

ภาคผนวกที่ 4

รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม

- เอกสาร 4-1 รายงานผลการวิเคราะห์คุณภาพอากาศในบรรยากาศ
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- เอกสาร 4-3 รายงานผลการตรวจวิเคราะห์คุณภาพอากาศจากปล่อง
- เอกสาร 4-4 รายงานผลการตรวจวิเคราะห์คุณภาพน้ำเสีย
- เอกสาร 4-5 รายงานผลการตรวจวัดระดับเสียงในบรรยากาศ
- เอกสาร 4-6 รายงานผลการตรวจวิเคราะห์คุณภาพอากาศในสถานประกอบการ
- เอกสาร 4-7 รายงานผลการตรวจวัดระดับเสียงในสถานประกอบการ
- เอกสาร 4-8 รายงานผลการตรวจวัดระดับความร้อนและความเร็วลมในสถานประกอบการ

เอกสาร 4-1

รายงานผลการวิเคราะห์คุณภาพอากาศในบรรยากาศ



Ref. No. AR053(1)-AR053(7)/05/24

Report No. 2405/078

65/1/67, 66/1/67

Ambient Air Quality Analysis Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong Date Received : 10 May 2024
Client Name/Address : G Steel Public Limited Company Date of Analysis : 10-24 May 2024
Sampling by : Thitinan Ruangram Date Reported : 27 May 2024
S.P.S. Consulting Service Co., Ltd.

Parameter	Sampling Method	Analytical Method	Ban Map Tong area								Standard
			May 2024								
			3-4	4-5	5-6	6-7	7-8	8-9	9-10		
PM ₁₀ (mg/m ³)	High Volume PM10 Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.014	0.012	0.035	0.011	0.031	0.019	0.028	Less than 0.12	

Remark:

Standard = Ambient Air Quality Standards, Notification of the National Environment Board No. 24, B.E. 2547

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.

(Preeyanuch Tasajan)

Laboratory Supervisor

27 / 05 / 24

----- End of Report -----



RY248/05/67

65/1/67, 66/1/67

Nitrogen Dioxide Level Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Ban Map Tong							Standard
	May 2024							
	3-4	4-5	5-6	6-7	7-8	8-9	9-10	
14:00-15:00	0.0317	0.0343	0.0338	0.0414	0.0376	0.0351	0.0348	-
15:00-16:00	0.0360	0.0413	0.0422	0.0395	0.0328	0.0367	0.0367	-
16:00-17:00	0.0437	0.0371	0.0372	0.0397	0.0457	0.0395	0.0347	-
17:00-18:00	0.0378	0.0372	0.0389	0.0373	0.0338	0.0450	0.0449	-
18:00-19:00	0.0354	0.0444	0.0328	0.0348	0.0395	0.0405	0.0382	-
19:00-20:00	0.0327	0.0298	0.0301	0.0362	0.0414	0.0350	0.0417	-
20:00-21:00	0.0232	0.0354	0.0277	0.0339	0.0385	0.0310	0.0367	-
21:00-22:00	0.0262	0.0291	0.0348	0.0345	0.0341	0.0331	0.0323	-
22:00-23:00	0.0287	0.0329	0.0347	0.0298	0.0278	0.0315	0.0277	-
23:00-00:00	0.0344	0.0310	0.0346	0.0294	0.0227	0.0352	0.0320	-
00:00-01:00	0.0286	0.0296	0.0367	0.0273	0.0334	0.0280	0.0276	-
01:00-02:00	0.0206	0.0288	0.0351	0.0240	0.0265	0.0257	0.0271	-
02:00-03:00	0.0235	0.0273	0.0309	0.0261	0.0267	0.0224	0.0341	-
03:00-04:00	0.0263	0.0272	0.0251	0.0286	0.0209	0.0293	0.0211	-
04:00-05:00	0.0299	0.0198	0.0273	0.0292	0.0242	0.0308	0.0289	-
05:00-06:00	0.0234	0.0270	0.0301	0.0296	0.0256	0.0294	0.0323	-
06:00-07:00	0.0272	0.0217	0.0290	0.0308	0.0193	0.0346	0.0309	-
07:00-08:00	0.0252	0.0255	0.0333	0.0293	0.0273	0.0390	0.0337	-
08:00-09:00	0.0289	0.0304	0.0308	0.0316	0.0310	0.0374	0.0348	-
09:00-10:00	0.0335	0.0358	0.0273	0.0268	0.0348	0.0395	0.0362	-
10:00-11:00	0.0341	0.0310	0.0316	0.0340	0.0395	0.0404	0.0329	-
11:00-12:00	0.0382	0.0340	0.0335	0.0371	0.0414	0.0414	0.0373	-
12:00-13:00	0.0393	0.0316	0.0406	0.0385	0.0432	0.0442	0.0315	-
13:00-14:00	0.0329	0.0335	0.0356	0.0395	0.0395	0.0433	0.0344	-
Max 1 hr [mg/m ³]	0.0437	0.0444	0.0422	0.0414	0.0457	0.0450	0.0449	Less Than 0.32 [mg/m ³]
Average 24 hr [mg/m ³]	0.0309	0.0315	0.0331	0.0329	0.0328	0.0353	0.0334	-
Analyzer Data	Analyzer No. : NO _x -R04 Brand : API							-
	Model : 200E Serial No. : 4411							

Remark:

Standard = Ambient Air Quality Standards (Nitrogen Dioxide), Notification of the National Environment Board, No. 33, B.E. 2552 (2009)
Sampling Method = Chemiluminescence Method

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor
14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Sulfur Dioxide Analysis Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Ban Map Tong							Standard
	May 2024							
	3-4	4-5	5-6	6-7	7-8	8-9	9-10	
14:00-15:00	0.0044	0.0054	0.0057	0.0063	0.0060	0.0063	0.0048	-
15:00-16:00	0.0048	0.0060	0.0053	0.0065	0.0052	0.0052	0.0052	-
16:00-17:00	0.0055	0.0056	0.0048	0.0068	0.0055	0.0048	0.0063	-
17:00-18:00	0.0051	0.0060	0.0050	0.0052	0.0065	0.0059	0.0051	-
18:00-19:00	0.0058	0.0061	0.0045	0.0049	0.0060	0.0063	0.0047	-
19:00-20:00	0.0071	0.0053	0.0042	0.0055	0.0056	0.0052	0.0052	-
20:00-21:00	0.0063	0.0059	0.0047	0.0055	0.0055	0.0061	0.0057	-
21:00-22:00	0.0058	0.0055	0.0050	0.0051	0.0053	0.0058	0.0049	-
22:00-23:00	0.0056	0.0049	0.0052	0.0055	0.0060	0.0065	0.0054	-
23:00-00:00	0.0058	0.0052	0.0050	0.0051	0.0062	0.0054	0.0061	-
00:00-01:00	0.0051	0.0058	0.0050	0.0048	0.0056	0.0050	0.0055	-
01:00-02:00	0.0050	0.0061	0.0054	0.0055	0.0060	0.0047	0.0050	-
02:00-03:00	0.0052	0.0058	0.0052	0.0046	0.0058	0.0044	0.0047	-
03:00-04:00	0.0051	0.0059	0.0050	0.0046	0.0055	0.0039	0.0042	-
04:00-05:00	0.0053	0.0052	0.0056	0.0054	0.0062	0.0042	0.0055	-
05:00-06:00	0.0046	0.0059	0.0055	0.0051	0.0047	0.0048	0.0052	-
06:00-07:00	0.0051	0.0065	0.0060	0.0058	0.0049	0.0056	0.0049	-
07:00-08:00	0.0049	0.0079	0.0062	0.0053	0.0059	0.0066	0.0054	-
08:00-09:00	0.0052	0.0065	0.0056	0.0063	0.0047	0.0054	0.0048	-
09:00-10:00	0.0060	0.0055	0.0052	0.0054	0.0063	0.0050	0.0055	-
10:00-11:00	0.0048	0.0050	0.0049	0.0058	0.0052	0.0052	0.0065	-
11:00-12:00	0.0058	0.0054	0.0054	0.0055	0.0054	0.0048	0.0060	-
12:00-13:00	0.0052	0.0062	0.0048	0.0063	0.0065	0.0051	0.0055	-
13:00-14:00	0.0055	0.0054	0.0055	0.0054	0.0071	0.0047	0.0052	-
Max 1 hr [mg/m ³]	0.0071	0.0079	0.0062	0.0068	0.0071	0.0066	0.0065	Less Than 0.78 ^[1] [mg/m ³]
Average 24 hr [mg/m ³]	0.0054	0.0058	0.0052	0.0055	0.0057	0.0053	0.0053	Less Than 0.30 ^[2] [mg/m ³]
Analyzer Data	Analyzer No. : SO ₂ -R01			Brand : API			-	
	Model : 100E			Serial No. : 3415				

Remark:

Standard^[1] = Ambient Air Quality Standards (Sulfur Dioxide), Notification of the National Environment Board, No. 21, B.E. 2544 (2001)
Standard^[2] = Ambient Air Quality Standards, Notification of the National Environment Board, No. 24, B.E. 2547 (2004)
Sampling Method = UV Fluorescence Method

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor
14 / 05 / 24



Ref. No. AR054(1)-AR054(7)/05/24

Report No. 2405/078

65/1/67, 66/1/67

Ambient Air Quality Analysis Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong Date Received : 10 May 2024
Client Name/Address : G Steel Public Limited Company Date of Analysis : 10-24 May 2024
Sampling by : Thitinan Ruangram Date Reported : 27 May 2024
S.P.S. Consulting Service Co., Ltd.

Parameter	Sampling Method	Analytical Method	Ban Krachet Lang area								Standard
			May 2024								
			3-4	4-5	5-6	6-7	7-8	8-9	9-10		
PM ₁₀ (mg/m ³)	High Volume PM10 Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.011	0.013	0.012	0.031	0.024	0.018	0.014	Less than 0.12	

Remark:

Standard = Ambient Air Quality Standards, Notification of the National Environment Board No. 24, B.E. 2547

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Preeyanuch Tasajan)

Laboratory Supervisor

27 / 05 / 24

----- End of Report -----



RY248/05/67

65/1/67, 66/1/67

Nitrogen Dioxide Level Report

Project : HRC & SKP
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 3-10 May 2024
Date Reported : 14 May 2024

Time	Ban Krachet Lang							Standard
	May 2024							
	3-4	4-5	5-6	6-7	7-8	8-9	9-10	
14:00-15:00	0.0262	0.0406	0.0425	0.0389	0.0344	0.0364	0.0335	-
15:00-16:00	0.0277	0.0418	0.0376	0.0362	0.0365	0.0303	0.0348	-
16:00-17:00	0.0342	0.0344	0.0349	0.0320	0.0400	0.0325	0.0367	-
17:00-18:00	0.0376	0.0318	0.0324	0.0360	0.0393	0.0339	0.0381	-
18:00-19:00	0.0423	0.0294	0.0299	0.0423	0.0408	0.0350	0.0402	-
19:00-20:00	0.0365	0.0307	0.0286	0.0348	0.0382	0.0325	0.0365	-
20:00-21:00	0.0335	0.0314	0.0269	0.0307	0.0388	0.0295	0.0307	-
21:00-22:00	0.0325	0.0290	0.0256	0.0286	0.0346	0.0267	0.0282	-
22:00-23:00	0.0310	0.0278	0.0230	0.0262	0.0305	0.0292	0.0269	-
23:00-00:00	0.0280	0.0254	0.0243	0.0237	0.0280	0.0265	0.0256	-
00:00-01:00	0.0248	0.0258	0.0375	0.0235	0.0258	0.0248	0.0239	-
01:00-02:00	0.0275	0.0280	0.0218	0.0239	0.0230	0.0237	0.0209	-
02:00-03:00	0.0295	0.0272	0.0262	0.0215	0.0241	0.0248	0.0224	-
03:00-04:00	0.0269	0.0248	0.0282	0.0212	0.0218	0.0256	0.0243	-
04:00-05:00	0.0252	0.0244	0.0272	0.0235	0.0268	0.0245	0.0246	-
05:00-06:00	0.0278	0.0246	0.0288	0.0243	0.0293	0.0269	0.0280	-
06:00-07:00	0.0303	0.0253	0.0316	0.0238	0.0292	0.0282	0.0314	-
07:00-08:00	0.0283	0.0267	0.0324	0.0298	0.0307	0.0280	0.0341	-
08:00-09:00	0.0331	0.0284	0.0350	0.0295	0.0316	0.0300	0.0369	-
09:00-10:00	0.0346	0.0318	0.0360	0.0303	0.0339	0.0310	0.0403	-
10:00-11:00	0.0361	0.0342	0.0410	0.0330	0.0416	0.0331	0.0378	-
11:00-12:00	0.0401	0.0371	0.0350	0.0341	0.0363	0.0344	0.0363	-
12:00-13:00	0.0378	0.0382	0.0365	0.0367	0.0314	0.0369	0.0373	-
13:00-14:00	0.0373	0.0412	0.0401	0.0382	0.0356	0.0410	0.0401	-
Max 1 hr [mg/m ³]	0.0423	0.0418	0.0425	0.0423	0.0416	0.0410	0.0403	Less Than 0.32 [mg/m ³]
Average 24 hr [mg/m ³]	0.0320	0.0308	0.0318	0.0301	0.0326	0.0302	0.0321	-
Analyzer Data	Analyzer No. : NO _x -R06				Brand : API			-
	Model : 200E				Serial No. : 4466			

Remark:

Standard = Ambient Air Quality Standards (Nitrogen Dioxide), Notification of the National Environment Board, No. 33, B.E. 2552 (2009)
Sampling Method = Chemiluminescence Method

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Sulfur Dioxide Analysis Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Ban Krachet Lang							Standard
	May 2024							
	3-4	4-5	5-6	6-7	7-8	8-9	9-10	
14:00-15:00	0.0049	0.0052	0.0048	0.0060	0.0047	0.0049	0.0044	-
15:00-16:00	0.0055	0.0044	0.0051	0.0057	0.0049	0.0053	0.0046	-
16:00-17:00	0.0063	0.0043	0.0052	0.0046	0.0052	0.0060	0.0044	-
17:00-18:00	0.0071	0.0042	0.0059	0.0053	0.0048	0.0076	0.0043	-
18:00-19:00	0.0081	0.0045	0.0049	0.0063	0.0047	0.0063	0.0049	-
19:00-20:00	0.0065	0.0038	0.0046	0.0050	0.0064	0.0056	0.0044	-
20:00-21:00	0.0050	0.0056	0.0063	0.0065	0.0062	0.0053	0.0050	-
21:00-22:00	0.0046	0.0059	0.0044	0.0047	0.0057	0.0049	0.0053	-
22:00-23:00	0.0040	0.0061	0.0039	0.0051	0.0050	0.0051	0.0064	-
23:00-00:00	0.0039	0.0044	0.0042	0.0052	0.0051	0.0049	0.0065	-
00:00-01:00	0.0038	0.0043	0.0052	0.0053	0.0043	0.0046	0.0044	-
01:00-02:00	0.0042	0.0057	0.0046	0.0050	0.0044	0.0044	0.0046	-
02:00-03:00	0.0047	0.0042	0.0048	0.0051	0.0045	0.0043	0.0040	-
03:00-04:00	0.0051	0.0043	0.0057	0.0047	0.0044	0.0045	0.0043	-
04:00-05:00	0.0046	0.0051	0.0053	0.0049	0.0047	0.0048	0.0045	-
05:00-06:00	0.0050	0.0046	0.0059	0.0047	0.0049	0.0046	0.0048	-
06:00-07:00	0.0045	0.0052	0.0051	0.0050	0.0051	0.0050	0.0053	-
07:00-08:00	0.0042	0.0054	0.0050	0.0049	0.0053	0.0053	0.0054	-
08:00-09:00	0.0043	0.0057	0.0056	0.0053	0.0058	0.0049	0.0058	-
09:00-10:00	0.0044	0.0061	0.0060	0.0061	0.0052	0.0051	0.0059	-
10:00-11:00	0.0052	0.0048	0.0044	0.0053	0.0049	0.0056	0.0063	-
11:00-12:00	0.0056	0.0046	0.0056	0.0048	0.0055	0.0055	0.0074	-
12:00-13:00	0.0046	0.0048	0.0050	0.0049	0.0068	0.0052	0.0059	-
13:00-14:00	0.0056	0.0062	0.0044	0.0050	0.0060	0.0047	0.0051	-
Max 1 hr [mg/m ³]	0.0081	0.0062	0.0063	0.0065	0.0068	0.0076	0.0074	Less Than 0.78 ^[1] [mg/m ³]
Average 24 hr [mg/m ³]	0.0051	0.0050	0.0051	0.0052	0.0052	0.0052	0.0052	Less Than 0.30 ^[2] [mg/m ³]
Analyzer Data	Analyzer No. : SO ₂ -R08			Brand : TELEDYNE			-	
	Model : TML-60			Serial No. : TRS1064				

Remark:

Standard^[1] = Ambient Air Quality Standards (Sulfur Dioxide), Notification of the National Environment Board, No. 21, B.E. 2544 (2001)
Standard^[2] = Ambient Air Quality Standards, Notification of the National Environment Board, No. 24, B.E. 2547 (2004)
Sampling Method = UV Fluorescence Method

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

[Redacted Signature]

(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



Ref. No. AR055(1)-AR055(7)/05/24

Report No. 2405/078

65/1/67, 66/1/67

Ambient Air Quality Analysis Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong Date Received : 10 May 2024
Client Name/Address : G Steel Public Limited Company Date of Analysis : 10-24 May 2024
Sampling by : Thitinan Ruangram Date Reported : 27 May 2024
S.P.S. Consulting Service Co., Ltd.

Parameter	Sampling Method	Analytical Method	Ban Nong Lalok area								Standard
			May 2024								
			3-4	4-5	5-6	6-7	7-8	8-9	9-10		
PM ₁₀ (mg/m ³)	High Volume PM10 Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.011	0.013	0.017	0.041	0.012	0.014	0.013	Less than 0.12	

Remark:

Standard = Ambient Air Quality Standards, Notification of the National Environment Board No. 24, B.E. 2547

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.

(Preeyanuch Tasajan)

Laboratory Supervisor

27 / 05 / 24

----- End of Report -----



RY248/05/67

65/1/67, 66/1/67

Nitrogen Dioxide Level Report

Project : HRC & SKP
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 3-10 May 2024
Date Reported : 14 May 2024

Time	Ban Nong Lalok							Standard
	May 2024							
	3-4	4-5	5-6	6-7	7-8	8-9	9-10	
15:00-16:00	0.0446	0.0404	0.0394	0.0474	0.0404	0.0413	0.0482	-
16:00-17:00	0.0474	0.0477	0.0416	0.0485	0.0416	0.0492	0.0435	-
17:00-18:00	0.0468	0.0444	0.0465	0.0491	0.0435	0.0488	0.0457	-
18:00-19:00	0.0457	0.0405	0.0397	0.0486	0.0431	0.0446	0.0421	-
19:00-20:00	0.0450	0.0423	0.0433	0.0467	0.0447	0.0436	0.0472	-
20:00-21:00	0.0435	0.0413	0.0468	0.0433	0.0442	0.0416	0.0446	-
21:00-22:00	0.0427	0.0391	0.0424	0.0379	0.0493	0.0405	0.0457	-
22:00-23:00	0.0414	0.0303	0.0406	0.0365	0.0411	0.0395	0.0409	-
23:00-00:00	0.0436	0.0319	0.0361	0.0334	0.0377	0.0410	0.0341	-
00:00-01:00	0.0366	0.0217	0.0293	0.0404	0.0398	0.0356	0.0309	-
01:00-02:00	0.0349	0.0329	0.0271	0.0400	0.0369	0.0335	0.0281	-
02:00-03:00	0.0259	0.0338	0.0294	0.0363	0.0385	0.0360	0.0352	-
03:00-04:00	0.0316	0.0323	0.0293	0.0326	0.0434	0.0309	0.0347	-
04:00-05:00	0.0347	0.0252	0.0325	0.0379	0.0376	0.0336	0.0309	-
05:00-06:00	0.0414	0.0303	0.0293	0.0438	0.0337	0.0346	0.0382	-
06:00-07:00	0.0482	0.0319	0.0320	0.0435	0.0329	0.0325	0.0403	-
07:00-08:00	0.0436	0.0395	0.0374	0.0433	0.0389	0.0424	0.0418	-
08:00-09:00	0.0493	0.0425	0.0416	0.0468	0.0406	0.0438	0.0425	-
09:00-10:00	0.0485	0.0415	0.0420	0.0486	0.0435	0.0446	0.0436	-
10:00-11:00	0.0491	0.0419	0.0468	0.0427	0.0507	0.0468	0.0442	-
11:00-12:00	0.0497	0.0446	0.0420	0.0457	0.0429	0.0455	0.0454	-
12:00-13:00	0.0477	0.0449	0.0442	0.0488	0.0389	0.0478	0.0467	-
13:00-14:00	0.0455	0.0470	0.0472	0.0450	0.0439	0.0436	0.0453	-
14:00-15:00	0.0386	0.0418	0.0433	0.0401	0.0486	0.0476	0.0468	-
Max 1 hr [mg/m ³]	0.0497	0.0477	0.0472	0.0491	0.0507	0.0492	0.0482	Less Than 0.32 [mg/m ³]
Average 24 hr [mg/m ³]	0.0428	0.0379	0.0387	0.0428	0.0415	0.0412	0.0411	-
Analyzer Data	Analyzer No. : NO _x -R03			Brand : API			-	
	Model : 200E			Serial No. : 4410				

Remark:

Standard = Ambient Air Quality Standards (Nitrogen Dioxide), Notification of the National Environment Board, No. 33, B.E. 2552 (2009)
Sampling Method = Chemiluminescence Method

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Sulfur Dioxide Analysis Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Ban Nong Lalok							Standard
	May 2024							
	3-4	4-5	5-6	6-7	7-8	8-9	9-10	
15:00-16:00	0.0084	0.0086	0.0081	0.0084	0.0089	0.0079	0.0084	-
16:00-17:00	0.0089	0.0084	0.0079	0.0079	0.0094	0.0082	0.0086	-
17:00-18:00	0.0081	0.0089	0.0081	0.0081	0.0092	0.0077	0.0079	-
18:00-19:00	0.0086	0.0081	0.0086	0.0084	0.0084	0.0081	0.0081	-
19:00-20:00	0.0079	0.0089	0.0084	0.0079	0.0081	0.0079	0.0085	-
20:00-21:00	0.0078	0.0084	0.0073	0.0074	0.0070	0.0081	0.0081	-
21:00-22:00	0.0075	0.0079	0.0076	0.0081	0.0073	0.0076	0.0074	-
22:00-23:00	0.0073	0.0078	0.0071	0.0074	0.0076	0.0084	0.0076	-
23:00-00:00	0.0076	0.0073	0.0068	0.0071	0.0070	0.0076	0.0073	-
00:00-01:00	0.0065	0.0068	0.0065	0.0063	0.0068	0.0071	0.0068	-
01:00-02:00	0.0063	0.0065	0.0060	0.0058	0.0061	0.0065	0.0066	-
02:00-03:00	0.0066	0.0063	0.0063	0.0060	0.0060	0.0063	0.0062	-
03:00-04:00	0.0060	0.0060	0.0069	0.0061	0.0065	0.0058	0.0068	-
04:00-05:00	0.0066	0.0065	0.0058	0.0058	0.0062	0.0060	0.0060	-
05:00-06:00	0.0065	0.0060	0.0063	0.0069	0.0064	0.0057	0.0065	-
06:00-07:00	0.0060	0.0063	0.0067	0.0068	0.0060	0.0055	0.0068	-
07:00-08:00	0.0068	0.0058	0.0068	0.0065	0.0068	0.0063	0.0065	-
08:00-09:00	0.0071	0.0060	0.0071	0.0073	0.0073	0.0065	0.0060	-
09:00-10:00	0.0073	0.0065	0.0073	0.0079	0.0076	0.0068	0.0073	-
10:00-11:00	0.0075	0.0071	0.0076	0.0075	0.0081	0.0079	0.0076	-
11:00-12:00	0.0076	0.0079	0.0080	0.0092	0.0084	0.0086	0.0082	-
12:00-13:00	0.0081	0.0084	0.0084	0.0084	0.0079	0.0097	0.0090	-
13:00-14:00	0.0080	0.0094	0.0081	0.0081	0.0087	0.0089	0.0086	-
14:00-15:00	0.0085	0.0089	0.0079	0.0083	0.0084	0.0094	0.0081	-
Max 1 hr [ppm]	0.0089	0.0094	0.0086	0.0092	0.0094	0.0097	0.0090	Less Than 0.30 ^[1] [ppm]
Average 24 hr [ppm]	0.0074	0.0074	0.0073	0.0074	0.0075	0.0074	0.0075	Less Than 0.12 ^[2] [ppm]
Analyzer Data	Analyzer No. : SO ₂ -R07 Brand : TELEDYNE							-
	Model : TML-60 Serial No. : TRS1068							

Remark:

Standard^[1] = Ambient Air Quality Standards (Sulfur Dioxide), Notification of the National Environment Board, No. 21, B.E. 2544 (2001)
Standard^[2] = Ambient Air Quality Standards, Notification of the National Environment Board, No. 24, B.E. 2547 (2004)
Sampling Method = UV Fluorescence Method

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor
14 / 05 / 24

เอกสาร 4-2

รายงานผลการตรวจวัดความเร็วและทิศทางการไหล



RY248/05/67
65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Wind Speed Wind Direction	Ban Map Tong				
	Percent of Wind Speed (%)				
	Light Air	Light Breeze	Gentle Breeze	Moderate Breeze	Fresh Breeze
	0.3-1.6 m/s (1-5 km/hr)	1.7-3.3 m/s (6-11 km/hr)	3.4-5.5 m/s (12-19 km/hr)	5.6-8.0 m/s (20-28 km/hr)	8.1-10.8 m/s (29-38 km/hr)
N (349°-11°)	-	-	-	-	-
NNE (11°-34°)	-	-	-	-	-
NE (34°-56°)	-	-	-	-	-
ENE (56°-79°)	0.595	-	-	-	-
E (79°-102°)	4.167	0.595	-	-	-
ESE (102°-124°)	20.833	5.952	-	-	-
SE (124°-146°)	15.476	0.595	-	-	-
SSE (146°-169°)	4.167	-	-	-	-
S (169°-191°)	8.929	0.595	-	-	-
SSW (191°-214°)	1.786	-	-	-	-
SW (214°-236°)	4.762	-	-	-	-
WSW (236°-259°)	3.571	-	-	-	-
W (259°-281°)	17.857	2.976	-	-	-
WNW (281°-304°)	3.571	1.786	-	-	-
NW (304°-326°)	0.595	-	-	-	-
NNW (326°-349°)	1.190	-	-	-	-
Total	87.499	12.499	0.000	0.000	0.000
Calm <0.3 m/s (<1 km/hr)	0.000				

Reported results refer to measurement time only.
Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 3-10 May 2024

Date Reported : 14 May 2024

Time	Ban Map Tong											
	May 2024											
	3-4			4-5			5-6			6-7		
	WS		WD	WS		WD	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr		m/s	km/hr		m/s	km/hr	
14:00-15:00	0.4	1.6	S	1.3	4.8	ESE	0.9	3.2	W	1.8	6.4	WNW
15:00-16:00	1.3	4.8	SSE	1.8	6.4	SE	1.3	4.8	ESE	1.8	6.4	W
16:00-17:00	1.3	4.8	W	1.3	4.8	WNW	1.3	4.8	E	1.3	4.8	ESE
17:00-18:00	1.3	4.8	E	1.8	6.4	ESE	0.9	3.2	ESE	1.3	4.8	ESE
18:00-19:00	1.3	4.8	ESE	1.3	4.8	ESE	0.9	3.2	SE	0.9	3.2	SE
19:00-20:00	0.4	1.6	ESE	0.9	3.2	SE	0.4	1.6	ESE	0.9	3.2	E
20:00-21:00	0.4	1.6	ESE	0.9	3.2	ESE	1.3	4.8	ESE	0.4	1.6	SSW
21:00-22:00	0.9	3.2	E	1.3	4.8	ESE	0.4	1.6	ESE	0.9	3.2	SSE
22:00-23:00	0.9	3.2	ESE	0.9	3.2	SE	0.9	3.2	ESE	1.3	4.8	SE
23:00-00:00	0.4	1.6	SE	1.3	4.8	SE	0.9	3.2	ESE	0.4	1.6	SE
00:00-01:00	0.9	3.2	ESE	0.4	1.6	ESE	0.4	1.6	ESE	0.4	1.6	SE
01:00-02:00	0.4	1.6	ESE	0.9	3.2	S	1.8	6.4	S	0.4	1.6	SSE
02:00-03:00	0.9	3.2	ESE	0.9	3.2	SSW	0.9	3.2	S	0.4	1.6	SE
03:00-04:00	0.4	1.6	S	1.3	4.8	S	1.3	4.8	S	0.4	1.6	ESE
04:00-05:00	0.4	1.6	S	0.9	3.2	SE	0.4	1.6	SW	0.4	1.6	E
05:00-06:00	0.9	3.2	SE	0.4	1.6	SE	0.4	1.6	WSW	0.9	3.2	ESE
06:00-07:00	0.9	3.2	SE	0.9	3.2	SSE	1.3	4.8	SE	0.4	1.6	ESE
07:00-08:00	0.4	1.6	SE	1.3	4.8	SSE	0.9	3.2	SE	0.9	3.2	SE
08:00-09:00	0.9	3.2	SE	0.9	3.2	SE	0.4	1.6	ESE	1.3	4.8	ESE
09:00-10:00	1.3	4.8	ESE	1.3	4.8	ESE	0.9	3.2	WNW	0.9	3.2	E
10:00-11:00	1.8	6.4	E	1.8	6.4	ESE	0.4	1.6	SE	0.4	1.6	ESE
11:00-12:00	1.8	6.4	ESE	1.3	4.8	SW	0.9	3.2	WNW	0.4	1.6	NNW
12:00-13:00	1.8	6.4	ESE	1.3	4.8	E	1.3	4.8	WNW	0.9	3.2	NNW
13:00-14:00	1.8	6.4	ESE	1.8	6.4	ESE	0.9	3.2	W	0.4	1.6	SE
Temperature Average (°C)	32.1			32.4			32.6			30.5		
Barometric Pressure Average (mmHg)	756.98			756.75			756.56			757.13		
Sky Condition	Fair			Fair			Fair			Cloudy and Rainy		

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Ban Map Tong								
	May 2024								
	7-8			8-9			9-10		
	WS		WD	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr		m/s	km/hr	
14:00-15:00	1.3	4.8	SE	1.3	4.8	W	1.3	4.8	W
15:00-16:00	0.9	3.2	SE	1.8	6.4	WNW	1.8	6.4	W
16:00-17:00	0.4	1.6	W	1.8	6.4	WNW	1.8	6.4	W
17:00-18:00	0.4	1.6	WNW	1.3	4.8	W	0.9	3.2	W
18:00-19:00	0.4	1.6	SE	1.3	4.8	W	0.4	1.6	WNW
19:00-20:00	0.9	3.2	ENE	0.4	1.6	W	1.3	4.8	SSE
20:00-21:00	0.9	3.2	SE	0.9	3.2	W	1.8	6.4	ESE
21:00-22:00	0.9	3.2	S	0.9	3.2	W	1.3	4.8	NW
22:00-23:00	0.4	1.6	S	0.4	1.6	W	0.9	3.2	W
23:00-00:00	0.9	3.2	SW	0.9	3.2	W	0.4	1.6	W
00:00-01:00	0.4	1.6	S	0.4	1.6	W	0.9	3.2	W
01:00-02:00	0.9	3.2	S	1.3	4.8	W	0.4	1.6	W
02:00-03:00	0.9	3.2	SW	1.3	4.8	W	0.9	3.2	W
03:00-04:00	0.4	1.6	S	0.9	3.2	W	0.4	1.6	W
04:00-05:00	0.4	1.6	SW	0.9	3.2	WSW	0.4	1.6	WSW
05:00-06:00	0.9	3.2	WSW	0.4	1.6	WSW	0.9	3.2	SW
06:00-07:00	0.9	3.2	S	0.4	1.6	SW	0.9	3.2	SW
07:00-08:00	1.3	4.8	S	0.9	3.2	W	1.3	4.8	W
08:00-09:00	1.3	4.8	SSW	0.4	1.6	SSE	1.3	4.8	W
09:00-10:00	0.9	3.2	S	0.4	1.6	ESE	0.9	3.2	W
10:00-11:00	0.4	1.6	WSW	0.9	3.2	ESE	0.9	3.2	ESE
11:00-12:00	0.9	3.2	ESE	0.9	3.2	ESE	1.8	6.4	ESE
12:00-13:00	1.3	4.8	W	1.8	6.4	W	1.8	6.4	ESE
13:00-14:00	1.3	4.8	W	2.2	8.0	W	1.8	6.4	ESE
Temperature Average (°C)	27.1			30.2			29.1		
Barometric Pressure Average (mmHg)	757.46			757.24			757.35		
Sky Condition	Cloudy and Rainy			Cloudy and Rainy			Cloudy and Rainy		

Reported results refer to measurement time only.

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(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



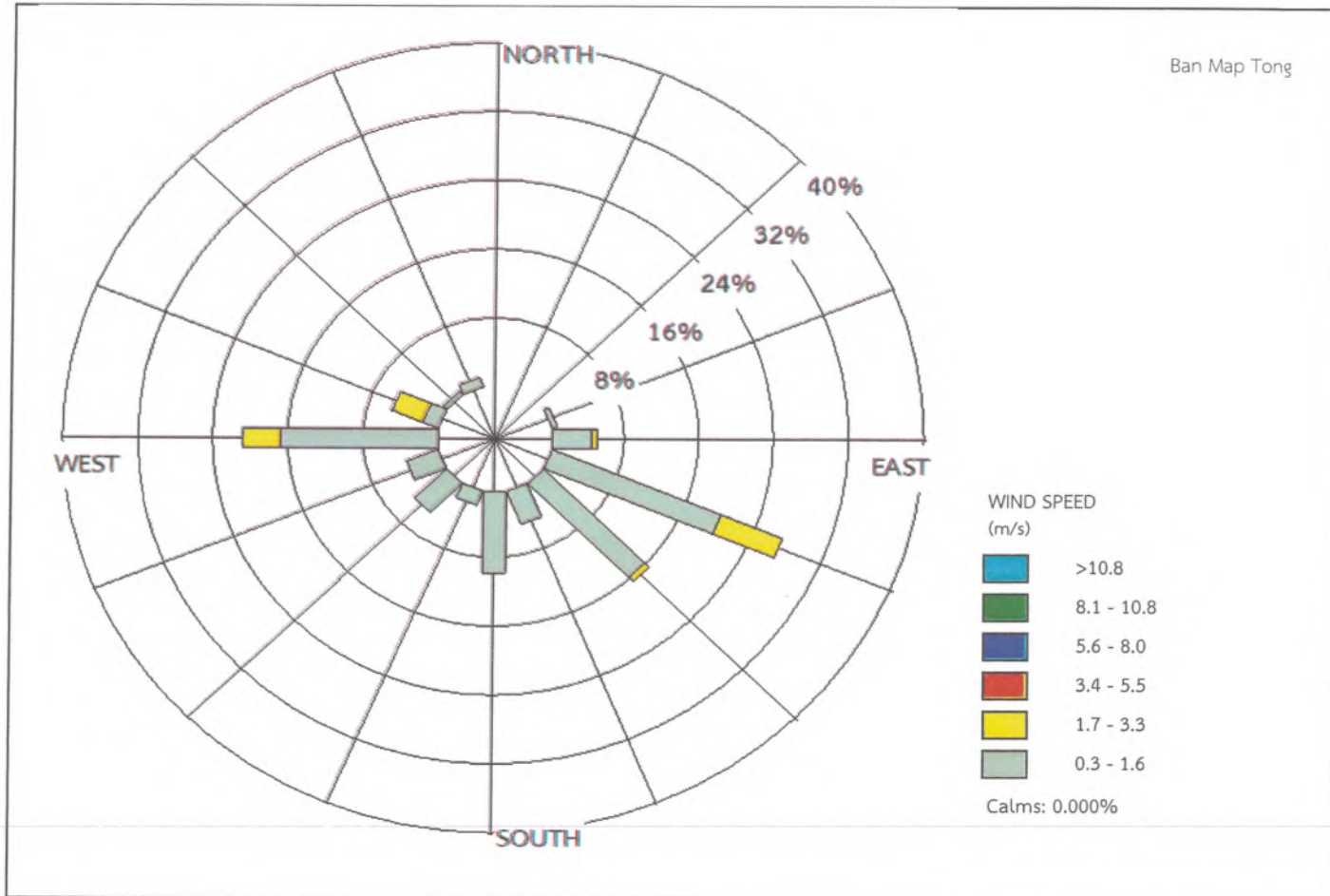
RY248/05/67

65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 3-10 May 2024
Date Reported : 14 May 2024



Reported results refer to measurement time only.

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(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Wind Speed Wind Direction	Ban Krachet Lang				
	Percent of Wind Speed (%)				
	Light Air	Light Breeze	Gentle Breeze	Moderate Breeze	Fresh Breeze
	0.3-1.6 m/s (1-5 km/hr)	1.7-3.3 m/s (6-11 km/hr)	3.4-5.5 m/s (12-19 km/hr)	5.6-8.0 m/s (20-28 km/hr)	8.1-10.8 m/s (29-38 km/hr)
N (349°-11°)	2.976	-	-	-	-
NNE (11°-34°)	2.381	-	-	-	-
NE (34°-56°)	1.786	-	-	-	-
ENE (56°-79°)	0.595	-	-	-	-
E (79°-102°)	2.381	-	-	-	-
ESE (102°-124°)	11.905	1.786	-	-	-
SE (124°-146°)	25.596	17.262	-	-	-
SSE (146°-169°)	5.952	8.929	-	-	-
S (169°-191°)	2.381	7.738	-	-	-
SSW (191°-214°)	-	-	-	-	-
SW (214°-236°)	1.190	0.595	-	-	-
WSW (236°-259°)	0.595	-	-	-	-
W (259°-281°)	-	-	-	-	-
WNW (281°-304°)	0.595	-	-	-	-
NW (304°-326°)	5.357	-	-	-	-
NNW (326°-349°)	-	-	-	-	-
Total	63.690	36.310	0.000	0.000	0.000
Calm <0.3 m/s (<1 km/hr)	0.000				

Reported results refer to measurement time only.

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(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Ban Krachet Lang											
	May 2024											
	3-4			4-5			5-6			6-7		
	WS		WD	WS		WD	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr		m/s	km/hr		m/s	km/hr	
14:00-15:00	1.8	6.4	SE	2.7	9.7	SE	2.7	9.7	S	2.2	8.0	SE
15:00-16:00	1.8	6.4	SE	2.7	9.7	SE	2.7	9.7	S	2.2	8.0	SSE
16:00-17:00	1.8	6.4	SE	2.7	9.7	SE	2.7	9.7	S	1.8	6.4	SSE
17:00-18:00	1.8	6.4	SSE	3.1	11.3	SE	2.2	8.0	S	1.8	6.4	SSE
18:00-19:00	1.8	6.4	SSE	2.2	8.0	SE	1.8	6.4	SE	2.2	8.0	SSE
19:00-20:00	1.3	4.8	SSE	2.2	8.0	SE	1.8	6.4	SE	1.8	6.4	SSE
20:00-21:00	1.8	6.4	SSE	2.2	8.0	SSE	1.8	6.4	SE	1.3	4.8	SSE
21:00-22:00	0.9	3.2	SSE	2.2	8.0	SSE	1.3	4.8	SE	1.8	6.4	SSE
22:00-23:00	0.9	3.2	SSE	1.3	4.8	SSE	1.8	6.4	ESE	0.9	3.2	SSE
23:00-00:00	0.9	3.2	SE	1.3	4.8	SSE	0.9	3.2	ESE	1.8	6.4	SSE
00:00-01:00	0.9	3.2	SE	0.9	3.2	SSE	1.8	6.4	ESE	1.8	6.4	SSE
01:00-02:00	1.3	4.8	SE	1.3	4.8	SSE	1.8	6.4	ESE	2.2	8.0	SE
02:00-03:00	0.9	3.2	SE	1.3	4.8	SE	0.9	3.2	ESE	1.3	4.8	SE
03:00-04:00	0.4	1.6	SE	1.3	4.8	SE	1.3	4.8	ESE	1.3	4.8	SE
04:00-05:00	0.9	3.2	SE	1.8	6.4	SE	0.9	3.2	SE	1.3	4.8	SE
05:00-06:00	0.4	1.6	S	1.3	4.8	SE	0.4	1.6	SE	1.3	4.8	SE
06:00-07:00	0.4	1.6	S	1.3	4.8	SE	0.4	1.6	SE	0.4	1.6	ESE
07:00-08:00	1.3	4.8	S	1.3	4.8	SE	0.4	1.6	SE	0.4	1.6	N
08:00-09:00	1.3	4.8	S	1.8	6.4	SE	0.9	3.2	SE	1.8	6.4	SE
09:00-10:00	1.8	6.4	S	2.2	8.0	SE	1.8	6.4	SE	0.4	1.6	SE
10:00-11:00	2.2	8.0	S	1.8	6.4	S	1.8	6.4	SE	0.4	1.6	ENE
11:00-12:00	2.2	8.0	S	1.8	6.4	S	1.8	6.4	SE	0.4	1.6	N
12:00-13:00	2.7	9.7	S	2.2	8.0	S	1.8	6.4	SSE	0.9	3.2	N
13:00-14:00	2.7	9.7	S	2.2	8.0	S	2.2	8.0	SE	0.9	3.2	N
Temperature Average (°C)	31.6			32.2			32.6			30.0		
Barometric Pressure Average (mmHg)	756.63			756.59			756.41			756.90		
Sky Condition	Fair			Fair			Fair			Cloudy and Rainy		

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lanseththa)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Ban Krachet Lang								
	May 2024								
	7-8			8-9			9-10		
	WS		WD	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr		m/s	km/hr	
14:00-15:00	0.9	3.2	NNE	2.2	8.0	SE	1.3	4.8	SE
15:00-16:00	0.9	3.2	E	1.8	6.4	SSE	1.8	6.4	SE
16:00-17:00	0.9	3.2	E	1.3	4.8	SE	2.2	8.0	SE
17:00-18:00	1.3	4.8	E	1.8	6.4	SW	1.3	4.8	SE
18:00-19:00	1.3	4.8	NNE	0.9	3.2	SW	0.4	1.6	N
19:00-20:00	1.3	4.8	ESE	0.9	3.2	SSE	0.4	1.6	SE
20:00-21:00	0.9	3.2	ESE	0.9	3.2	SE	0.9	3.2	NNE
21:00-22:00	0.9	3.2	ESE	0.9	3.2	SE	0.9	3.2	NNE
22:00-23:00	0.4	1.6	ESE	0.9	3.2	SE	0.9	3.2	NW
23:00-00:00	0.4	1.6	ESE	0.9	3.2	ESE	0.9	3.2	NW
00:00-01:00	0.4	1.6	ESE	0.4	1.6	ESE	0.4	1.6	NW
01:00-02:00	0.4	1.6	ESE	0.4	1.6	ESE	0.4	1.6	NW
02:00-03:00	0.4	1.6	ESE	0.4	1.6	ESE	0.4	1.6	NW
03:00-04:00	0.4	1.6	SE	0.4	1.6	ESE	0.4	1.6	NW
04:00-05:00	0.4	1.6	SE	0.4	1.6	SE	0.4	1.6	NW
05:00-06:00	0.4	1.6	SE	0.4	1.6	SE	0.4	1.6	NW
06:00-07:00	0.4	1.6	SE	1.3	4.8	SE	0.4	1.6	NW
07:00-08:00	0.9	3.2	SE	1.3	4.8	ESE	0.9	3.2	SE
08:00-09:00	0.9	3.2	NE	1.3	4.8	ESE	0.9	3.2	ESE
09:00-10:00	0.9	3.2	NE	1.3	4.8	SE	0.9	3.2	E
10:00-11:00	0.9	3.2	NE	1.3	4.8	SE	0.9	3.2	SE
11:00-12:00	0.4	1.6	SW	1.3	4.8	SE	2.2	8.0	SE
12:00-13:00	0.4	1.6	WNN	1.8	6.4	SE	2.2	8.0	SE
13:00-14:00	0.9	3.2	WSW	1.3	4.8	SE	2.7	9.7	SE
Temperature Average (°C)	26.8			30.5			28.8		
Barometric Pressure Average (mmHg)	757.29			756.78			757.17		
Sky Condition	Cloudy and Rainy			Cloudy and Rainy			Cloudy and Rainy		

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Muniyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

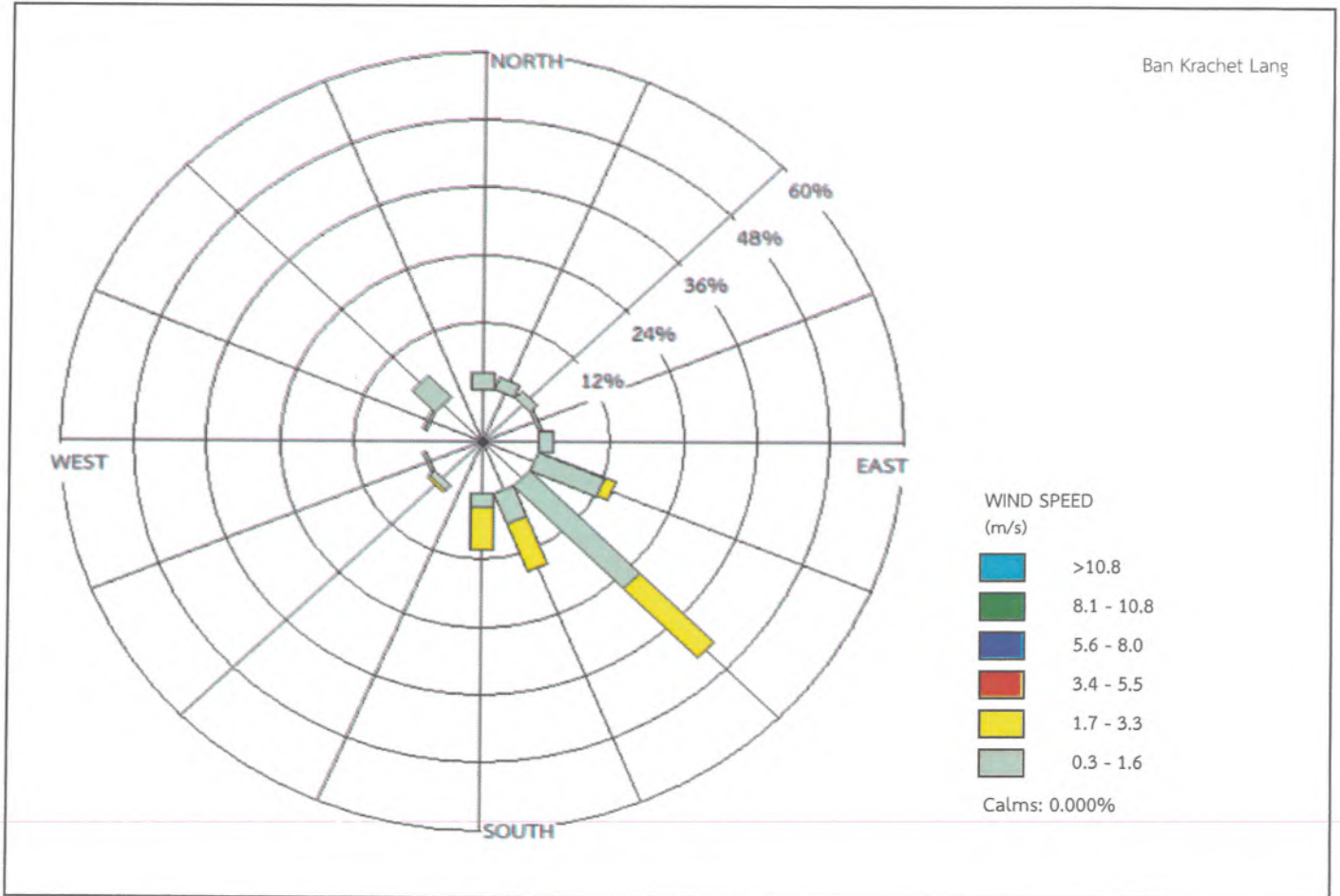
65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP
Project Location : 55 Moo 5 Nonglalog, Bankhai, Rayong
Client Name/Address : G Steel Public Company Limited
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 3-10 May 2024

Date Reported : 14 May 2024



Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Wind Speed Wind Direction	Ban Nong Lalok				
	Percent of Wind Speed (%)				
	Light Air	Light Breeze	Gentle Breeze	Moderate Breeze	Fresh Breeze
	0.3-1.6 m/s (1-5 km/hr)	1.7-3.3 m/s (6-11 km/hr)	3.4-5.5 m/s (12-19 km/hr)	5.6-8.0 m/s (20-28 km/hr)	8.1-10.8 m/s (29-38 km/hr)
N (349°-11°)	4.167	-	-	-	-
NNE (11°-34°)	-	-	-	-	-
NE (34°-56°)	2.381	-	-	-	-
ENE (56°-79°)	2.976	1.190	-	-	-
E (79°-102°)	-	-	-	-	-
ESE (102°-124°)	8.333	-	-	-	-
SE (124°-146°)	29.765	20.833	-	-	-
SSE (146°-169°)	12.500	2.976	-	-	-
S (169°-191°)	2.976	-	-	-	-
SSW (191°-214°)	1.190	-	-	-	-
SW (214°-236°)	0.595	-	-	-	-
WSW (236°-259°)	0.595	-	-	-	-
W (259°-281°)	-	-	-	-	-
WNW (281°-304°)	2.976	0.595	-	-	-
NW (304°-326°)	3.571	-	-	-	-
NNW (326°-349°)	2.381	-	-	-	-
Total	74.406	25.594	0.000	0.000	0.000
Calm <0.3 m/s (<1 km/hr)	0.000				

Reported results refer to measurement time only;

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 3-10 May 2024
Date Reported : 14 May 2024

Time	Ban Nong Lalok											
	May 2024											
	3-4			4-5			5-6			6-7		
	WS		WD	WS		WD	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr		m/s	km/hr		m/s	km/hr	
15:00-16:00	0.9	3.2	SE	2.7	9.7	SE	2.2	8.0	SE	1.8	6.4	SE
16:00-17:00	1.3	4.8	SE	2.7	9.7	SE	2.2	8.0	SE	1.3	4.8	SE
17:00-18:00	1.8	6.4	SE	2.7	9.7	SE	2.2	8.0	SE	1.3	4.8	NE
18:00-19:00	1.8	6.4	SE	2.2	8.0	SE	1.8	6.4	SE	1.8	6.4	SSE
19:00-20:00	1.3	4.8	SE	1.3	4.8	SE	1.3	4.8	SE	1.3	4.8	SE
20:00-21:00	1.3	4.8	SE	1.3	4.8	SE	1.3	4.8	SE	0.4	1.6	SSE
21:00-22:00	0.9	3.2	SSE	1.3	4.8	SE	0.9	3.2	SE	0.9	3.2	SE
22:00-23:00	0.4	1.6	ESE	0.9	3.2	SE	0.9	3.2	ESE	0.9	3.2	ESE
23:00-00:00	0.4	1.6	SSE	0.4	1.6	SE	0.4	1.6	ESE	0.4	1.6	ESE
00:00-01:00	0.4	1.6	SW	0.4	1.6	SE	0.4	1.6	SSE	0.9	3.2	SE
01:00-02:00	0.4	1.6	SE	0.9	3.2	SE	0.9	3.2	SE	0.4	1.6	SE
02:00-03:00	0.9	3.2	SE	0.9	3.2	SE	0.9	3.2	S	0.4	1.6	SE
03:00-04:00	0.9	3.2	WNW	0.9	3.2	SE	0.9	3.2	S	0.4	1.6	ESE
04:00-05:00	0.9	3.2	WNW	0.9	3.2	SSE	0.4	1.6	S	0.4	1.6	ESE
05:00-06:00	1.3	4.8	WNW	0.4	1.6	S	0.9	3.2	SE	0.4	1.6	ESE
06:00-07:00	1.3	4.8	WNW	0.4	1.6	S	0.9	3.2	SE	0.4	1.6	ESE
07:00-08:00	0.9	3.2	SSW	0.9	3.2	SE	0.4	1.6	SE	0.9	3.2	SE
08:00-09:00	0.9	3.2	SE	0.9	3.2	SE	0.4	1.6	SE	2.2	8.0	ENE
09:00-10:00	2.2	8.0	SE	1.8	6.4	SE	1.3	4.8	SE	0.9	3.2	SE
10:00-11:00	2.7	9.7	SE	2.2	8.0	SE	1.8	6.4	SSE	0.4	1.6	NE
11:00-12:00	2.7	9.7	SE	1.8	6.4	SE	1.8	6.4	SE	0.9	3.2	NW
12:00-13:00	2.2	8.0	SSE	2.2	8.0	SE	2.2	8.0	SSE	1.3	4.8	NW
13:00-14:00	2.2	8.0	SSE	2.2	8.0	SE	2.2	8.0	SE	1.3	4.8	NW
14:00-15:00	2.7	9.7	SE	2.2	8.0	SE	2.2	8.0	SE	1.3	4.8	N
Temperature Average (°C)	30.2			31.6			31.8			28.7		
Barometric Pressure Average (mmHg)	756.82			756.47			756.35			756.95		
Sky Condition	Fair			Fair			Fair			Cloudy and Rainy		

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lanseththa)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP Sampling Date : 3-10 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Ban Nong Lalok								
	May 2024								
	7-8			8-9			9-10		
	WS		WD	WS		WD	WS		WD
	m/s	km/hr		m/s	km/hr		m/s	km/hr	
15:00-16:00	1.8	6.4	WNW	2.2	8.0	SE	1.8	6.4	SE
16:00-17:00	1.3	4.8	SSW	1.8	6.4	SE	2.2	8.0	SE
17:00-18:00	0.9	3.2	NE	1.3	4.8	SSE	1.3	4.8	SE
18:00-19:00	0.9	3.2	NW	0.9	3.2	SE	0.4	1.6	NNW
19:00-20:00	1.3	4.8	ESE	0.4	1.6	SSE	0.9	3.2	N
20:00-21:00	0.9	3.2	WNW	0.9	3.2	SSE	1.8	6.4	ENE
21:00-22:00	0.9	3.2	NW	0.9	3.2	SSE	0.4	1.6	NW
22:00-23:00	0.4	1.6	NE	0.4	1.6	SSE	0.4	1.6	WSW
23:00-00:00	0.4	1.6	SSE	0.4	1.6	SSE	0.9	3.2	NNW
00:00-01:00	0.4	1.6	SSE	0.4	1.6	SSE	0.4	1.6	N
01:00-02:00	0.9	3.2	SSE	0.4	1.6	SE	0.4	1.6	NNW
02:00-03:00	0.4	1.6	SE	0.9	3.2	SE	0.9	3.2	N
03:00-04:00	0.9	3.2	SSE	0.9	3.2	SE	0.9	3.2	N
04:00-05:00	0.9	3.2	SE	0.4	1.6	SE	1.3	4.8	N
05:00-06:00	0.4	1.6	SE	0.9	3.2	SSE	0.4	1.6	ENE
06:00-07:00	0.4	1.6	SE	0.4	1.6	SE	0.4	1.6	ENE
07:00-08:00	0.4	1.6	ESE	0.4	1.6	SSE	0.4	1.6	ENE
08:00-09:00	0.4	1.6	ESE	0.4	1.6	SSE	0.9	3.2	NNW
09:00-10:00	0.9	3.2	ENE	0.4	1.6	SE	0.9	3.2	N
10:00-11:00	0.9	3.2	ENE	1.3	4.8	SE	0.9	3.2	SSE
11:00-12:00	0.9	3.2	ESE	1.8	6.4	SE	1.3	4.8	SSE
12:00-13:00	1.3	4.8	ESE	1.8	6.4	SE	2.7	9.7	SE
13:00-14:00	1.3	4.8	SE	1.8	6.4	SE	2.2	8.0	SE
14:00-15:00	1.3	4.8	SE	1.8	6.4	SE	1.8	6.4	SE
Temperature Average (°C)	26.7			30.3			28.5		
Barometric Pressure Average (mmHg)	757.69			756.63			757.31		
Sky Condition	Cloudy and Rainy			Cloudy and Rainy			Cloudy and Rainy		

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

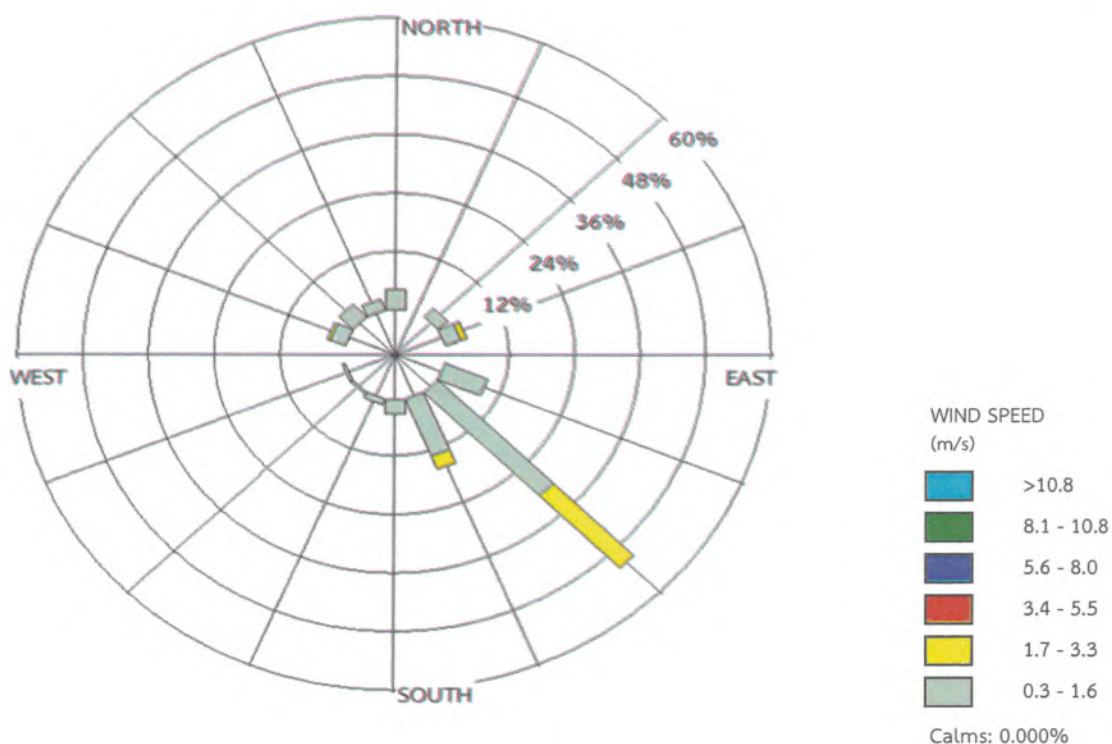
65/1/67, 66/1/67

Wind Speed and Wind Direction Measurement Report

Project : HRC & SKP
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Sampling Date : 3-10 May 2024
Date Reported : 14 May 2024

Ban Nong Lalok



Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24

เอกสาร 4-3

รายงานผลการตรวจวิเคราะห์คุณภาพอากาศจากปล่อง



Ref. No. AR063/05/24
65/1/67

Report No. 2405/081

Stack Air Quality Analysis Report

Project : HRC & SKP
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling by : Heeson Lormae
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 4 May 2024
Date Received : 7 May 2024
Date of Analysis : 7-17 May 2024
Date Reported : 20 May 2024

Parameter	Unit	Sampling Method	Analytical Method	Bag Filter Inlet (Set1)
Sampling Time	-	-	-	10:00-10:48
Height	m.	-	-	50.0
Diameter	cm.	-	-	450* x 350
Barometric Pressure	mmHg	-	-	756.06
Absolute Stack Gas Pressure	mmHg	-	-	739.88
Dry Gas Meter Temperature	°C	-	-	34.1
Stack Temperature	°C	-	-	90.0
Moisture	%	-	-	4.06
Velocity	m/s	-	-	26.21
Flow Rate (Qsd)	m ³ /s	-	-	316.591
Oxygen	%	-	-	20.5
Total Suspended Particulate	mg/m ³	Isokinetic	Gravimetric Method (U.S. EPA Method 5)	1,201
Emission Rate of Total Suspended Particulate	g/s	-	Calculate	380

Remark:

* The side used for determine the number of traverse points.

- Flow rate (Qsd) and pollutants are calculated under standard condition at 1 atmosphere or 760 mmHg and temperature 25 degree celsius and dry basis.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.

(Supawadee Saentawisuk)

Laboratory Supervisor

20 / 05 / 24

----- End of Report -----



Ref. No. AR064/05/24

Report No. 2405/081

65/1/67

Stack Air Quality Analysis Report

Project : HRC & SKP
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling by : Heeson Lormae
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 4 May 2024
Date Received : 7 May 2024
Date of Analysis : 7-17 May 2024
Date Reported : 20 May 2024

Parameter	Unit	Sampling Method	Analytical Method	Bag Filter Inlet (SET 2)
Sampling Time	-	-	-	11:00-11:48
Height	m.	-	-	50.0
Diameter	cm.	-	-	450* x 350
Barometric Pressure	mmHg	-	-	756.06
Absolute Stack Gas Pressure	mmHg	-	-	739.15
Dry Gas Meter Temperature	°C	-	-	35.0
Stack Temperature	°C	-	-	87.0
Moisture	%	-	-	4.07
Velocity	m/s	-	-	26.90
Flow Rate (Qsd)	m ³ /s	-	-	327.249
Oxygen	%	-	-	20.4
Total Suspended Particulate	mg/m ³	Isokinetic	Gravimetric Method (U.S. EPA Method 5)	788
Emission Rate of Total Suspended Particulate	g/s	-	Calculate	258

Remark:

* The side used for determine the number of traverse points.

- Flow rate (Qsd) and pollutants are calculated under standard condition at 1 atmosphere or 760 mmHg and temperature 25 degree celsius and dry basis.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Supawadee Saentawisuk)

Laboratory Supervisor

20 / 05 / 24

----- End of Report -----



Ref. No. AR065/05/24

Report No. 2405/081

65/1/67

Stack Air Quality Analysis Report

Project : HRC & SKP
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling by : Heeson Lormae
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 4 May 2024
Date Received : 7 May 2024
Date of Analysis : 7-17 May 2024
Date Reported : 20 May 2024

Parameter	Unit	Sampling Method	Analytical Method	Bag Filter Outlet (SET 1)	Standard	
					[1]	[2]
Sampling Time	-	-	-	10:00-10:48	-	-
Height	m.	-	-	50.0	-	-
Diameter	cm.	-	-	450* x 350	-	-
Barometric Pressure	mmHg	-	-	756.06	-	-
Absolute Stack Gas Pressure	mmHg	-	-	733.27	-	-
Dry Gas Meter Temperature	°C	-	-	34.0	-	-
Stack Temperature	°C	-	-	81.0	-	-
Moisture	%	-	-	3.99	-	-
Velocity	m/s	-	-	26.24	-	-
Flow Rate (Qsd)	m ³ /s	-	-	322.217	-	-
Oxygen	%	-	-	20.4	-	-
Total Suspended Particulate	mg/m ³	Isokinetic	Gravimetric Method (U.S. EPA Method 5)	7.0	120	50
Emission Rate of Total Suspended Particulate	g/s	-	Calculate	2.26	-	17.99

Remark:

* The side used for determine the number of traverse points.

- Flow rate (Qsd) and pollutants are calculated under standard condition at 1 atmosphere or 760 mmHg and temperature 25 degree celsius and dry basis.

Standard^[1] = Ministry of Science Announcement Technology and Environment Determining the amount of contaminants in the air emitted from (new) steel factory, 2001.

Standard^[2] = Standards according to conditions according to the environmental impact analysis report EIA

Reported results refer to submitted samples only.

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(Supawadee Saentawisuk)

Laboratory Supervisor

20 / 05 / 24

----- End of Report -----



Ref. No. AR066/05/24
65/1/67

Report No. 2405/081

Stack Air Quality Analysis Report

Project : HRC & SKP
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling by : Heeson Lormae
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 4 May 2024
Date Received : 7 May 2024
Date of Analysis : 7-17 May 2024
Date Reported : 20 May 2024

Parameter	Unit	Sampling Method	Analytical Method	Bag Filter Outlet (SET 2)	Standard	
					[1]	[2]
Sampling Time	-	-	-	11:00-11:48	-	-
Height	m.	-	-	50.0	-	-
Diameter	cm.	-	-	450* x 350	-	-
Barometric Pressure	mmHg	-	-	756.06	-	-
Absolute Stack Gas Pressure	mmHg	-	-	731.06	-	-
Dry Gas Meter Temperature	°C	-	-	34.7	-	-
Stack Temperature	°C	-	-	79.0	-	-
Moisture	%	-	-	3.89	-	-
Velocity	m/s	-	-	26.84	-	-
Flow Rate (Qsd)	m ³ /s	-	-	330.900	-	-
Oxygen	%	-	-	20.6	-	-
Total Suspended Particulate	mg/m ³	Isokinetic	Gravimetric Method (U.S. EPA Method 5)	2.6	120	50
Emission Rate of Total Suspended Particulate	g/s	-	Calculate	0.860	-	17.99

Remark:

* The side used for determine the number of traverse points.

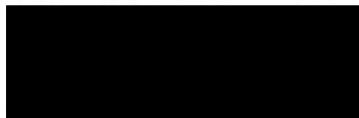
- Flow rate (Qsd) and pollutants are calculated under standard condition at 1 atmosphere or 760 mmHg and temperature 25 degree celsius and dry basis.

Standard^[1] = Ministry of Science Announcement Technology and Environment Determining the amount of contaminants in the air emitted from (new) steel factory, 2001.

Standard^[2] = Standards according to conditions according to the environmental impact analysis report EIA

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Supawadee Saentawisuk)

Laboratory Supervisor

20 / 05 / 24

----- End of Report -----



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด

S.P.S. CONSULTING SERVICE CO., LTD.

7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจอนพล เขตจตุจักร กรุงเทพฯ 10900

7 Soi Phaholyothin 24, Phaholyothin Rd., Jompol, Chatuchak, Bangkok 10900

Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscon.com., www.spscon.com

1/2

Ref. No. AR067/05/24

Report No. 2405/081

65/1/67

Stack Air Quality Analysis Report

Project : HRC & SKP
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling by : Heeson Lormae (๖-011-๓-0019)
S.P.S. Consulting Service Co., Ltd. (๖-011)

Sampling Date : 4 May 2024
Date Received : 7 May 2024
Date of Analysis : 7-17 May 2024
Date Reported : 20 May 2024

Parameter	Unit	Sampling Method	Analytical Method	TF Set 1 Stack (Outlet)		Standard		
						[1]	[2]	[3]
Sampling Time	-	-	-	11:00-11:40		-	-	-
Height	m.	-	-	41.0		-	-	-
Diameter	cm.	-	-	220		-	-	-
Barometric Pressure	mmHg	-	-	756.06		-	-	-
Absolute Stack Gas Pressure	mmHg	-	-	754.99		-	-	-
Dry Gas Meter Temperature	°C	-	-	34.0		-	-	-
Stack Temperature	°C	-	-	590		-	-	-
Moisture	%	-	-	7.82		-	-	-
Velocity	m/s	-	-	8.96		-	-	-
Flow Rate (Qsd)	m ³ /s	-	-	10.772		-	-	-
Oxygen	%	-	-	9.7	7.0	-	-	-
Oxides of Nitrogen	ppm	Vacuum Flask	Colorimetric Method (U.S. EPA Method 7)	15	18	180	200	81
Oxides of Nitrogen	mg/m ³	Vacuum Flask	Colorimetric Method (U.S. EPA Method 7)	28	33	338	376	153
Emission Rate of Oxides of Nitrogen	g/s	-	Calculate	0.304	-	-	-	2.17
Carbon Monoxide	ppm	Gas Bag	Non-Dispersive Infrared Detection Method (U.S. EPA Method 10)	16	19	-	690	-
Carbon Monoxide	mg/m ³	Gas Bag	Non-Dispersive Infrared Detection Method (U.S. EPA Method 10)	18	22	-	790	-
Emission Rate of Carbon Monoxide	g/s	-	Calculate	0.197	-	-	-	-
Sulfur Dioxide	ppm	Midget Impinger	Titrimetric Method (U.S. EPA Method 6)	<0.1	<0.1	800	60	-
Sulfur Dioxide	mg/m ³	Midget Impinger	Titrimetric Method (U.S. EPA Method 6)	<0.3	<0.3	2,094	157	-
Emission Rate of Sulfur Dioxide	g/s	-	Calculate	<0.003	-	-	-	-



Ref. No. AR067/05/24

Report No. 2405/081

65/1/67

Stack Air Quality Analysis Report

Remark:

- Type of Fuel: Natural Gas
- Fuel Consumption Rate 51,405.81 Nm³/day
- Capacity 2,922.50 ton/day
- Flow rate (Qsd) and pollutants are calculated under standard condition at 1 atmosphere or 760 mmHg and temperature 25 degree celsius and dry basis.
- Standard^[1] = Ministry of Science Announcement Technology and Environment Determining the amount of contaminants in the air emitted from (new) steel factory, 2001.
- Standard^[2] = Industrial Emission Standards, Notification of the Ministry of Industry, B.E. 2549
- Standard^[3] = Standards according to conditions according to the environmental impact analysis report EIA

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Supawadee Saentawisuk)

ว-011-ค-0026

Laboratory Supervisor

20 / 05 / 24

----- End of Report -----



Ref. No. AR068/05/24
65/1/67

Report No. 2405/081

Stack Air Quality Analysis Report

Project : HRC & SKP
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling by : Heeson Lormae (๖-011-๓-0019)
S.P.S. Consulting Service Co., Ltd. (๖-011)

Sampling Date : 4 May 2024
Date Received : 7 May 2024
Date of Analysis : 7-17 May 2024
Date Reported : 20 May 2024

Parameter	Unit	Sampling Method	Analytical Method	TF Set 2 Stack (Outlet)		Standard		
						[1]	[2]	[3]
Sampling Time	-	-	-	14:50-15:30		-	-	-
Height	m.	-	-	15.0		-	-	-
Diameter	cm.	-	-	146		-	-	-
Barometric Pressure	mmHg	-	-	756.06		-	-	-
Absolute Stack Gas Pressure	mmHg	-	-	755.45		-	-	-
Dry Gas Meter Temperature	°C	-	-	35.0		-	-	-
Stack Temperature	°C	-	-	240		-	-	-
Moisture	%	-	-	6.99		-	-	-
Velocity	m/s	-	-	6.78		-	-	-
Flow Rate (Qsd)	m ³ /s	-	-	6.098		-	-	-
Oxygen	%	-	-	14.8	7.0	-	-	-
Oxides of Nitrogen	ppm	Vacuum Flask	Colorimetric Method (U.S. EPA Method 7)	12	26	180	200	81
Oxides of Nitrogen	mg/m ³	Vacuum Flask	Colorimetric Method (U.S. EPA Method 7)	23	49	338	376	153
Emission Rate of Oxides of Nitrogen	g/s	-	Calculate	0.140	-	-	-	2.17
Carbon Monoxide	ppm	Gas Bag	Non-Dispersive Infrared Detection Method (U.S. EPA Method 10)	6.6	14	-	690	-
Carbon Monoxide	mg/m ³	Gas Bag	Non-Dispersive Infrared Detection Method (U.S. EPA Method 10)	7.6	16	-	790	-
Emission Rate of Carbon Monoxide	g/s	-	Calculate	0.046	-	-	-	-
Sulfur Dioxide	ppm	Midget Impinger	Titrimetric Method (U.S. EPA Method 6)	0.5	1	800	60	-
Sulfur Dioxide	mg/m ³	Midget Impinger	Titrimetric Method (U.S. EPA Method 6)	1	2	2,094	157	-
Emission Rate of Sulfur Dioxide	g/s	-	Calculate	0.006	-	-	-	-



Ref. No. AR068/05/24

Report No. 2405/081

65/1/67

Stack Air Quality Analysis Report

Remark:

- Type of Fuel: Natural Gas
- Fuel Consumption Rate 22,031.06 Nm³/day
- Capacity 2,922.50 ton/day
- Flow rate (Qsd) and pollutants are calculated under standard condition at 1 atmosphere or 760 mmHg and temperature 25 degree celsius and dry basis.
- Standard^[1] = Ministry of Science Announcement Technology and Environment Determining the amount of contaminants in the air emitted from (new) steel factory, 2001.
- Standard^[2] = Industrial Emission Standards, Notification of the Ministry of Industry, B.E. 2549
- Standard^[3] = Standards according to conditions according to the environmental impact analysis report EIA

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.

(Supawadee Saentawisuk)

ว-011-ค-0026

Laboratory Supervisor

20 / 05 / 24

----- End of Report -----

เอกสาร 4-4

รายงานผลการตรวจวิเคราะห์คุณภาพน้ำเสีย



Ref. No. WR378/01/24

Report No. 2401/178_1

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling Method : Grab
Sampling by : Udomsak Janjirawit (จ-011-จ-0013)
S.P.S. Consulting Service Co., Ltd. (จ-011)

Sampling Date : 19 January 2024
Date Received : 19 January 2024
Date of Analysis : 19-29 January 2024
Date Reported : 30 January 2024

Parameter	Analytical Method	Effluent Cooling Tower	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.47	5.5-9.0
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	9.3	Less than 50
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Membrane Electrode Method (4500-O G.)	3	Less than 20
COD (mg/L)	Closed Reflux, Titrimetric Method (5220 C.)	32	Less than 120
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 5

Remark:

Sample Characteristics: Yellow With Slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Benjawan Sapphawong)

จ-011-ค-0032

Laboratory Supervisor

30 / 01 / 24

----- End of Report -----



Ref. No. WR379/01/24

Report No. 2401/178_2

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling Method : Grab
Sampling by : Udomsak Janjirawit (๖-011-จ-0013)
S.P.S. Consulting Service Co., Ltd. (๖-011)

Sampling Date : 19 January 2024
Date Received : 19 January 2024
Date of Analysis : 19-29 January 2024
Date Reported : 30 January 2024

Parameter	Analytical Method	Septic Tank	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.38	5.5-9.0
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	11.2	Less than 50
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Membrane Electrode Method (4500-O G.)	4	Less than 20
COD (mg/L)	Closed Reflux, Titrimetric Method (5220 C.)	32	Less than 120
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 5
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{org} B.) & Titrimetric Method (4500-NH ₃ C.)	8.2	Less than 100

Remark:

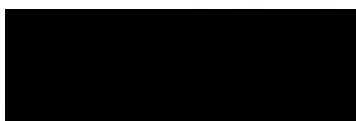
Sample Characteristics: Yellow With Slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

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(Benjawan Sapphawong)

๖-011-ค-0032

Laboratory Supervisor

๓๐ / ๑ / ๖๕

----- End of Report -----



Ref. No. WR379/01/24

Report No. 2401/178_3

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling Method : Grab
Sampling by : Udomsak Janjirawit
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 19 January 2024
Date Received : 19 January 2024
Date of Analysis : 19-29 January 2024
Date Reported : 30 January 2024

Parameter	Analytical Method	Septic Tank	Standard
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	92,000	-

Remark:

Sample Characteristics: Yellow With Slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

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(Benjawan Sapphawong)

Laboratory Supervisor

30 / 01 / 24

----- End of Report -----



Ref. No. WR276/02/24

Report No. 2402/155_1

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling Method : Grab
Sampling by : Thitinan Ruangram (ว-011-จ-0024)
S.P.S. Consulting Service Co., Ltd. (ว-011)

Sampling Date : 9 February 2024
Date Received : 9 February 2024
Date of Analysis : 9-19 February 2024
Date Reported : 20 February 2024

Parameter	Analytical Method	Effluent Cooling Tower	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.11	5.5-9.0
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	13.8	Less than 50
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Membrane Electrode Method (4500-O G.)	2	Less than 20
COD (mg/L)	Closed Reflux, Titrimetric Method (5220 C.)	25	Less than 120
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 5

Remark:

Sample Characteristics: Yellow turbid with slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Benjawan Sapphawong)

ว-011-ค-0032

Laboratory Supervisor

20 / 02 / 24

----- End of Report -----



Ref. No. WR277/02/24

Report No. 2402/155_2

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling Method : Grab
Sampling by : Thitinan Ruangram (ว-011-จ-0024)
S.P.S. Consulting Service Co., Ltd. (ว-011)
Sampling Date : 9 February 2024
Date Received : 9 February 2024
Date of Analysis : 9-19 February 2024
Date Reported : 20 February 2024

Parameter	Analytical Method	Septic Tank	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.64	5.5-9.0
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	13.0	Less than 50
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Membrane Electrode Method (4500-O G.)	18	Less than 20
COD (mg/L)	Closed Reflux, Titrimetric Method (5220 C.)	95	Less than 120
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	2	Less than 5
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{org} B.) & Titrimetric Method (4500-NH ₃ C.)	60	Less than 100

Remark:

Sample Characteristics: Yellow turbid with slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Benjawan Sapphawong)

ว-011-ค-0032

Laboratory Supervisor

10 / 02 / 24

----- End of Report -----



Ref. No. WR277/02/24

Report No. 2402/155_3

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling Method : Grab
Sampling by : Thitinan Ruangram
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 9 February 2024
Date Received : 9 February 2024
Date of Analysis : 9-19 February 2024
Date Reported : 20 February 2024

Parameter	Analytical Method	Septic Tank	Standard
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	110,000	-

Remark:

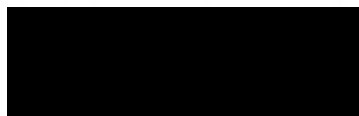
Sample Characteristics: Slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

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(Benjawan Sapphawong)

Laboratory Supervisor

26 / 02 / 24

----- End of Report -----



Ref. No. WR346/03/24

Report No. 2403/175_1

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP Sampling Date : 8 March 2024
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong Date Received : 8 March 2024
Client Name/Address : G Steel Public Limited Company Date of Analysis : 8-18 March 2024
Sampling Method : Grab Date Reported : 19 March 2024
Sampling by : Atsawut Niraphai (๖-011-จ-0050)
S.P.S. Consulting Service Co., Ltd. (๖-011)

Parameter	Analytical Method	Effluent Cooling Tower	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.50	5.5-9.0
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	9.0	Less than 50
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Membrane Electrode Method (4500-O G.)	2	Less than 20
COD (mg/L)	Closed Reflux, Titrimetric Method (5220 C.)	32	Less than 120
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 5

Remark:

Sample Characteristics: Yellow With Slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.

(Phenpha Vipasthawatt)

๖-011-ค-0013

Laboratory Supervisor

19 / 03 / 24

----- End of Report -----



Ref. No. WR347/03/24

Report No. 2403/175_2

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling Method : Grab
Sampling by : Atsawut Niraphai (๖-011-๖-0050)
S.P.S. Consulting Service Co., Ltd. (๖-011)

Sampling Date : 8 March 2024
Date Received : 8 March 2024
Date of Analysis : 8-18 March 2024
Date Reported : 19 March 2024

Parameter	Analytical Method	Septic Tank	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.71	5.5-9.0
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	4.5	Less than 50
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Membrane Electrode Method (4500-O G.)	4	Less than 20
COD (mg/L)	Closed Reflux, Titrimetric Method (5220 C.)	44	Less than 120
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 5
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{org} B.) & Titrimetric Method (4500-NH ₃ C.)	6.2	Less than 100

Remark:

Sample Characteristics: Yellow With Slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Phenpha Vipphasthawatt)

๖-011-๖-0013

Laboratory Supervisor

19 / 03 / 24

----- End of Report -----



Ref. No. WR347/03/24

Report No. 2403/175_3

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP Sampling Date : 8 March 2024
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong Date Received : 8 March 2024
Client Name/Address : G Steel Public Limited Company Date of Analysis : 8-18 March 2024
Sampling Method : Grab Date Reported : 19 March 2024
Sampling by : Atsawut Niraphai
S.P.S. Consulting Service Co., Ltd.

Parameter	Analytical Method	Septic Tank	Standard
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	17,000	-

Remark:

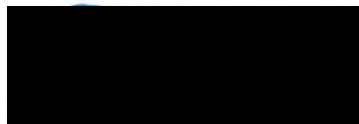
Sample Characteristics: Yellow With Slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Phenpha Vipasthawatt)

Laboratory Supervisor

19 / 03 / 24

----- End of Report -----



Ref. No. WR410/04/24

Report No. 2404/273

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling Method : Grab
Sampling by : Udomsak Janjirawit (๖-011-จ-0013)
S.P.S. Consulting Service Co., Ltd. (๖-011)

Sampling Date : 11 April 2024
Date Received : 11 April 2024
Date of Analysis : 11-24 April 2024
Date Reported : 25 April 2024

Parameter	Analytical Method	Effluent Cooling Tower	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.18	5.5-9.0
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	3.5	Less than 50
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Membrane Electrode Method (4500-O G.)	3	Less than 20
COD (mg/L)	Closed Reflux, Titrimetric Method (5220 C.)	32	Less than 120
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 5

Remark:

Sample Characteristics: Yellow with moderately precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Benjawan Sapphawong)

๖-011-๓-0032

Laboratory Supervisor

25 / ๐4 / 24

----- End of Report -----



Ref. No. WR411/04/24

Report No. 2404/273

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling Method : Grab
Sampling by : Udomsak Janjirawit (จ-011-จ-0013)
S.P.S. Consulting Service Co., Ltd. (จ-011)

Sampling Date : 11 April 2024
Date Received : 11 April 2024
Date of Analysis : 11-24 April 2024
Date Reported : 25 April 2024

Parameter	Analytical Method	Septic Tank	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.63	5.5-9.0
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	25.5	Less than 50
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Membrane Electrode Method (4500-O G.)	12	Less than 20
COD (mg/L)	Closed Reflux, Titrimetric Method (5220 C.)	57	Less than 120
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	2	Less than 5
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{org} B.) & Titrimetric Method (4500-NH ₃ C.)	44	Less than 100

Remark:

Sample Characteristics: Yellow turbid with slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Benjawan Sapphawong)

จ-011-ค-0032

Laboratory Supervisor

26 / 04 / 24

----- End of Report -----



Ref. No. WR411/04/24

Report No. 2404/273_1

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling Method : Grab
Sampling by : Udomsak Janjirawit
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 11 April 2024
Date Received : 11 April 2024
Date of Analysis : 11-24 April 2024
Date Reported : 25 April 2024

Parameter	Analytical Method	Septic Tank	Standard
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	110,000	-

Remark:

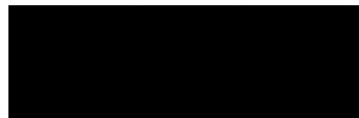
Sample Characteristics: Yellow turbid with slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Benjawan Sapphawong)

Laboratory Supervisor

25 / 04 / 24

----- End of Report -----



Ref. No. WR603/05/24

Report No. 2405/210

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP Sampling Date : 10 May 2024
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong Date Received : 10 May 2024
Client Name/Address : G Steel Public Limited Company Date of Analysis : 10-20 May 2024
Sampling Method : Grab Date Reported : 21 May 2024
Sampling by : Thitinan Ruangram (ว-011-จ-0024)
S.P.S. Consulting Service Co., Ltd. (ว-011)

Parameter	Analytical Method	Effluent Cooling Tower	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.10	5.5-9.0
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	10.3	Less than 50
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Membrane Electrode Method (4500-O G.)	3	Less than 20
COD (mg/L)	Closed Reflux, Titrimetric Method (5220 C.)	38	Less than 120
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 5

Remark:

Sample Characteristics: Yellow with slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

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(Benjawan Sapphawong)

ว-011-ค-0032

Laboratory Supervisor

21 / 05 / 24

----- End of Report -----



Ref. No. WR604/05/24

Report No. 2405/210

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling Method : Grab
Sampling by : Thitinan Ruangram (ว-011-จ-0024)
S.P.S. Consulting Service Co., Ltd. (ว-011)
Sampling Date : 10 May 2024
Date Received : 10 May 2024
Date of Analysis : 10-20 May 2024
Date Reported : 21 May 2024

Parameter	Analytical Method	Septic Tank	Standard
pH	Electrometric Method (4500-H ⁺ B.)	7.40	5.5-9.0
Total Suspended Solids (mg/L)	Total Suspended Solids Dried at 103-105 °C (2540 D.)	10.3	Less than 50
BOD ₅ (mg/L)	5 Day BOD Test (5210 B.) & Membrane Electrode Method (4500-O G.)	3	Less than 20
COD (mg/L)	Closed Reflux, Titrimetric Method (5220 C.)	38	Less than 120
Grease & Oil (mg/L)	Liquid-Liquid, Partition-Gravimetric Method (5520 B.)	<2	Less than 5
TKN (mg/L)	Macro-Kjeldahl Method (4500-N _{org} B.) & Titrimetric Method (4500-NH ₃ C.)	7.2	Less than 100

Remark:

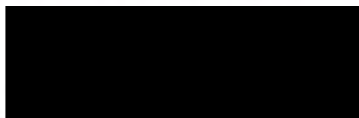
Sample Characteristics: Yellow with slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



(Benjawan Sapphawong)

ว-011-ค-0032

Laboratory Supervisor

21 / 05 / 24

----- End of Report -----



Ref. No. WR604/05/24

Report No. 2405/210_1

65/1/67

Wastewater Quality Analysis Report

Project : HRC & SKP Sampling Date : 10 May 2024
Project Locat : 55 Moo 5, Nong Lalok, Ban Khai, Rayong Date Received : 10 May 2024
Client Name/Address : G Steel Public Limited Company Date of Analysis : 10-20 May 2024
Sampling Method : Grab Date Reported : 21 May 2024
Sampling by : Thitinan Ruangram
S.P.S. Consulting Service Co., Ltd.

Parameter	Analytical Method	Septic Tank	Standard
Fecal Coliform Bacteria (MPN/100 mL)	Multiple-Tube Fermentation Technique (9221 E.)	35,000	-

Remark:

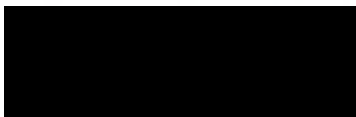
Sample Characteristics: Yellow with slightly precipitate

Standard = Industrial Effluent Standards, Notification of the Ministry of Industry, B.E. 2560

Method = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023.

Reported results refer to submitted samples only.

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(Benjawan Sapphawong)

Laboratory Supervisor

21 / 05 / 24

-----End of Report-----

เอกสาร 4-5

รายงานผลการตรวจวัดระดับเสียงในบรรยากาศ



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Fence of the North			Standard	
	May 2024				
	3-4				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
12:00-13:00	54.9	57.2	49.5	-	
13:00-14:00	58.9	61.5	54.9	-	
14:00-15:00	58.3	61.0	52.4	-	
15:00-16:00	58.2	61.1	52.6	-	
16:00-17:00	58.0	60.8	52.5	-	
17:00-18:00	54.5	57.0	48.5	-	
18:00-19:00	49.5	52.9	44.5	-	
19:00-20:00	49.7	52.9	46.6	-	
20:00-21:00	50.9	53.5	45.4	-	
21:00-22:00	55.0	56.6	51.8	-	
22:00-23:00	55.7	57.3	52.0	-	
23:00-00:00	55.7	58.0	51.6	-	
00:00-01:00	54.4	56.3	51.2	-	
01:00-02:00	55.3	58.0	51.6	-	
02:00-03:00	54.1	58.2	51.0	-	
03:00-04:00	55.1	57.2	51.3	-	
04:00-05:00	55.7	58.0	51.2	-	
05:00-06:00	56.1	59.0	52.1	-	
06:00-07:00	59.1	62.0	53.0	-	
07:00-08:00	60.0	62.5	54.0	-	
08:00-09:00	57.1	63.2	54.0	-	
09:00-10:00	55.9	62.5	52.1	-	
10:00-11:00	57.0	63.3	53.3	-	
11:00-12:00	58.3	62.6	53.4	-	
L _{eq} 24 hr [dB(A)]	56.4	-	-	Less Than 70.0	
L _{max} [dB(A)]	90.2	-	-	Less Than 115.0	
L _{dn} [dB(A)]	62.5	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B01	Cirrus	CR161B		G301393
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.0		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Fence of the North			Standard	
	May 2024				
	4-5				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
12:00-13:00	58.4	60.4	55.1	-	
13:00-14:00	59.1	61.5	55.1	-	
14:00-15:00	59.2	60.7	55.3	-	
15:00-16:00	59.0	61.0	55.2	-	
16:00-17:00	59.1	60.3	54.6	-	
17:00-18:00	58.4	61.1	54.5	-	
18:00-19:00	57.4	59.9	54.2	-	
19:00-20:00	56.9	58.7	52.7	-	
20:00-21:00	57.1	60.1	51.3	-	
21:00-22:00	55.6	57.9	51.5	-	
22:00-23:00	55.3	57.4	51.0	-	
23:00-00:00	56.5	58.3	51.6	-	
00:00-01:00	55.5	57.3	52.0	-	
01:00-02:00	54.6	56.3	52.2	-	
02:00-03:00	53.1	55.0	50.4	-	
03:00-04:00	53.3	55.4	50.3	-	
04:00-05:00	53.5	55.7	50.9	-	
05:00-06:00	54.0	55.7	51.3	-	
06:00-07:00	54.3	56.6	51.4	-	
07:00-08:00	54.3	56.6	49.9	-	
08:00-09:00	56.8	59.0	51.4	-	
09:00-10:00	56.0	57.4	50.9	-	
10:00-11:00	55.2	56.7	50.6	-	
11:00-12:00	53.7	55.7	49.4	-	
L _{eq} 24 hr [dB(A)]	56.6	-	-	Less Than 70.0	
L _{max} [dB(A)]	80.6	-	-	Less Than 115.0	
L _{dn} [dB(A)]	61.5	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B01	Cirrus	CR161B		G301393
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.0		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)
Sampling Method = Sound Level Meter
Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.



(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Fence of the North			Standard	
	May 2024				
	5-6				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
12:00-13:00	53.1	55.8	48.5	-	
13:00-14:00	52.6	56.0	46.7	-	
14:00-15:00	54.6	57.0	48.0	-	
15:00-16:00	53.9	55.3	49.0	-	
16:00-17:00	58.6	59.9	53.2	-	
17:00-18:00	55.3	56.2	51.0	-	
18:00-19:00	51.4	54.4	47.4	-	
19:00-20:00	50.5	52.6	45.7	-	
20:00-21:00	49.8	51.9	45.3	-	
21:00-22:00	48.7	50.7	44.3	-	
22:00-23:00	48.4	49.8	44.6	-	
23:00-00:00	48.1	49.3	44.9	-	
00:00-01:00	49.1	51.0	45.5	-	
01:00-02:00	48.0	49.2	44.9	-	
02:00-03:00	47.6	48.8	44.2	-	
03:00-04:00	48.7	50.5	44.6	-	
04:00-05:00	48.7	50.6	44.7	-	
05:00-06:00	49.3	51.6	44.5	-	
06:00-07:00	48.0	49.0	44.5	-	
07:00-08:00	50.2	51.1	44.9	-	
08:00-09:00	52.6	54.6	45.8	-	
09:00-10:00	55.1	57.6	47.5	-	
10:00-11:00	54.7	58.3	47.8	-	
11:00-12:00	53.0	56.6	46.3	-	
L _{eq} 24 hr [dB(A)]	52.4	-	-	Less Than 70.0	
L _{max} [dB(A)]	85.7	-	-	Less Than 115.0	
L _{dn} [dB(A)]	56.1	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B01	Cirrus	CR161B		G301393
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.0		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)
Sampling Method = Sound Level Meter
Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

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(Thunyaphat Lansettna)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Fence of the South			Standard	
	May 2024				
	3-4				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
11:00-12:00	52.2	53.3	50.4	-	
12:00-13:00	52.2	53.5	49.0	-	
13:00-14:00	51.2	53.2	47.1	-	
14:00-15:00	51.7	54.3	46.4	-	
15:00-16:00	49.6	53.3	45.2	-	
16:00-17:00	48.9	50.8	46.8	-	
17:00-18:00	48.6	50.5	45.0	-	
18:00-19:00	46.5	47.6	45.2	-	
19:00-20:00	48.1	49.9	45.5	-	
20:00-21:00	48.0	49.0	46.3	-	
21:00-22:00	47.6	49.2	46.3	-	
22:00-23:00	53.3	54.7	52.4	-	
23:00-00:00	53.0	55.4	48.6	-	
00:00-01:00	49.0	52.3	45.1	-	
01:00-02:00	48.6	49.6	45.9	-	
02:00-03:00	51.4	54.2	47.1	-	
03:00-04:00	54.4	55.5	53.6	-	
04:00-05:00	55.4	56.4	54.4	-	
05:00-06:00	55.2	56.5	53.6	-	
06:00-07:00	54.2	56.9	49.5	-	
07:00-08:00	54.1	55.1	53.0	-	
08:00-09:00	54.9	56.0	51.3	-	
09:00-10:00	53.1	55.3	48.7	-	
10:00-11:00	53.5	56.0	48.3	-	
L _{eq} 24 hr [dB(A)]	52.2	-	-	Less Than 70.0	
L _{max} [dB(A)]	84.2	-	-	Less Than 115.0	
L _{dn} [dB(A)]	59.5	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 April 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B02	ACO	6236		G301157
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.1		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.



(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Fence of the South			Standard	
	May 2024				
	4-5				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
11:00-12:00	54.0	55.0	52.6	-	
12:00-13:00	54.1	54.8	52.4	-	
13:00-14:00	53.4	54.7	51.6	-	
14:00-15:00	52.6	53.5	50.8	-	
15:00-16:00	52.7	53.6	51.1	-	
16:00-17:00	53.4	54.5	51.8	-	
17:00-18:00	53.7	54.9	51.9	-	
18:00-19:00	55.1	56.0	53.6	-	
19:00-20:00	54.0	54.7	52.8	-	
20:00-21:00	54.1	55.1	53.0	-	
21:00-22:00	54.2	54.8	53.1	-	
22:00-23:00	54.6	55.3	53.7	-	
23:00-00:00	54.4	55.3	52.3	-	
00:00-01:00	52.9	53.7	51.3	-	
01:00-02:00	52.6	53.1	50.2	-	
02:00-03:00	51.0	51.5	50.0	-	
03:00-04:00	50.7	51.1	49.9	-	
04:00-05:00	51.4	52.4	50.0	-	
05:00-06:00	53.6	54.0	51.0	-	
06:00-07:00	52.2	54.1	50.7	-	
07:00-08:00	53.2	54.4	49.9	-	
08:00-09:00	51.3	51.9	48.9	-	
09:00-10:00	49.3	51.0	47.9	-	
10:00-11:00	48.5	50.1	46.7	-	
L _{eq} 24 hr [dB(A)]	53.1	-	-	Less Than 70.0	
L _{max} [dB(A)]	85.7	-	-	Less Than 115.0	
L _{dn} [dB(A)]	59.3	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 April 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B02	ACO	6236		G301157
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.1		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)
Sampling Method = Sound Level Meter
Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.



(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 3-6 May 2024
Date Reported : 14 May 2024

Time	Fence of the South			Standard	
	May 2024				
	5-6				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
11:00-12:00	48.0	49.6	46.7	-	
12:00-13:00	48.4	50.4	46.9	-	
13:00-14:00	48.4	49.5	46.8	-	
14:00-15:00	48.3	49.5	46.7	-	
15:00-16:00	49.8	51.6	47.6	-	
16:00-17:00	48.8	50.2	47.6	-	
17:00-18:00	49.7	51.2	48.2	-	
18:00-19:00	52.1	52.6	50.5	-	
19:00-20:00	52.8	54.5	50.6	-	
20:00-21:00	54.4	55.1	51.0	-	
21:00-22:00	52.6	53.1	51.6	-	
22:00-23:00	52.9	54.2	51.6	-	
23:00-00:00	54.2	55.5	52.8	-	
00:00-01:00	54.3	54.5	52.9	-	
01:00-02:00	53.5	54.5	52.3	-	
02:00-03:00	53.7	54.4	52.6	-	
03:00-04:00	53.9	54.7	53.0	-	
04:00-05:00	54.5	55.3	53.5	-	
05:00-06:00	56.2	58.2	53.9	-	
06:00-07:00	55.9	56.8	53.9	-	
07:00-08:00	54.9	56.5	51.7	-	
08:00-09:00	53.0	53.6	51.2	-	
09:00-10:00	52.9	54.2	51.0	-	
10:00-11:00	52.4	53.6	51.0	-	
L _{eq} 24 hr [dB(A)]	53.0	-	-	Less Than 70.0	
L _{max} [dB(A)]	82.5	-	-	Less Than 115.0	
L _{dn} [dB(A)]	60.6	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 April 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B02	ACO	6236		G301157
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.1		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)
Sampling Method = Sound Level Meter
Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

[Redacted Signature]

(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Fence of the East			Standard	
	May 2024				
	3-4				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
12:00-13:00	50.7	52.3	48.2	-	
13:00-14:00	51.6	53.0	46.8	-	
14:00-15:00	47.7	49.9	45.2	-	
15:00-16:00	47.7	51.1	44.6	-	
16:00-17:00	49.2	53.5	46.2	-	
17:00-18:00	52.4	55.0	46.7	-	
18:00-19:00	52.9	55.6	47.7	-	
19:00-20:00	54.6	56.3	52.0	-	
20:00-21:00	54.6	58.5	52.0	-	
21:00-22:00	57.8	62.0	52.2	-	
22:00-23:00	61.1	63.2	59.5	-	
23:00-00:00	62.7	64.7	61.5	-	
00:00-01:00	64.2	66.2	62.7	-	
01:00-02:00	63.4	65.0	60.3	-	
02:00-03:00	61.0	64.0	59.2	-	
03:00-04:00	62.9	64.5	59.7	-	
04:00-05:00	60.7	63.1	59.5	-	
05:00-06:00	61.0	63.0	59.6	-	
06:00-07:00	60.5	62.8	58.6	-	
07:00-08:00	59.1	60.8	57.2	-	
08:00-09:00	58.9	60.3	58.0	-	
09:00-10:00	58.7	64.2	57.5	-	
10:00-11:00	63.1	65.6	61.2	-	
11:00-12:00	64.5	67.0	60.8	-	
L _{eq} 24 hr [dB(A)]	60.0	-	-	Less Than 70.0	
L _{max} [dB(A)]	81.7	-	-	Less Than 115.0	
L _{dn} [dB(A)]	68.1	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B04	Cirrus	CR161B		G301404
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.0		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

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(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Fence of the East			Standard	
	May 2024				
	4-5				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
12:00-13:00	65.5	68.6	60.0	-	
13:00-14:00	65.8	68.0	60.7	-	
14:00-15:00	65.7	68.5	61.3	-	
15:00-16:00	66.0	68.3	60.7	-	
16:00-17:00	66.0	69.1	61.0	-	
17:00-18:00	65.4	68.3	60.6	-	
18:00-19:00	66.1	68.3	61.5	-	
19:00-20:00	64.7	67.5	60.6	-	
20:00-21:00	65.3	68.0	61.4	-	
21:00-22:00	63.9	66.6	60.0	-	
22:00-23:00	62.1	64.3	59.8	-	
23:00-00:00	60.5	61.2	59.4	-	
00:00-01:00	60.3	61.2	59.0	-	
01:00-02:00	60.4	61.3	59.1	-	
02:00-03:00	60.4	61.2	59.3	-	
03:00-04:00	60.8	61.7	59.5	-	
04:00-05:00	60.8	62.2	59.7	-	
05:00-06:00	61.8	63.0	59.8	-	
06:00-07:00	60.8	61.7	58.0	-	
07:00-08:00	59.2	59.9	57.4	-	
08:00-09:00	58.6	59.7	57.0	-	
09:00-10:00	58.2	59.3	56.7	-	
10:00-11:00	58.3	59.1	56.6	-	
11:00-12:00	58.2	59.4	56.5	-	
L _{eq} 24 hr [dB(A)]	63.2	-	-	Less Than 70.0	
L _{max} [dB(A)]	82.8	-	-	Less Than 115.0	
L _{dn} [dB(A)]	68.0	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B04	Cirrus	CR161B		G301404
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.0		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

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(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Fence of the East			Standard	
	May 2024				
	5-6				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
12:00-13:00	58.2	59.3	56.4	-	
13:00-14:00	58.5	59.7	56.6	-	
14:00-15:00	58.6	59.9	56.9	-	
15:00-16:00	58.1	59.1	56.4	-	
16:00-17:00	58.2	59.4	56.6	-	
17:00-18:00	58.2	66.0	56.7	-	
18:00-19:00	64.2	67.5	59.2	-	
19:00-20:00	64.9	67.6	60.9	-	
20:00-21:00	63.6	66.3	58.8	-	
21:00-22:00	60.3	65.0	58.9	-	
22:00-23:00	64.1	65.6	58.9	-	
23:00-00:00	64.7	67.8	60.2	-	
00:00-01:00	63.0	65.0	59.3	-	
01:00-02:00	64.3	66.9	59.1	-	
02:00-03:00	64.2	66.6	60.5	-	
03:00-04:00	65.8	68.5	61.0	-	
04:00-05:00	65.8	69.0	61.1	-	
05:00-06:00	67.1	70.0	62.3	-	
06:00-07:00	66.3	68.5	62.7	-	
07:00-08:00	66.2	68.9	60.6	-	
08:00-09:00	61.4	63.4	58.4	-	
09:00-10:00	60.7	61.6	57.5	-	
10:00-11:00	61.1	63.3	57.2	-	
11:00-12:00	60.9	64.3	55.5	-	
L _{eq} 24 hr [dB(A)]	63.4	-	-	Less Than 70.0	
L _{max} [dB(A)]	84.0	-	-	Less Than 115.0	
L _{dn} [dB(A)]	71.3	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B04	Cirrus	CR161B		G301404
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.0		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

[Redacted Signature]

(Munyaphat Larsettha)

Technical Supervisor

14 / 05 / 24



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด

S.P.S. CONSULTING SERVICE CO., LTD.

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RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Fence of the West			Standard	
	May 2024				
	3-4				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
11:00-12:00	58.3	61.2	53.0	-	
12:00-13:00	57.0	60.3	52.1	-	
13:00-14:00	58.4	61.2	53.1	-	
14:00-15:00	56.7	60.6	51.6	-	
15:00-16:00	56.6	60.2	51.5	-	
16:00-17:00	57.3	61.6	52.0	-	
17:00-18:00	57.9	61.0	53.6	-	
18:00-19:00	55.5	59.5	49.6	-	
19:00-20:00	50.3	56.6	46.0	-	
20:00-21:00	55.5	59.3	49.9	-	
21:00-22:00	58.0	64.3	55.5	-	
22:00-23:00	63.8	66.3	59.1	-	
23:00-00:00	62.0	63.8	57.9	-	
00:00-01:00	62.3	64.8	57.5	-	
01:00-02:00	61.6	64.0	57.7	-	
02:00-03:00	62.1	64.0	58.8	-	
03:00-04:00	62.2	63.9	58.0	-	
04:00-05:00	61.7	63.3	58.0	-	
05:00-06:00	62.0	63.8	58.5	-	
06:00-07:00	62.2	64.5	57.7	-	
07:00-08:00	61.3	63.0	57.4	-	
08:00-09:00	62.0	63.6	57.8	-	
09:00-10:00	62.4	65.1	57.4	-	
10:00-11:00	64.3	66.3	60.0	-	
L _{eq} 24 hr [dB(A)]	60.7	-	-	Less Than 70.0	
L _{max} [dB(A)]	88.0	-	-	Less Than 115.0	
L _{dn} [dB(A)]	68.3	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B06	Cirrus	CR161B		G301151
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.1		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

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(Thunyaphat Lansettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Fence of the West			Standard	
	May 2024				
	4-5				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
11:00-12:00	61.7	63.6	56.4	-	
12:00-13:00	61.5	63.6	57.0	-	
13:00-14:00	62.5	65.1	57.1	-	
14:00-15:00	63.2	65.6	58.3	-	
15:00-16:00	62.9	65.0	58.6	-	
16:00-17:00	62.6	64.1	58.0	-	
17:00-18:00	63.1	65.0	58.7	-	
18:00-19:00	62.4	64.5	59.0	-	
19:00-20:00	61.7	63.6	57.7	-	
20:00-21:00	62.3	64.2	58.8	-	
21:00-22:00	61.7	63.7	58.1	-	
22:00-23:00	59.9	62.0	57.3	-	
23:00-00:00	58.5	59.4	56.8	-	
00:00-01:00	58.7	60.2	56.8	-	
01:00-02:00	59.1	60.5	57.0	-	
02:00-03:00	59.0	60.6	57.2	-	
03:00-04:00	58.7	59.6	57.0	-	
04:00-05:00	58.5	59.6	56.6	-	
05:00-06:00	58.9	60.1	57.1	-	
06:00-07:00	59.6	60.0	57.0	-	
07:00-08:00	57.9	59.8	54.9	-	
08:00-09:00	58.4	60.9	54.6	-	
09:00-10:00	60.2	63.5	54.1	-	
10:00-11:00	62.2	65.0	56.0	-	
L _{eq} 24 hr [dB(A)]	61.0	-	-	Less Than 70.0	
L _{max} [dB(A)]	88.6	-	-	Less Than 115.0	
L _{dn} [dB(A)]	66.0	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R. 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B06	Cirrus	CR161B		G301151
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.1		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

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(Munyaphat Larsettha)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Fence of the West			Standard	
	May 2024				
	5-6				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
11:00-12:00	54.5	57.6	47.5	-	
12:00-13:00	53.6	59.6	50.3	-	
13:00-14:00	59.1	62.0	52.5	-	
14:00-15:00	61.4	64.0	58.0	-	
15:00-16:00	61.9	64.0	60.0	-	
16:00-17:00	62.1	64.0	60.9	-	
17:00-18:00	62.8	64.4	60.4	-	
18:00-19:00	62.7	65.4	59.3	-	
19:00-20:00	61.9	63.0	60.3	-	
20:00-21:00	62.1	63.0	58.5	-	
21:00-22:00	61.0	62.4	57.0	-	
22:00-23:00	58.4	59.7	56.9	-	
23:00-00:00	58.3	60.5	55.2	-	
00:00-01:00	56.0	57.6	54.5	-	
01:00-02:00	55.1	57.3	53.1	-	
02:00-03:00	55.9	59.2	53.9	-	
03:00-04:00	58.6	59.9	57.6	-	
04:00-05:00	58.7	60.3	56.0	-	
05:00-06:00	58.9	62.0	55.2	-	
06:00-07:00	56.4	63.0	52.0	-	
07:00-08:00	61.2	62.0	58.0	-	
08:00-09:00	58.8	61.3	55.7	-	
09:00-10:00	57.8	61.3	53.7	-	
10:00-11:00	57.9	60.0	55.0	-	
L _{eq} 24 hr [dB(A)]	59.7	-	-	Less Than 70.0	
L _{max} [dB(A)]	81.1	-	-	Less Than 115.0	
L _{dn} [dB(A)]	64.6	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R. 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B06	Cirrus	CR161B		G301151
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.1		94.0		

Remark:

Standard = Nuisance Noise and Noise Level from Factory Activities, Notification of the Ministry of Industry, B.E. 2548 (2005)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

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Technical Supervisor

14 / 05 / 24



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด

S.P.S. CONSULTING SERVICE CO., LTD.

7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจอมพล เขตจตุจักร กรุงเทพฯ 10900

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RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wat Map Tong			Standard	
	May 2024				
	3-4				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
13:00-14:00	57.5	60.3	51.8	-	
14:00-15:00	56.2	60.2	50.8	-	
15:00-16:00	56.4	60.2	50.5	-	
16:00-17:00	57.3	60.4	51.2	-	
17:00-18:00	57.8	62.1	52.2	-	
18:00-19:00	56.4	60.5	51.6	-	
19:00-20:00	52.6	56.3	46.5	-	
20:00-21:00	49.2	52.2	45.0	-	
21:00-22:00	46.3	50.2	44.0	-	
22:00-23:00	46.1	48.5	43.0	-	
23:00-00:00	45.2	49.0	42.3	-	
00:00-01:00	45.5	49.3	42.0	-	
01:00-02:00	43.4	46.2	41.2	-	
02:00-03:00	44.5	48.2	42.0	-	
03:00-04:00	44.9	49.0	41.3	-	
04:00-05:00	47.2	52.0	42.6	-	
05:00-06:00	50.1	56.2	48.2	-	
06:00-07:00	55.1	61.8	51.5	-	
07:00-08:00	60.3	65.8	54.9	-	
08:00-09:00	60.4	65.8	54.7	-	
09:00-10:00	59.4	63.7	54.5	-	
10:00-11:00	58.7	63.4	53.0	-	
11:00-12:00	58.9	61.7	53.0	-	
12:00-13:00	55.9	60.2	50.2	-	
L _{eq} 24 hr [dB(A)]	55.7	-	-	Less Than 70.0	
L _{max} [dB(A)]	95.4	-	-	Less Than 115.0	
L _{dn} [dB(A)]	57.9	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B09	Cirrus	CR161B		G301401
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.0		94.0		

Remark:

Standard = Community Noise Standards, Notification of the National Environment Board, No. 15, B.E. 2540 (1997)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

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(Thunyaphat Lanseththa)

Technical Supervisor

14 / 05 / 24



RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wat Map Tong			Standard	
	May 2024				
	4-5				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
13:00-14:00	59.2	63.6	54.0	-	
14:00-15:00	56.9	60.1	52.0	-	
15:00-16:00	55.3	59.7	50.3	-	
16:00-17:00	56.4	60.8	50.2	-	
17:00-18:00	59.3	64.0	53.2	-	
18:00-19:00	57.1	60.3	50.5	-	
19:00-20:00	51.7	55.0	47.5	-	
20:00-21:00	48.7	53.2	44.1	-	
21:00-22:00	47.3	50.2	43.4	-	
22:00-23:00	47.4	51.0	43.0	-	
23:00-00:00	45.7	49.0	42.5	-	
00:00-01:00	47.1	50.0	42.0	-	
01:00-02:00	43.2	48.2	40.5	-	
02:00-03:00	44.4	49.0	41.3	-	
03:00-04:00	47.5	50.3	43.1	-	
04:00-05:00	47.2	53.0	43.2	-	
05:00-06:00	50.1	55.5	46.8	-	
06:00-07:00	53.7	60.8	50.2	-	
07:00-08:00	59.6	63.0	54.2	-	
08:00-09:00	59.2	63.0	53.7	-	
09:00-10:00	60.1	64.5	54.1	-	
10:00-11:00	59.1	63.3	53.6	-	
11:00-12:00	58.5	63.0	53.2	-	
12:00-13:00	59.7	64.2	54.5	-	
L _{eq} 24 hr [dB(A)]	56.0	-	-	Less Than 70.0	
L _{max} [dB(A)]	90.8	-	-	Less Than 115.0	
L _{dn} [dB(A)]	58.0	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B09	Cirrus	CR161B		G301401
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.0		94.0		

Remark:

Standard = Community Noise Standards, Notification of the National Environment Board, No. 15, B.E. 2540 (1997)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRU, Model CR515, S/N. 92002

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.



Technical Supervisor

14 / 05 / 24



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด

S.P.S. CONSULTING SERVICE CO., LTD.

7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจอมพล เขตจตุจักร กรุงเทพฯ 10900

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Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscon.com., www.spscon.com

3/3

RY248/05/67

65/1/67, 66/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 3-6 May 2024
Project Location : 55 Moo 5 Nong Lalok, Ban Khai, Rayong Date Reported : 14 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Wat Map Tong			Standard	
	May 2024				
	5-6				
	L _{eq} 1 hr [dB(A)]	L ₁₀ [dB(A)]	L ₉₀ [dB(A)]		
13:00-14:00	59.4	63.0	53.6	-	
14:00-15:00	56.5	61.0	50.1	-	
15:00-16:00	58.6	61.4	52.3	-	
16:00-17:00	59.9	64.6	54.0	-	
17:00-18:00	59.4	63.0	54.4	-	
18:00-19:00	58.1	62.5	52.0	-	
19:00-20:00	53.0	57.5	47.0	-	
20:00-21:00	48.0	53.2	42.9	-	
21:00-22:00	45.3	49.9	41.6	-	
22:00-23:00	45.8	48.3	42.7	-	
23:00-00:00	45.5	49.6	42.5	-	
00:00-01:00	44.8	48.1	41.5	-	
01:00-02:00	45.3	48.2	41.6	-	
02:00-03:00	45.5	49.2	42.0	-	
03:00-04:00	45.9	50.7	42.2	-	
04:00-05:00	49.0	53.5	45.0	-	
05:00-06:00	51.7	58.5	50.2	-	
06:00-07:00	57.2	62.2	54.5	-	
07:00-08:00	59.9	65.2	54.1	-	
08:00-09:00	59.7	63.6	53.6	-	
09:00-10:00	58.8	63.2	53.6	-	
10:00-11:00	57.9	62.0	52.5	-	
11:00-12:00	57.6	61.0	52.0	-	
12:00-13:00	57.9	62.0	52.0	-	
L _{eq} 24 hr [dB(A)]	56.3	-	-	Less Than 70.0	
L _{max} [dB(A)]	94.8	-	-	Less Than 115.0	
L _{dn} [dB(A)]	59.0	-	-	-	
-	Sound Level Meter Data			-	
	Calibrate Sheet No.: Noise R 263/24		02 May 2024		
	SLM No.	Brand	Model		Serial No.
	CR-B09	Cirrus	CR161B		G301401
	Actual Reading [dB]				
	Before Adjustment		After Adjustment		
	94.0		94.0		

Remark:

Standard = Community Noise Standards, Notification of the National Environment Board, No. 15, B.E. 2540 (1997)

Sampling Method = Sound Level Meter

Acoustic Calibrator, CIRRUS, Model CR515, S/N. 92002

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Thunyaphat Lanseththa)

Technical Supervisor

14 / 05 / 24

เอกสาร 4-6

รายงานผลการตรวจวิเคราะห์คุณภาพอากาศในสถานประกอบการ



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด

S.P.S. CONSULTING SERVICE CO., LTD.

7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจอมพล เขตจตุจักร กรุงเทพฯ 10900

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1/1

Ref. No. AR121/05/24

Report No. 2405/109

65/05/67

Workplace Air Quality Analysis Report

Project : HRC & SKP
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Company Limited
Sampling by : Thitinan Ruangram
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 4 May 2024
Date Received : 7 May 2024
Date of Analysis : 7-17 May 2024
Date Reported : 20 May 2024

Parameter	Sampling Method	Analytical Method	Electric Furnace Area
PM ₁₀ (mg/m ³)	High Volume PM ₁₀ Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.101

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.

(Preeyanuch Tasajan)

Laboratory Supervisor

20 / 05 / 24

----- End of Report -----



Ref. No. AR123/05/24

Report No. 2405/109

65/05/67

Workplace Air Quality Analysis Report

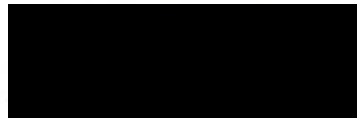
Project : HRC & SKP
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Company Limited
Sampling by : Thitinan Ruangram
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 4 May 2024
Date Received : 7 May 2024
Date of Analysis : 7-17 May 2024
Date Reported : 20 May 2024

Parameter	Sampling Method	Analytical Method	Preparation Scrap Metal Area
PM ₁₀ (mg/m ³)	High Volume PM ₁₀ Air Sampler	Gravimetric Method (U.S. EPA 40 CFR Part 50 Appendix J)	0.251

Reported results refer to submitted samples only.

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(Preeyanuch Tasajan)

Laboratory Supervisor

20 / 05 / 24

----- End of Report -----



Ref. No. AR120/05/24

Report No. 2405/109

65/05/67

Workplace Air Quality Analysis Report

Project : HRC & SKP
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Limited Company
Sampling by : Thitinan Ruangram
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 4 May 2024
Date Received : 7 May 2024
Date of Analysis : 7-17 May 2024
Date Reported : 20 May 2024

Parameter	Sampling Method	Analytical Method	Employee In Front of Electric Furnace (K. Surasak Prachomchai)	Standard
Respirable Dust (mg/m ³)	Cyclone-Filter	Gravimetric Method (NIOSH 0600)	0.48	5

หมายเหตุ:

Standard = Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) on 8-hour time weighted averages (TWAs)

Reported results refer to submitted samples only.

Do not copy partial of this analysis report without official approval.



Laboratory Supervisor

20 5, 24

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----- End of Report -----



Ref. No. AR122/05/24

Report No. 2405/109

65/05/67

Workplace Air Quality Analysis Report

Project : HRC & SKP
Project Location : 55 Moo 5, Nong Lalok, Ban Khai, Rayong
Client Name/Address : G Steel Public Company Limited
Sampling by : Thitinan Ruangram
S.P.S. Consulting Service Co., Ltd.

Sampling Date : 4 May 2024
Date Received : 7 May 2024
Date of Analysis : 7-17 May 2024
Date Reported : 20 May 2024

Parameter	Sampling Method	Analytical Method	Preparing Scrap Metal (K. Yutsapat Chanton)	Standard
Respirable Dust (mg/m ³)	Cyclone-Filter	Gravimetric Method (NIOSH 0600)	0.66	5

หมายเหตุ:

Standard = Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) on 8-hour time weighted averages (TWAs)

Reported results refer to submitted samples only.

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Laboratory Supervisor

20 / 05 / 24

----- End of Report -----

เอกสาร 4-7

รายงานผลการตรวจวัดระดับเสียงในสถานประกอบการ



RY029/03/67

65/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 31 March 2024
Project Location : 55 Moo 5 Nonglalog, Bankhai, Rayong Date Reported : 9 April 2024
Client Name/Address : G Steel Public Company Limited
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Melt Shop Department					Standard
	Electric Furnace Area					
	L _{eq} 1 hr [dB(A)]					
07:00-08:00	105.8					-
08:00-09:00	107.5					-
09:00-10:00	107.2					-
10:00-11:00	108.2					-
11:00-12:00	107.6					-
12:00-13:00	109.0					-
13:00-14:00	107.8					-
14:00-15:00	107.7					-
L _{eq} 8 hr [dB(A)]	107.7					Less Than 90.0 ^[1]
TWA 8 hr [dB(A)]	107.8					Less Than 85.0 ^[3]
L _{rmax} [dB(A)]	124.8					Less Than 140.0 ^[1]
						Less Than 115.0 ^[2]
L _{rmin} [dB(A)]	74.6					-
-	Sound Level Meter Data					-
	Calibrate Sheet No.: R 153/24			30 March 2024		
	Equipment	Brand	Model	Serial No.	Standard	
	Sound Level Meter (No.R40)	ACO	6236	00192052	IEC 61672	
	Actual Reading [dB]					
	Before Adjustment			After Adjustment		
	93.9			93.9		

Remark:

- Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)
- Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette on 17 October B.E. 2559 (2016)
- Standard^[3] = Standard of the Allowable Average Noise Level for Employees Obtain in a Working Day, Notification of the Department of Labour Protection and Welfare, Dated 13 December B.E. 2560 (2017) B.E., Published in the Government Gazette on 26 January B.E. 2561 (2018)
- Sampling Method = Sound Level Meter
- Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

(Jarinee Nunthavisut)

Technician and Analysis of Work Environment

9 / 4 / 24



RY029/03/67

65/1/67

Noise Level Report

Project : HRC & SKP
Project Location : 55 Moo 5 Nonglalog, Bankhai, Rayong
Client Name/Address : G Steel Public Company Limited
Sampling By : S.P.S. Consulting Service Co., Ltd.
Sampling Date : 31 March 2024
Date Reported : 9 April 2024

Time	Hot Strip Mill Department					Standard
	Iron Press Area					
	L _{eq} 1 hr [dB(A)]					
07:00-08:00	89.0					-
08:00-09:00	88.1					-
09:00-10:00	88.9					-
10:00-11:00	88.7					-
11:00-12:00	89.0					-
12:00-13:00	88.4					-
13:00-14:00	88.3					-
14:00-15:00	88.5					-
L _{eq} 8 hr [dB(A)]	88.6					Less Than 90.0 ^[1]
TWA 8 hr [dB(A)]	88.6					Less Than 85.0 ^[3]
L _{max} [dB(A)]	99.3					Less Than 140.0 ^[1]
						Less Than 115.0 ^[2]
L _{min} [dB(A)]	84.2					-
-	Sound Level Meter Data					-
	Calibrate Sheet No.: R 153/24			30 March 2024		
	Equipment	Brand	Model	Serial No.	Standard	
	Sound Level Meter (No.R41)	ACO	6236	00192053	IEC 61672	
	Actual Reading [dB]					
	Before Adjustment			After Adjustment		
	93.8			93.9		

Remark:

- Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)
- Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette on 17 October B.E. 2559 (2016)
- Standard^[3] = Standard of the Allowable Average Noise Level for Employees Obtain in a Working Day, Notification of the Department of Labour Protection and Welfare, Dated 13 December B.E. 2560 (2017) B.E., Published in the Government Gazette on 26 January B.E. 2561 (2018)
- Sampling Method = Sound Level Meter
- Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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(Jarinee Nunthavisut)

Technician and Analysis of Work Environment

9 / 4 / 24



RY029/03/67

65/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 31 March 2024
Project Location : 55 Moo 5 Nonglalog, Bankhai, Rayong Date Reported : 9 April 2024
Client Name/Address : G Steel Public Company Limited
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Finishing Mill-Skin Pass Slitting Cut Sheet Department					Standard
	Iron Press Area, Surface Conditioning (Extension)					
	L _{eq} 1 hr [dB(A)]					
07:00-08:00	82.1					-
08:00-09:00	82.5					-
09:00-10:00	82.4					-
10:00-11:00	82.7					-
11:00-12:00	81.6					-
12:00-13:00	82.9					-
13:00-14:00	82.0					-
14:00-15:00	82.5					-
L _{eq} 8 hr [dB(A)]	82.4					Less Than 90.0 ^[1]
TWA 8 hr [dB(A)]	82.4					Less Than 85.0 ^[3]
L _{max} [dB(A)]	103.0					Less Than 140.0 ^[1]
						Less Than 115.0 ^[2]
L _{min} [dB(A)]	76.6					-
-	Sound Level Meter Data					-
	Calibrate Sheet No.: R 153/24			30 March 2024		
	Equipment	Brand	Model	Serial No.	Standard	
	Sound Level Meter (No.R50)	ACO	6236	00192062	IEC 61672	
	Actual Reading [dB]					
	Before Adjustment			After Adjustment		
	93.9			93.9		

Remark:

- Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)
- Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette on 17 October B.E. 2559 (2016)
- Standard^[3] = Standard of the Allowable Average Noise Level for Employees Obtain in a Working Day, Notification of the Department of Labour Protection and Welfare, Dated 13 December B.E. 2560 (2017) B.E., Published in the Government Gazette on 26 January B.E. 2561 (2018)
- Sampling Method = Sound Level Meter
- Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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(Jarinee Nunthavisut)

Technician and Analysis of Work Environment

9 / 4 / 24



RY071/06/67

65/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 14 June 2024
Project Location : 55 Moo 5 Nonglalog, Bankhai, Rayong Date Reported : 24 June 2024
Client Name/Address : G Steel Public Company Limited
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Melt Shop Department					Standard
	Electric Furnace Area					
	L _{eq} 1 hr [dB(A)]					
08:30-09:30	106.7					-
09:30-10:30	108.6					-
10:30-11:30	106.9					-
11:30-12:30	105.3					-
12:30-13:30	108.4					-
13:30-14:30	107.5					-
14:30-15:30	106.8					-
15:30-16:30	107.9					-
L _{eq} 8 hr [dB(A)]	107.4					Less Than 90.0 ^[1]
TWA 8 hr [dB(A)]	107.5					Less Than 85.0 ^[3]
L _{max} [dB(A)]	121.4					Less Than 140.0 ^[1]
						Less Than 115.0 ^[2]
L _{min} [dB(A)]	74.7					-
-	Sound Level Meter Data					-
	Calibrate Sheet No.: R_346/24			06 June 2024		
	Equipment	Brand	Model	Serial No.	Standard	
	Sound Level Meter (No.R50)	ACO	6236	00192062	IEC 61672	
	Actual Reading [dB]					
	Before Adjustment			After Adjustment		
	93.9			93.9		

Remark:

- Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)
- Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette on 17 October B.E. 2559 (2016)
- Standard^[3] = Standard of the Allowable Average Noise Level for Employees Obtain in a Working Day, Notification of the Department of Labour Protection and Welfare, Dated 13 December B.E. 2560 (2017) B.E., Published in the Government Gazette on 26 January B.E. 2561 (2018)
- Sampling Method = Sound Level Meter
- Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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(Phenpha Vipasthawatt)

Technician and Analysis of Work Environment

24 / 06 / 24



RY071/06/67

65/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 14 June 2024
Project Location : 55 Moo 5 Nonglalog, Bankhai, Rayong Date Reported : 24 June 2024
Client Name/Address : G Steel Public Company Limited
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hot Strip Mill Department					Standard
	Iron Press Area					
	L _{eq} 1 hr [dB(A)]					
08:30-09:30	88.5					-
09:30-10:30	88.6					-
10:30-11:30	88.8					-
11:30-12:30	88.7					-
12:30-13:30	88.4					-
13:30-14:30	88.7					-
14:30-15:30	88.7					-
15:30-16:30	88.8					-
L _{eq} 8 hr [dB(A)]	88.7					Less Than 90.0 ^[1]
TWA 8 hr [dB(A)]	88.7					Less Than 85.0 ^[3]
L _{max} [dB(A)]	101.5					Less Than 140.0 ^[1]
						Less Than 115.0 ^[2]
L _{min} [dB(A)]	84.9					-
-	Sound Level Meter Data					-
	Calibrate Sheet No.: R 346/24			06 June 2024		
	Equipment	Brand	Model	Serial No.	Standard	
	Sound Level Meter (No.R51)	ACO	6236	00192063	IEC 61672	
	Actual Reading [dB]					
	Before Adjustment			After Adjustment		
	93.9			93.9		

Remark:

- Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment, Notification of the Ministry of Industry, B.E. 2546 (2003)
- Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette on 17 October B.E. 2559 (2016)
- Standard^[3] = Standard of the Allowable Average Noise Level for Employees Obtain in a Working Day, Notification of the Department of Labour Protection and Welfare, Dated 13 December B.E. 2560 (2017) B.E., Published in the Government Gazette on 26 January B.E. 2561 (2018)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

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(Phenpha Vipasthawatt)

Technician and Analysis of Work Environment

24 / 06 / 24



บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด

S.P.S. CONSULTING SERVICE CO., LTD.

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7 Soi Phaholyothin 24, Phaholyothin Rd., Jompol, Chatuchak, Bangkok 10900

Tel : (662) 939-4370-72, Fax : (662) 513-4221, E-mail : sale@spscon.com., www.spscon.com

1/1

RY071/06/67

65/1/67

Noise Level Report

Project : HRC & SKP Sampling Date : 7 June 2024
Project Location : 55 Moo 5 Nonglalog, Bankhai, Rayong Date Reported : 24 June 2024
Client Name/Address : G Steel Public Company Limited
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Finishing Mill-Skin Pass Slitting Cut Sheet Department					Standard
	Iron Press Area, Surface Conditioning (Extension)					
	L _{eq} 1 hr [dB(A)]					
08:30-09:30	78.2					-
09:30-10:30	78.0					-
10:30-11:30	77.9					-
11:30-12:30	76.7					-
12:30-13:30	77.4					-
13:30-14:30	77.9					-
14:30-15:30	77.6					-
15:30-16:30	73.2					-
L _{eq} 8 hr [dB(A)]	77.3					Less Than 90.0 ^[1]
TWA 8 hr [dB(A)]	77.3					Less Than 85.0 ^[3]
L _{max} [dB(A)]	100.5					Less Than 140.0 ^[1]
						Less Than 115.0 ^[2]
L _{min} [dB(A)]	54.1					-
-	Sound Level Meter Data					-
	Calibrate Sheet No.: R 346/24			06 June 2024		
	Equipment	Brand	Model	Serial No.	Standard	
	Sound Level Meter (No.R52)	ACO	6236	00192064	IEC 61672	
	Actual Reading [dB]					
	Before Adjustment			After Adjustment		
	94.0			93.9		

Remark:

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)

Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette
on 17 October B.E. 2559 (2016)

Standard^[3] = Standard of the Allowable Average Noise Level for Employees Obtain in a Working Day,
Notification of the Department of Labour Protection and Welfare, Dated 13 December B.E. 2560 (2017)
B.E., Published in the Government Gazette on 26 January B.E. 2561 (2018)

Sampling Method = Sound Level Meter

Acoustic Calibrator, ACO, Model 2127, S/N. 130006, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

[Redacted Signature]

(Phenpha Vipasthawatt)

Technician and Analysis of Work Environment

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บริษัท เอส.พี.เอส. คอนซัลติ้ง เซอร์วิส จำกัด

S.P.S. CONSULTING SERVICE CO., LTD.

7 ซอยพหลโยธิน 24 ถนนพหลโยธิน แขวงจอมพล เขตจตุจักร กรุงเทพฯ 10900
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RY198/06/67

65/05/67

Noise Level Report

Project : HRC & SKP Sampling Date : 15 June 2024
Project Location : 55 Moo 5, Nong Lalog, Ban Khai, Rayong Date Reported : 24 June 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

No.	Department	Stations	Name	Date	Time	Results Refer		Calculation Results from Workers Wear Personal Protective Equipment		
						%Dose	TWA [dB(A)]	Sound Level [dB(A)]	NRR _{adj} [dB(A)]	Protected [dB(A)]
1	Melt Shop	Steel Making Area	Mr. Anuchit Nakkan	15/06/2024	09:28-17:28	3,341.80	100.2*	100.2*	21.8	85.4
Standard						-	Less Than 85.0	-	-	Less Than 85.0
Sound Level Meter Data										
Calibrate Sheet No.: R_356/24						14 JUNE 2024				
No.	Equipment	Brand	Model	Serial No.	Standard	Actual Reading [dB]				
						Before Adjustment	After Adjustment			
1	Noise Dosimeter (No.B01)	SVANTEK	SV-104IS	80840	IEC 61252	113.5		113.5		

Remark :

Standard = Standard of the Allowable Average Noise Level for Employees Obtain in a Working Day,
Notification of the Department of Labour Protection and Welfare, B.E. 2561 (2018)
Dated 13 December B.E. 2560 (2017) Published in the Government Gazette on 26 January B.E. 2561 (2018)
Sound Level Calculation in Ear when Wear Personal Protective Equipment,
Notification of the Department of Labour Protection and Welfare, Date 18 January B.E. 2561 (2018),
Published in the Government Gazette on 14 February B.E. 2561 (2018)

* = Noise Dose Level Report (Workers Obtain in a Working Day Without Personal Protective Equipment)

Protected [dB(A)] : Sound Level [dB(A)] - [NRR_{adj} - 7]

Protected [dB(A)] = Sound Level in Ear when Wear Personal Protective Equipment on the Scale A or Decibel A

Sound Level [dB(A)] = Average Sound Level in 8 Hour Working Day on the Scale A or Decibel A

NRR_{adj} = Values of Noise Reduction Provided by Personal Protective Equipment

Noise Reduction Rating (NRR) is 29 [dB(A)], 25% of Noise Reduction is 21.8 [dB(A)]

Sampling Method = Noise Dosimeter

Workers Wear Foam EarMuff, Brand 3M, Model H10B

Acoustic Calibrator, SVANTEK, Model SV34, S/N. 33137, IEC 60942

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

[Redacted Signature]

(Phenpha Vipasthawatt)

Technician and Analysis of Work Environment

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RS/G026/24/JUNE



RY250/05/67

65/05/67

Noise Level Report

Project : HRC & SKP Sampling Date : 4 May 2024
Project Location : 55 Moo 5, Nong Lalog, Ban Khai, Rayong Date Reported : 8 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

No.	Department	Stations	Name	Date	Time	Results Refer		Calculation Results from Workers Wear Personal Protective Equipment		
						%Dose	TWA [dB(A)]	Sound Level [dB(A)]	NRR _{adj} [dB(A)]	Protected [dB(A)]
1	Hot Strip Mill	Hot Rolling Mill Area	K. Angkan Kethong	04/05/2024	08:05-16:05	122.10	85.9*	85.9*	16.5	76.4
Standard						-	Less Than 85.0	-	-	Less Than 85.0
Sound Level Meter Data										
Calibrate Sheet No.: R_264/24						03 MAY 2024				
No.	Equipment	Brand	Model	Serial No.	Standard	Actual Reading [dB]				
						Before Adjustment	After Adjustment			
1	Noise Dosimeter (No.B02)	SVANTEK	SV-104IS	80842	IEC 61252	113.6		113.5		

Remark :

Standard = Standard of the Allowable Average Noise Level for Employees Obtain in a Working Day,
Notification of the Department of Labour Protection and Welfare, B.E. 2561 (2018)
Dated 13 December B.E. 2560 (2017) Published in the Government Gazette on 26 January B.E. 2561 (2018)
Sound Level Calculation in Ear when Wear Personal Protective Equipment,
Notification of the Department of Labour Protection and Welfare, Date 18 January B.E. 2561 (2018),
Published in the Government Gazette on 14 February B.E. 2561 (2018)

* = Noise Dose Level Report (Workers Obtain in a Working Day Without Personal Protective Equipment)

Protected [dB(A)] : Sound Level [dB(A)] - [NRR_{adj} - 7]

Protected [dB(A)] = Sound Level in Ear when Wear Personal Protective Equipment on the Scale A or Decibel A

Sound Level [dB(A)] = Average Sound Level in 8 Hour Working Day on the Scale A or Decibel A

NRR_{adj} = Values of Noise Reduction Provided by Personal Protective Equipment

Noise Reduction Rating (NRR) is 33 [dB(A)], 50% of Noise Reduction is 16.5 [dB(A)]

Sampling Method = Noise Dosimeter

Workers Wear Foam Earplug (Foam), Brand 3M

Acoustic Calibrator, SVANTEK, Model SV34, S/N. 33137, IEC 60942

Reported results refer to measurement time only.

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Technician and Analysis of Work Environment

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RY071/06/67

65/05/67

Noise Level Report

Project : HRC & SKP Sampling Date : 7 June 2024
Project Location : 55 Moo 5, Nong Lalog, Ban Khai, Rayong Date Reported : 24 June 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

No.	Department	Stations	Name	Date	Time	Results Refer		Calculation Results from Workers Wear Personal Protective Equipment		
						%Dose	TWA [dB(A)]	Sound Level [dB(A)]	NRR _{adj} [dB(A)]	Protected [dB(A)]
1	Finishing Mill-Skin Pass	Iron Press Area (Extension)	Mr. Kovit Kankaew	07/06/2024	07:35-15:35	58.26	82.7*	82.7*	16.5	73.2
Standard						-	Less Than 85.0	-	-	Less Than 85.0
Sound Level Meter Data										
Calibrate Sheet No.: R_347/24					06 JUNE 2024					
No.	Equipment	Brand	Model	Serial No.	Standard	Actual Reading [dB]				
						Before Adjustment		After Adjustment		
1	Noise Dosimeter (No.B09)	SVANTEK	SV-104IS	80829	IEC 61252	113.5		113.5		

Remark :

Standard = Standard of the Allowable Average Noise Level for Employees Obtain in a Working Day, Notification of the Department of Labour Protection and Welfare, B.E. 2561 (2018)
Dated 13 December B.E. 2560 (2017) Published in the Government Gazette on 26 January B.E. 2561 (2018)
Sound Level Calculation in Ear when Wear Personal Protective Equipment,
Notification of the Department of Labour Protection and Welfare, Date 18 January B.E. 2561 (2018),
Published in the Government Gazette on 14 February B.E. 2561 (2018)

* = Noise Dose Level Report (Workers Obtain in a Working Day Without Personal Protective Equipment)

Protected [dB(A)] : Sound Level [dB(A)] – [NRR_{adj} – 7]

Protected [dB(A)] = Sound Level in Ear when Wear Personal Protective Equipment on the Scale A or Decibel A

Sound Level [dB(A)] = Average Sound Level in 8 Hour Working Day on the Scale A or Decibel A

NRR_{adj} = Values of Noise Reduction Provided by Personal Protective Equipment

Noise Reduction Rating (NRR) is 33 [dB(A)], 50% of Noise Reduction is 16.5 [dB(A)]

Sampling Method = Noise Dosimeter

Workers Wear Foam EarMuff, Brand 3M, Model H10B

Acoustic Calibrator, SVANTEK, Model SV34, S/N. 33137, IEC 60942

Reported results refer to measurement time only.

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เอกสาร 4-8

รายงานผลการตรวจวัดระดับความร้อน
และความเร็วลมในสถานประกอบการ



RY250/05/67

65/05/67

Heat Level Report

Project : HRC & SKP Sampling Date : 4 May 2024
Project Location : 55 Moo 5, Nong Lalog, Ban Khai, Rayong Date Reported : 8 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Melt Shop Department				Average (°C)	Standard
	Steel Making Area					
	08:40-09:10	09:10-09:40	09:40-10:10	10:10-10:40	(08:40-10:40)	
DB (°C)	35.9	36.4	36.8	37.3	36.6	
GT (°C)	37.1	37.5	38.2	38.6	37.9	
NWB (°C)	27.7	28.1	28.5	28.9	28.3	
WBGT (°C)	30.5	30.9	31.4	31.8	31.2	
						Less Than 34.0 ^{[1]/[2]}
Type of Work	Control Orderliness in front of the Furnace					Light Work Load
	Heat Stress WBGT Meter Data					
	Calibrate Sheet No.: SPR23090267-4		18 September 2023			
	Equipment	Brand	Model	Serial No.	Standard	
	Heat Stress WBGT Meter (No.R04)	Quest Technologies	QUESTemp 36	TEN040005	ISO 7243	

Remark :

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette
on 17 October B.E. 2559 (2016)

Indoor With No Solar Load : WBGT = 0.7 NWB + 0.3 GT

DB = Dry Bulb Temperature (°C)
GT = Globe Temperature (°C)
NWB = Natural Wet Bulb Temperature (°C)
WBGT = Wet Bulb Globe Temperature (°C)
Sampling Method = Wet Bulb Globe Temperature Index

Heat Stress WBGT Meter (No.R04) Calibrate before Measurement on 03 May 2024

Reported results refer to measurement time only.

Do not copy partial of this measurement report without official approval.

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RY250/05/67

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Heat Level Report

Project : HRC & SKP Sampling Date : 4 May 2024
Project Location : 55 Moo 5, Nong Lalog, Ban Khai, Rayong Date Reported : 8 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

Time	Hot Strip Mill Department				Average (°C)	Standard
	Hot Rolling Mil Area					
	09:10-09:40	09:40-10:10	10:10-10:40	10:40-11:10	(09:10-11:10)	
DB (°C)	34.1	34.4	34.7	35.1	34.6	Less Than 34.0 ^{[1]/[2]}
GT (°C)	35.5	35.9	36.3	36.7	36.1	
NWB (°C)	27.8	28.1	28.5	28.7	28.3	
WBGT (°C)	30.1	30.4	30.8	31.1	30.6	
Type of Work	Iron Press Operator					Light Work Load
	Heat Stress WBGT Meter Data					
	Calibrate Sheet No.: SPR24030285-6		20 March 2024			
	Equipment	Brand	Model	Serial No.	Standard	
	Heat Stress WBGT Meter (No.R05)	METROSONICS	hs-32	MCD070035	ISO 7243	

Remark :

Standard^[1] = Safety Protection Measures in Industrial Plant Operation Concerning Working Environment,
Notification of the Ministry of Industry, B.E. 2546 (2003)
Standard^[2] = Standard for Administration, Management and Implementation of Safety, Occupational Health and Working Environment
in Relation to Heat, Light and Noise, Regulation of the Ministry of Labour, B.E. 2559 (2016) Published in the Government Gazette
on 17 October B.E. 2559 (2016)

Indoor With No Solar Load : WBGT = 0.7 NWB + 0.3 GT

DB = Dry Bulb Temperature (°C)
GT = Globe Temperature (°C)
NWB = Natural Wet Bulb Temperature (°C)
WBGT = Wet Bulb Globe Temperature (°C)
Sampling Method = Wet Bulb Globe Temperature Index

Heat Stress WBGT Meter (No.R05) Calibrate before Measurement on 03 May 2024

Reported results refer to measurement time only.

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Technician and Analysis of Work Environment

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Wind speed Report

Project : HRC & SKP Sampling Date : 4 May 2024
Project Location : 55 Moo 5, Nong Lalog, Ban Khai, Rayong Date Reported : 8 May 2024
Client Name/Address : G Steel Public Limited Company
Sampling By : S.P.S. Consulting Service Co., Ltd.

No.	Department	Stations	Date	Time	Wind speed (Average) (ft/s)	General Environment During Measurement
1	Melt Shop	Steel Making Area	04/05/24	08:40-10:40	2.56	There are openings on both sides of factory buildings to allow air circulation.
2	Hot Strip Mill	Hot Rolling Mill Area	04/05/24	09:10-11:10	0.85	There are openings on both sides of factory buildings to allow air circulation.
Reference Value*					1	-

Remark :

* Wind speed that is comfortable for Thai people (Witoon, 2003)

Wind speed measurement is the same time as the installation of the heat level instrument in the facility.

Sampling Method = Hot Wire Anemometer

Reported results refer to measurement time only.

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