m. - 02.00 p.m.	0.0034
02.00 p.m. - 03.00 p.m.	0.0016
03.00 p.m. - 04.00 p.m.	0.0012
04.00 p.m. - 05.00 p.m.	0.0026
05.00 p.m. - 06.00 p.m.	0.0023
06.00 p.m. - 07.00 p.m.	0.0024
07.00 p.m. - 08.00 p.m.	0.0012
08.00 p.m. - 09.00 p.m.	0.0013
09.00 p.m. - 10.00 p.m.	0.0012
10.00 p.m. - 11.00 p.m.	0.0018
11.00 p.m. - 12.00 a.m.	0.0017
12.00 a.m. - 01.00 a.m.	0.0020
01.00 a.m. - 02.00 a.m.	0.0019
02.00 a.m. - 03.00 a.m.	0.0015
03.00 a.m. - 04.00 a.m.	0.0014
04.00 a.m. - 05.00 a.m.	0.0016
05.00 a.m. - 06.00 a.m.	0.0021
06.00 a.m. - 07.00 a.m.	0.0025
07.00 a.m. - 08.00 a.m.	0.0028
08.00 a.m. - 09.00 a.m.	0.0040
09.00 a.m. - 10.00 a.m.	0.0036
10.00 a.m. - 11.00 a.m.	0.0031
24 Hour Average	0.0022
1 Hour Maximum	0.0040
1 Hour Minimum	0.0012
Standard 24 Hour Averages ^{1/}	0.12
Standard 1 Hour ^{2/}	0.30

Standard : ^{1/} Notification of the National Environment Committee Issue 24 B.E. 2547 (2004), The Standard Level of Air Quality in the generic atmosphere
^{2/} Notification of the National Environment Board, No.24, B.E. 2547 (2004), dated August 9, B.E. 2547 (2004), which was published in the Royal Government Gazette Vol.121 Part 104D dated September 22, B.E. 2547 (2004).

Remark : Model and Serial No. ; 43C and 43C-71079-367
Calibration Gas Cylinder I.D. ; EB0129027
Concentration (ppm) ; 55.11
Expire Date ; Oct 29, 2027



ANALYSIS REPORT

Data Provided by Customer

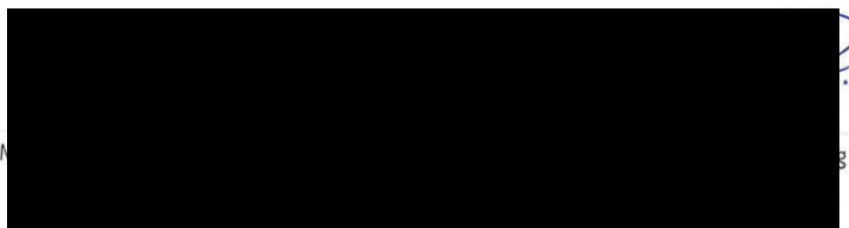
Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604439 E 1385664 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 12 March 2025
Sampling Time : 09.00 a.m.
Received Date : 14 March 2025
Analytical Date : 14 – 20 March 2025
Report Date : 24 March 2025
Sampling Method : Flame Ionization Detection

Sampling No.	Date	Result (ppm)		
		Methane	Non-Methane	Total Hydrocarbon
S68005/2	12/03/2025	0.821	1.272	2.093

Remark : Model and Serial No. : APHA-360CE and 423740300209
Calibration Gas Cylinder I.D. : 4860
Concentration (ppm) : 183.0
Expire Date : Dec 06, 2025



ANALYSIS REPORT

Data Provided by Customer

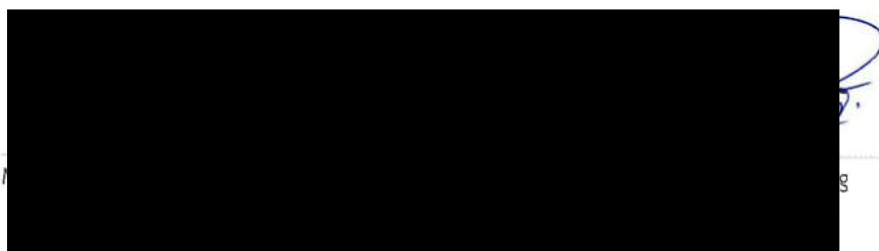
Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอยะหริ่ง จังหวัดประจวบคีรีขันธ์
Sampling Point : บ้านน้ำปูน รีสอร์ท
GPS. Coordinate : 47 P 604431 E 1386402 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Ambient Air
Sampling Date : 12 March 2025
Sampling Time : 10.00 a.m.
Received Date : 14 March 2025
Analytical Date : 14 – 20 March 2025
Report Date : 24 March 2025
Sampling Method : Flame Ionization Detection

Sampling No.	Date	Result (ppm)		
		Methane	Non-Methane	Total Hydrocarbon
S68005/3	12/03/2025	0.806	1.226	2.032

Remark : Model and Serial No. : APHA-360CE and 423740300209
Calibration Gas Cylinder I.D. : 4860
Concentration (ppm) : 183.0
Expire Date : Dec 06, 2025



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท หัวหิน สกาย ลีฟวิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
 Sampling Point : บริเวณพื้นที่โครงการ
 GPS. Coordinate : 47 P 604463 E 1385657 N
 Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
 Sample No. : S68005/2
 Sample Type : Sound Level
 Sampling Date : 12 – 13 March 2025
 Received Date : 14 March 2025
 Analytical Date : 14 – 18 March 2025
 Report Date : 19 March 2025
 Measurement Method : Sound Level Meter

Interval Time	Result (dB(A))			
	Leq	Lmax	L10	L90
10.00 a.m. - 11.00 a.m.	64.5	87.4	68.2	62.9
11.00 a.m. - 12.00 p.m.	66.9	88.5	69.2	64.7
12.00 p.m. - 01.00 p.m.	63.2	86.4	65.1	61.2
01.00 p.m. - 02.00 p.m.	64.5	86.1	66.3	62.3
02.00 p.m. - 03.00 p.m.	66.4	84.1	68.4	64.1
03.00 p.m. - 04.00 p.m.	65.1	85.9	67.1	63.9
04.00 p.m. - 05.00 p.m.	64.9	82.5	66.2	62.5
05.00 p.m. - 06.00 p.m.	64.6	86.3	67.1	62.8
06.00 p.m. - 07.00 p.m.	63.9	81.4	65.3	61.4
07.00 p.m. - 08.00 p.m.	49.4	80.1	50.8	47.8
08.00 p.m. - 09.00 p.m.	49.5	79.2	51.0	47.2
09.00 p.m. - 10.00 p.m.	50.3	76.1	52.4	46.8
10.00 p.m. - 11.00 p.m.	48.4	65.3	50.0	45.4
11.00 p.m. - 12.00 a.m.	48.2	69.2	49.6	45.6
12.00 a.m. - 01.00 a.m.	46.9	65.7	48.4	44.6
01.00 a.m. - 02.00 a.m.	46.6	65.1	48.2	43.6
02.00 a.m. - 03.00 a.m.	47.0	61.2	48.6	44.8
03.00 a.m. - 04.00 a.m.	53.8	74.5	55.8	51.2
04.00 a.m. - 05.00 a.m.	59.7	79.7	63.6	57.4
05.00 a.m. - 06.00 a.m.	52.1	77.4	53.4	50.1
06.00 a.m. - 07.00 a.m.	55.2	72.2	57.2	53.2
07.00 a.m. - 08.00 a.m.	65.2	83.2	67.4	63.1
08.00 a.m. - 09.00 a.m.	64.1	84.1	66.2	62.5
09.00 a.m. - 10.00 a.m.	63.9	82.5	65.1	61.4
24 Hours Average	62.1	-	68.0	45.0
Lmax	-	88.5	-	-
Standard	≤70	≤115	-	-
Ldn	66.9	-	-	-

Standard : Notification of the National Environment Board, No.15, B.E. 2540 (1997), dated March 12, B.E. 2540 (1997), which was published in the Royal Government Gazette, Vol.114, Part 27D dated April 3, B.E. 2540 (1997).

Remark : SLM Model and Serial No. : ST-25D and 10340945
 Calibrator Model and Serial No. : KSM-42C and S/N 160100568
 Calibrator Expire Date : Aug 26, 2025



บริษัท ทีเอ็นพี เอ็นvironment จำกัด

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
 Sampling Point : บ้านน้ำปูน รีสอร์ท
 GPS. Coordinate : 47 P 604430 E 1386410 N
 Measurement By : TNP ENVIRONMENT CO.,LTD.

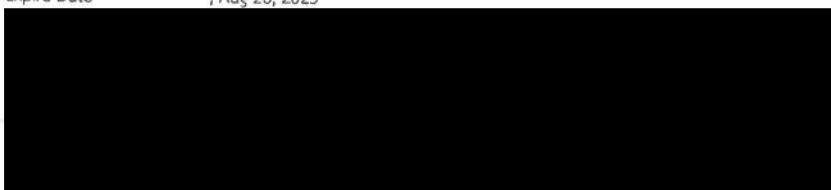
Data Provided by Laboratory

Report No. : S68005
 Sample No. : S68005/3
 Sample Type : Sound Level
 Sampling Date : 12 – 13 March 2025
 Received Date : 14 March 2025
 Analytical Date : 14 – 18 March 2025
 Report Date : 19 March 2025
 Measurement Method : Sound Level Meter

Interval Time	Result (dB(A))			
	Leq	Lmax	L10	L90
11.00 a.m. - 12.00 p.m.	59.1	82.6	62.3	56.3
12.00 p.m. - 01.00 p.m.	56.2	78.5	59.6	54.2
01.00 p.m. - 02.00 p.m.	59.9	89.2	61.2	57.4
02.00 p.m. - 03.00 p.m.	58.9	81.3	60.5	56.4
03.00 p.m. - 04.00 p.m.	58.8	82.7	61.3	55.1
04.00 p.m. - 05.00 p.m.	57.4	77.9	59.3	55.2
05.00 p.m. - 06.00 p.m.	58.3	85.2	59.3	56.9
06.00 p.m. - 07.00 p.m.	58.8	83.6	60.3	55.4
07.00 p.m. - 08.00 p.m.	59.2	83.4	61.4	57.4
08.00 p.m. - 09.00 p.m.	59.8	84.8	62.7	57.8
09.00 p.m. - 10.00 p.m.	56.1	79.1	59.3	54.2
10.00 p.m. - 11.00 p.m.	57.4	80.0	59.6	53.6
11.00 p.m. - 12.00 a.m.	56.9	75.6	59.6	54.1
12.00 a.m. - 01.00 a.m.	53.8	76.6	55.4	51.4
01.00 a.m. - 02.00 a.m.	58.9	82.5	60.3	56.9
02.00 a.m. - 03.00 a.m.	59.3	78.5	61.4	57.4
03.00 a.m. - 04.00 a.m.	58.9	83.2	61.0	56.2
04.00 a.m. - 05.00 a.m.	54.0	73.1	55.5	52.1
05.00 a.m. - 06.00 a.m.	55.7	80.2	58.8	53.6
06.00 a.m. - 07.00 a.m.	59.9	83.8	61.5	57.9
07.00 a.m. - 08.00 a.m.	57.9	79.0	59.7	55.8
08.00 a.m. - 09.00 a.m.	56.9	74.6	59.2	54.1
09.00 a.m. - 10.00 a.m.	57.6	79.6	60.7	55.4
10.00 a.m. - 11.00 a.m.	59.7	81.4	62.1	58.4
24 Hours Average	58.2	-	61.9	53.6
Lmax	-	89.2	-	-
Standard	≤70	≤115	-	-
Ldn	64.2	-	-	-

Standard : Notification of the National Environment Board, No.15, B.E. 2540 (1997), dated March 12, B.E. 2540 (1997), which was published in the Royal Government Gazette, Vol.114, Part 27D dated April 3, B.E. 2540 (1997).

Remark : SLM Model and Serial No. : ST-25D and 10340943
 Calibrator Model and Serial No. : KSM-42C and S/N 160100568
 Calibrator Expire Date : Aug 26, 2025




 บริษัท ทีเอ็นพี เอ็นไวรอนเมนต์ จำกัด

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอหัวหิน จังหวัดประจวบคีรีขันธ์
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604463 E 1385657 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample Type : Annoyance Level
Sampling Date : 12 – 13 March 2025
Received Date : 14 March 2025
Analytical Date : 14 – 18 March 2025
Report Date : 19 March 2025
Measurement Method : Sound Level Meter

Sample No.	Sampling Date	Specific Noise Level : L_{eq}	Residual Noise Level : L_{eq}	Background Noise Level : L_{90}	The Values of Annoyance Level	Standard
S68005/2	12-13/03/2025	66.9 ^{1/}	63.3 ^{2/}	61.2 ^{2/}	3.2	10.0

Standard : Notification of the National Environment Board, No.29, B.E. 2550 (2007), dated June 29, B.E. 2550 (2007), which was published in the Royal Government Gazette, Vol.124, Part 98D dated August, B.E. 2550 (2007).

Remark : Unit of Measurement is dB(A)

Specific Noise Level

^{1/} Measurement on 11.00 a.m. - 12.00 p.m., 12 March 2025

; Residual Noise Level

^{2/} Measurement on 12.10 p.m. - 12.15 p.m., 12 March 2025

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
 Project Name : โครงการ Vana Nava Residence Hua Hin
 Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
 ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
 Sampling Point : บ้านน้ำปูน รีสอร์ท
 GPS. Coordinate : 47 P 604430 E 1386410 N
 Measurement By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
 Sample Type : Annoyance Level
 Sampling Date : 12 – 13 March 2025
 Received Date : 14 March 2025
 Analytical Date : 14 – 18 March 2025
 Report Date : 19 March 2025
 Measurement Method : Sound Level Meter

Sample No.	Sampling Date	Specific Noise Level : L_{eq}	Residual Noise Level : L_{eq}	Background Noise Level : L_{90}	The Values of Annoyance Level	Standard
S68005/3	12-13/03/2025	59.9 ^{1/}	56.2 ^{2/}	54.9 ^{2/}	2.6	10.0

Standard : Notification of the National Environment Board, No.29, B.E. 2550 (2007), dated June 29, B.E. 2550 (2007), which was published in the Royal Government Gazette, Vol.124, Part 98D dated August, B.E. 2550 (2007).

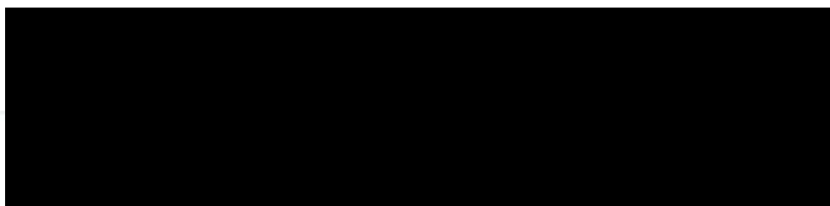
Remark : Unit of Measurement is dB(A)

Specific Noise Level

^{1/} Measurement on 01.00 p.m. - 02.00 p.m., 12 March 2025

; Residual Noise Level

^{2/} Measurement on 12.05 p.m. - 12.10 p.m., 12 March 2025



ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
Sampling Point : บริเวณพื้นที่โครงการ
GPS. Coordinate : 47 P 604463 E 1385657 N
Measurement By : TNP ENVIRONMENT CO.,LTD.

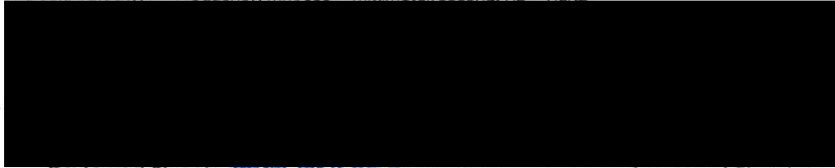
Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/2
Sample Type : Vibration
Sampling Date : 12 – 13 March 2025
Received Date : 14 March 2025
Analytical Date : 14 – 18 March 2025
Report Date : 19 March 2025
Measurement Method : Vibration Meter

Interval Time	Transverse		Vertical		Longitudinal		Standard	
	PPV (mm/s)	f (Hz)	PPV (mm/s)	f (Hz)	PPV (mm/s)	f (Hz)	f (Hz)	PPV (mm/s)
10.00 a.m. - 11.00 a.m.	0.102	>100	0.102	>100	0.150	64.0	50 < f ≤ 100	16.400
11.00 a.m. - 12.00 p.m.	0.095	57.0	0.095	73.0	0.158	64.0	50 < f ≤ 100	16.400
12.00 p.m. - 01.00 p.m.	0.110	64.0	0.102	>100	0.173	85.0	50 < f ≤ 100	18.500
01.00 p.m. - 02.00 p.m.	0.102	23.0	0.150	18.0	0.158	30.0	10 < f ≤ 50	10.000
02.00 p.m. - 03.00 p.m.	0.102	34.0	0.110	43.0	0.150	47.0	10 < f ≤ 50	14.250
03.00 p.m. - 04.00 p.m.	0.118	85.0	0.010	51.0	0.158	>100	f > 100	20.000
04.00 p.m. - 05.00 p.m.	0.102	39.0	0.087	10.5	0.134	>100	f > 100	20.000
05.00 p.m. - 06.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
06.00 p.m. - 07.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
07.00 p.m. - 08.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
08.00 p.m. - 09.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
09.00 p.m. - 10.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
10.00 p.m. - 11.00 p.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
11.00 p.m. - 12.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
12.00 a.m. - 01.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
01.00 a.m. - 02.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
02.00 a.m. - 03.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
03.00 a.m. - 04.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
04.00 a.m. - 05.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
05.00 a.m. - 06.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
06.00 a.m. - 07.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
07.00 a.m. - 08.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
08.00 a.m. - 09.00 a.m.	0.087	64.0	0.095	11.0	0.150	22.0	10 < f ≤ 50	8.000
09.00 a.m. - 10.00 a.m.	N/A	N/A	N/A	N/A	N/A	N/A	-	-
24 Hour Maximum	-	-	-	-	0.173	85.0	50 < f ≤ 100	18.500

Standard : Notification of National Environmental Board No. 37 B.E. 2553 (2010), Under the Enhancement and Conservation of National Environmental Quality Act B.E. 2535 (1992) published in the Royal Government Gazette No. 127 Special Part 69 ง, dated June 2 B.E. 2553 (2010)

Remark : N/A = Not Applicable (Frequency < 1.0 Hz, Velocity < 0.127 mm/sec),
PPV = Peak Particle Velocity, f = Frequency, mm/sec = millimeter/second, Hz = Hertz

Reviewed Signatory  Approved Signatory
บริษัท ทีเอ็นพี เอ็นไวรอนเมนต์ จำกัด

ANALYSIS REPORT

Data Provided by Customer

Customer Name : บริษัท ห้วยหิน สกาย ลีฟวิ่ง จำกัด
Project Name : โครงการ Vana Nava Residence Hua Hin
Address Project : ทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
ตำบลหนองแก อำเภอบางบัวทอง จังหวัดนนทบุรี
Sampling Point : บริเวณบ่อกักน้ำสุดท้ายก่อนระบายออกสู่ท่อระบายน้ำ
ริมทางหลวงแผ่นดินหมายเลข 4 (ถนนเพชรเกษม)
GPS. Coordinate : 47 P 604474 E 1385658 N
Sampling By : TNP ENVIRONMENT CO.,LTD.

Data Provided by Laboratory

Report No. : S68005
Sample No. : S68005/1
Sample Type : Waste Water
Sampling Date : 12 March 2025
Sampling Time : 10.57 a.m.
Received Date : 13 March 2025
Analytical Date : 13 – 27 March 2025
Report Date : 28 March 2025

Parameter	Unit	Analytical Method ^{1/}	Result	Standard
pH at 26.1°C	-	Electrometric Method (4500-H ⁺ B)	7.8	5.5-9.0
Total Dissolved Solids	mg/L	Dried at 180°C (2540 C)	184	≤ 1,000
Total Suspended Solids	mg/L	Dried at 103-105°C (2540 D)	< 5.0	≤ 40
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (4500-O G, 5210 B)	< 2.0	≤ 30
Settleable Solids	mL/L	Imhoff Cone (2540 F)	< 0.1	-
Sulfide	mg/L	Iodometric Method (4500-S ²⁻ F)	< 0.60	≤ 1.0
Fat, Oil and Grease	mg/L	Liquid-Liquid, Partition-Gravimetric Method (5520 B)	< 2.0	≤ 20
Total Kjeldahl Nitrogen ^{2/}	mg/L	APHA:4500-Norg (B) ^{3/}	< 0.28	≤ 35
Total Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B)	< 1.8	-
Fecal Coliform Bacteria	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E)	Not Detected	-
Sample Appearance		Clear/Little Sediment/Odorless		

Standard : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type B.

Remark ^{1/} Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24th edition 2023.

^{2/} Analyzed by Environment & Laboratory Co., Ltd. registration number Wo-029.

^{3/} Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd edition 2017.

* This item is out the scope ISO/IEC 17025:2017 Accreditation.

