

	11		52X		
	70km				
	11				
			2017 182 2017 4 21		
			70157JH		
			2021 5 8 ~2021 5 10		
	11 1		2017 10 4 2018 6 15		
	11 1 52X		2018 5 26 2018 7 2		
	8404		540		6.43%
	8404		540		6.43%
	2017				
		1	10		
	2017 3 2017 4 21		2017 182		
		2017 10 4	2018 5		

	26 2019 9	2018 6 15	2018 7 2
--	--------------	-----------	----------

11

52X

70km

40°33 54.58

82°41 39.20

2-1



11

52X 1

11

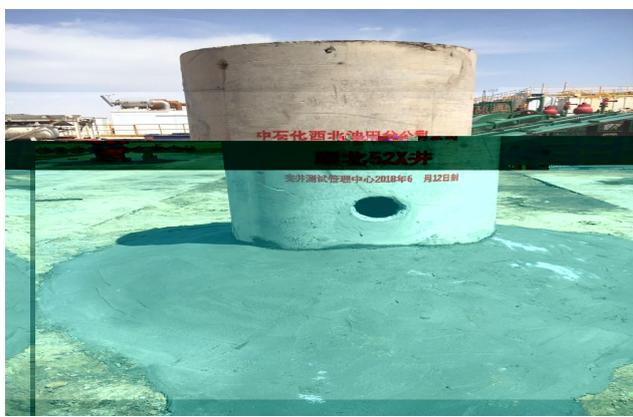
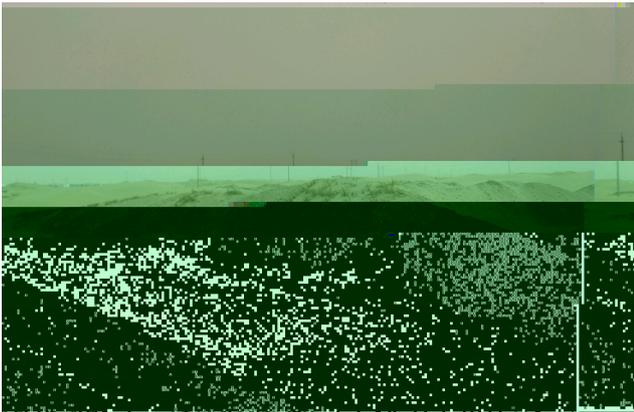
52X

0.0767km²

2-1

			130m×110m 14300m ²	130m×110m 14300m ²	
			60m×40m 2400m ²	60m×40m 2400m ²	
			7500m 8m 60000m ²	7500m 8m 60000m ²	
			1	1	
		1	80m 25m ³ /h	1 80m 25m ³ /h	
			1 200m ³ +	1 200m ³ +	
			+	1 2000m ³	
			1	1	
			1 200m ³	1 200m ³	1232.47 m
		1	7958m	1 6725.53m	
		2		2	
		3		3	
			6 21m ³	6 21m ³	
		1		1	
		2		2	

		1	1	
		2	2	



11

52X

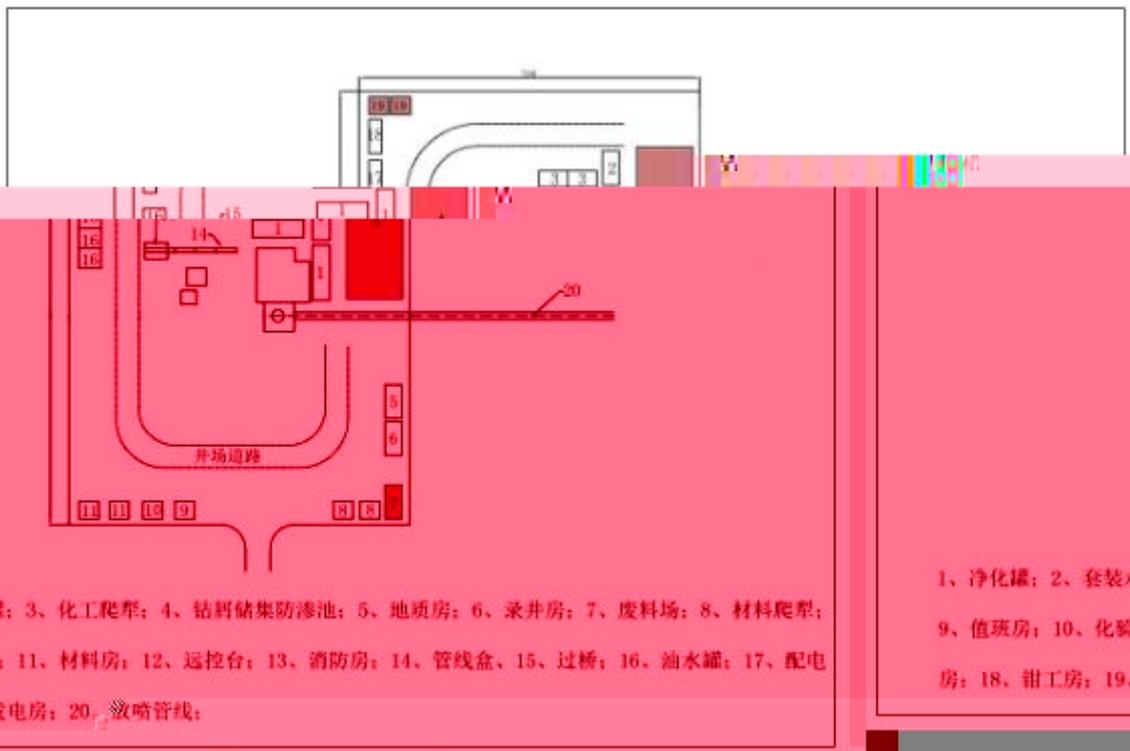
2-3

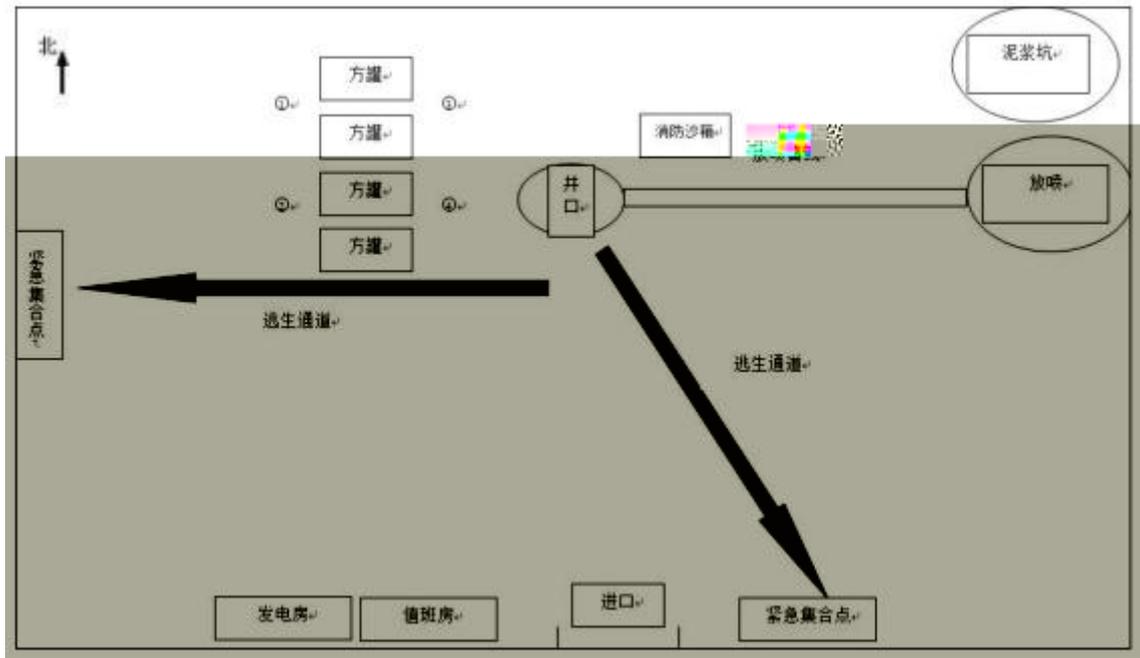
2-4

0.0767km²

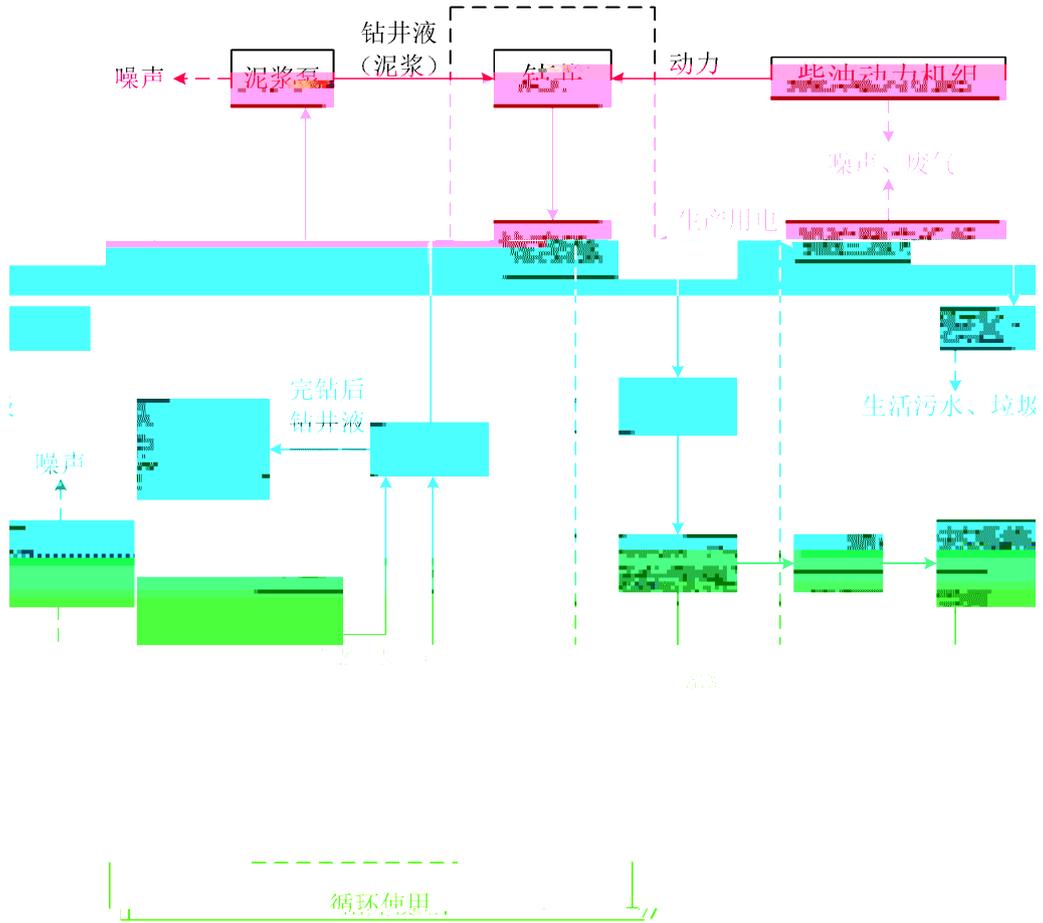
2-2

1		130m×110m	14300m ²	
2		60m×40m	2400m ²	
3		7500m×8m	60000m ²	
			76700m ²	

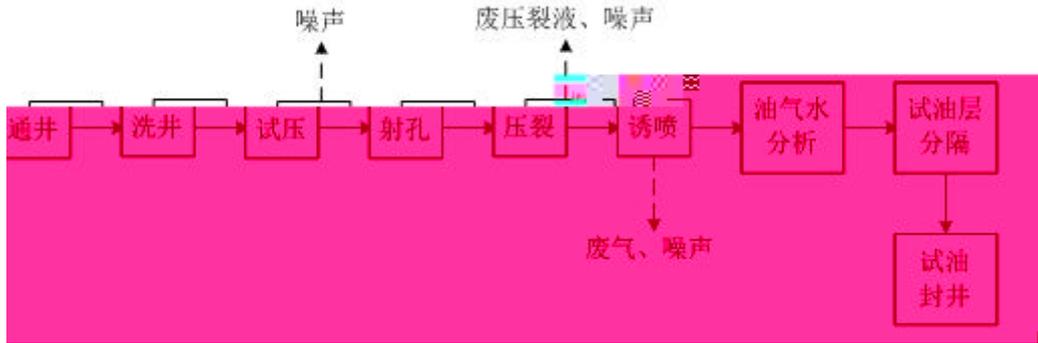




2-7



2-8



7958m

6725.53m

1232.47m

2-3

	7958m	6725.53m	1232.47m

0.0767km²

0.0767km²

1

2

3

4

5

30m 1m×1m

10m

40m

30m

6

2-9

2-3



	<p>0.0767km² 3 5 0.0767km² 1.53t/a 30m 1m×1m 10m 40m 30m</p>		

1

2

3

2-5

/	GB20891-2014	(

1

2

3

2-6

/			

1

2

3

2-7

GB12348-2008 3			

1

2

3

100%

2-8

90%

0.6m

$1.0 \times 10^{-7} \text{cm/s}$

1

11

		652924-2019-005	
			70157JH
	8404	540	6.43%
	2-10		
1		190	190 --
2		20	20 --
3		45	45 --
4		85	85 --
5		200	200 --
		540	540 --

1

GB20891-2014

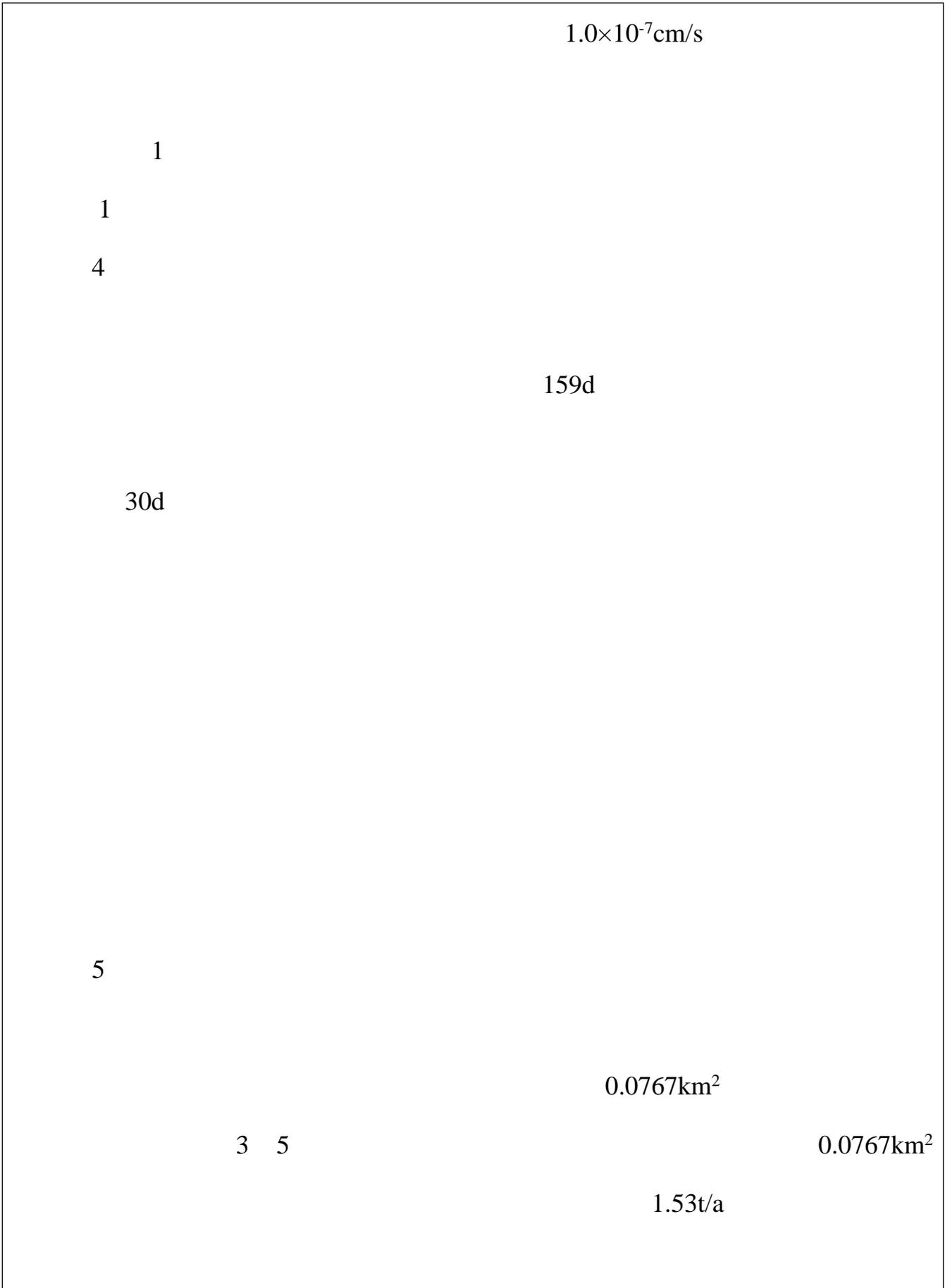
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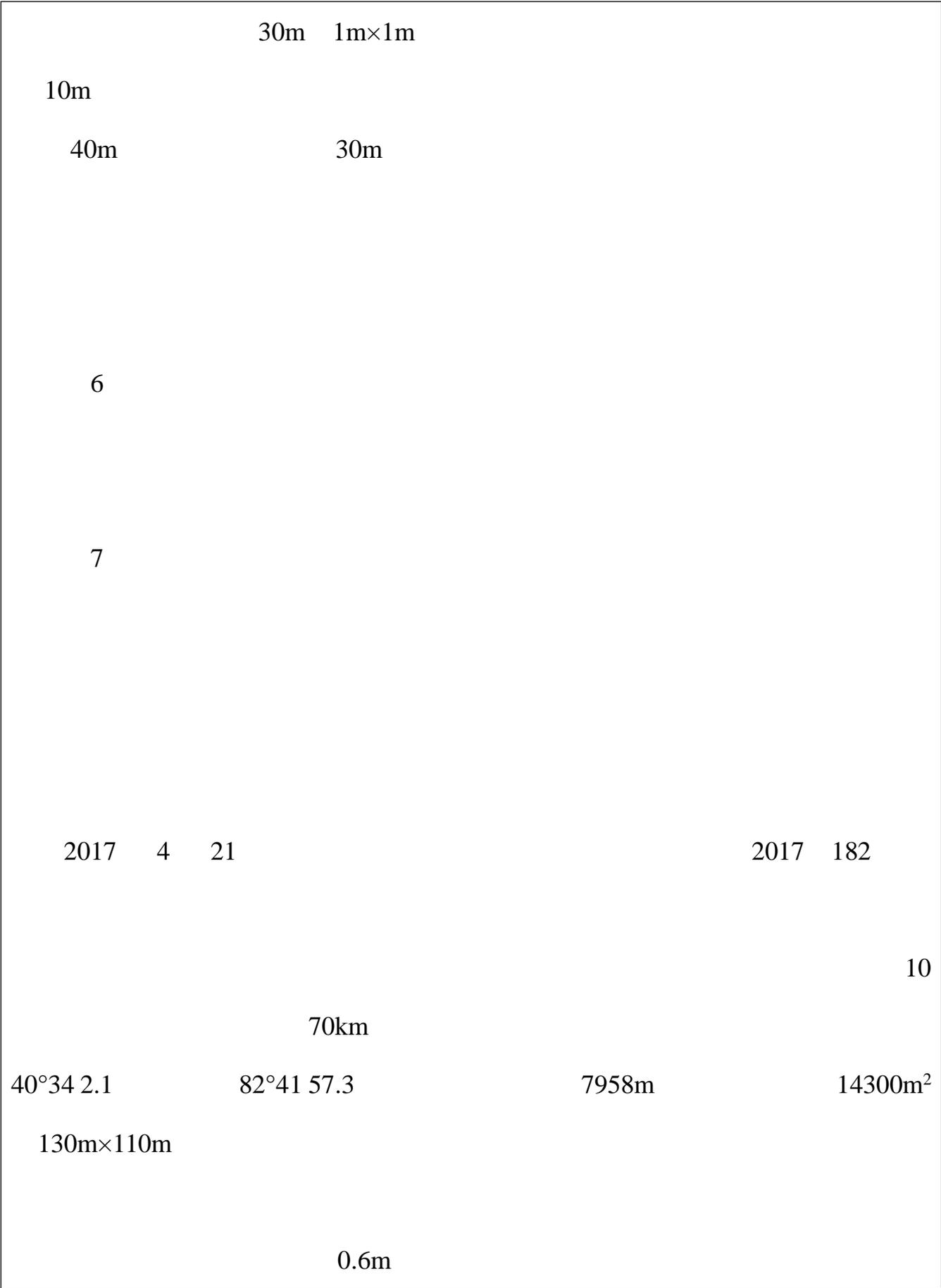
2

3

90%

0.6m





8404

540

2017 53

GB12348-2008 3

8					2018.12.29	
9					682	2017.10.1
1						
	2017	4			2017.11.22	
2						
2016.4.8						
3						
[2015]52	2015	6	4			
4						
[2019]910	2019	12	13			
5						
	2019	12	10			
1						HJ612-2011
2012.6.1						
2						HJ/T 394-2007
3						
2018	9	25				
1						
GB36600-2018						

2

GB/T14848-2017

3

GB3838-2002

1

11

2017 3

2

11

2017 182 2017 4 21

3

3-1

1		200m
2		200m
3		
4		200m

3-2



2

5-2 5-3

<p>1,1- 1,2- 1,1- -1,2- 1,1,1,2- -1,2- 1,2- 1,1,2- 1,1,2,2- 1,1,1- 1,2- 1,4 1,2,3- + [a] [a] [b] [k] [a,h] [1,2,5-cd]</p>	<p>() (GB36600-2018) 1</p>
	<p>() (GB36600-2018) 2</p>

1		60	24	1,2,3-	0.5
2		65	25		0.43
3		5.7	26		4
4		18000	27		270
5		800	28	1,2-	560
6		38	29	1,4-	20
7		900	30		28
8		2.8	31		1290
9		0.9	32		1200
10		37	33	+	570
11	1,1-	9	34		640
12	1,2-	5	35		76
13	1,1-	66	36		260
14	-1,2-	596	37	2-	2256
15	-1,2-	54	38	[a]	15
16		616	39	[a]	1.5
17	1,2-	5	40	[b]	15
18	1,1,1,2-	10	41	[k]	151
19	1,1,2,2-	6.8	42		1293
20		53	43	[a,h]	1.5
21	1,1,1-	840	44	[1,2,3-cd]	15
22	1,1,2-	2.8	45		70

23		2.8	46	C ₁₀ ~C ₄₀	4500
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	1			1	
	2				
pH					
				23	
3					
	2021	5	10	1	
4					
					HJ/T 164-2020
5					
pH					
					GB/T14848-2017
					GB3838-2002
6					
		5-5			

pH	7.53	6.5 pH 8.5		
	0.00004	0.001	mg/L	
	0.0028	0.01	mg/L	
	0.0028	0.01	mg/L	
	0.00007	0.005	mg/L	
	0.262	0.3	mg/L	
	0.0926	0.1	mg/L	
	2.26	1.0	mg/L	
	0.004	0.05	mg/L	
	0.002	0.05	mg/L	
	0.118	0.5	mg/L	
	5.29×10^3	450	mg/L	
	2.24	20	mg/L	
	0.006	1.0	mg/L	
	7.12×10^3	250	mg/L	
	1.18×10^4	250	mg/L	
	5.1	3.0	mg/L	
	0.005	0.02	mg/L	
	4.38×10^4	1000	mg/L	
	0.0003	0.002	mg/L	
	0.01	0.05	mg/L	
	2	3	MPN/100mL	
	81	100	CFU/mL	

GB/T14848-2017

GB3838-2002

3

70157JH

HSE

HSE

HSE

HSE

652924-2019-005

11

52X

70km

40°33 54.58

82°41 39.20

6725.53m

14300m²

130m×110m

11

52X 1

8404

540

0.0767km²

1

2

11 52X

/

70km

M7471

/

40°33' / 3