2019 4

1 1
2 2
2.1 2
2.2 2
2.3 2
3 3
3.1 3
3.2 5
3.3 7
3.4 9
4 10
4.1 10
4.2 12
..... 13
4.4 “ ” 14
5 18
5.1 18
5.2 19
6 22
6.1 22
6.2 22
7 23
8 24
8.1 24
8.2 24
8.3 25
9 26
9.1 26
9.2 26
9.3 27
9.4 27
10 29
10.1 29
10.2 29
10.3 29
10.4 29
..... 30
11.1 30
11.2 30

1

3

2009

2010 3 30

144 120

861

1986

2016

2017 7 2018 9 2016

11 21 “ 2016 80 ”

2019 3

2

2.1

2.2

1

[2018]9 2018.5.15

2.3

1

2016.9

2

2016 80 2016.11.21

3

3.1

3

3

30km,

2.0km 0.8km 410m

460m 630m

50m

100m 102m

214m 323m

319m 320m

50 350m

195m

286m

138m 274m 1600m

210m 508m

217m 350m 320m

450m

160m

1 13.5 300m 26 52

2 3000m^3 92# 1 2000m^3

95# 3 5000m^3 0# 1 5000m^3

1 2000m^3

3.0 m^3

5 6 150m^2

0.15m

22710m^2

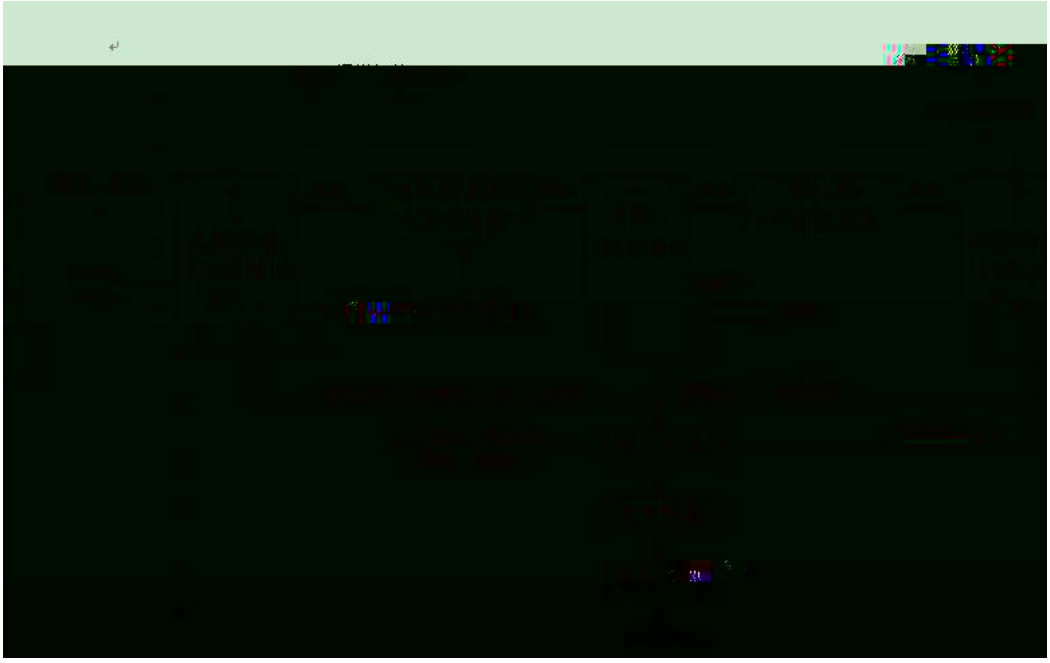
100m

3-1

3.2

3.3

92# 95# 0#



3.4

4

4.1

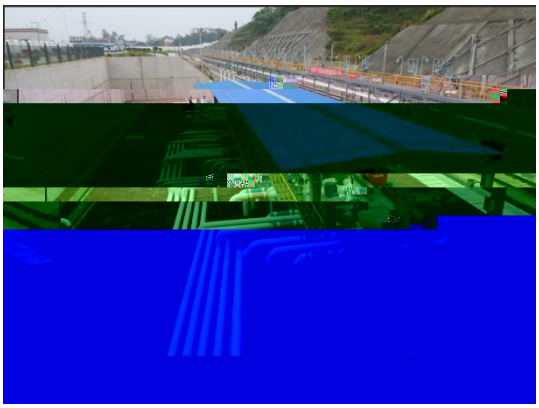
4.2

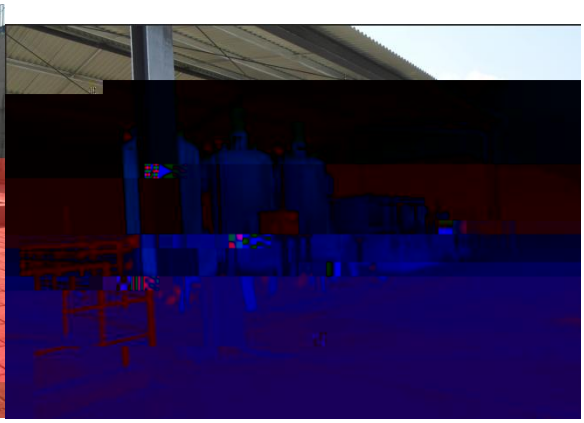
4.4 “ ”

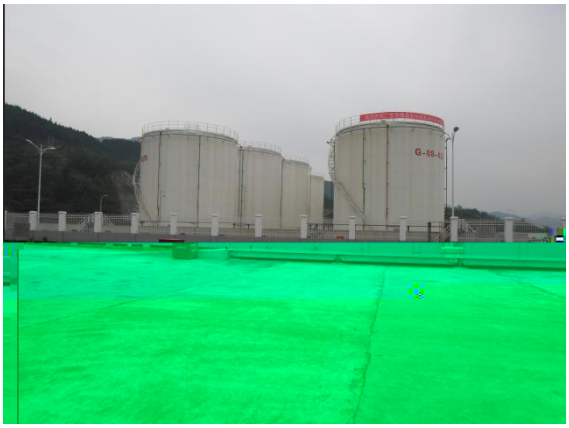
10850.12 1232

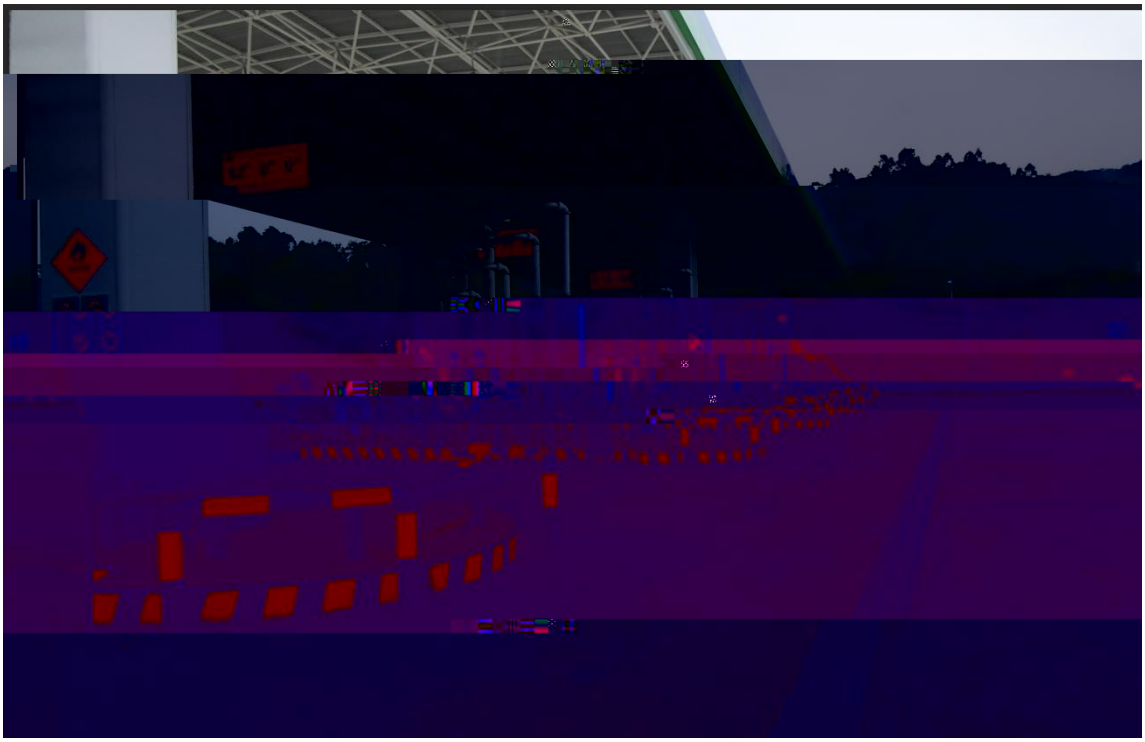
11.35 1232 11.35

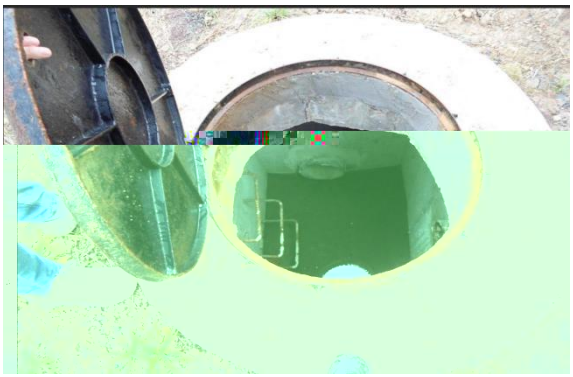
4-1

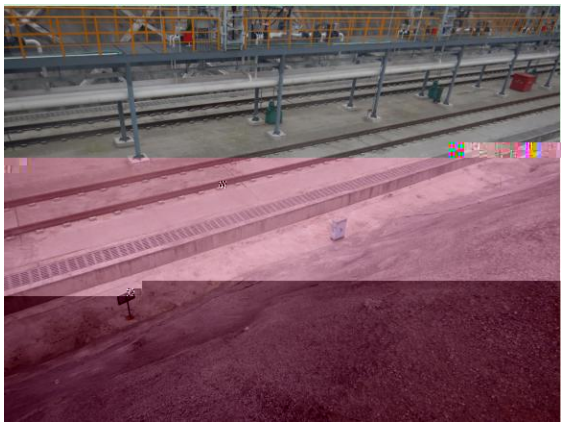












5

5.1

5.2

6

6.1

7

1

2

8

8.1

1

2

3

,

4

2

0.5dB

5m/s

GB12348 2008

8.2

1

2

3

4

5

6

7

8.3

9

9.1

3.0 m^3 0.8 m^3 1.5 m^3 0.5 m^3 0.2 m^3 20 /

75%

2019 3 4 5

9-1

9.2

2019 3 4 5 5m/s

2

9.3

9.4

10

10.1

2

10.2

10.3

10-1

10-1

10.4

11.1

“ ”

312 2.88%

GB12348-2008 3

11.2

“ ”