
	☐	☒	☐
	99		
	40		
	300	8	2400
	1 3	40	

	1 2GB16297-19962 3GB12348-20083

2-1						
			mg/ 285	/ 4	t/a	

1

			3000t/a	3000t/a
		24666.8m ²		

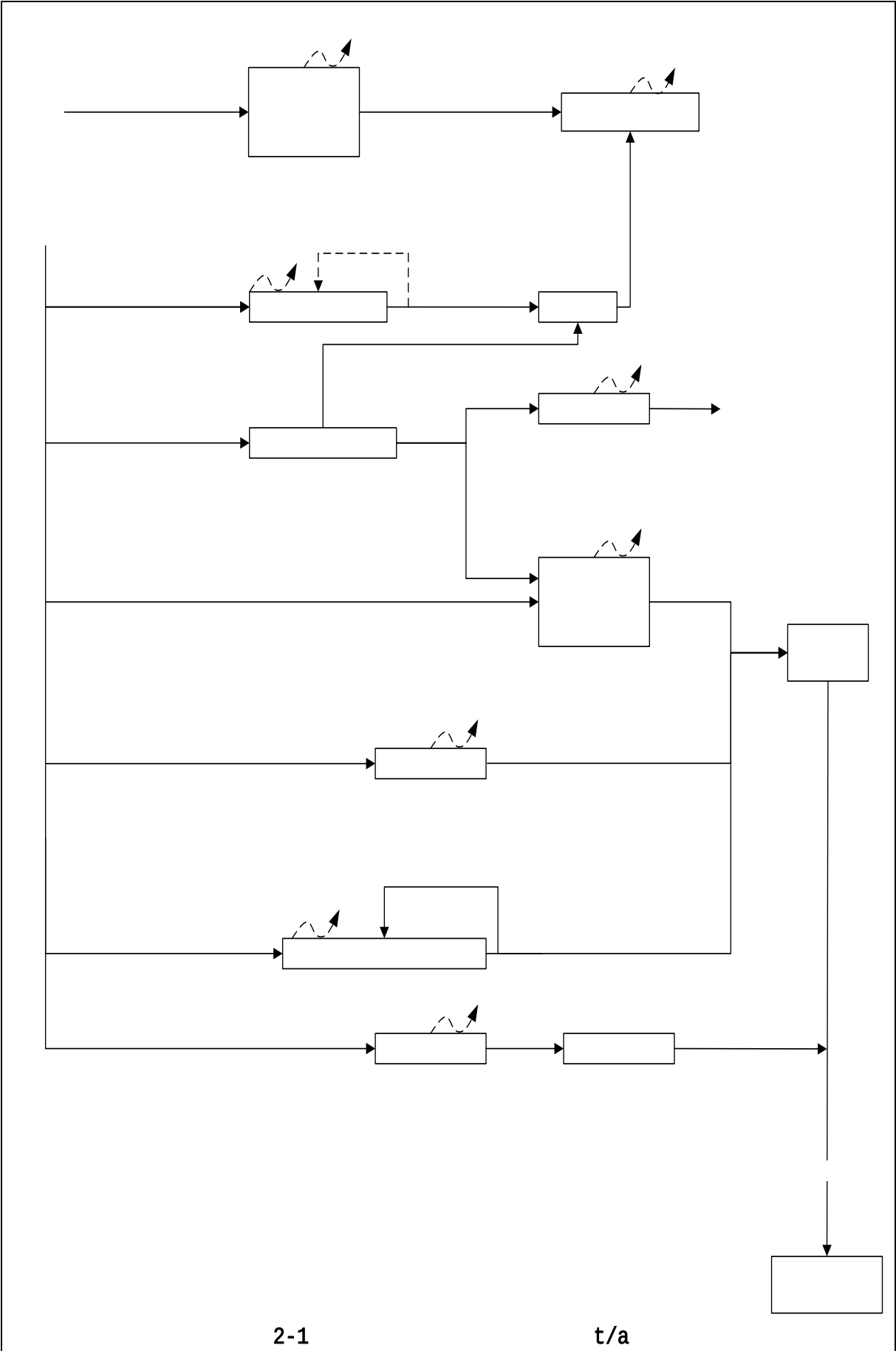
6		NTD600B+ZL700B		1	1
7	3000L	HYD3000		1	1
8	1500L	HYD1500		1	1
9		QZB5		2	

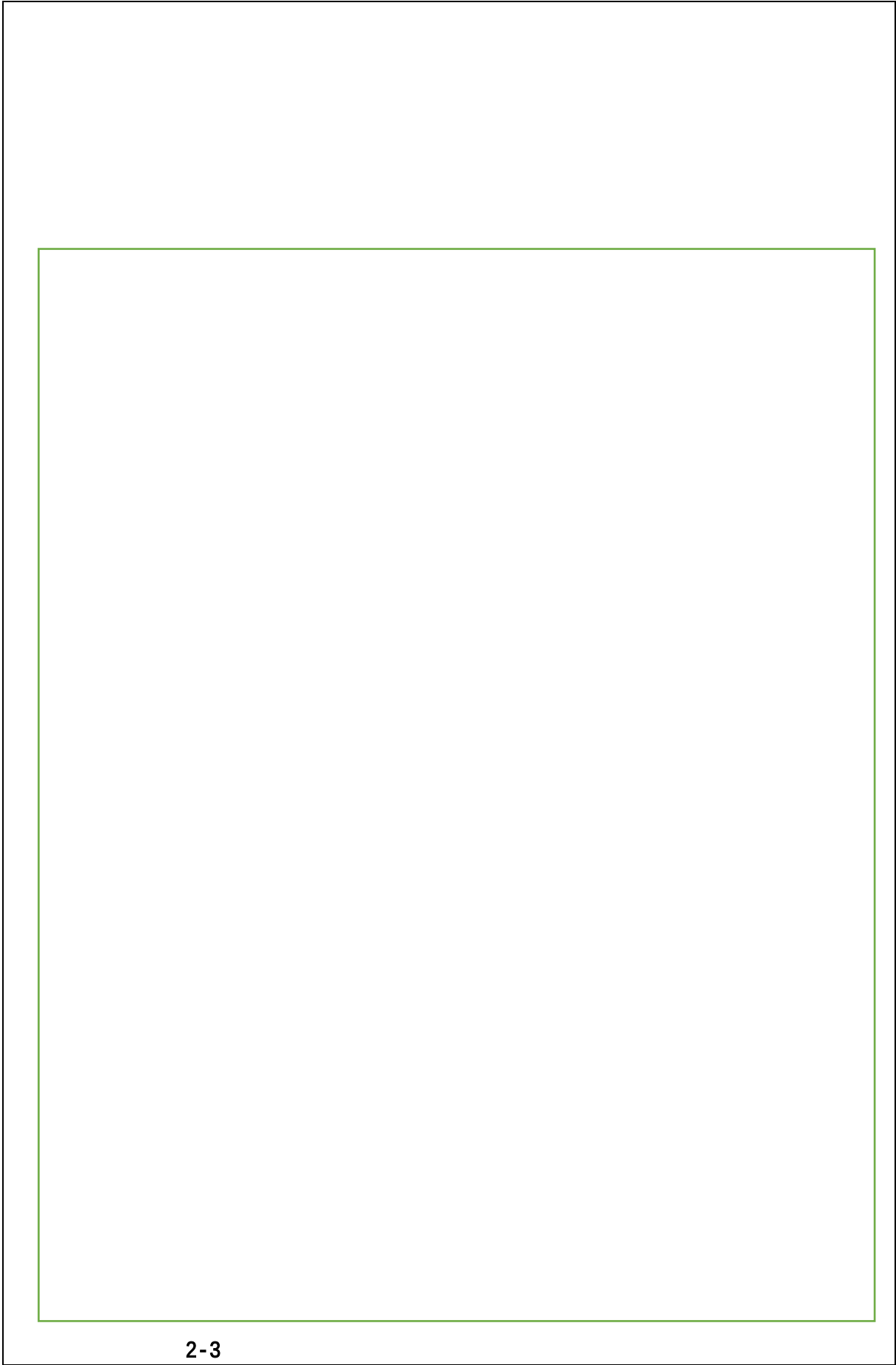
	32		300t/h		2	2
	33		/		3	3

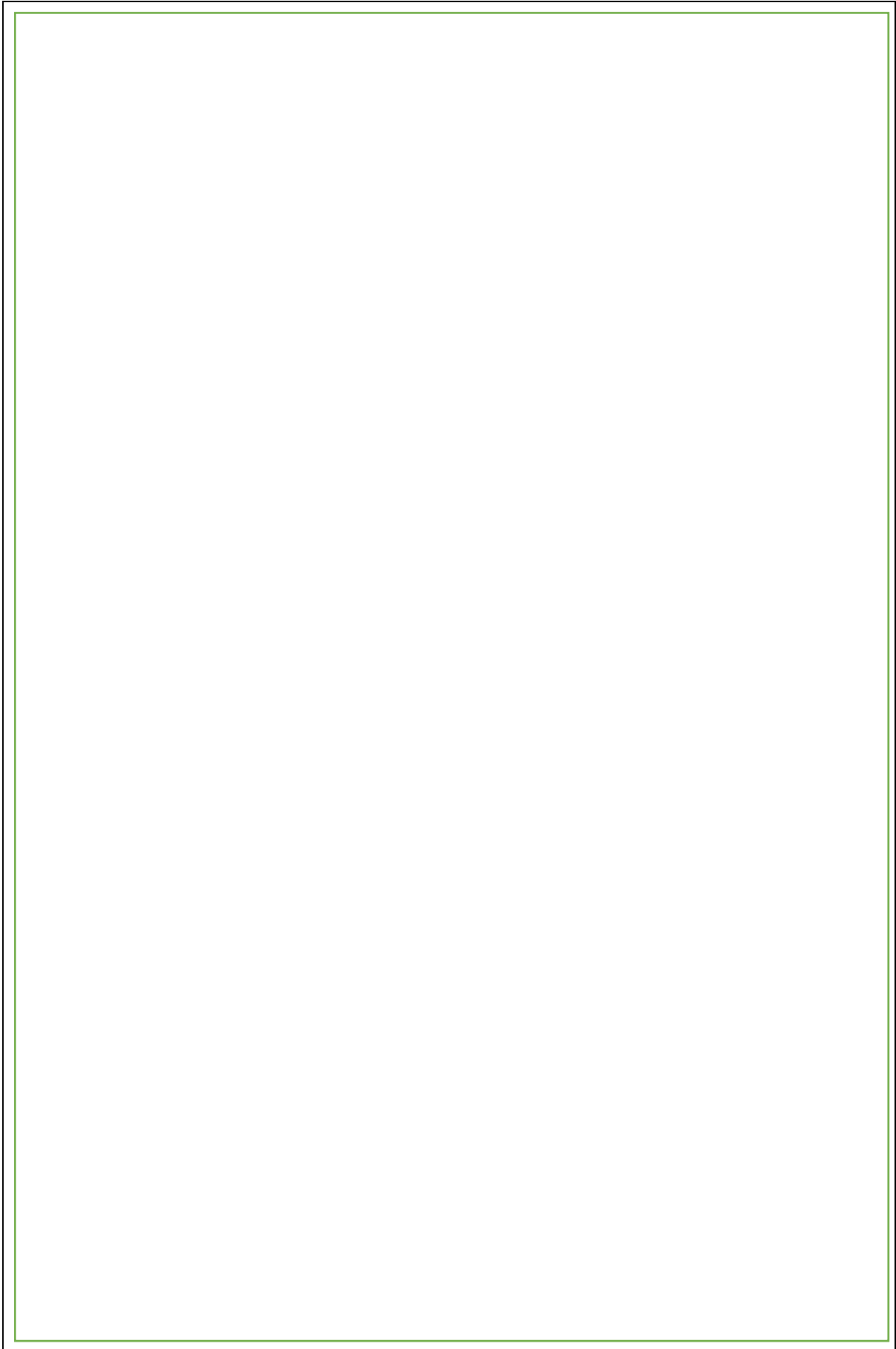
2-4

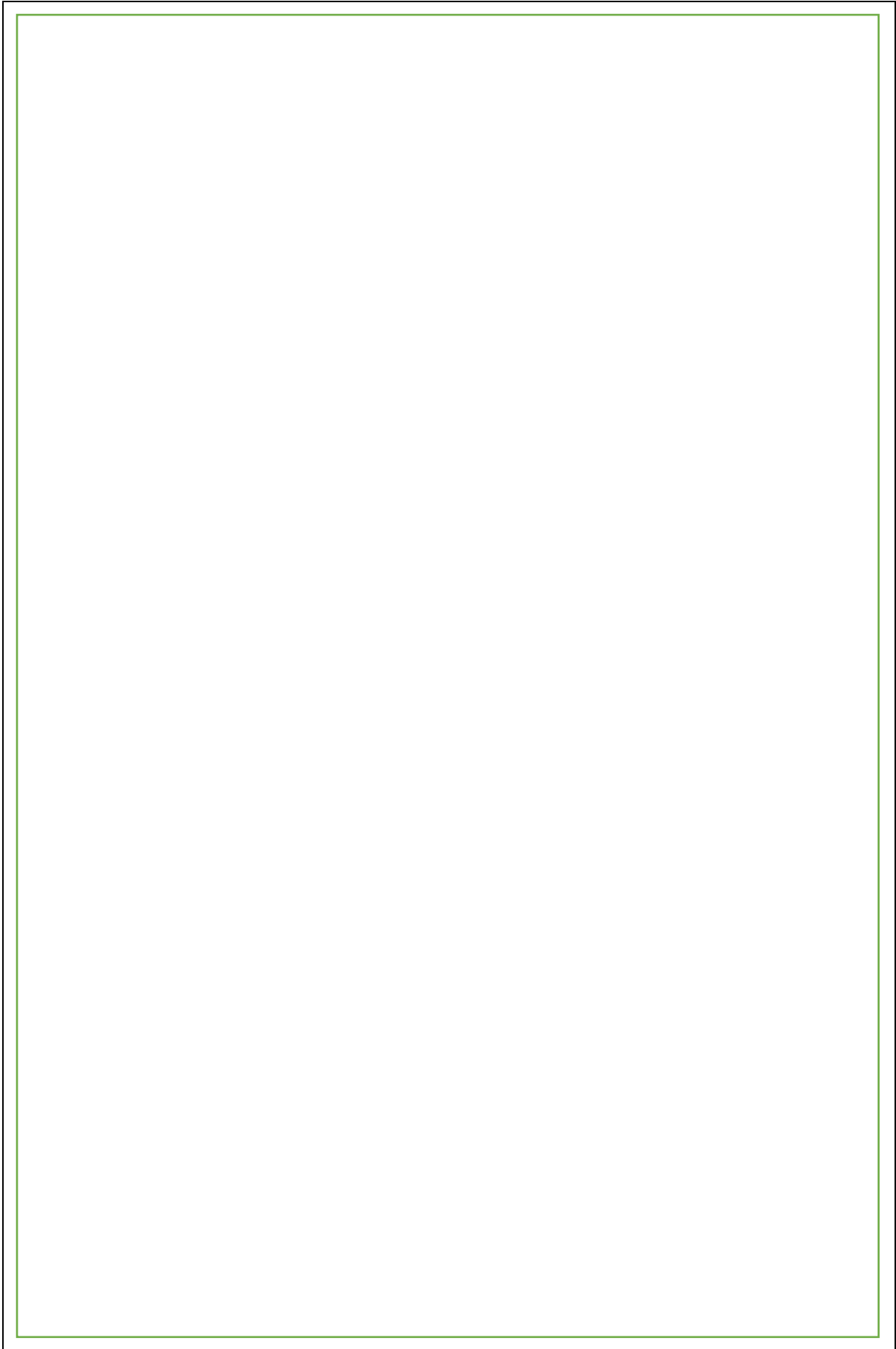
	2-4				
		/	kg	kg	kg

		/	21600	133	132
		/	108000	667	660
	100	/	108000	667	660
		/	5000	30.8	30.6
			63000	389	385
		/	270000	3000	2940
		/	48000	533	523
		/	30000	333	327
90		/	30000	333	327
		/	27000	300	294

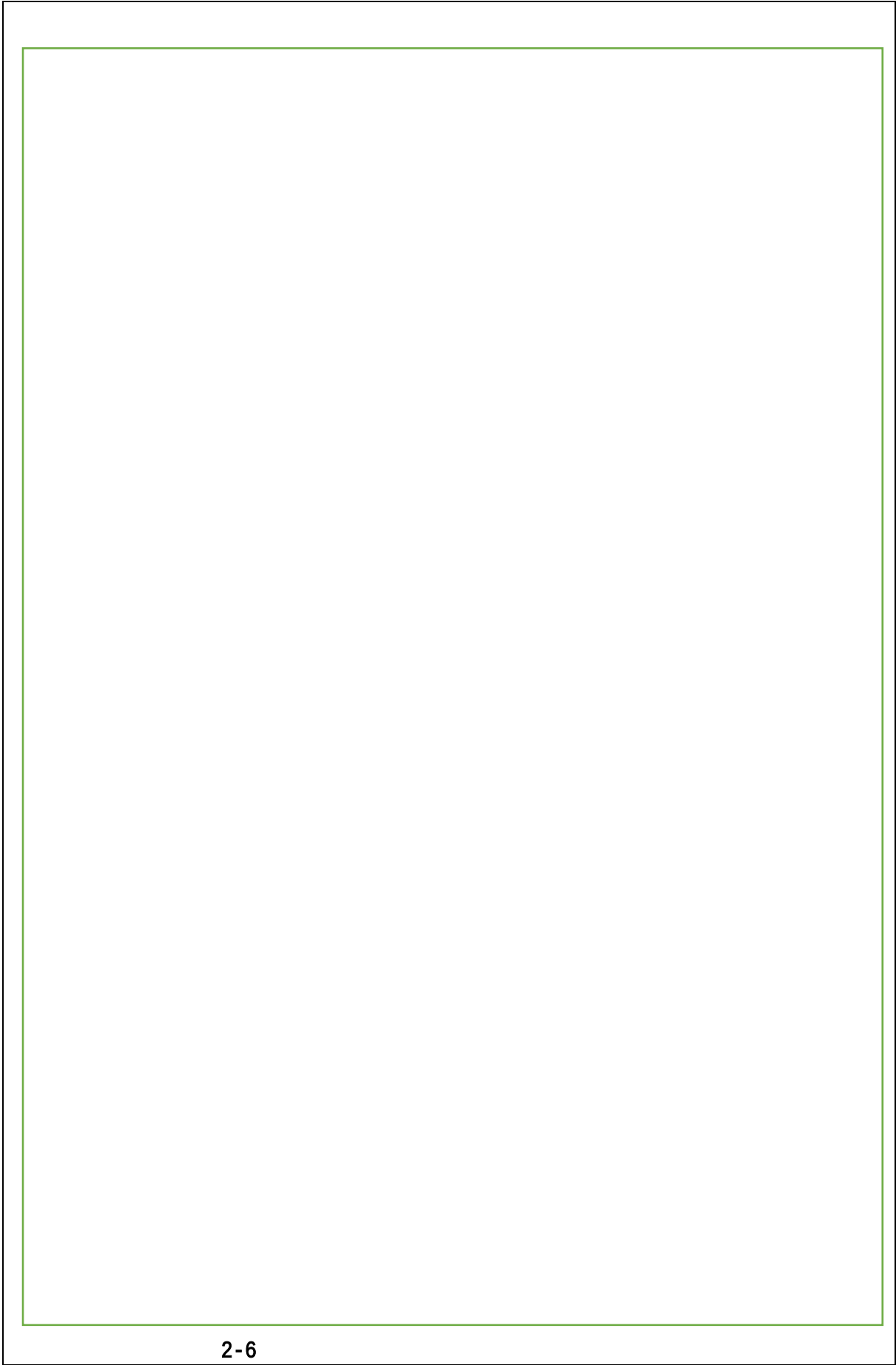


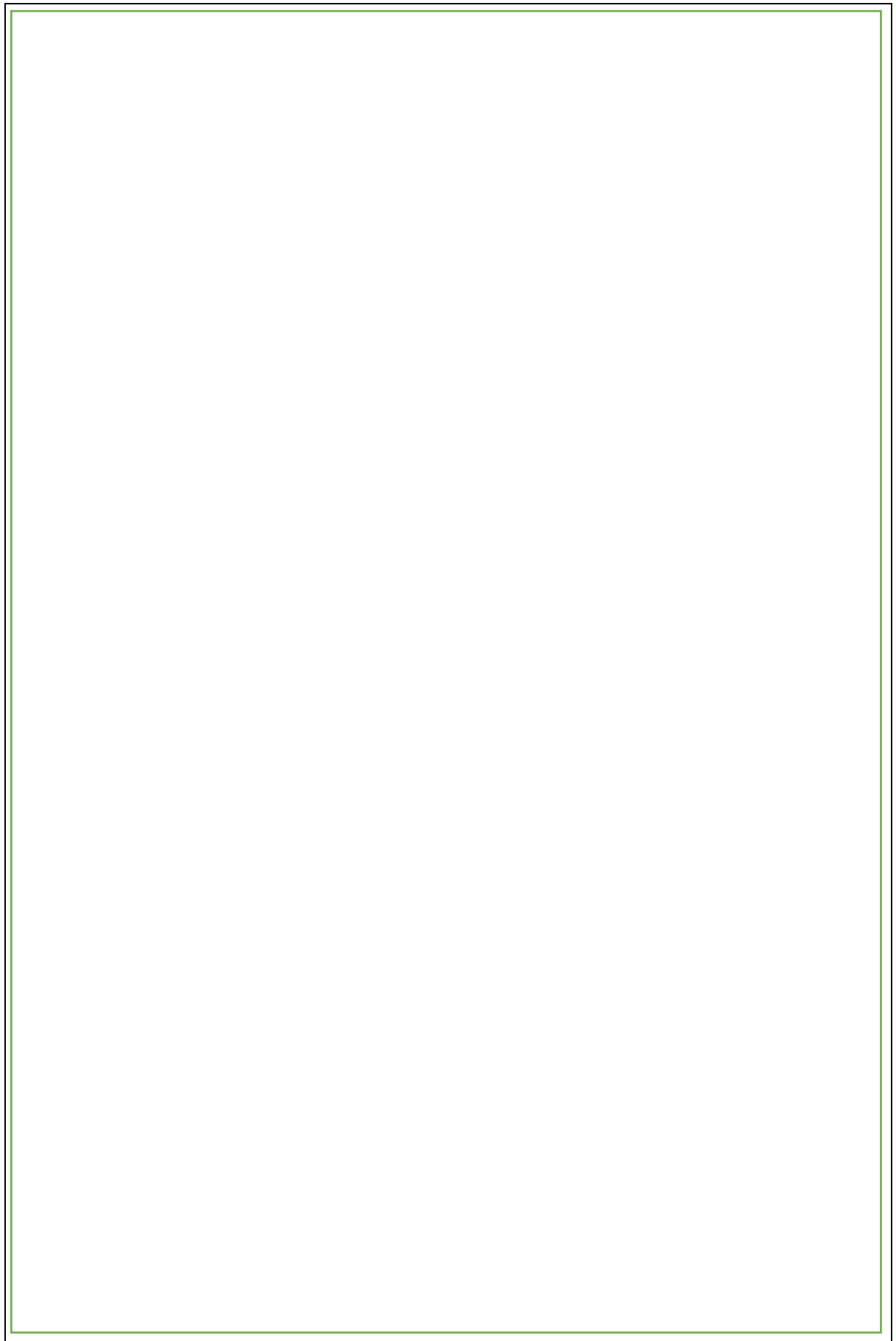


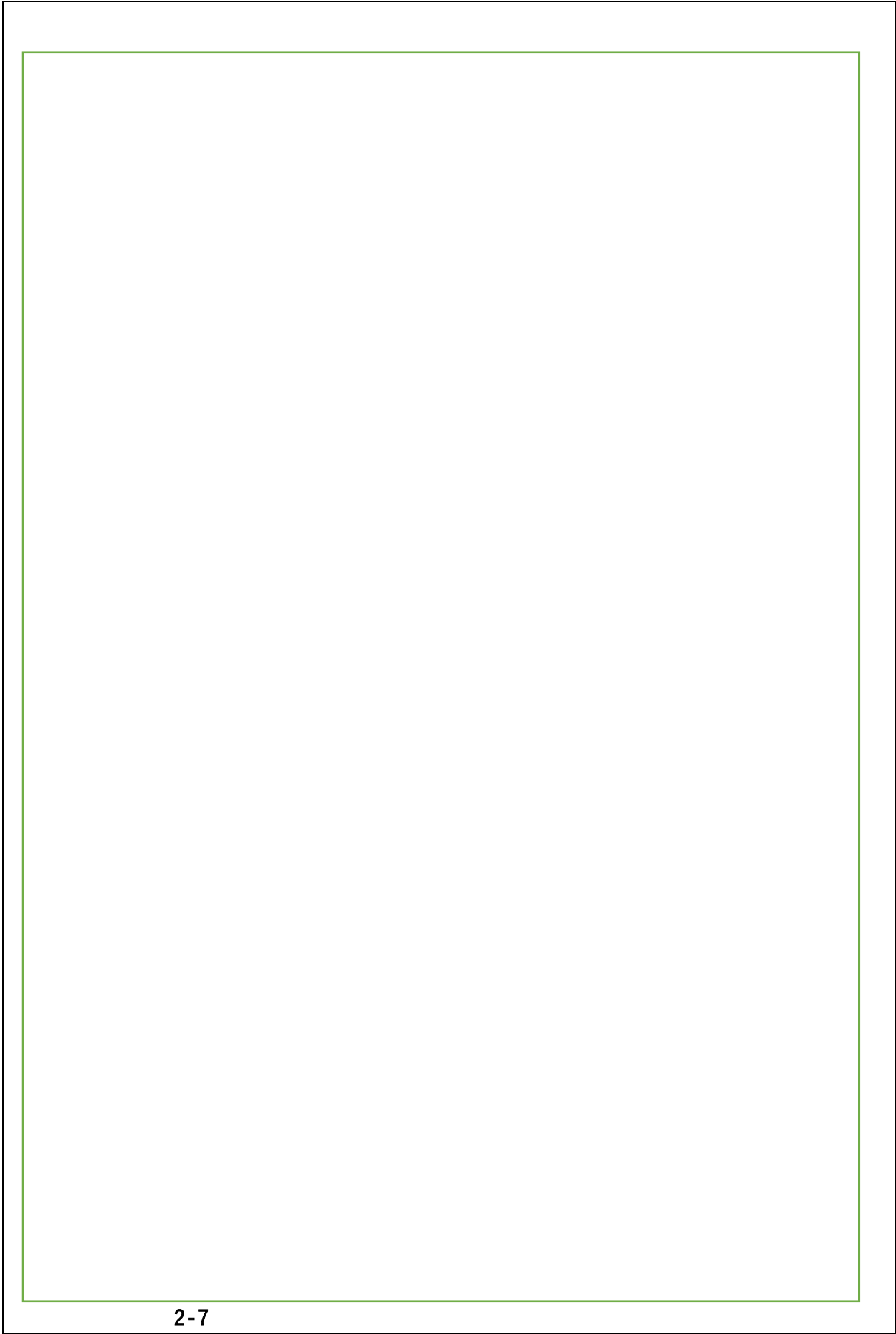




Y







¿?

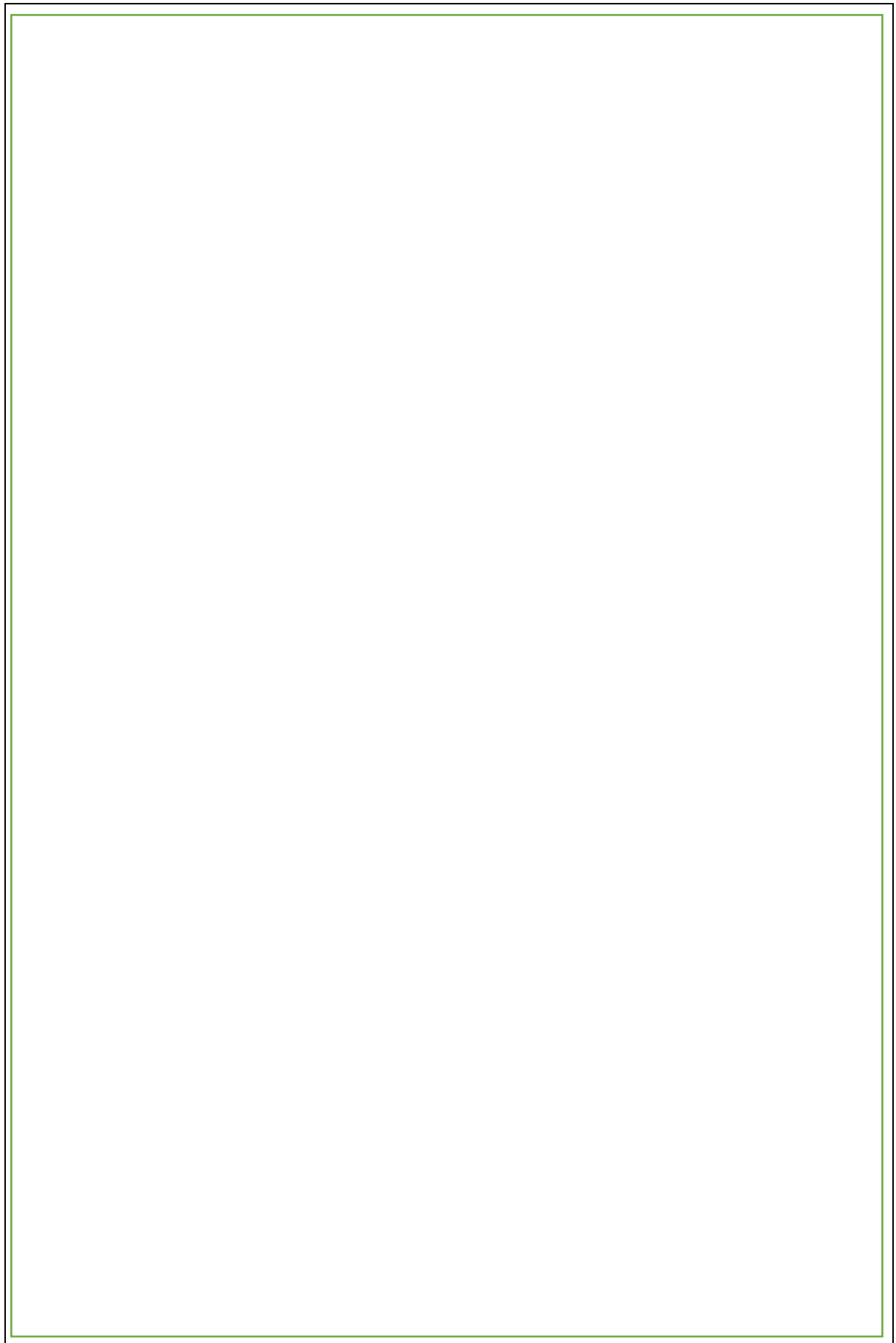
~B

,

°

%

≡



[2018]6

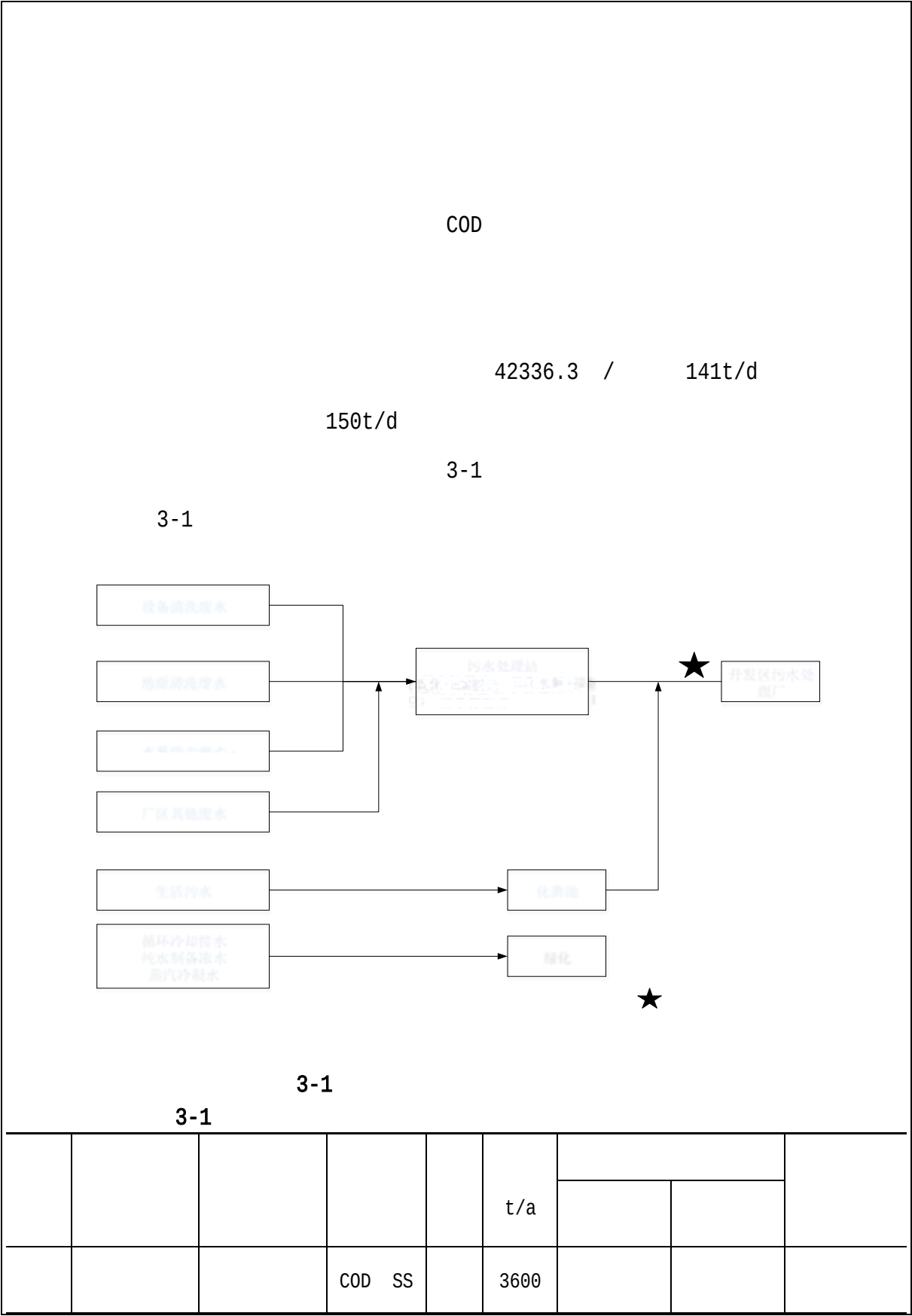
2.

[2015]256

2-5

2-6

2-5



					800			
					96			
			COD SS		720			

1 15

FQ-05

1 15

FQ-08

2

1

+

2 15

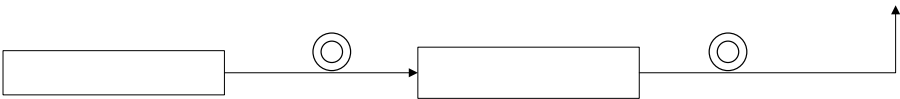
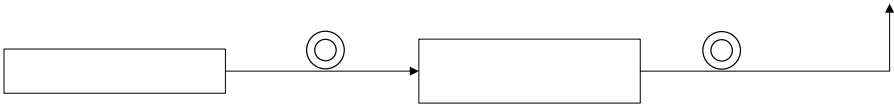
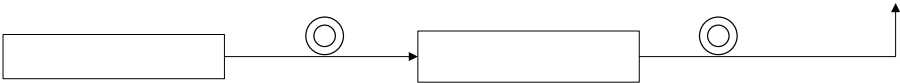
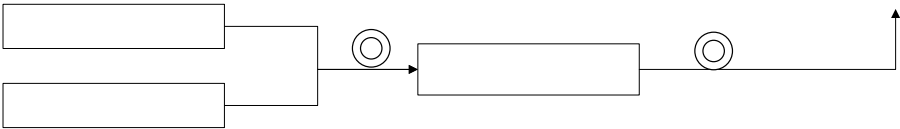
FQ-06 FQ-07

1 15

FQ-04

3-2

3-2



3-2

3-2

				60min/d	+15	+15	

50min/d

	1			60min/d	+ +15	+ +15	
	2			60min/d	+ +15	+ +15	

	/		HW49 900-041-49	0.04	0.03		
			HW02 272-005-02	1.06694	0.95		
			/	0.3	5		

/

					15	20
--	--	--	--	--	----	----

1

2

1 : 100%
99% + 99.5%
GB16297-1996 15m

2 :
5576t/a

3 :

20-25dB A

3

4

3

:

1

2

99

40

6321

650

" "

:

1

;

2

;

+

;

;

(GB16297-1996)

2

3

(GB12348-2008)

3

4

;

;

/

(GB18597-2001)

5

	(GB18597-2001)	
5		
6	): $\leq 5576 \quad 30315$ $COD \leq 1.586 \quad 8.936 \quad NH_3-N \leq 0.032(0.392)$ $COD \leq 0.558 \quad 3.028 \quad NH_3-N \leq 0.032(0.392)$ $: \leq 0.00506 \quad 0.00706)$	$5216 \quad /$ $COD_{Cr} 0.871 \quad / \quad SS \quad 0.183 \quad /$ $0.029 \quad / \quad 0.0028 \quad /$ $42336.3 \quad /$ $COD_{Cr} 7.070 \quad / \quad SS \quad 1.482 \quad /$ $0.238 \quad / \quad 0.023 \quad /$ $0.0047 \quad /$

10%

5-2

	2001108)			
SS	/	/	/	/
	/	/	/	/
	/	/	/	/
	/	/	/	/

GB/T16157-1996

HJ/T373-2007

HJ/T397-2007

6-1						
23-1						
6-1						
		/	/			
	S1		+ + +MBR	pH COD SS NH3-N TP		4 / 2
	S2	/	/	pH COD SS	/	1 /
	S3					2
6-2						
23-2						
6-2						
		/	/			
	Q1					3 / 2
(FQ-04)	Q2					
	Q3					
	Q4					

(FQ-05)

6-4		
	mg/L, pH	
pH	6-9	
	500	
	400	
	35	
	3.0	
GB16297-1996	2	
	GB16297-1996	7.2
	2	
h-		
h_1, h_2 -	1	2
	$Q=Q_1+Q_2$	
Q-		
Q_1, Q_2	1	2
	GB16297-1996	7.1
	200m	5m

50%

15m,

200m

5m

50%

6-5

6-5

2019 3 21 2019 3 22

75% “ ”

7-1 7-2

7-1

			/	/	/	%
2019 3 21	1		4.8	0.0667	0.0652	97.8
	2		6.0	0.0667	0.0654	98.0
2019 3 21	1		4.8	0.0667	0.0652	97.8
	2		6.0	0.0667	0.0654	98.0

7-2

			%	kPa	m/s	
2019 3 21		/	/	/	2.4	
2019 3 22		/	/	/	2.1	

7-3

7-3

(mg/L)

Q10

16297-1996 2

16297-1996 2

92.6% 96.0%

95.9% 98.3% 1

93.7% 96.0% 2 +

92.4% 95.0%

93.8% 97.0%

7-4 7-5

7-6 2 3-2

7-1 7-2

7-4

	3	22	mg/m ³						
			kg/h	8.97 × 10 ⁻³	9.54 × 10 ⁻³	1.09 × 10 ⁻²	9.54 × 10 ⁻³	/	/
Q4	3	2019 21	mg/m ³	1.2	1.1	1.2	1.2	120	
			kg/h	2.34 × 10 ⁻⁴	2.26 × 10 ⁻⁴	2.46 × 10 ⁻⁴	2.46 × 10 ⁻⁴	1.75	
FQ-05	3	2019 22	mg/m ³	1.8	1.3	1.6	1.8	120	
			kg/h	3.67 × 10 ⁻⁴	2.52 × 10 ⁻⁴	3.25 × 10 ⁻⁴	3.67 × 10 ⁻⁴	1.75	
Q5	1	2019 21	mg/m ³	15.0	12.5	15.7	15.7	/	/
			kg/h	0.134	0.112	0.141	0.141	/	/
		2019 3 22	mg/m ³						

FQ-07	2019 3 22	kg/h						
		mg/m ³	1.5	1.4	1.1	1.5	120	
		kg/h	3.57×10^{-3}	3.43×10^{-3}	2.65×10^{-3}	3.57×10^{-3}	1.75	
Q9	2019 3 21	mg/m ³	13.0	16.0	17.0	17.0	/	/
		kg/h	6.50×10^{-2}	7.84×10^{-2}	8.42×10^{-2}	8.42×10^{-2}	/	/
	2019 3 22	mg/m ³	13.6	14.4	16.8	16.8	/	/
		kg/h	6.97×10^{-2}	7.27×10^{-2}	8.57×10^{-2}	8.57×10^{-2}	/	/
FQ-08	2019 3 21	mg/m ³	1.1	1.1	1.1	1.1	120	
		kg/h	2.88×10^{-3}	2.95×10^{-3}	2.88×10^{-3}	2.95×10^{-3}	1.75	
	2019 3 22	mg/m ³	1.6	1.4	1.3	1.6	120	
		kg/h	4.29×10^{-3}	3.71×10^{-3}	2.57×10^{-3}	4.29×10^{-3}	1.75	

7-5

kg/h

FQ-05						
%	98.3	98.1	97.9	95.9	97.4	97.0
Q5 1 +	0.134	0.112	0.141	0.140	0.126	0.142
Q6 1 +	6.27×10^{-3}	5.16×10^{-3}	5.59×10^{-3}	6.51×10^{-3}	7.96×10^{-3}	6.95×10^{-3}
FQ-06 %	95.3	95.4	96.0	95.4	93.7	95.1
Q7 2 +	4.45×10^{-2}	4.25×10^{-2}	5.51×10^{-2}	6.38×10^{-2}	6.26×10^{-2}	5.25×10^{-2}
Q8 2 +	3.39×10^{-3}	2.91×10^{-3}	3.05×10^{-3}	3.57×10^{-3}	3.43×10^{-3}	2.65×10^{-3}
FQ-07 %	92.4	93.2	94.5	94.4	94.5	95.0
Q9	6.50×10^{-2}	7.84×10^{-2}	8.42×10^{-2}	6.97×10^{-2}	7.27×10^{-2}	

2019 3 21 2019 3 22

59.3dB(A)

GB12348-2008 3

7-7

7-7

				dB(A)	dB(A)		
2019 3 21	Z1	1		55.5	65		
	Z2	1		59.3	65		
	Z3	1		52.3	65		
	Z4	1		52.3	65		
	Z5	1		52.0	65		
	Z6	1		55.8	65		

2019
3 22

“

”

FQ-04 Q2

FQ-05 Q4

1

+

FQ-06 Q6

2

+

FQ-07 Q8

FQ-08 Q10

16297-1996 2

16297-1996 2

92.6% 96.0%

95.9% 98.3% 1

+

93.7% 96.0%

2

+

92.4% 95.0%

93.8% 97.0%

59.3dB(A)

GB12348-2008 3

/

/

1

“ ”

()

():

()

								/		99		
	()	[C2720]							/	118 ° 88'65" 32 ° 14'05"		
		40						40				
								[2017]99				
		2017 11						2018 12 1		/		
										/		
	()	42151					()	650	(%)	1.54		
	()	45720					()	695	(%)	1.52		
	()	/	()	/	()	/	()	/	()	/	()	/
			/						/		/	
								/		2019 5 21		

(1)

(

)