









2021

“ ”







---

1.1	.....	1
1.2	.....	1
1.3	.....	3
1.4	.....	3
1.5	.....	5
1.6	.....	5
2.1	.....	7
2.2	.....	9
3.1	.....	14
3.2	.....	16
3.3	.....	16
3.4	.....	18
3.5	.....	19
4.1	.....	21
4.2	.....	21
4.3	.....	22
4.4	.....	22
4.5	.....	22
5.1	.....	23
5.2	.....	23
5.3	.....	23
5.4	.....	24



---

11.1 ..... - 46 -

11.2 ..... - 47 -

.....48

.....55

.....62

.....69

.....75

.....82

.....90

1

2

3 500m

4: 5000m

5

6

7

1

2

3

4

5

6

7

8



1  
1  
2  
3  
4  
5  
2020 9 1  
6  
7  
8  
9  
2015 1 8  
10  
5  
11  
34  
12  
2010 141

2007 11

(2015 1 1 )

2018 10 26

2018 1 1

2020 4 29

2021 9 1

2021 4 29

2018 12 29

[2015]4

[2015]34 2015 6

2014

13					
	[2018]8	2018	1	31	
14					[2014]34
15					
	2016	74	2016	12	12
16					
17					2016 14
18					2014 119 2014 12
29					
19					
20					
21					40
22					27
2005	10	1			
23					[2013]101
24					591
25					2006 24
26					2011 35
27					17
28			“	”	2013 20
29					2005
27					
30					2010 113
31					
32					352
33					

1

GB 18218-2018

1

1

7

4.

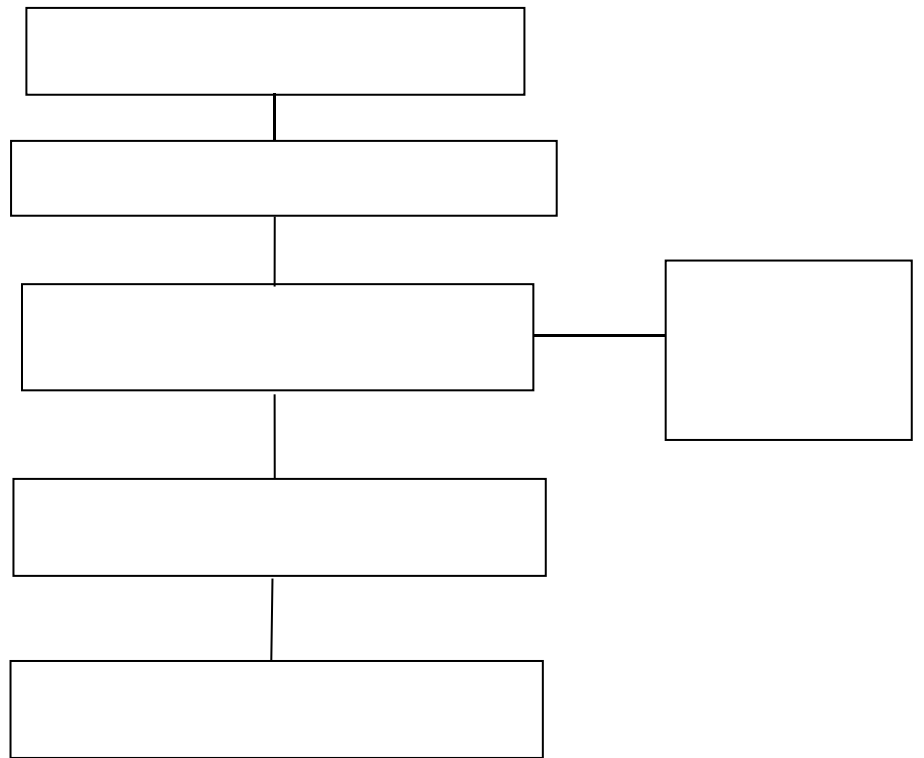
I

1

I

2

3



0%



2021

		18851398655
		18679332301
		13593560781

		15156622922
		15279308891
		15270548858

		18370055321
		18006701901
		15279389552

		15271866976
		15015885094

		15270548858
		15727524272

“ ”



- 
- 
  
- 
- 
- 
- 
  
- 
  
- 
  
  
- 

1

2

“ ”

3

3

1

2

3

4

1

2

3

4

5

4

1

2

3

1

2

3

4

5

6

7

“

”

8

9

10

11

1

2

3

4

5

6

7

8

9

10

11

12

13

1800m<sup>3</sup>

1000m<sup>3</sup>

14

1800m<sup>3</sup>

1

2

3

24

0793-6627688

2.1.2-1 2.1.2-2

1

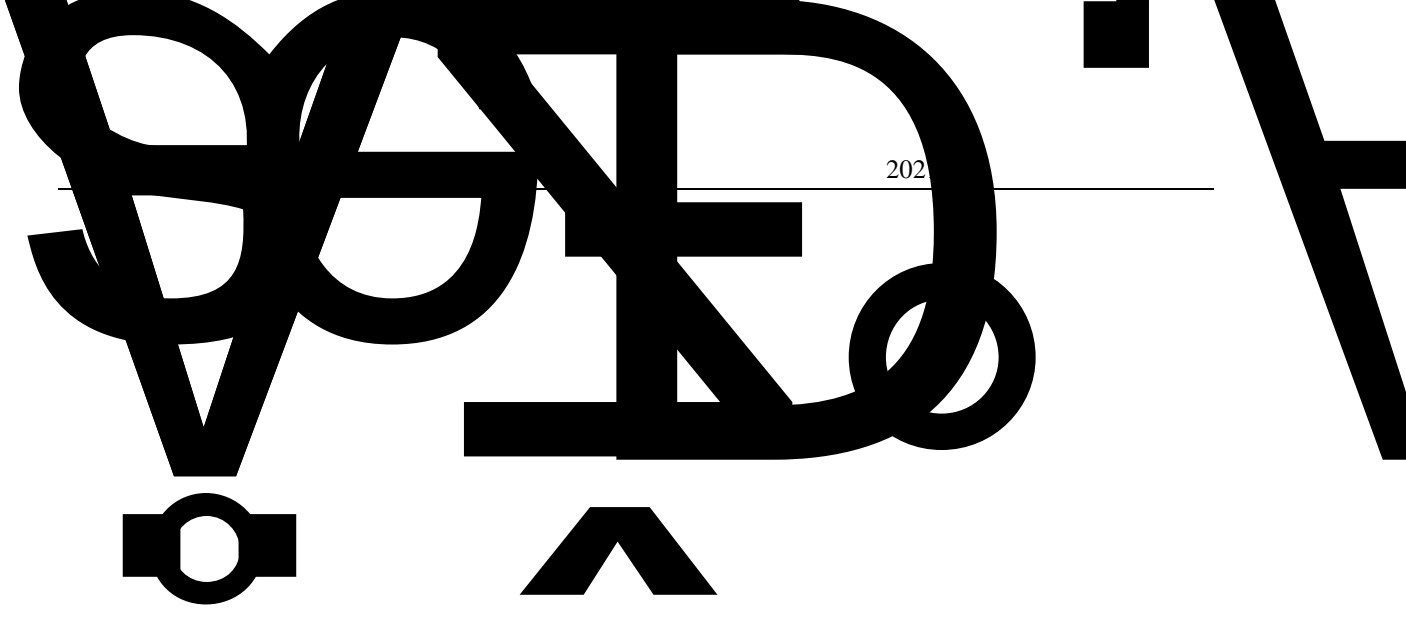
2

j

24

1

2



1

1

30







5.2-1

3.





1

2

1

2

3

1

2

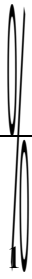
3

3

4

2

“



- 
- 
- 
-

1)

2)

3)

4)

5)

1  
1  
Hg Pb Cd  
2  
2  
1

SO<sub>x</sub> HC PM PM<sub>2.5</sub>  
OCs  
pH CODc

4 “ ”

5

1 “ ”

2

3

4

1

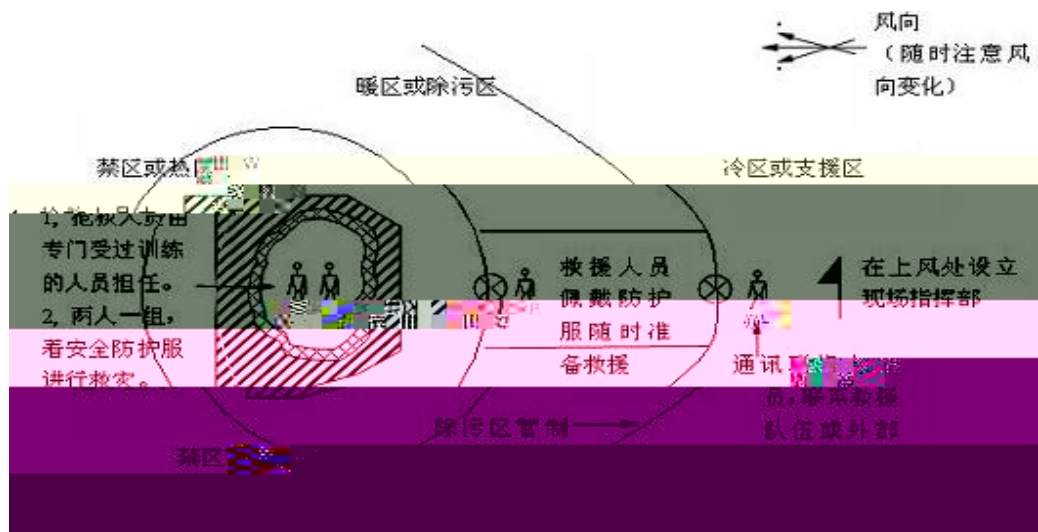
2

3

1

		( )
		( )

2





1

2

3

4

5

1

2

3

4

1

2

3

4

1

2

3

4

5

6

7

8

9

10



1

2

3

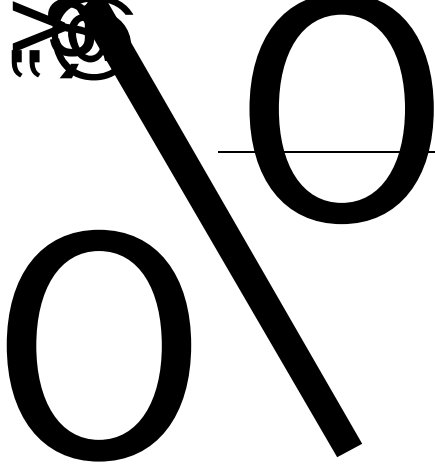






1

2



---

2021

2

1



1

2018

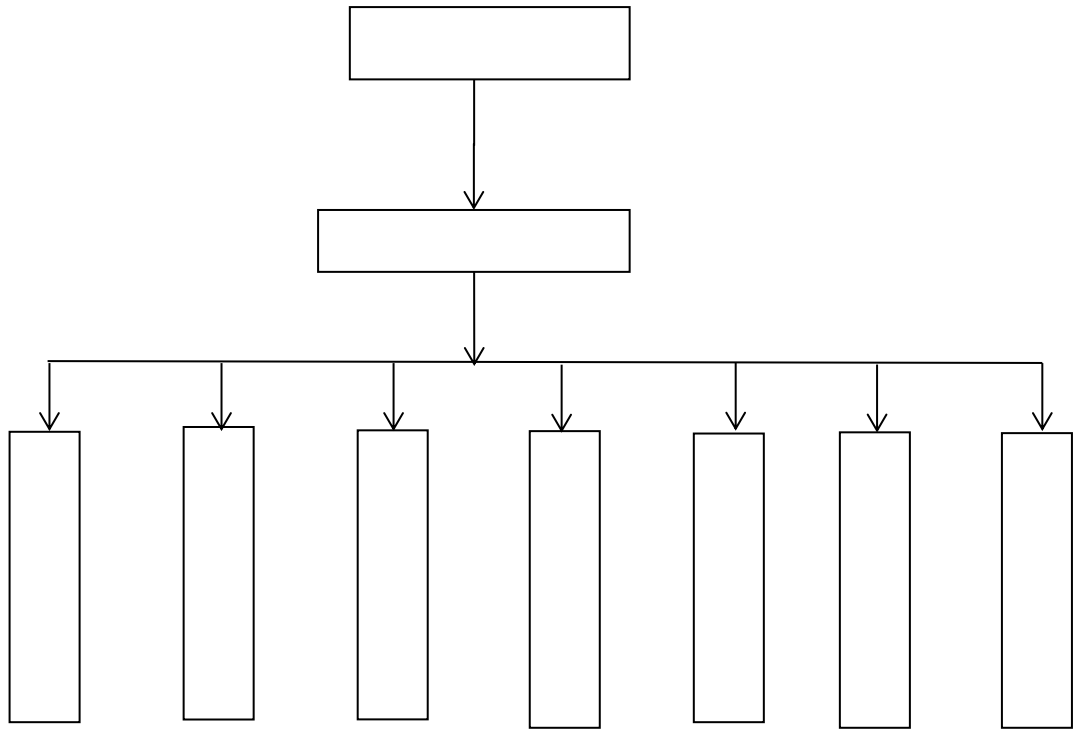
HJ/T298

a ”

11.2-1


“ ”

7



- 
- 
- 
- 
- 
- 
- 
- 
-



4

5

1

2

3

6.1.4.3

17.4%

—


1 I

2

3

4

5

SO<sub>2</sub> TSP HCl Pb Hg Cd

4

6

8

6

7

1

2

3

4

5

“ ”

7





3

4

5

1

2

1

2

3

—

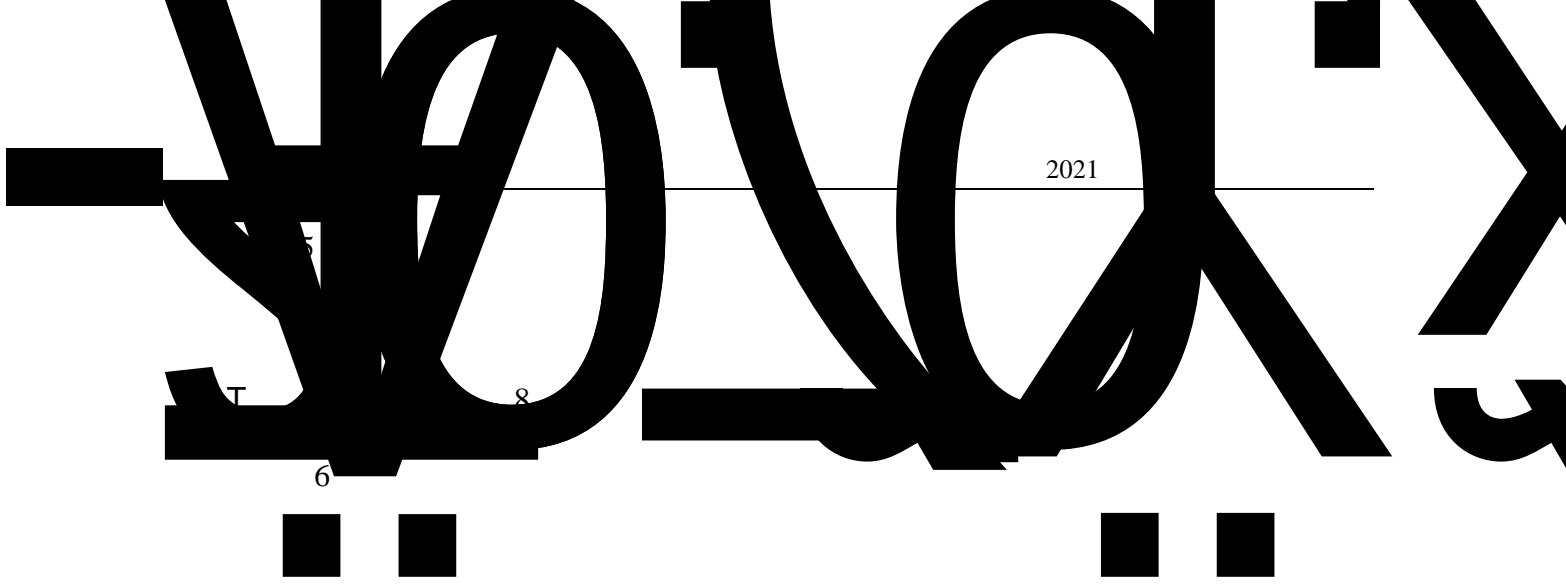
1

2

3

4

4



3

4

5



● 2

1

2

“ ”

3

3

1

2

3

4

5

1

2

1

2

3

—


“ ”

1

2

3

4

5

6

7

1

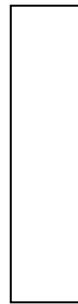
2

3

4

5





- 
- 
- 
- 
- 
- 
- 
- 
- 
-



5

1

2

3

1

2

3

4

1

2

3

4

1

2

3

2

1

2

3

4

5

“ ”

7

- 
-



1

2

“ ”

3

3

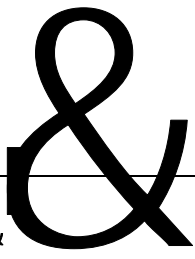
1

2

3

4

1



&

3

4

5

%

4

1

2

3

“ + MBR + RO ”  
“ + + + ”

GB12523-2005

1800m<sup>3</sup>

CODcr BODs SS NH<sub>3</sub>-N

1

2

3

4

5

6

1		1800m <sup>3</sup>
2		
3		



1

2

3

4

5

“ ”

7





2

3

4

5

1

2

3

1

2

3

4

1

2

3



4

2

3

1

“

”

1

---

---


---

I

1

2

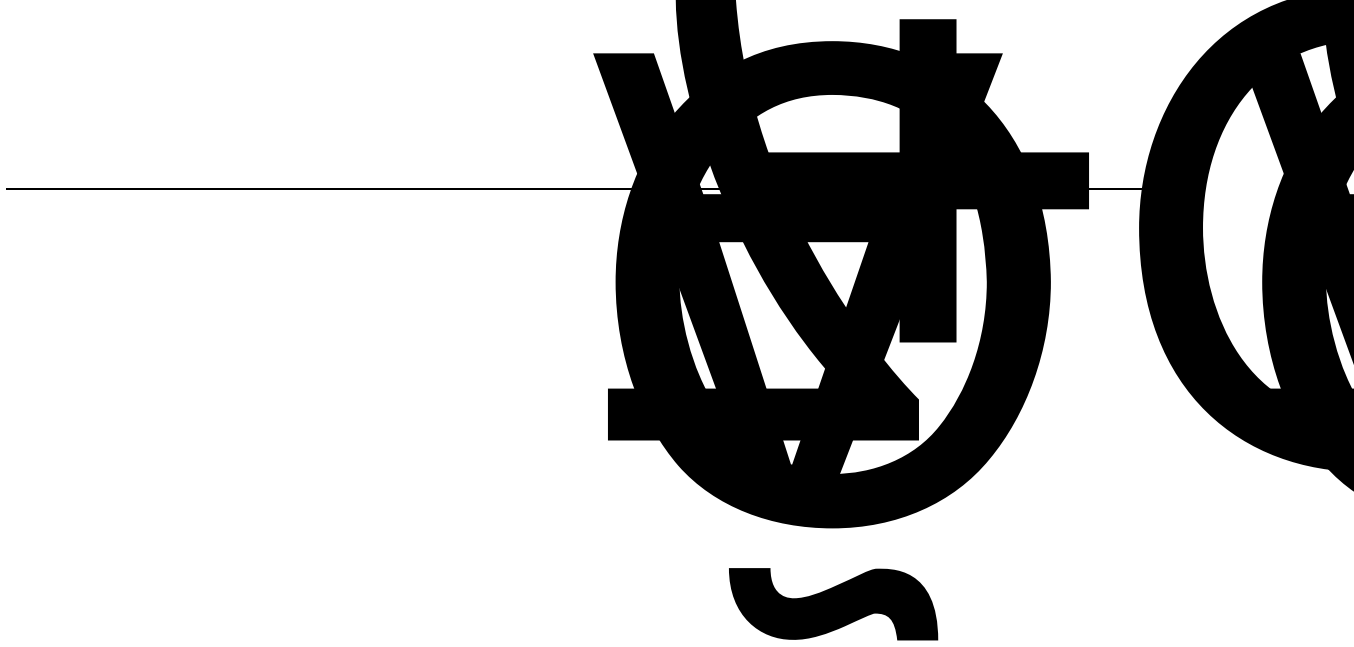
1

2

3

4

5



1

1

2

3

4

5

6

pH

COD<sub>Cr</sub>

1



1

2

3

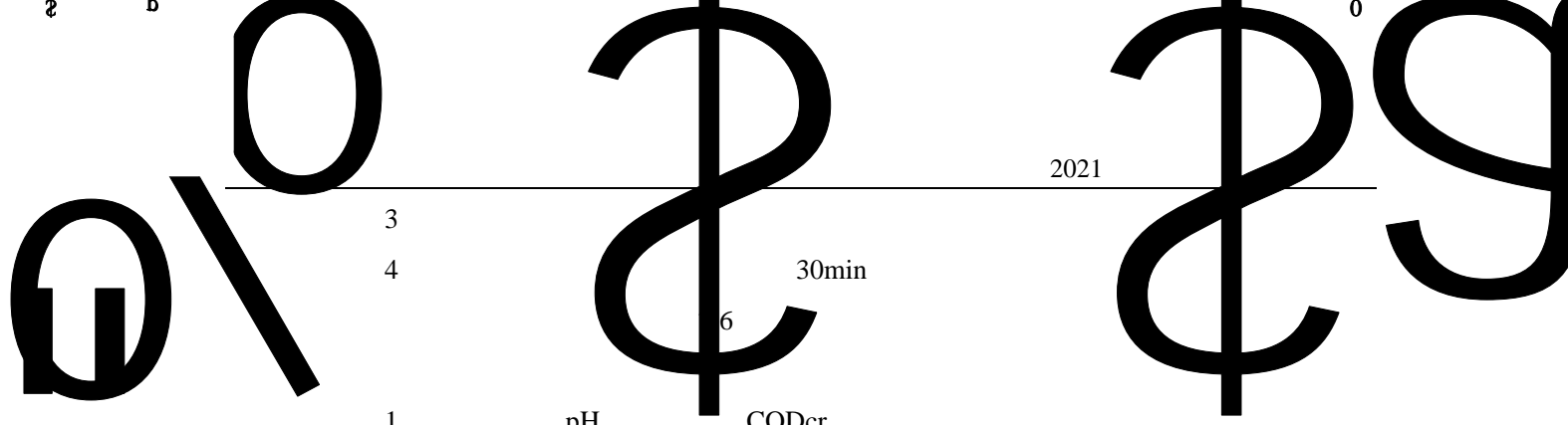
4

1

2

3

	1									
	2	119	120							
		13879016115								
		15271866976								
		I								
	1									
	2									
	3									
	4									
	1	SO <sub>2</sub>	NO <sub>x</sub>	HCl	PM <sub>10</sub>	PM <sub>2.5</sub>	Hg	Pb	Cd	CO
	2	/								
	3			30m						
	4									
	4				30min					
	1	pH		COD <sub>Cr</sub>						
	2	/								



2021

3

4

30min

6

pH

CODcr

1

2

3

4

30min

7.6

1

a ~

2

3

4

5

1	pH	CODcr
2	/	
3		
4		30min