

1.1	.....	2
1.2	.....	4
1.3	.....	4
1.4	.....	5
1.5	.....	6
1.6	.....	7
1.7	.....	10
1.8	.....	11
2.1	.....	14
2.2	.....	14
2.3	.....	14
2.4	.....	14
2.5	.....	15
2.6	.....	16
2.7	.....	16
3.1	.....	18
3.2	.....	18
3.3	.....	20
3.4	.....	27
3.5	.....	27
3.6	.....	29
3.7	.....	32
3.8	.....	34
3.9	.....	38
4.1	.....	39
4.2	.....	44
5.1	.....	49
5.2	.....	51
5.3	.....	54
5.4	.....	55
5.5	.....	56
6.1	.....	57

6.2	.....
6.3	.....	57
6.4	.....	68
6.5	.....	69
7.1	.....	70
7.2	.....	71
7.3	.....	74
7.4	.....	75
8.1	ο .	

13.4	.....	111
13.5	.....	112
14.1	.....	113
14.2	.....	117
14.3	.....	117

1

2

3 SHB53-5H

4

5

6

7

8

2022 147

9

10

11

40°20 40°50
65km 81°30 82°00
950m 985m

126.9km 59.5km 4452.55km²

2020

5 2021 5
2020 5

2021 7 14

2021 120

2022 2 28 2022 6 1

682

2017 4 2023 10 27

2023 12

2020

5

2020 5

1					2015	1	1		
2					2018	10	26		
3					2018	1	1		
4					2022	6	5		
5						2020	4	29	2020
9	1								
6								682	2017
10	1								
1									
2017	4	2017	11	20					
2					2017	1	1		
3								HJ/T394-2007	
4									
2018	9	25							
5									
2018	9	2018	5	15					
6								HJ612-2011	
7									
2019	910	2019	12	13					
8									2015
52	2015	6	4						
9									

2020 688 2020 12 16

10

2022 25 2022.11.14

1

2018

13

2018 9 21

2

13

2018 9 21

3

2016 360 2016 11 16

4

2019 140

2019

12 10

1

2018 165

2

2018 414

3

2018 279

4

2022 56

5 2020

5

2021 5

7

2020

5

2021 120

2021 7 14

8

4

5

9 2020

5

1

2

3

4

1

2

3

4

5

1

HJ/T394-2007

2018 9

25

HJ612-2011

2

3

4

2018-2030

2019 4

2021

16

HJ610-2016

HJ19-2022

500m

5km×5km

2km
200m

1km

1km

200m

200m

200m

1.5-1

1						
2		1	SS	COD	BOD ₅	2
				pH		
3		TSP				
4			A	L _{Aeq}		
5		-1,2-	1,1-	1,2-	1,1-	-1,2-
			1,1,1-	1,2-	1,1,1,2-	1,1,2,2-
			1,2-	1,1,2-		1,2,3-
		+		1,4-	[a]	[a]
		[b]	[k]	2-	[1,2,5-cd]	
				[a,h]		

6		
7		

SY/T 5329-2022

1.6-1

		35.0mg/L	SY/T5329-2022 2.0 μ m ²
		100.0mg/L	

GB39728-2020 5.9

GB14554-93 1

1.6-2

		4.0mg/m ³	GB39728-2020 5.9
		0.06mg/m ³	1 GB14554-93

53-5H

53-5H

GB12348-2008

1 2

1.6-3

		60	GB12348-2008
		50	1 2

pH

GB/T14848-2017

III

GB3838-2002

III

1.6-4

pH	GB/T14848-2017 III
	GB3838-2002 III

1.6-5

1			15
2		/	/
3	pH		6.5~8.5
4		mg/L	450
5		mg/L	1000
6		mg/L	250
7		mg/L	250
8		mg/L	0.3
9		mg/L	0.10
10		mg/L	1.00

11		mg/L	1.00
12		mg/L	0.20
13		mg/L	0.3
14		mg/L	0.50
15		mg/L	0.02
16		MPN/100mL	3.0
17		mg/L	1.00
18		mg/L	20.0
19		mg/L	0.05
20		mg/L	1.0
21		mg/L	0.08
22		mg/L	0.001
23		mg/L	0.01
24		mg/L	0.01
25		mg/L	0.005
26		mg/L	0.05
27		mg/L	0.01
28		mg/L	0.06
29		mg/L	0.002
30		mg/L	0.01
31		mg/L	0.7
32		mg/L	0.002
33		mg/L	0.05

1.6-6

1.6-7

1,1- 1,1,1,2- 1,1,2- [a]	1,2- -1,2- 1,1,2,2- 1,2- + [a] [a,h]	1,1- 1,2- 1,4- [b] [1,2,5-cd]	1,2- 1,1,1- 1,2,3- 2- [k]	-1,2-	1	GB36600-2018
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	2 GB36600-2018
--	----------------

2018-2030

2019 4

2021

16

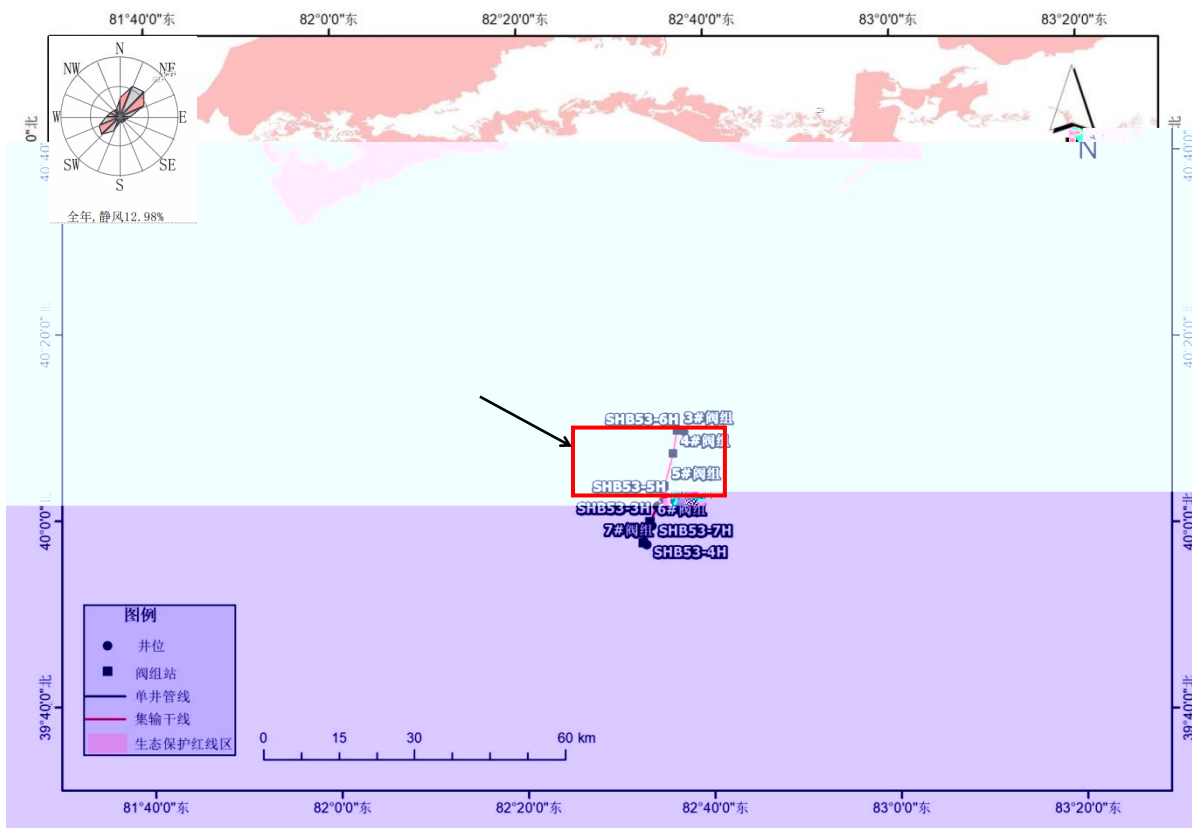
HJ610-2016

HJ19-2022

70km
89.6km

78.7km

1				GB3095-2012
2				GB3096-2008 2
3				GB/T14848-2017 III
4				GB36600-2018
5				
6				



41°00 41°20 84°24 84°54

5 950

990m

53X 94km

930m

2.3-1

		11.4		mm	47.3
		41.2		%	49
		-24.2		hPa	956.5h
	/	NE		mm	2044.6
	m/s	28.0		m	0.77
	m/s	1.37			

40km 6000km² NNE 300km 8km

50m

40°

14.7m

41.3m

0.11m/d 3.36m/d

2016

2016 385

40.34km

3.2km

69.03hm²

1

289.21m²

1

4.638km

4.43km

147

1

70km

2014 9

27800hm²

60km

27800hm²

2014 ~2020

78.7km

1.8-1

SHB53-5H

SHB53-5H

2020 6 25

2020 364

1 2020

5

2 2021 6

2020

5

2021

7 14

2021 120

3

4

5

6

7

65km

81°30 82°00

40°20 40°50

950m 985m

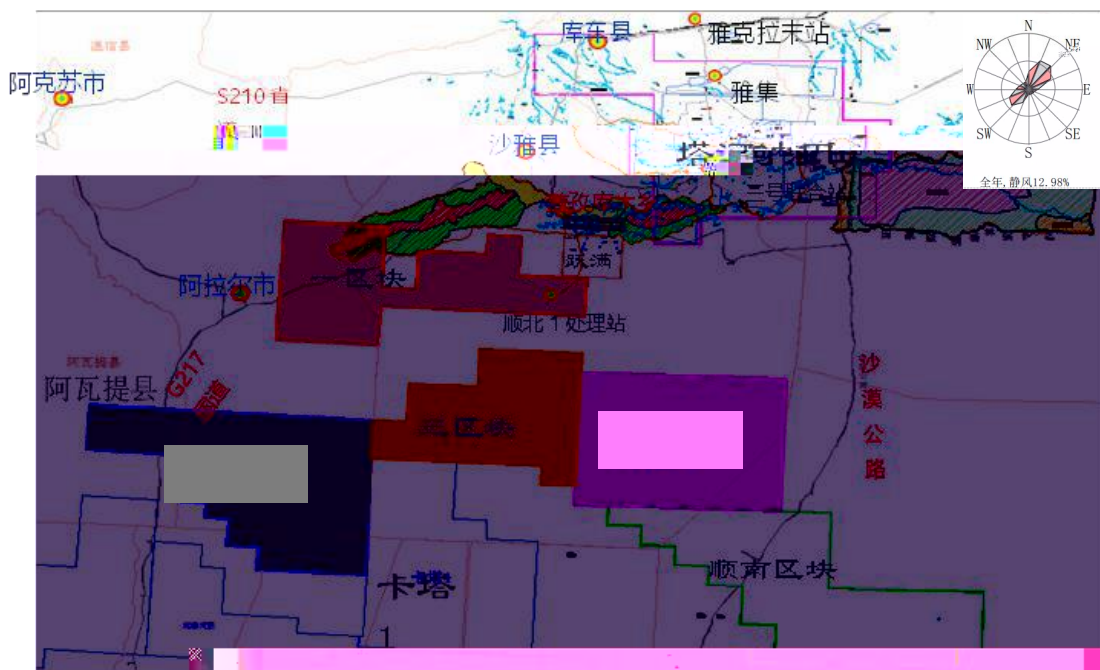
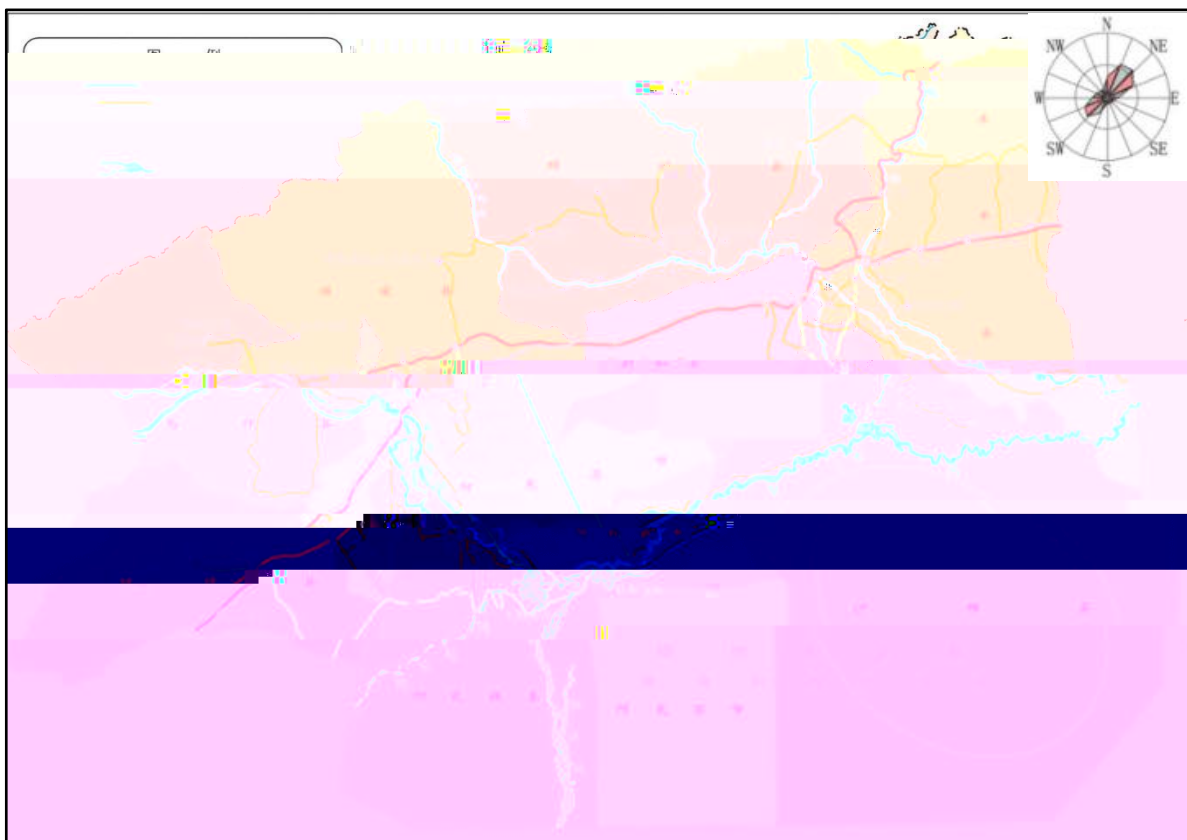
126.9km

59.5km

4452.55km²

3.2-1

3.2-2



53-5H

5 53X

3.2-3



2	SHB53-3H	SHB53-5H	8	1	5#
	8km	5		7.6km	4#
5#				2	
	70t/d	$3.09 \times 10^4 \text{t/a}$			$7.5 \times 10^4 \text{m}^3/\text{d}$
$0.33 \times 10^8 \text{m}^3/\text{a}$					

	1	53-5H	53-3		5
	1	53-5H		0.76km	
5		6.8km	SHB53-2H	4#	53-5H
		0.44×10 ⁸ m ³ /a			
	53-5H				2020
364		53-5H		2022	2 28
	2022	5 3	2022	5 7	2022 6
1			53-5H		

3.3-1

3.3-2

3.3-1



		2020	5	2020 5
		53X		53X

		2	3.09×10 ⁴ t/a 70t/d	53-5H 1 0.44×10 ⁸ m ³ /a	53-3H 53-5H
			0.33×10 ⁸ m ³ /a 7.5×10 ⁴ m ³ /d		
		2	140MPa	1 140MPa	53-3H
		5	8km 7.6km 4# 5# L360 DN350 PN6.3MPa 3PE	1 53-3H 53-5H 0.76km	53-3H 7.24km

				2	5	0.8km
				4#	6.8km SHB53-2H 53-5H L360 DN350 PN6.3MPa 3PE	
		8	1	5#	5 53-5H	53X
		2	1km	1	0.5km	53-3H 53-5H 0.5km
		35kV	53X 35 LGJ-150 LGJ-70	45.5km 1.5km	53X SHB53-5H 35KV	20kWp 50kWp 1 1
		S15-160/35-0.4	1	1		
		8	8km		8	5
		RTU		0.76km		36
		5		24		

2020

5

7.6km

RTU

5

36

6.8km

53-5H

	<p>1</p> <p>400m³/d</p> <p>120t/d</p> <p>1</p> <p>+</p> <p>+</p> <p>1</p> <p>2021</p> <p>1</p>	<p>400m³/d</p> <p>2021</p> <p>12</p> <p>15</p>	
	<p>2012</p> <p>50m³/d</p> <p>3</p> <p>m³</p> <p>2</p> <p>2</p> <p>2</p> <p>50m³/d</p> <p>2018</p> <p>2</p> <p>3</p> <p>m³</p> <p>10000m³</p>	<p>2015</p> <p>1</p>	

1

5

0.664 C₁ 85.64% C₂ 5.25% C₃

2.03% CO₂ 2.95% N₂ 2.47% 0.047%

0 10.14%

		53X
C ₂₊ %	<15 10 30 20~70	8.91
C ₃₊ %	2 7 7	3.66
C ₂ /C ₃	2.2 6 1 3 0.5 1.3	2.57
100×C ₂ /C ₃ +C ₄	170 400 50~200 20~100	235
100×C ₂ /C ₁	5 15 10 40 30 600	10.4
C ₅₊ %	<1.75 >1.75	0.43
C ₁ /C ₅₊	C ₁ /C ₅₊ <52 C ₁ /C ₅₊ >52	199
	0.78~0.80	0.802
m ³ /m ³	550~18000	645

20kWp

1 1 1

1

53-5H 53-5H 53-5H

5

5		53-5H		53X	
1					
	1	53-5H	5	53-5H	
0.76km			RF-Y S	-II-128×13-6.4	5
		SHB53-5H		SHB53-2H	4#
6.8km		L360NS	DN350	PN6.3MPa	
20kWp	1			50kWp	1
	1				
	RTU				
	PLC				PLC
		8	0.76km		
			RTU		
		5		36	6.8km
			1		0.5km

5

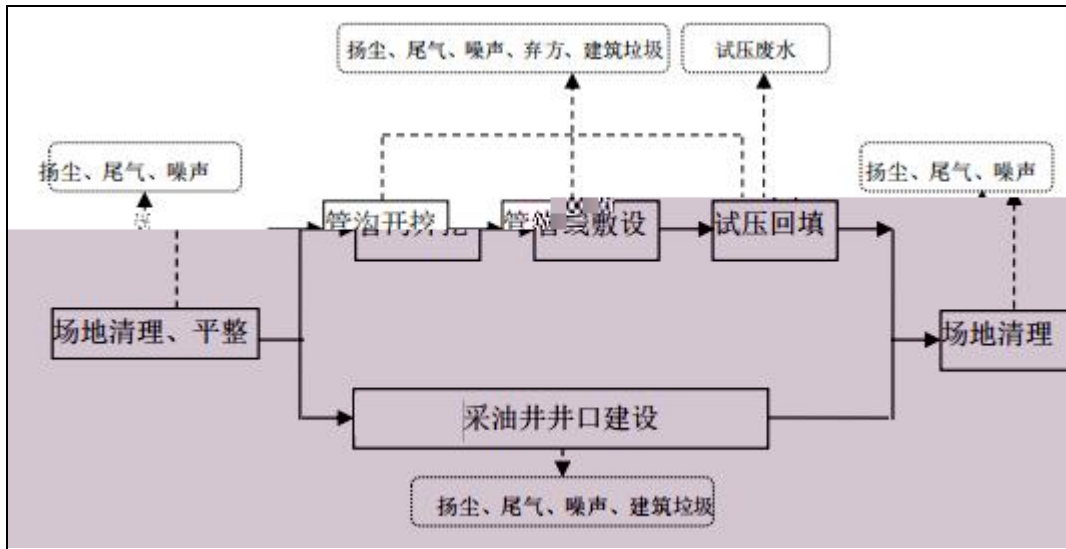
L360

3PE

53-5H 1

1

3.6-3



1

8m

2

5m

2m

0.8m

1.6m

1 1.5

0.5m

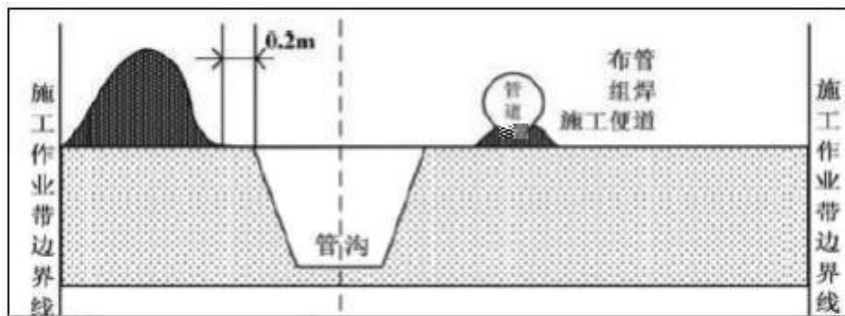
0.3m

400μm +

+

1.5m

3.6-2



3

4

RTU

53-5H

53-5H

5

53X

5

300mm

10mm

1.2m

300mm

53-5H

53X

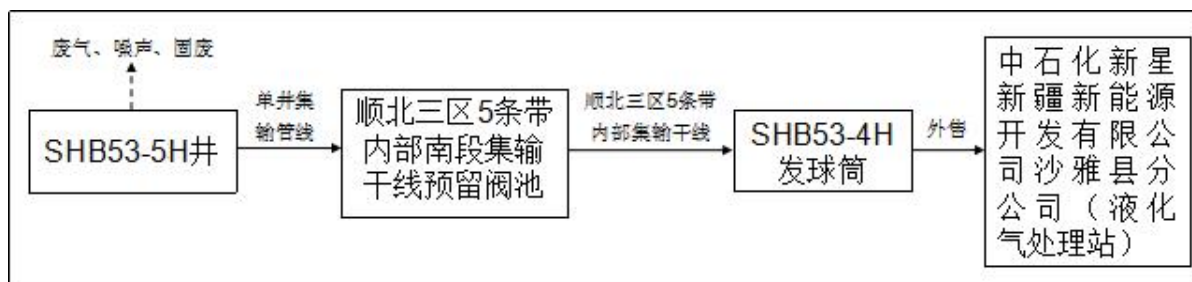
53-5H

53-5H

5

SHB53-4H

3.6-3



"d

3.8-1

2

SHB53-3H 53-5H 1

SHB53-5H

3.09×10⁴t/a

0.33×10⁸m³/a

			SHB53-4H 1km 1		SHB53-4H 1km 1
				1	

2019 910 2019 12 13

1 2 SHB53-3H SHB53-5H SHB53-5H 1

2 8km 5

7.6km 0.76km SHB53-5H 5

6.8km 53-5H SHB53-5H

7.24km 0.8km

SHB53-5

5#

2015 52 2015 6

4

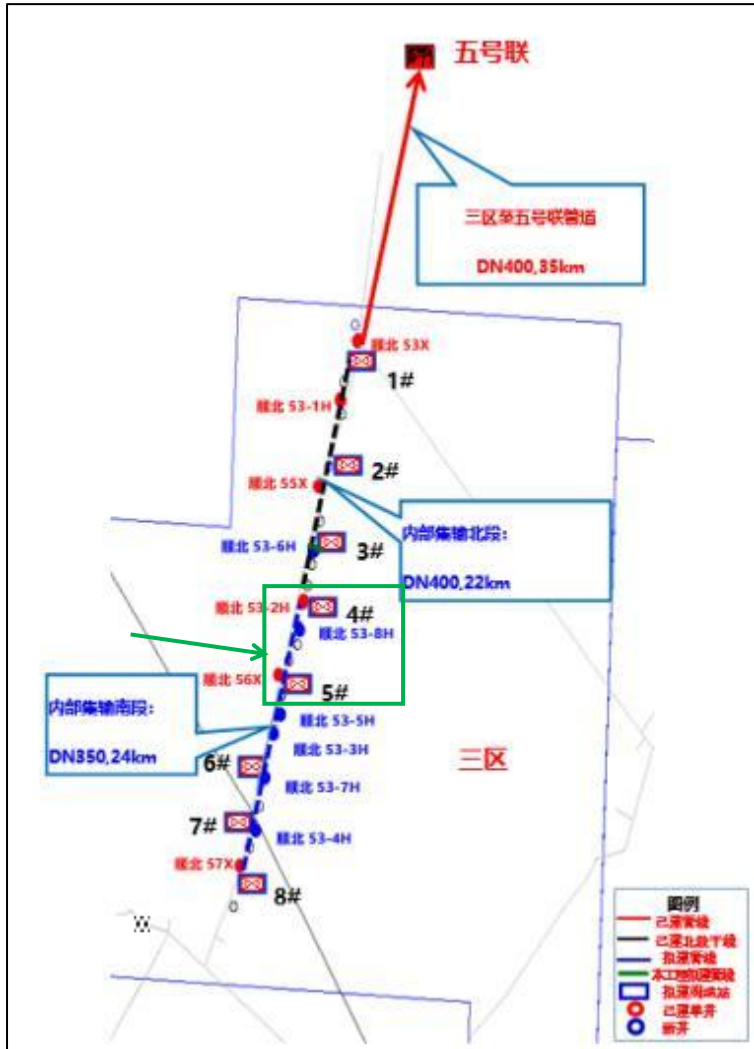
3 8 1 5# 53-5H

53X 53-5H

3.5-1 5#

2017 4

2019 910 2019 12 13



3.6% 9781 348.53
 3200 144.6 4.51%

SHB53-3H

3.9-1

		16	8	
		40	19	
		-	-	
		175.93	56.5	
		2.6	1.5	
		1	0.5	
		4	2	
		19	9.5	
	1.0×10 ⁻⁷ cm/s	15	7.5	
		20	15	
		20	9.6	
		15	7.5	
		20	8	

100km

53X

1

I

2

55.8km

15.3km SHB53-3H

SHB53-5H

2 SHB53-3H SHB53-5H 8

1 5#

8km

5

7.6km 4#

5#

3.09 t/a

70t/d

0.33×10⁸m³/a

7.5 /



2020 □

SO₂ NO₂ PM₁₀ PM_{2.5} CO

O₃

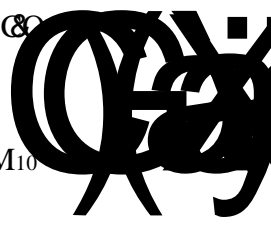
2020 - - "d)β³ (™ ö L SO₂ NO₂

CO O₃

GB3095-2012

PM_{2.5} PM₁₀

GB3095-2012



1

H₂S 1

HJ2.2-2018 D

2

GB3838-2002 III

GB/T14848-2017

III

3

É

GB3096-2008 2

4

3

—71.

2.64hm²12.48hm²

3.09t/a

<http://www.xjhbcy.cn/blog/article/6904>

2021 1 6

2021 3 25

<http://www.xjhbcy.cn/blog/article/7228>

2021 3 25

2021 3 29

2021 4

21

<http://www.xjhbcy.cn/blog/article/7406>

1

2019 910

2020 162 0

3~5

2

50050

2020

348.5

39

12.48

%

81

2021

SY/T5329-2012

GB/T50934-2013

GB12348-2008 2

GB18597-2001 2013

HJ2025-2012

3 5

2019 910

5

				1	53-5H
	5			1	53-5H
0.76km		5		6.8km	53-5H
SHB53-2H					
			14.37hm ²		1.89hm ²
12.48hm ²					6.703hm ²
0.655hm ²			6.048hm ²		
7.667hm ²			1.235hm ²		6.432hm ²
	53-3H				
			8m		

	hm ²			hm ²		
1	0.84	0	² 60m×70m	0.42	0	¹ 60m×70m

8m

5%

1

2

8m

3

1

2

1

8m

2

1

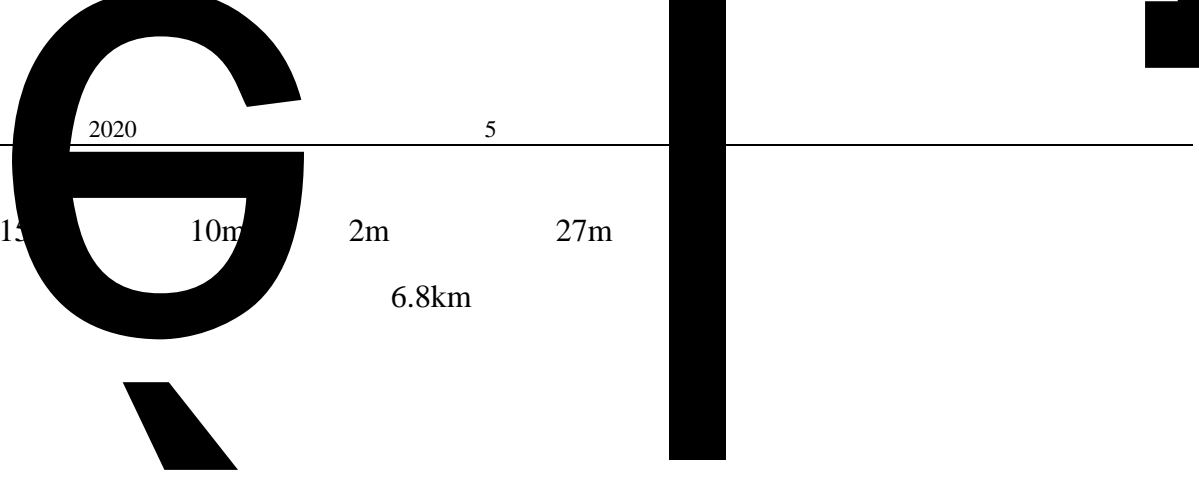
2

1

2

3

10m



1.89hm ²		8m
12.48hm ²		5
	DZ/T0317-2018	6

1	6.703hm ²	0.655hm ²
6.048hm ²		
2		8m
3		
4		

1

SY/T 5329-2022

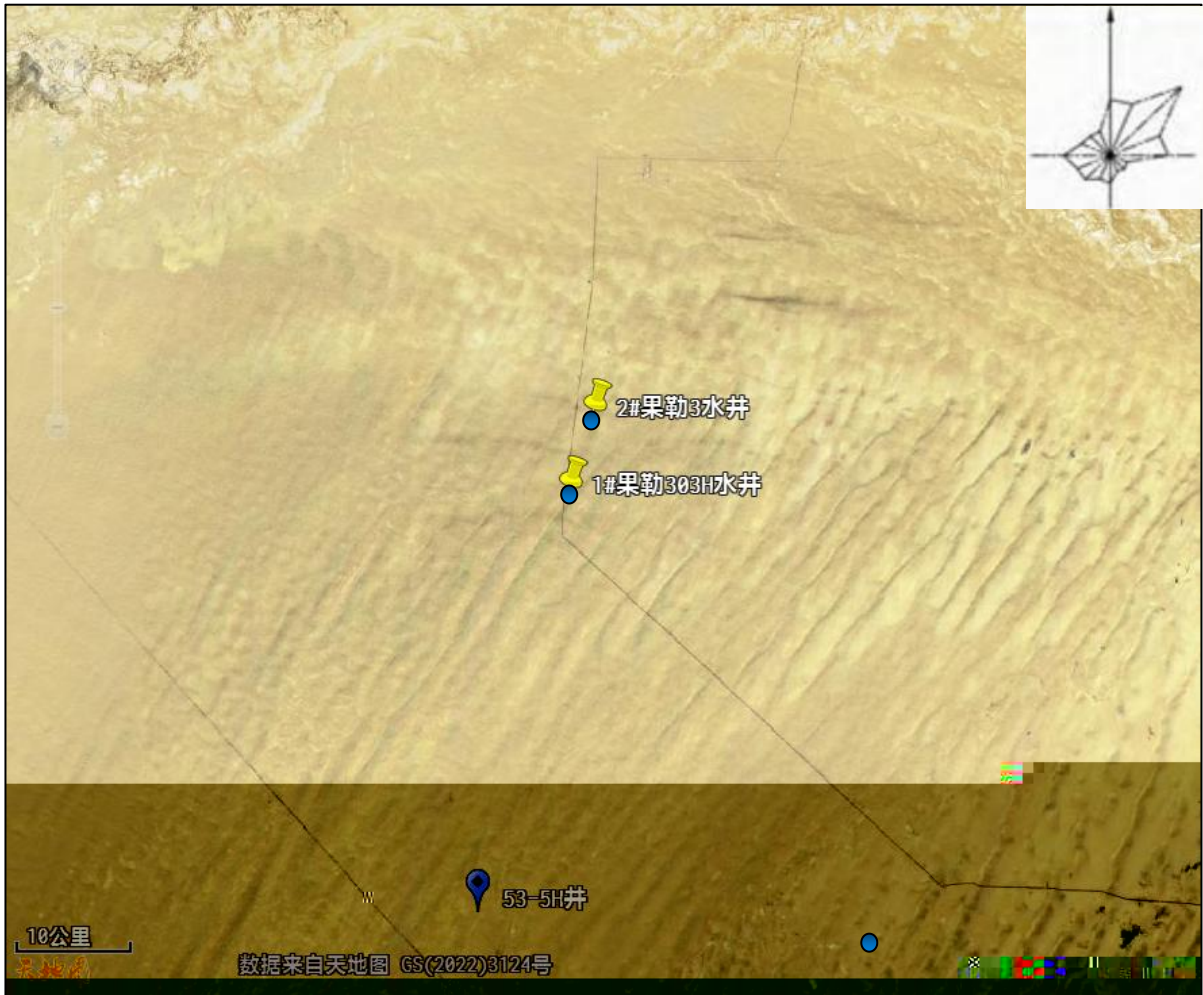
8.3-1	5
1	1
5	

303H

3

2

	1# 303H 53-5H 32.8km			pH	2024.2. 1~2024. 2.2
	2# 3 53-5H 38.9km		()		2 /d 2d



pH

()

GB/T14848-2017 III

GB3838-2002 III

6.2-2

pH		GB/T14848-2017 III
()		
		GB 3838-2002 III

1		HJ 164-2020	-	-
2		GB 11903-1989	-	-
3		4 6.1 GB/T 5750.4-2023	-	-
4		4 7.1 GB/T 5750.4-2023	-	-
5	pH	pH HJ 1147-2020		PHB-4 PH XHC-SY178
6		EDTA GB 7477-1987	5.0mg/L	-
7		4 11.1 GB/T 5750.4-2023	-	AL204 XHC-SY031
		HJ/T 342-2007	8mg/L	723N XHC-SY052
8			-	-

		GB 11896-1989		
9		65 HJ 700-2014	0.82μg/L	iCAP RQ XHC-SY251
10		65 HJ 700-2014	0.12μg/L	iCAP RQ XHC-SY251
11		65 HJ 700-2014	0.08μg/L	iCAP RQ XHC-SY251
12		65 HJ 700-2014	0.67μg/L	iCAP RQ XHC-SY251
13		65 HJ 700-2014	1.15μg/L	iCAP RQ XHC-SY251
14		4- HJ 503-2009	0.0003mg/L	723N XHC-SY052
15		GB 7494-1987	0.05mg/L	723N XHC-SY052
16		GB 11892-1989	0.5mg/L	-
17		HJ 535-2009	0.025mg/L	723N XHC-SY052
18		HJ 1226-2021	0.003mg/L	723N XHC-SY052
19		12 5.1 GB/T 5750.12-2023	2MPN/100mL	DH-360AS XHC-SY448
20		HJ 1000-2018	-	DH-360AS XHC-SY448
21		GB 7493-1987	0.003mg/L	723N XHC-SY052
22		HJ/T 346-2007	0.08mg/L	TU-1901 XHC-SY124
23		5 7.1 GB/T 5750.5-2023	0.002mg/L	723N XHC-SY052
24		GB 7484-1987	0.05mg/L	PXSJ-216 XHC-SY205
25		HJ 694-2014	0.04μg/L	AFS-11B XHC-SY380
26		HJ 694-2014	0.3μg/L	AFS-933 XHC-SY094
27			0.4μg/L	AFS-933 XHC-SY094

		HJ 694-2014		
28		65 HJ 700-2014	0.05µg/L	iCAP RQ XHC-SY251
29		GB 7467-1987	0.004mg/L	723N XHC-SY052
30		65 HJ 700-2014	0.09µg/L	iCAP RQ XHC-SY251
31		/ - HJ 639-2012	1.4µg/L	GC 8860-MSD 5977B - XHC-SY397
32		/ - HJ 639-2012	1.5µg/L	GC 8860-MSD 5977B - XHC-SY397
33		/ - HJ 639-2012	1.4µg/L	GC 8860-MSD 5977B - XHC-SY397
34		/ - HJ 639-2012	1.4µg/L	GC 8860-MSD 5977B - XHC-SY397
35		HJ 970-2018	0.01mg/L	TU-1901 XHC-SY124

1

10%

1

								%
X146-20	200851	2026.4		mg/L	6.23	±0.19	6.12	-1.8
X214-8	201755	2025.10		mg/L	1.61	±0.08	1.63	1.2
X113-40	202059	2027.03		µg/L	3.46	±0.27	3.24	-6.4
X112-56	200459	2026.10		µg/L	83.6	±5.0	80.9	-3.2
X170-27	B22120213	2025.2.1		µg/L	7.91	±0.35	8.15	3.0
X122-37	203371	2027.10		mg/L	0.221	±0.008	0.221	0.0
X144-87	A21110346	2025.1.10		mg/L	39.5	±1.8	39.1	-0.8

2

				%	%
	(µg)	50.0	51.2	102	85~115
	(µg)	16.35	17.09	106.6	60~120
	(µg)	0.20	0.204	102	85~115
	(µg)	0.80	0.809	101	80.0~120
	(µg)	0.80	0.815	102	80.0~120
	(µg)	0.80	0.660	82.5	80.0~120
	(µg)	0.80	0.804	100	80.0~120

1

						%		
			1	2				
SX-1-4		mg/L	327	327	327	0.0		8%
SX-1-4		mg/L	3.85	3.83	3.84	0.4		10%
SX-1-1		mg/L	600	607	604	0.6		5%

			1	2				
SX-1-1		mg/L	1.51	1.51	1.51	0.0		5%
SX-2-4		µg/L	7.12	6.80	6.96	2.3		20%
SX-2-4		µg/L	66.7	64.1	65.4	2.0		20%
SX-2-4		µg/L	1.67	1.59	1.63	2.5		20%
SX-2-4		µg/L	10.7	12.3	11.5	7.0		20%
SX-2-4		µg/L	9.05	7.64	8.34	8.4		20%
SX-2-4		µg/L	0.14	0.13	0.14	3.7		20%
SX-2-4		µg/L	0.16	0.13	0.14	10.3		20%
SX-2-4		mg/L	ND	ND	ND	0.0		20%
SX-1-1		mg/L	ND	ND	ND	0.0		15%
SX-2-4		mg/L	2.3	2.3	2.3	0.0		20%
SX-1-1		mg/L	0.052	0.052	0.052	0.0		15%
SX-2-4		mg/L	ND	ND	ND	0.0		30%
SX-2-4		mg/L	0.022	0.023	0.022	2.2		15%
SX-1-1		mg/L	7.15	7.15	7.15	0.0		15%
SX-1-1		mg/L	ND	ND	ND	0.0		20%
SX-1-1		mg/L	5.19	5.21	5.20	0.2		8%
SX-2-4		µg/L	0.07	0.08	0.08	6.7		20%
SX-2-4		µg/L	0.9	0.9	0.9	0.0		20%
SX-2-4		µg/L	9.2	9.2	9.2	0.0		20%
SX-2-4		mg/L	0.005	0.005	0.005	0.0		15%
SX-2-4		µg/L	ND	ND	ND	0.0		30%
SX-2-4		µg/L	ND	ND	ND	0.0		30%
SX-2-4		µg/L	ND	ND	ND	0.0		30%
SX-2-4		µg/L	ND	ND	ND	0.0		30%

						%		
			1	2				
SX-1-1		μg/L	0.06	0.06	0.06	0.0		20%
SX-2-1		μg/L	0.05	0.05	0.05	0.0		20%
SX-1-1		μg/L	3.0	3.1	3.0	1.6		20%
SX-2-1		μg/L	1.5	1.5	1.5	0.0		20%
SX-1-1		μg/L	4.9	4.7	4.8	2.1		20%
SX-2-1		μg/L	8.4	9.5	9.0	6.1		20%

5

pH

)

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GB/T14848-2017

GB3838-2002

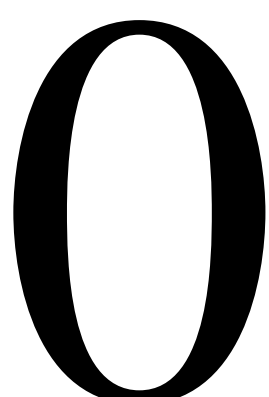
6.2-8

			303H				3						
			2024.1.31		2024.2.1		2024.2.1		2024.2.2				
			SX-1-1	SX-1-2	SX-1-3	SX-1-4	SX-2-1	SX-2-2	SX-2-3	SX-2-4			
1			5	5	5	5	10					15	
2		/										/	
4	pH		8.2	8.2	8.2	8.2	8.0	8.1	8.0	8.0		6.5~8.5	
			325	324	327	327	2.60×10 ³	2.69×10 ³	2.65×10 ³	2.71×10 ³			
			3.76×10 ³	3.70×10 ³	3.93×10 ³	3.84×10 ³	1.30×10 ⁴	1.33×10 ⁴	1.26×10 ⁴	1.29×10 ⁴			
			604	618	611	598	2.98×10 ³	3.05×10 ³	3.04×10 ³	3.10×10 ³			
			1.51×10 ³	1.56×10 ³	1.55×10 ³	1.52×10 ³	4.71×10 ³	4.80×10 ³	4.77×10 ³	4.77×10 ³			
		mg/L	7.37×10 ⁻³	5.03×10 ⁻³	3.75×10 ⁻³	3.29×10 ⁻³	6.70×10 ⁻³	6.58×10 ⁻³	2.25×10 ⁻³	6.96×10 ⁻³		0.3	
10		mg/L	7.20×10 ⁻³	7.04×10 ⁻³	6.06×10 ⁻³	7.10×10 ⁻³	68.5×10 ⁻³	67.2×10 ⁻³	17.7×10 ⁻³	65.4×10 ⁻³		0.10	
11		mg/L	2.04×10 ⁻³	1.23×10 ⁻³	1.49×10 ⁻³	1.92×10 ⁻³	1.98×10 ⁻³	2.37×10 ⁻³	0.70×10 ⁻³	1.63×10 ⁻³		1.00	
12		mg/L	ND	ND	ND	ND	11.1×10 ⁻³	14.2	7.88×10 ⁻³	11.5×10 ⁻³		1.00	
13		mg/L	22.5×10 ⁻³	14.4×10 ⁻³	14.5×10 ⁻³	13.5×10 ⁻³	9.20×10 ⁻³	9.46×10 ⁻³	2.71×10 ⁻³	8.34×10 ⁻³		0.20	
14		mg/L	ND	ND	ND	ND	ND	ND	ND	ND		0.002	
15		mg/L	ND	ND	ND	ND	ND	ND	ND	ND		0.3	
16		mg/L	2.7	2.5	2.6	2.1	2.7	2.3	2.2	2.3		3.0	
17		mg/L	0.052	0.064	0.060	0.032	0.052	0.066	0.052	0.056		0.50	
18		mg/L	ND	ND	ND	ND	ND	ND	ND	ND		0.02	
19		MPN/10 0mL	<2	<2	<2	<2	<2	<2	<2	<2		3.0	
20		CFU/mL	87	79	94	85	84	99	95	87		100	

		303H				3				
		2024.1.31		2024.2.1		2024.2.1		2024.2.2		
		SX-1-1	SX-1-2	SX-1-3	SX-1-4	SX-2-1	SX-2-2	SX-2-3	SX-2-4	
22	mg/L	0.228	0.223	0.240	0.226	0.043	0.035	0.034	0.022	1.00
23	mg/L	7.15	7.11	7.19	7.07	5.04	5.04	5.12	5.29	20.0
24	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	0.05
		5.20	5.15	5.04	5.19	2.51	2.68	2.60	2.53	
26	mg/L	0.06×10^{-3}	0.07×10^{-3}	0.05×10^{-3}	0.07×10^{-3}	0.05×10^{-3}	0.05×10^{-3}	0.05×10^{-3}	0.08×10^{-3}	0.001
27	mg/L	3.0×10^{-3}	3.0×10^{-3}	3.5×10^{-3}	3.0×10^{-3}	1.5×10^{-3}	1.1" ò			

3

'0e



GB/T14848-2017 III

GB 3838-2002 III

6.3-1

100%		1 2 3 1
		SY/T5329-2012

SY/T5329-2012	GB/T50934-2013	
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1

1

2

SY/T 5329-2022

3

GB/T14848-2017 III

GB3838-2002 III

4

1

2

1

194-2017

HJ/T 397-2007

GB/T16157-1996

1

2

3

1

2

1

2

53-5H

7.2-4

					H ₂ S		
SHB53-5H	1#	1.54~1.90	4.0		ND	0.06	
	2#	1.83~2.10			0.005		
	3#	1.70~2.08			0.005		
	4#	1.83~2.02			0.005~0.006		

53-5H

GB39728-2020 5.9

H₂S

GB14554-93 1

7.3-1

		1	
			2
		3	
			4

			5
VOCs 1.62t/a H ₂ S 0.0073t/a	GB39728-2020	1 2	
98m 5.0km	GB14554-93	3	53-5H
	VOCs	GB39728-2020 5.9	
	VOCs	H ₂ S GB14554-93	1

1

2

53-5H

GB39728-2020 5.9

H₂S

GB14554-93 1

3

1

2

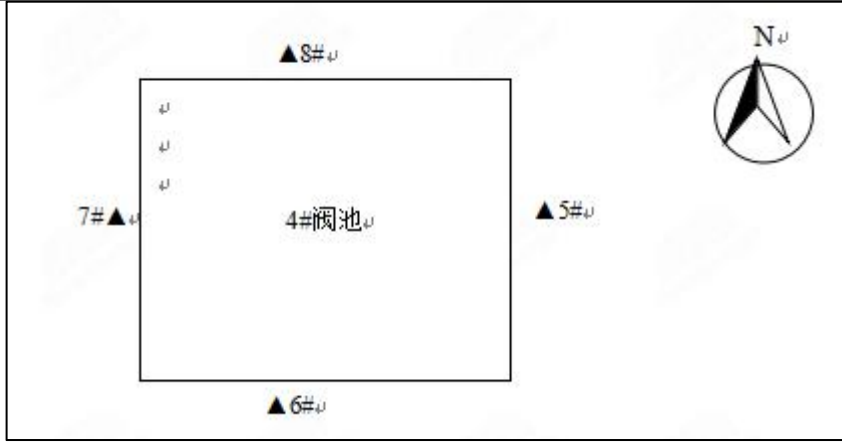
200m

53-5H

8.2-1

7.2-1

53-5H	1m	A Leq	2024.1.27-1.29	1 2d
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GB12348-2008 1

2

8.2-2

	dB A	
	60	GB12348-2008 1 2
	50	

GB12348-2008 1 2

8.2-3

	GB12348-2008	AWA6228+ XHC-SY176/426

1

2

3

0.5dB

0.5dB A

4

5.0m/s

5

8.2-4

53-5H		39	39	60		37	36	50	
		39	41			36	36		
	1m	40	41			36	35		
		42	39			37	36		

53-5H

GB12348-2008 1 2

8.3-1

		1	
	/		2

		1	
			2
			200m
GB12348-2008 2		3	
	GB12348-2008 2		GB12348-2008 1
		2	

1

200m

2

53-5H

GB12348-2008 1 2

3

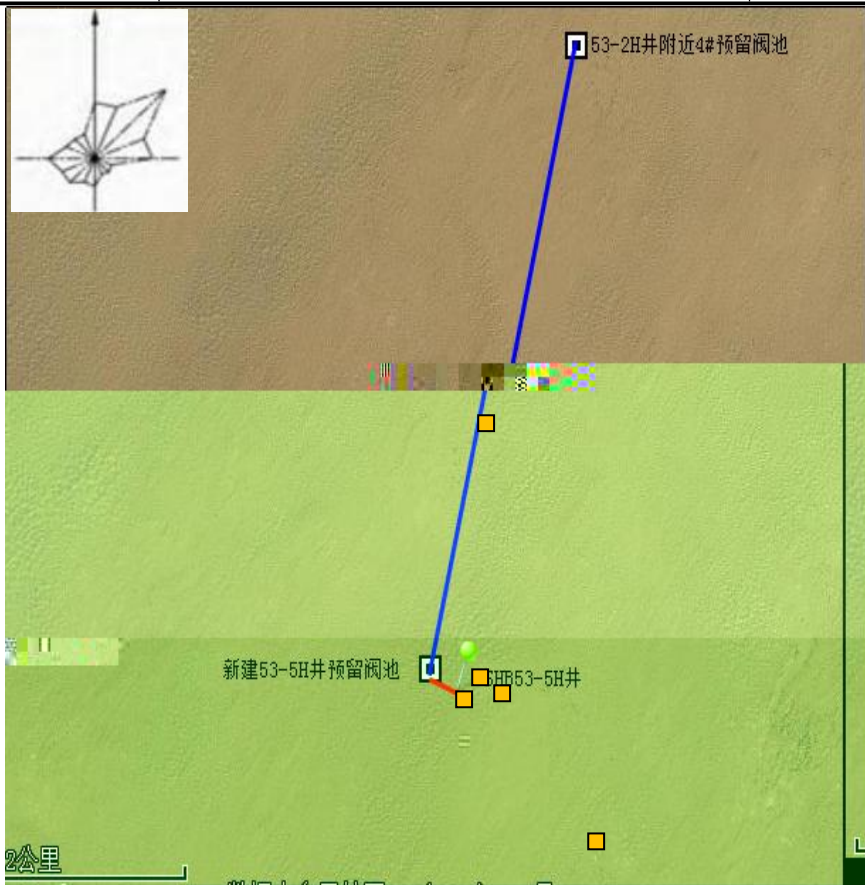
1

53-5H

9.2-1

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53-5H	<p>pH</p> <p>1 1- 1,2-</p> <p>1,1- -1,2- -1,2-</p> <p>1,2- 1,1,1,2-</p> <p>1,1,2,2- 1,1,1-</p> <p>1,1,2- 1,2,3,-</p> <p>1,2- 1,2-</p> <p>1,4- +</p> <p>2-</p> <p>[a] [a] [b] [k]</p> <p>[a,h] [1,2,3-cd]</p>	1 / 1	2024.1.27
53-5H 20m 30m 50m	10m pH		
53-5H	pH		
4# 53-2H 56X 7.6km	pH		



9.2-2

1,1- -1,2- 1,1,1,2- 1,1,2- [a] [a,h]	1,2- 1,1,2,2- 1,2- + [a] [1,2,5-cd]	1,1- 1,2- 1,2,3- 1,4 [b]	-1,2- 1,1,1- 2- [k]	1	GB36600-2018
				2	GB36600-2018

9.2-3

	2 GB/T 22105.2-2008	0.01mg/kg	AFS-933 XHC-SY094
	12 - HJ 803-2016	0.07mg/kg	iCAP RQ XHC-SY251
()	- HJ 1082-2019	0.5mg/kg	TAS-986 XHC-SY090
	12 - HJ 803-2016	0.5mg/kg	iCAP RQ XHC-SY251
	12 - HJ 803-2016	2mg/kg	iCAP RQ XHC-SY251

	1 GB/T 22105.1-2008	0.002mg/kg	AFS-11B XHC-SY380
	12 - HJ 803-2016	2mg/kg	iCAP RQ XHC-SY251
	605-2011 / - HJ	1.3µg/kg	GC8860-MSD5977B - XHC-SY397
		1.1µg/kg	
		1.0µg/kg	
1,1-		1.2µg/kg	
1,2-		1.3µg/kg	
1,1-		1.0µg/kg	
-1,2-		1.3µg/kg	
-1,2-		1.4µg/kg	
		1.5µg/kg	
1,2-		1.1µg/kg	
1,1,1,2-		1.2µg/kg	
1,1,2,2-		1.2µg/kg	
		1.4µg/kg	
1,1,1-		1.3µg/kg	
1,1,2-		1.2µg/kg	
		1.2µg/kg	
1,2,3-	1.2µg/kg		
	1.0µg/kg		
	1.9µg/kg		
	1.2µg/kg		
1,2-	605-2011 / - HJ	1.5µg/kg	GC8860-MSD5977B - XHC-SY397
1,4-		1.5µg/kg	
		1.2µg/kg	
		1.1µg/kg	

+

1.3µg/kg

1.2µg/kg

1.2µg/kg

83

1

-

HJ

1

						%
GSS-20	2030.03		mg/kg	8.7	±0.6	8.38
GSS-20	2030.03		mg/kg	0.008	±0.002	0.00743
GSS-32	2027.12		mg/kg	0.066	±0.007	0.063
GSS-32	2027.12		mg/kg	26	±2	25.9
GSS-32	2027.12		mg/kg	37	±2	39
HTSB-6	2028.05	pH		8.64	±0.08	8.59
ASA-4b	2027.3		g/kg	5.8	±0.6	6.12
HTSB-6	2028.05		g/kg	0.65	±0.05	0.64

2

				%	%
HT-1-1	(mg)	0.1	0.003	76.5	70~130
	(µg)	20	15.0~25.7	75.2~128	70~130
	(µg)	15	8.82~11.52	70.6~92.2	70~130
	C10-C40 (mg)	1.86	1.61	86.6	70~120

					%	%
	(μg)	20.0	17.1		85.5	80~110

3

						%		
			1	2				
HT-7-1		mg/kg	5.98	6.41	6.15	4.2		7%
HT-7-1		mg/kg	0.0144	0.0166	0.0155	7.1		12%
HT-7-1	()	mg/kg	ND	ND	ND	0.0		20%
HT-7-1		mg/kg	0.10	0.10	0.10	0.0		40%
HT-7-1		mg/kg	11.5	11.7	11.6	0.9		30%
HT-7-1		mg/kg	12	13	12	4.0		30%
HT-7-1		mg/kg	16	17	16	3.0		30%
HT-7-1		$\mu\text{g}/\text{kg}$	ND	ND	ND	0.0		25%
HT-7-1		mg/kg	ND	ND	ND	0.0		40%
HT-7-1	C10-C40	mg/kg	54	60	57	5.3		25%
HT-1-1		mg/kg	ND	ND	ND	0.0		30%

			1	2				
HT-6-1	pH		10.26	10.26	10.26	0.0		0.2
HT-5-1		g/kg	1.55	1.43	1.49	0.1		0.5
HT-5-1		%	0.012	0.012	0.012	0.0		0.004

HJ/T166-2004

9.2-8~ 9.2-10

		53-5H		
1		6.15	60	
2		0.10	65	
3		ND	5.7	
4		12	800	
5		11.6	18000	
6		0.0155	38	
7		16	900	
8		ND	4	
9		ND	1200	
10		ND	0.43	
11	1,1-	ND	66	
12		ND	616	
13	-1,2-	ND	54	
14	1,1-	ND	9	
15	-1,2-	ND	596	
16		ND	0.9	
17	1,1,1-	ND	840	
18		ND	2.8	
19	1,2-	ND	5	
20		ND	2.8	
21		ND	37	

22	1,1,2-	ND	2.8
23		ND	53
24		ND	270
25	1,1,1,2-	ND	10
26		ND	28
27	- + -	ND	570
28		ND	640
29		ND	1290
30	1,1,2,2-	ND	6.8
31	1,2,3-	ND	0.5
32	1,4-	ND	20
33	1,2-	ND	560
34		ND	70
35	1,2-	ND	5
36		ND	76
37		xD	õ.

2020

5

	/	4500	/	/
	/		/	/

53-5H

10m 20m 30m

50m

GB36600-2018

9.3-1

1

2

1

0.3t

3

3.6t/a

10808

6.048hm²

6.703hm²

0.655hm²

50m

1m×1m

30m

1m×1m

RĚ³ DĚ°

2003 1 1

2012

1

/

/

/

2019

2019

2020

2020 11

18

2022

2023

2023 8 13

/

2021 6

5

2020

2021 7 14

2021 120

2021 10 25

2021 12 23

HSE

HSE

HSSE

HSSE

HSSE

2019

2021 6 10

91650000742248144Q098Q

2021 12 24 2022 4 14 2022 12 14 2023 8 30

53X

400kW

2020

6

91650000742248144Q021Z

2020 6 18 2021 6 10 2022 1 22 2022 7 28

2023 7 3

91650000742248144Q118Q

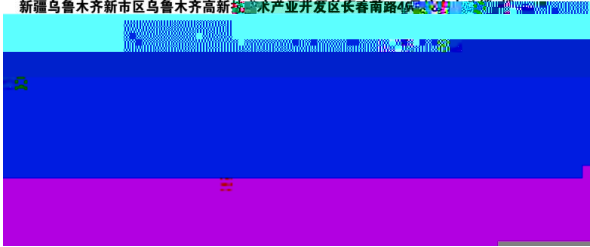
排污许可证

证书编号: 91650000742248144Q098Q

单位名称: 中国石油化工股份有限公司西北油田分公司采油四厂五号联合站

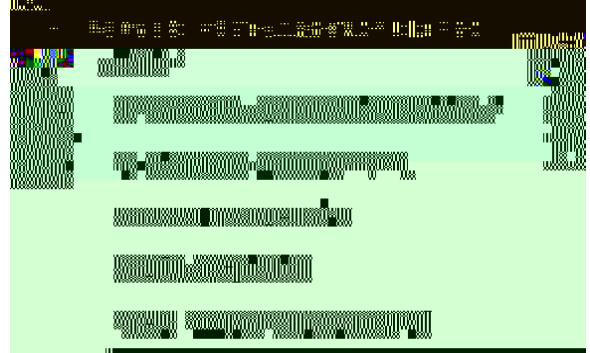
注册地址:

新疆乌鲁木齐新市区乌鲁木齐高新技术产业开发区长春南路4号



固定污染源排污登记回执

登记编号: 91650000742248144Q098Q



排污许可证

证书编号: 91650000742248144Q118Q

单位名称: 中国石油化工股份有限公司西北油田分公司采油四厂六号联合站

注册地址:



1					
2					
3		5 1 1 5 1		1	1
4				5 1	
5				1 /	

652924-2023-011-M

QHSE

QHSE

QHSE

QHSE

1

2

3

12.9

	DZ/T0317-2018	1 2 3 4 5 8m 6
2		1 2

GB39728-2020

GB14554-93

VOCs

SY/T5329-2012

SY/T 5329-2022

SY/T5329-2012

GB/T50934-2013

1

2

4

GB12348-2008 2

	GB18597-2001 2013 HJ2025-2012	
6		652924-2023-011-M
7		QHSE QHSE
8		53-5H

9	3 5	1 7 25 2023 2 2022
10		2019 2021 6 10 91650000742248144Q098Q 2021 12 24 2022 4 14 2022 12 14 2023 8 30 53X 400kW 2020 6 91650000742248144Q021Z 2020 6 18 2021 6 10 2022 1 22 2022 7 28 2023 7 3 91650000742248144Q118Q
11		1 2 100% 2023 8 13 3

	2019 910	2022 7 25

50

50

50

100%

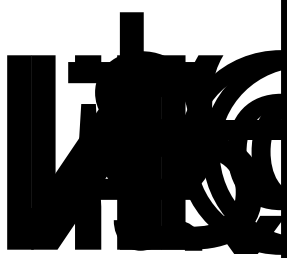
13.3-1

					30 40-50	30-40 50
	2020				5	

13.4-1

			50
			0
			0
			49
			1
			0
			50
			0
			0
			0
			50
			50
			50
			0
			0
			50
			0
			0
			50
			0
			0
			50
			0

50



		1	SHB53-5H		5	
1	SHB53-5H			0.2km		5
8.3km		53-5H	SHB53-5H			
						0.44×10 ⁸ m ³ /a
	2022	2	28	2022	6	1
			3200		144.6	4.51%
	1		6.703hm ²			0.655hm ²
6.048hm ²						
	2					8m
	3					
	1					

53X

1
200m

2

53-5H

GB12348-2008 1 2

1

53X

2 53-5H

3

53-5H

10m

20m 30m 50m

GB36600-2018

QHSE

QHSE

QHSE

2020

5

2021 12 24 2022 4 14 2022 12 14 2023 8 30
 53X 400kW 2020

6

91650000742248144Q021Z

2020 6 18 2021 6 10 2022 1 22 2022 7 28

2019

2019

2020

2020

11 18

2022

2023

2023

8 13

100%

1 + - 2 (12)=(6)-(8)-(11) 9 =(4)-(5)-(8)-(11)+ 1 3 — / — / — / — /

/ , -- / -- /