

|       |           |    |
|-------|-----------|----|
| 1     | .....     | 1  |
| 2     | .....     | 13 |
| 2.1   | .....     | 13 |
| 2.1.1 | .....     | 13 |
| 2.1.2 | .....     | 14 |
| 2.1.3 | .....     | 14 |
| 2.1.4 | .....     | 15 |
| 2.2   | .....     | 15 |
| 2.2.1 | .....     | 15 |
| 2.2.2 | .....     | 16 |
| 2.3   | .....     | 16 |
| 2.3.1 | .....     | 16 |
| 2.3.2 | .....     | 17 |
| 2.4   | .....     | 19 |
| 2.4.1 | .....     | 19 |
| 2.4.2 | .....     | 21 |
| 2.4.3 | .....     | 22 |
| 2.4.4 | .....     | 22 |
| 2.4.5 | .....     | 23 |
| 2.4.6 | .....     | 23 |
| 2.4.7 | .....     | 23 |
| 2.5   | .....     | 24 |
| 2.6   | .....     | 24 |
| 2.7   | .....     | 25 |
| 2.7.1 | “ ” ..... | 25 |
| 2.7.3 | .....     | 25 |
| 2.8   | .....     | 26 |
| 2.8.1 | .....     | 26 |



|       |       |    |
|-------|-------|----|
| 4.4.1 | ..... | 59 |
| 4.4.2 | ..... | 61 |
| 4.4   | ..... | 80 |
| 5     | ..... | 81 |
| 5.1   | ..... | 81 |
| 5.1.1 | ..... | 81 |
| 5.1.2 | ..... | 81 |
| 5.1.3 |       |    |

6.2.5

6.2.6

11

11

|        |       |     |
|--------|-------|-----|
| 9.1.4  | ..... | 142 |
| 9.1.5  | ..... | 143 |
| 9.1.6  | ..... | 145 |
| 9.2    | ..... | 146 |
| 9.2.1  | ..... | 146 |
| 9.2.2  | ..... | 147 |
| 10     | ..... | 149 |
| 10.1   | ..... | 149 |
| 10.2   | ..... | 150 |
| 10.2.1 | ..... | 150 |
| 10.2.2 | ..... | 150 |
| 10.2.3 | ..... | 150 |
| 10.2.4 | ..... | 150 |
| 10.2.5 | ..... | 150 |
| 10.3   | ..... | 151 |
| 10.3.1 | ..... | 151 |
| 10.3.2 | ..... | 151 |
| 10.3.3 | ..... | 151 |
| 10.3.4 | ..... | 152 |
| 10.3.5 | ..... | 152 |
| 10.3.6 | ..... | 152 |
| 10.3.7 | ..... | 152 |
| 10.4   | ..... | 152 |
| 10.5   | ..... | 154 |
| 10.6   | ..... | 154 |
| 10.7   | ..... | 154 |

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"(\$#P@y\$@

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#P@y ..." P@y ...



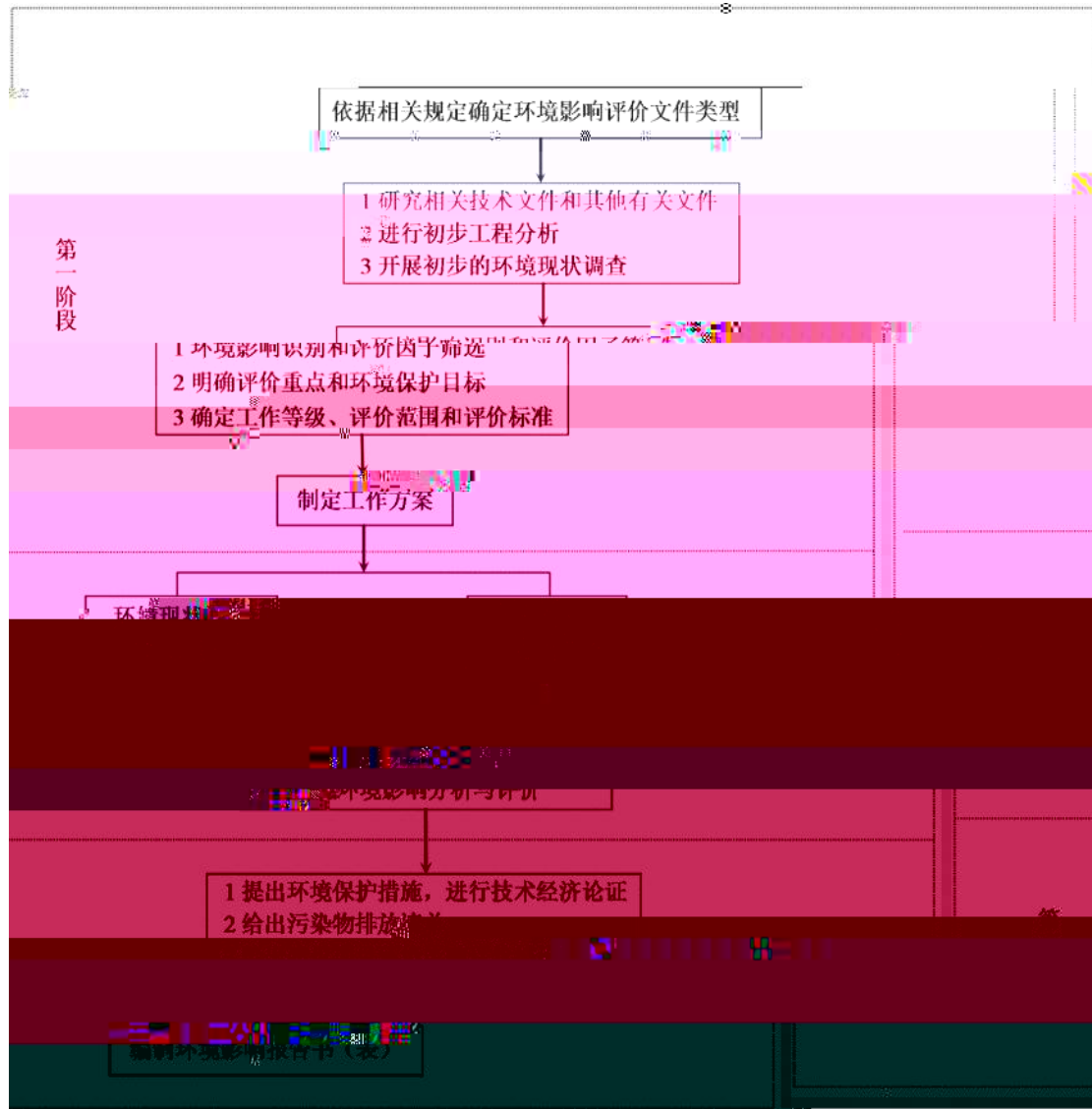
1 2021 12

2022 3

2 2022 6

3 2022 6

4 2022 7



1-1

1

GB/T 4754-2017

“CC3514

”

2019

“ ” “ ”

2 “ ”

“ ”

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“ ”

[2015]16

|       |              |  |
|-------|--------------|--|
|       |              |  |
|       |              |  |
|       |              |  |
|       |              |  |
| 2.73  | 2020<br>26 / | 140024.75 /<br>1043600<br>0.13 /<br>26 / |
| 350 / | 2019 4 1     | 577256<br>1371.93<br>420.76 /<br>350 /   |

“ ”

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“ ”

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“ ”

|     |       |   |
|-----|-------|---|
|     |       |   |
| “ ” | _____ | “ |
| “ ” |       | ” |

|     |     |  |
|-----|-----|--|
|     |     |  |
|     | “ ” |  |
| “ ” |     |  |

|         |      |  |
|---------|------|--|
|         |      |  |
|         | VOCs |  |
| ” “ ” “ |      |  |
| VOCs    |      |  |
| +       | +    |  |

6

2020

[2020]33

1-5

2020

2020 33

|      |      |      |
|------|------|------|
|      |      |      |
| VOCs |      |      |
| VOCs | VOCs | VOCs |
| VOCs | VOCs | VOCs |

# PROBAND

VOCs  
2000  
VOCs



|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |

8

1-7

VOCs

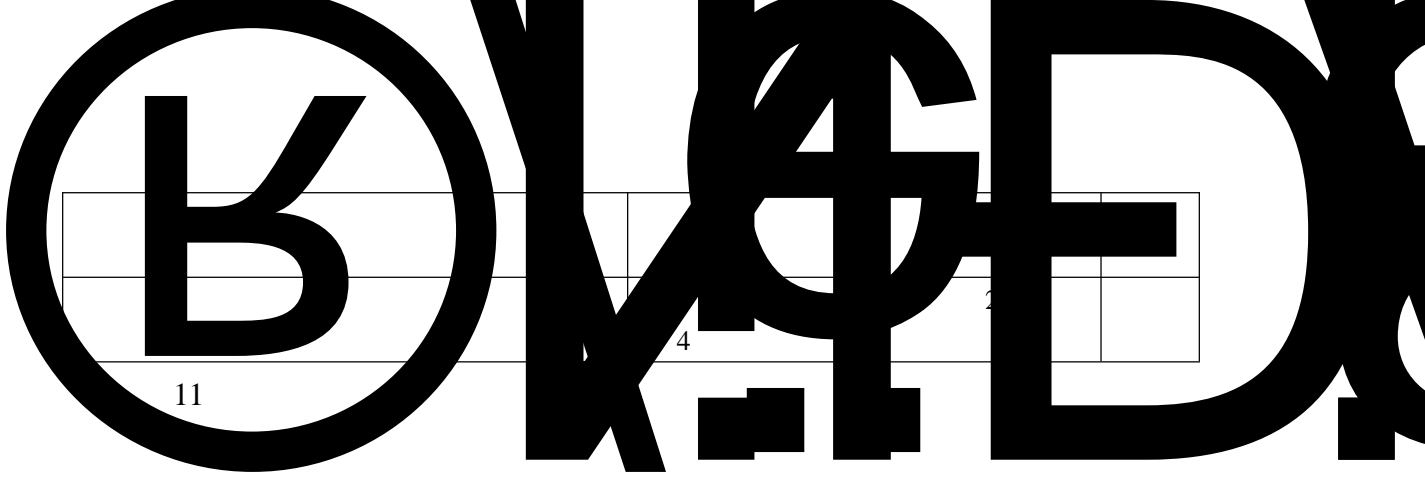
VOCs

VOCs

“ ”

VOCs

VOCs



”

150m

“

”

150m

1

2

3 ÅE÷



|      |    |      |    |      |      |    |    |      |     |
|------|----|------|----|------|------|----|----|------|-----|
| 1    |    |      |    | 2014 | 4    | 24 |    | 2015 | 1   |
| 1    |    |      |    |      |      |    |    |      |     |
| 2    |    |      |    | 2018 | 12   | 29 |    |      |     |
| 3    |    |      |    | 2018 | 10   | 26 |    |      |     |
| 4    |    |      |    | 2017 | 6    | 27 |    |      |     |
| 5    |    |      |    | 2018 | 12   | 29 |    |      |     |
| 6    |    |      |    |      | 2020 | 4  | 29 |      |     |
| 2020 | 9  | 1    |    |      |      |    |    |      |     |
| 7    |    |      |    | 2019 | 1    | 1  |    |      |     |
| 8    |    |      |    | 2012 | 7    | 1  |    |      |     |
| 9    |    |      |    | 2018 | 10   | 26 |    |      |     |
| 10   |    |      |    | 2016 | 7    | 2  |    |      |     |
| 11   |    |      |    | 2019 | 8    | 26 |    |      |     |
| 12   |    |      |    | 2019 | 4    | 23 |    |      |     |
| 13   |    |      |    | 2017 | 10   | 1  |    |      |     |
| 14   |    |      |    |      | 2021 |    |    | 2021 | 1   |
| 1    |    |      |    |      |      |    |    |      |     |
| 15   |    |      |    |      |      |    |    | 2015 | 162 |
| 16   |    |      |    | 2019 | 1    | 1  |    |      |     |
| 17   |    |      |    | 2019 |      |    |    |      |     |
|      | 29 | 2019 | 10 | 30   |      |    |    |      |     |
| 18   |    |      |    | 2012 |      |    |    | 2012 |     |
|      |    | 2012 | 98 |      |      |    |    |      |     |
| 19   |    |      |    | 2013 | 12   | 7  |    |      |     |

20 2021 2021 1 1  
21 1999 10 1  
22  
2012 77  
23  
2017 2 7  
24  
2019 53

1 2019 9 28  
2 2017 6 1  
3 2018 1 1  
4  
2016 176  
5 DB43 /023-2005  
6 2012 39  
7 2018 1 1  
8  
2018 10 9  
9 “ ”  
2020 11 17

1 HJ 2.1-2016  
2 HJ 2.2-2018  
3 HJ 2.3-2018  
4 HJ 610-2016  
5 HJ 2.4-2021  
6 HJ 19-2022  
7 HJ 964-2018

8

HJ 169-2018

9

2017

43

10

HJ 884-2018

11

HJ 1086-2020

1

2

2.2-1

|    |      |      |      |      |      |      |      |     |      |      |
|----|------|------|------|------|------|------|------|-----|------|------|
|    |      |      |      |      |      |      |      |     |      |      |
|    |      |      |      |      | -1LP |      |      |     |      |      |
|    |      |      |      |      |      |      |      | -2S |      |      |
|    |      |      |      |      |      | -2LP |      | -2S | -1LP |      |
|    | -1SP | -1SP | -1SP |      |      |      | -1LP |     | -1LP |      |
|    |      |      |      |      | -1LP | -1LP |      | -2S |      |      |
|    |      | -1SP |      |      | -1LP |      |      | -2S |      |      |
|    |      |      |      |      |      |      |      |     |      | +2LP |
|    |      |      |      |      |      | -1LP |      |     |      |      |
|    | -1SP | -1SP |      |      |      |      |      |     | -1LP |      |
|    | -1SP |      | -1SP | -1LP | -2LP |      | -1LP | -2S |      |      |
|    |      |      | -1SP | -1LP | -2LP | -1LP | -1LP |     | -2LP |      |
| W- | 1-   | 2-   | 3-   |      |      | S-   | L-   |     |      | P-   |
|    |      | +    | -    |      |      |      |      |     |      |      |

2.2-2

|  |   |  |
|--|---|--|
|  |   |  |
|  | SO <sub>2</sub> NO <sub>2</sub> PM <sub>10</sub> CO PM <sub>2.5</sub> O <sub>3</sub> NMHC   | SO <sub>2</sub> NO <sub>x</sub><br>NMHC                        |
|  | pH COD  | pH SS BOD <sub>5</sub> COD <sub>Cr</sub><br>NH <sub>3</sub> -N |
|  | K <sup>+</sup> Na <sup>+</sup> Ca <sup>2+</sup> Mg <sup>2+</sup> CO <sub>3</sub> <sup>2-</sup> HCO <sub>3</sub> <sup>-</sup> Cl <sup>-</sup> SO <sub>4</sub> <sup>2-</sup> pH |  |
|  | - -   | -  |
|  | GB 36600-2018 1 45<br>+   |  |
|  | A   | A  |

1

GB3095-2012

GB3095-2012

HJ 2.2-2018 D D.1

2

DB 43/023-2005

GB3838-2002

3

GB/T 14848-2017

4

4a

2

5

|  |      |    |   |                     |                |
|--|------|----|---|---------------------|----------------|
|  |      |    |   |                     |                |
|  |      |    |   |                     | GB13271-2014   |
|  | 40   | 25 | / | 2.0                 | DB43/1356-2017 |
|  | /    |    |   | 20mg/m <sup>3</sup> | GB37822—2019   |
|  | 2000 | 15 | / | 20                  | GB14554-93     |

2

GB8978-1996 4

GB/T31962-2015 B

|  | 2.3-2 |     |     |     | pH |    | mg/L |    |
|--|-------|-----|-----|-----|----|----|------|----|
|  | 6~9   | 500 | 300 | 400 | /  | 20 | 100  | 20 |

3

\* % X9 Đ ° GB12348-2008

<

GB18599-2020  
2013

GB18597-2001

SO<sub>2</sub> NO<sub>x</sub>

- HJ 2.2-2018

P<sub>i</sub>

$$P_i = \frac{C_i}{C_{0i}} \times 100\%$$

P<sub>i</sub>—— i %

C<sub>i</sub>—— i 1h  
μg/m<sup>3</sup>

C<sub>0i</sub>—— i μg/m<sup>3</sup>

2.4-1

|  |                         |
|--|-------------------------|
|  |                         |
|  | P <sub>max</sub> 10%    |
|  | 1% P <sub>max</sub> 10% |
|  | P <sub>max</sub> 1%     |

2.4-2

|   |   |         |
|---|---|---------|
|   |   |         |
| / | / |         |
|   |   | 4260000 |
|   |   | 40.6    |
|   |   | -10.3   |
|   |   |         |
|   |   |         |

|  |     |    |
|--|-----|----|
|  |     |    |
|  | /m  | 90 |
|  |     |    |
|  | /km | /  |
|  | /°  | /  |

Pmax D10%



2.4-4

|   |   |                  |
|---|---|------------------|
|   |   |                  |
|   |   | Q 20000 W 600000 |
| A |   | Q 200 W 6000     |
| B |   | —                |
| 1 | B |                  |

B

HJ610-2016 A

“K 71 ”

HJ 610-2016

A III

2.4-5

|  |   |    |     |
|--|---|----|-----|
|  | I | II | III |
|  |   |    |     |
|  |   |    |     |
|  |   |    |     |

HJ 2.4-2009

3

3dB(A) [ 3dB(A)]

HJ964-2018 A

“

” I

399240m<sup>2</sup>

2.4-6

|     | I |  |  | II |  | III |   |   |
|-----|---|--|--|----|--|-----|---|---|
|     |   |  |  |    |  |     |   |   |
|     |   |  |  |    |  |     |   |   |
|     |   |  |  |    |  |     |   | - |
|     |   |  |  |    |  |     | - | - |
| “-” |   |  |  |    |  |     |   |   |

HJ19-2022 6.1

6.1.8 !

a

Q=0.31637 1

I

2.5-1

|   |        |                  |
|---|--------|------------------|
|   |        |                  |
| 1 |        | 5km              |
| 2 | a<br>b |                  |
| 3 |        | 6km <sup>2</sup> |
| 4 |        | 200m             |
| 5 |        | 1km              |
| 6 |        |                  |
| 7 |        | 5km              |

1

2

3

4

5

“ ”

1

2

3

4

5

2.7-1

|   |  |                       |      |
|---|--|-----------------------|------|
|   |  |                       |      |
| 1 |  | 3838-2002 III         | GB   |
| 2 |  | III<br>14848-2017 III | GB/T |
| 3 |  |                       | GB   |

|    |  |                    |
|----|--|--------------------|
|    |  |                    |
|    |  | 3095-2012          |
| 4  |  | 3<br>GB3096-2008 3 |
| 5  |  |                    |
| 6  |  |                    |
| 7  |  |                    |
| 8  |  |                    |
| 9  |  |                    |
| 10 |  |                    |
| 11 |  |                    |
| 12 |  |                    |
| 13 |  |                    |
| 14 |  |                    |

2.8-1

|   |  |                                  |     |  |    |     |
|---|--|----------------------------------|-----|--|----|-----|
|   |  |                                  |     |  |    |     |
| 1 |  | 112.485038<br>E°,28.11222<br>1N° | 20  |  | NE | 425 |
| 2 |  | 112.483477<br>E°,28.10249<br>5N° | 50  |  | SW | 88  |
| 3 |  | 112.475876<br>E°,28.10436<br>1N° | 150 |  | W  | 223 |
| 4 |  | 112.480107<br>E°,28.11025<br>1N° | 250 |  | NW | 130 |
| 5 |  | 112.484698<br>E°,28.10423<br>6N° |     |  | E  | 100 |
| 6 |  | 112.484736<br>E°,28.10391<br>9N° |     |  | SE | 100 |

|   |  |                                  |  |  |    |         |
|---|--|----------------------------------|--|--|----|---------|
|   |  |                                  |  |  |    |         |
| 7 |  | 112.485324<br>E°,28.10386<br>5N° |  |  | SE | 270     |
| 8 |  | 112.484806<br>E°,28.10347<br>9N° |  |  | SE | 100-500 |

2.8-2

|   |                                  |    |   |    |     |
|---|----------------------------------|----|---|----|-----|
| 1 | 112.483477<br>E°,28.10249<br>5N° | 15 | 2 | SW | 88  |
| 2 | 112.480107<br>E°,28.11025<br>1N° | 60 | 2 | NW | 130 |
| 3 | 112.484698<br>E°,28.10423<br>6N° |    | 2 | E  | -   |

S 100m

577256

11610

2.0%

9 56

|  |       |      |   |                      |   |
|--|-------|------|---|----------------------|---|
|  |       | 1    | + | +                    | 5 |
|  |       |      | 1 |                      | 1 |
|  |       |      |   | 3                    |   |
|  |       |      | + |                      |   |
|  |       | 1#   |   | 400m <sup>3</sup> /d |   |
|  |       |      |   | +                    |   |
|  | 2#    |      |   | “                    | + |
|  | +SWRO | +MVR | ” |                      |   |
|  |       | /    |   |                      |   |
|  |       |      |   | 525.59m <sup>2</sup> |   |
|  |       |      |   | 280m <sup>2</sup>    |   |
|  |       |      |   | 405.35m <sup>2</sup> |   |

### 3.3-1

|   |      |                     |      |          |
|---|------|---------------------|------|----------|
| 1 | t    | 181830              | 300  | 3#       |
| 2 | t    | 2424                | 47   | 1#       |
| 3 | t    | 2435                | 47   | 1# 3# 5# |
| 4 | L    | 100000              | 1923 | 1# 3# 5# |
| 5 | L    | 802                 | 5    |          |
| 6 | L    | 12400               | 350  | 300      |
|   |      |                     |      | 50       |
| 7 | L    | 9400                | 125  | 100      |
|   |      |                     |      | 25       |
| 8 | KW·h | 7.3×10 <sup>7</sup> | /    | /        |
| 9 |      |                     |      |          |

|    |  |   |     |      |  |
|----|--|---|-----|------|--|
|    |  |   |     |      |  |
| 17 |  | t | 500 | 10   |  |
| 18 |  | t | 396 | 7.92 |  |

3.3-2

|  |      |
|--|------|
|  |      |
|  | 100% |
|  |      |
|  | 0.1% |

3.3-3

|   |  |      |   |     |    |    |
|---|--|------|---|-----|----|----|
|   |  |      |   |     | 25 |    |
|   |  | -1-  |   | -2- | 10 |    |
|   |  | 2,4- |   |     | 10 |    |
|   |  | 1    | 2 | 2   | 6  | 6- |
|   |  | -4-  |   |     | 10 |    |
| 1 |  |      |   |     | 10 |    |
|   |  | -1   | 2 | 2   | 6  | 6- |
|   |  | -4-  |   |     | 1  |    |
|   |  |      |   |     | 1  |    |
|   |  |      |   |     | 23 |    |
|   |  |      |   |     | 10 |    |
|   |  |      |   |     | 25 |    |
|   |  | 2,4- |   |     | 10 |    |
|   |  | -2-  |   | -   | 10 |    |
|   |  | 1    | 2 | 2   | 6  | 6- |
|   |  | -4-  |   |     | 1  |    |
| 2 |  |      |   |     | 1  |    |
|   |  | -1   | 2 | 2   | 6  | 6- |
|   |  | -4-  |   |     | 1  |    |
|   |  |      |   |     | 20 |    |
|   |  |      |   |     | 48 |    |

|                               |    |
|-------------------------------|----|
| derivatives                   | 9  |
|                               | 10 |
| -[3-[3-(2H-benzotriazol-2-yl) | 8  |
| derivatives                   |    |
| 1 2 2 6 6-                    | 6  |
| -4-                           | 7  |
| -1 2 2 6 6-                   |    |

3.4-1

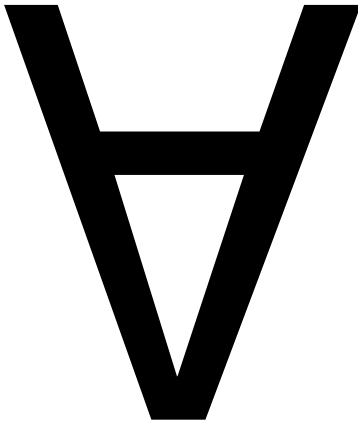
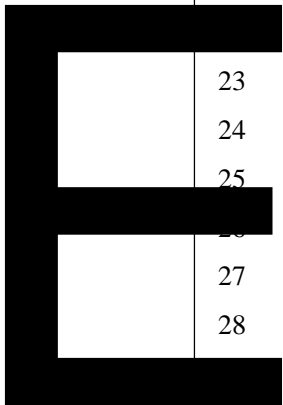
|   |  |  |       |
|---|--|--|-------|
|   |  |  |       |
|   |  |  |       |
| 1 |  |  | 13467 |
| 2 |  |  | 910   |
| 3 |  |  | 55    |
|   |  |  |       |
| 1 |  |  | 720   |
|   |  |  |       |
| 1 |  |  | 4000  |
|   |  |  | 19152 |

3.5-1


|    |      |       |                    |   |    |
|----|------|-------|--------------------|---|----|
|    |      |       |                    |   |    |
|    |      |       |                    |   |    |
|    |      |       |                    |   |    |
| 1  |      | 12kW  | 4m×32m             | / | 7  |
| 2  |      |       | 12mm×3000m         | / | 2  |
| 3  |      |       | 400-2050mm         | / | 7  |
| 4  |      |       | 1000-4000mm        | / | 2  |
| 5  |      | 1200t | 2000t 2500t<br>14m | / | 5  |
| 6  |      |       | 13m                | / | 2  |
| 7  |      |       |                    | / | 2  |
| 8  |      |       |                    | / | 2  |
| 9  |      |       |                    | / | 11 |
| 10 |      |       |                    | / | 2  |
| 11 |      |       | KRII500A           | / | 28 |
| 12 |      |       |                    | / | 2  |
| 13 |      |       |                    | / | 1  |
| 14 | RGV+ |       |                    | / | 4  |

|    |              |   |    |
|----|--------------|---|----|
| 15 |              | / | 1  |
| 16 |              | / | 7  |
| 17 | Gn=25t       | / | 2  |
| 18 | Gn=10t       | / | 12 |
| 19 | Gn=10t S=22. |   |    |

|    |     |        |   |    |
|----|-----|--------|---|----|
| 7  |     |        | / | 3  |
| 8  |     |        | / | 9  |
| 9  |     |        | / | 3  |
| 10 |     |        | / | 3  |
| 11 |     |        | / | 3  |
| 12 |     |        | / | 3  |
| 13 |     |        | / | 3  |
| 14 | RGV |        | / | 3  |
| 15 |     |        | / | 3  |
| 16 |     |        | / | 3  |
| 17 |     |        | / | 3  |
| 18 |     |        | / | 3  |
| 19 |     | 100A   | / | 48 |
| 20 |     |        | / | 3  |
| 21 | KPK | 3t 10t | / |    |
| 22 |     |        | / | 2  |
| 23 |     |        | / | 2  |
| 24 |     |        | / | 2  |
| 25 |     |        | / | 2  |
| 26 |     |        | / | 2  |
| 27 |     |        | / | 3  |
| 28 |     |        | / | 1  |
| 29 |     |        | / | 3  |
| 30 |     |        | / | 1  |
| 31 |     |        | / | 8  |
| 32 |     |        | / | 1  |
| 33 | RGV |        | / | 1  |
| 34 |     |        | / | 1  |
| 35 |     |        | / | 1  |
| 36 |     |        | / | 1  |
| 37 |     |        | / | 1  |
| 38 | KPK | 3t 10t | / |    |
| 39 |     |        | / | 30 |
| 40 |     |        | / | 1  |
| 41 |     |        | / | 1  |



|    |     |        |    |    |
|----|-----|--------|----|----|
| 42 |     |        | /  | 1  |
| 43 |     |        | /  | 1  |
| 44 |     |        | /  | 2  |
| 45 |     |        | /  | 1  |
| 46 |     | CLOOS) | /  | 1  |
| 47 |     |        | /  | 1  |
| 48 |     |        | /  | 2  |
| 49 |     |        | /  | 1  |
| 50 |     |        | /  | 2  |
| 51 |     |        | /  | 2  |
| 52 |     |        | /  | 1  |
| 53 |     |        | /  | 1  |
| 54 |     |        | /  | 3  |
| 55 |     |        | /  | 1  |
| 56 | RGV |        | /  | 1  |
| 57 |     |        | /  | 1  |
| 58 |     |        | /  | 1  |
| 59 |     |        | /  | 1  |
| 60 |     | 3t 10t | /  |    |
| 61 |     | 100A   | /  | 60 |
| 62 |     |        | /  | 7  |
| 63 |     |        | /  | 4  |
| 64 |     |        | /  | 4  |
| 65 |     |        | /  | 2  |
| 66 |     |        | /  | 1  |
| 67 |     |        | /  | 7  |
| 68 |     |        | /7 | 8  |
| 69 |     |        |    |    |

|    |     |   |    |   |    |
|----|-----|---|----|---|----|
| 77 |     |   | /  | 1 |    |
| 78 |     |  | 1t | / | 8  |
| 79 | AGV |   |    | / | 1  |
| 80 |     |   |    | / | 1  |
| 1  |     |   |    | / | 3  |
| 2  |     |   |    | / | 2  |
| 3  |     |   |    | / | 2  |
| 4  |     |   |    | / | 6  |
| 5  |     |   |    | / | 13 |
| 6  |     |   |    | / | 3  |
| 7  |     |   |    | / | 3  |
| 8  |     |   |    | / | 1  |
| 9  |     |   |    | / | 1  |
| 10 |     |   |    | / | 6  |
| 11 |     |   |    | / | 4  |
| 12 |     |   |    | / | 3  |
| 13 |     |   |    |   |    |

|    |     |            |   |    |
|----|-----|------------|---|----|
|    |     |            |   |    |
| 31 |     |            | / | 2  |
| 32 |     |            | / | 2  |
| 33 |     |            | / | 2  |
| 34 |     |            | / | 2  |
|    |     |            |   |    |
| 1  |     |            | / | 2  |
| 2  |     |            | / | 3  |
| 3  |     |            | / | 1  |
| 4  |     |            | / | 2  |
| 5  |     |            | / | 1  |
| 6  |     |            | / | 4  |
| 7  | RGV |            | / | 1  |
| 8  |     |            | / | 1  |
| 9  |     |            | / | 1  |
| 10 |     | 500A       | / | 13 |
| 11 | KPK | 20t 10t 5t | / |    |
| 12 |     |            | / |    |
| 13 |     | 20t        | / | 11 |
| 14 |     |            | / | 1  |
| 15 |     |            | / | 1  |
| 16 |     |            | / | 2  |
| 17 |     |            | / | 1  |
| 18 |     | 20t        | / | 2  |
| 19 |     |            | / | 1  |
| 20 |     | 500A       | / | 6  |
| 21 |     |            | / |    |
| 22 | KPK | 20t 10t 5t | / |    |
| 23 |     |            | / |    |
|    |     |            |   |    |
| 1  |     |            | / | 1  |
| 2  |     |            | / | 2  |
| 3  |     |            | / | 1  |
| 4  |     |            | / | 3  |
| 5  |     |            | / | 1  |
| 6  |     |            | / | 1  |

|    |     |      |   |   |
|----|-----|------|---|---|
| 7  |     |      | / | 3 |
| 8  |     |      | / | 1 |
| 9  |     | 1t   | / | 2 |
| 10 |     |      | / | 2 |
| 11 |     | 500A | / | 6 |
| 12 |     |      | / |   |
| 13 | KPK | 10t  |   |   |



|      |       |            |     |    |
|------|-------|------------|-----|----|
| 13   |       | 20t        |     | 8  |
| 14   |       |            |     | 2  |
| 15   |       |            |     | 3  |
| 16   |       |            | /   | 1  |
| 17   |       |            | /   | 4  |
| 18   |       |            | /   |    |
| 19   |       | 500A       | /   | 14 |
| 20   | KPK Å | 32t 20t 5t | /   |    |
| 21   |       |            | /   |    |
| 22   |       |            | /   | 1  |
| 23   |       |            | /   | 1  |
| 24   |       |            | /   | 1  |
| 25   |       |            | /   | 1  |
| 26   |       |            | /   | 1  |
| 27   |       | 20t        | / ‡ | 1  |
| 28   |       | 500A       | /   | 84 |
| 2-0A |       |            |     |    |

|    |  |                          |   |    |
|----|--|--------------------------|---|----|
|    |  |                          |   |    |
|    |  |                          |   |    |
| 1  |  |                          | / | 2  |
| 2  |  | 6M                       | / | 1  |
| 3  |  |                          | / | 2  |
| 4  |  |                          | / | 1  |
| 5  |  |                          | / | 2  |
| 6  |  |                          | / | 1  |
| 7  |  |                          | / | 1  |
| 8  |  |                          | / | 20 |
| 9  |  |                          | / | 5  |
| 10 |  | Saturn M—190·32·30H2CT2W | / | 1  |
| 11 |  | Z30100                   | / | 2  |
| 12 |  | 8M                       | / | 3  |
| 13 |  | 8M                       | / | 1  |
| 14 |  |                          | / | 1  |
|    |  |                          |   |    |
|    |  |                          |   |    |
| 1  |  |                          | / | 1  |
| 2  |  |                          | / | 1  |
| 3  |  |                          | / | 1  |
| 4  |  |                          | / | 1  |
| 5  |  |                          | / | 1  |
| 6  |  |                          | / | 1  |
| 7  |  |                          | / | 1  |
| 8  |  |                          | / | 1  |
| 9  |  |                          | / | 1  |
| 10 |  |                          | / | 1  |
| 11 |  |                          | / | 1  |
| 12 |  |                          | / | 1  |
| 13 |  |                          | / | 1  |
| 14 |  |                          | / | 1  |
| 15 |  |                          | / | 1  |
| 16 |  |                          | / | 1  |
| 17 |  |                          | / | 1  |
| 18 |  |                          | / | 1  |

|    |   |   |
|----|---|---|
| 19 | / | 1 |
| 20 | / | 1 |
| 21 | / | 2 |
| 22 | / | 1 |



|    |   |   |
|----|---|---|
| 5  | / | 1 |
| 6  | / | 1 |
| 7  | / | 1 |
| 8  | / | 1 |
| 9  | / | 1 |
| 10 | / | 1 |
| 11 | / | 1 |
| 12 |   |   |

1  
2  
3  
4

/ 1  
/ 1  
/ 1

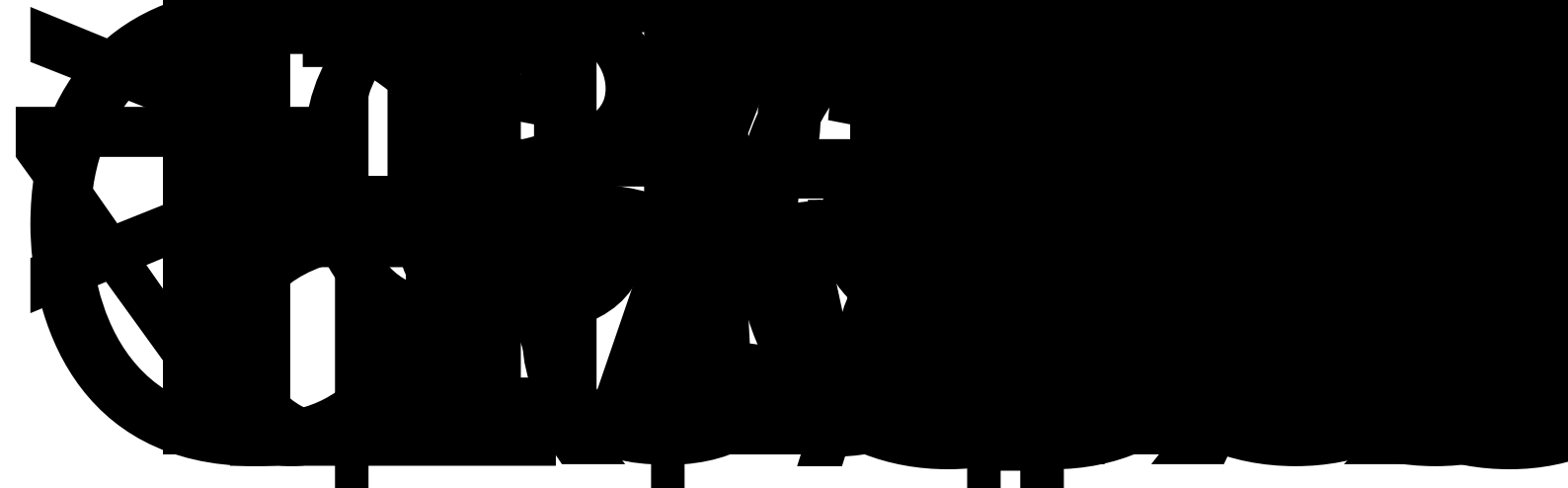
|    |     |                               |   |    |
|----|-----|-------------------------------|---|----|
|    |     |                               |   |    |
| 5  |     | ZY-G10W                       | / | 1  |
| 6  | KBK | S=6m Gn=300kg                 | / | 10 |
| 7  |     | 3m<br>2m 300kg                | / | 8  |
| 8  |     | 200-1000N.m                   | / | 40 |
| 9  |     | -                             |   |    |
|    |     |                               |   |    |
| 1  |     | 240000mm*5100mm*3000mm<br>* * | / | 1  |
| 2  |     | 5m<br>8t+8t                   | / | 1  |
| 3  |     | S=16m Gn=10+10t               | / | 1  |
| 4  |     | 2t 1.5m                       | / | 1  |
| 5  |     | 10m<br>16m*3m*1.8m *<br>*     | / | 4  |
| 6  | KBK | 5.5m<br>500kg                 | / | 4  |
| 7  |     | 3m 300kg                      | / | 4  |
| 8  |     | 200-1000N.m                   | / | 20 |
| 9  |     |                               | / | 1  |
| 10 |     | 4000m <sup>3</sup> /h 3KW     | / | 1  |
| 11 |     | -                             | / | 1  |
| 12 |     | -                             |   |    |
| 13 |     |                               | / | 1  |
| 14 |     |                               | / | 1  |
| 15 |     |                               | / | 1  |
| 16 |     |                               | / | 1  |
| 17 |     |                               | / | 2  |
| 18 |     |                               | / | 1  |
| 19 |     |                               | / | 1  |
| 20 |     |                               | / | 1  |
| 21 |     |                               | / | 1  |

|    |     |                                |   |    |
|----|-----|--------------------------------|---|----|
|    |     |                                |   |    |
| 22 |     |                                | / | 1  |
| 23 |     |                                | / | 1  |
| 24 |     |                                | / | 1  |
| 25 |     |                                | / | 3  |
| 26 |     |                                | / | 2  |
| 27 | EMS |                                | / | 3  |
| 28 |     |                                | / | 8  |
| 29 |     |                                | / | 1  |
| 30 |     |                                | / | 1  |
| 31 |     |                                | / | 1  |
| 32 | AGV |                                | / | 2  |
| 33 | KBK |                                | / | 20 |
| 34 |     |                                | / | 6  |
| 35 |     |                                | / | 1  |
| 36 |     |                                | / | 1  |
| 37 |     | Gn=10t S=22.5m                 | / | 4  |
| 38 |     |                                | / | 20 |
|    |     |                                |   |    |
| 1  |     | 15 L=80m                       | / | 1  |
| 2  |     | 4000mm*2000mm*1500mm<br>* * 5T | / | 2  |
| 3  |     | 3m<br>2m 300kg                 | / | 4  |
| 4  |     | 200-1000N.m                    | / | 3  |
| 5  |     | +<br>100kg                     | / | 1  |
| 6  |     | + :<br>300KG                   | / | 1  |
| 7  |     | 15-36N.m                       | / | 2  |
| 8  |     |                                | / | 1  |
| 9  |     |                                | / | 1  |
| 10 |     | SR-G100                        | / | 1  |
| 11 |     | 200-1000N.m                    | / | 16 |
| 12 | KBK | 5.5m                           | / | 8  |

|    |       |       |   |   |
|----|-------|-------|---|---|
|    |       | 500kg |   |   |
| 13 | Gn=5t |       | / | 1 |
| 14 |       |       |   |   |
| 15 |       |       |   |   |

|   |   |    |
|---|---|----|
| 8 | / | 30 |
| 9 |   |    |
| 1 | / | 1  |
| 2 | / | 1  |
| 3 | / | 1  |
| 4 |   |    |

|    |     |                   |   |    |
|----|-----|-------------------|---|----|
|    |     |                   |   |    |
|    |     | L=1000kg          |   |    |
| 3  |     | L=100<br>3500kg   | / | 1  |
| 4  |     | L=100<br>3500kg   | / | 1  |
| 5  |     | L=154M<br>3500kg  | / | 1  |
| 6  |     | L=240<br>4500kg   | / | 1  |
| 7  |     | L=110m<br>12000kg | / | 1  |
| 8  |     | 10-50             | / | 20 |
| 9  | AGV | 1-2t              | / | 40 |
| 10 |     | 3-8t              | / | 6  |
| 11 |     | 5t                | / | 10 |
| 12 |     |                   |   |    |
| 13 |     |                   |   |    |
| 14 |     |                   |   |    |
|    |     |                   |   |    |
| 1  |     | 10-50             |   |    |
| 2  | AGV | 1-10t             |   |    |
| 3  |     | 3-8t              |   |    |
| 4  |     | 5t                |   |    |
| 5  |     | 20t               |   |    |
| 6  |     |                   |   |    |
| 7  |     |                   |   |    |



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**B**

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3# 5#

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1#

3#

5#

1

2

1#

3#

6#

7#

1

2

40 -50

2

6

3

2

3 Si-OR

Si-OH

Me-OH

Si-OH

Me-OH

Si-O-Me

SiOH

+MeOH

=SiOMe

+H<sub>2</sub>O

Si-OH

Si-O-Si

4

3min

28±2

UF

UF

UF

UF1

3

1

UF2

UF

1

5

6

7

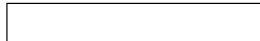
2#

6#

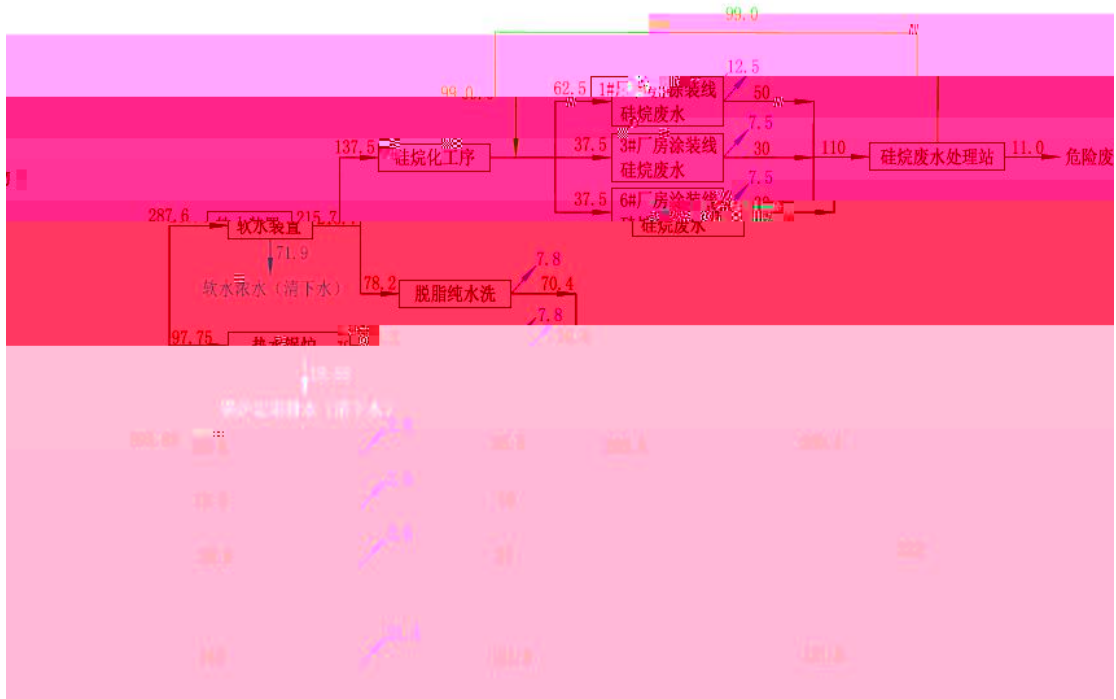


4.2-1

|   |     |  |                                 |
|---|-----|--|---------------------------------|
|   | G1  |  |                                 |
|   | G2  |  |                                 |
|   | G3  |  |                                 |
|   | G4  |  | VOCs                            |
|   | G5  |  | VOCs                            |
| G | G6  |  | VOCs                            |
|   | G7  |  |                                 |
|   | G8  |  | VOCs                            |
|   | G9  |  | VOCs                            |
|   | G10 |  | SO <sub>2</sub> NO <sub>x</sub> |
|   | W1  |  | COD <sub>cr</sub> SS            |
|   | W2  |  | COD <sub>cr</sub> SS            |
| W | W3  |  |                                 |



|  |     |  |  |  |
|--|-----|--|--|--|
|  |     |  |  |  |
|  | S14 |  |  |  |



4.3-1

m<sup>3</sup>/d



4.3-2

t/a

CO THC NOx

CO 5.25g/ ·km THC 20.8g/ ·km NOx 10.44g/ ·km

0Ag

Y b" @ · @ @ a " @ B @ ;

4.4-1

|  |     |
|--|-----|
|  |     |
|  | 86  |
|  | 84  |
|  | 110 |
|  | 88  |
|  | 88  |
|  | 87  |
|  | 85  |

4.4-2

|  |  |  |                   |
|--|--|--|-------------------|
|  |  |  |                   |
|  |  |  | 90<br>80 85<br>75 |

1

2

1

2

1

1

2021

24 “35

”

2.19kg/t

6

1#

3#

6#

7#

6

+

90%

+

95%

1#

DA001

1#

93579t/a

3760h

204.94t/a

86000m<sup>3</sup>/h

1#

9.22t/a

2.45kg/h

28.52mg/m<sup>3</sup>

20.49t/a

5.45kg/h

1#

DA004

1#

11415t/a

3760h

25t/a

34000m<sup>3</sup>/h

1#

1.12t/a

0.30kg/h

8.80mg/m<sup>3</sup>

2.50t/a

0.66kg/h

3#

DA006 DA007

|                         |          |                        |
|-------------------------|----------|------------------------|
| 3#                      |          | 68146t/a               |
| 3760h                   |          | 149.24t/a              |
| 146000m <sup>3</sup> /h | 3#       | 6.72t/a                |
| 1.79kg/h                |          | 12.23mg/m <sup>3</sup> |
| 14.92t/a                | 3.97kg/h |                        |

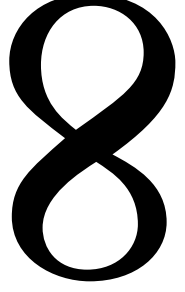
|    |                         |                       | 2021    | 24 | “35     |            |
|----|-------------------------|-----------------------|---------|----|---------|------------|
|    | ”                       |                       |         |    |         | 166kg/t    |
|    | 7                       |                       | 1#      | 1  | 6#      | 1          |
| 7# | 5                       |                       |         |    |         |            |
|    | 1#                      | DA002                 |         |    |         |            |
|    | 1#                      | 15t/a                 | 3760h   |    |         | 1#         |
|    |                         | 2.49t/a 1#            |         |    |         |            |
|    | 90%                     |                       | 90%     |    |         |            |
|    | 57000m <sup>3</sup> /h  |                       | 0.22t/a |    |         | 0.06kg/h   |
|    |                         | 1.05mg/m <sup>3</sup> |         |    | 0.25t/a |            |
|    | 0.07kg/h                |                       |         |    |         |            |
|    | 6#                      | DA011                 |         |    |         |            |
|    | 6#                      | 15t/a                 | 3760h   |    |         | 6#         |
|    |                         | 2.49t/a 6#            |         |    |         |            |
|    | 90%                     |                       | 90%     |    |         |            |
|    | 72000m <sup>3</sup> /h  |                       | 0.22t/a |    |         | 0.06kg/h   |
|    |                         | 0.83mg/m <sup>3</sup> |         |    | 0.25t/a |            |
|    | 0.07kg/h                |                       |         |    |         |            |
|    | 7#                      | DA012 DA013           |         |    |         |            |
|    | 7#                      | 2                     |         |    | 15t/a   |            |
|    | 3760h                   | 7#                    |         |    |         |            |
|    | 2.49t/a 7#              |                       |         |    |         |            |
|    | 90%                     |                       | 95%     |    |         |            |
|    | 120000m <sup>3</sup> /h |                       | 0.11t/a |    |         | 0.03kg/h   |
|    |                         | 0.25mg/m <sup>3</sup> |         |    | 0.25t/a |            |
|    | 0.07kg/h                |                       |         |    |         |            |
|    | 7#                      | DA014 DA015           |         |    |         |            |
|    | 7#                      | 2                     |         |    | 2t/a    |            |
|    | 3760h                   | 7#                    |         |    |         | 0.33t/a 7# |

90%

95%

140000m<sup>3</sup>/h

|                       |   |          |   |                         |
|-----------------------|---|----------|---|-------------------------|
| 1#                    |   | 3#       |   | 6#                      |
| 1#                    |   | DA003    |   |                         |
| 1#                    |   |          |   |                         |
| 1#                    |   | 560t/a   |   | 3760h                   |
| 1#                    |   | 84.0t/a  |   | 123.20t/a 1#            |
| “                     | + | +        | ” |                         |
| 90%                   |   | 98%      |   | +                       |
| 87.7%                 |   |          |   | 480000m <sup>3</sup> /h |
|                       |   | 9.30t/a  |   | 2.47kg/h                |
| 5.15mg/m <sup>3</sup> |   |          |   | 8.40t/a                 |
| 2.23kg/h              |   |          |   |                         |
|                       |   | 2.22t/a  |   | 0.59kg/h                |
| 1.23mg/m <sup>3</sup> |   | 12.32t/a |   | 3.28kg/h                |
| 3#                    |   | DA008    |   |                         |
| 3#                    |   |          |   |                         |
| 3#                    |   | 460t/a   |   | 3760h                   |
| 3#                    |   | 69.0t/a  |   | 101.20t/a 3#            |
| “                     | + | +        | ” |                         |
| 90%                   |   | 98%      |   | +                       |
| 87.7%                 |   |          |   | 550000m <sup>3</sup> /h |
|                       |   | 7.64t/a  |   | 2.03kg/h                |
| 3.69mg/m <sup>3</sup> |   |          |   | 6.90t/a                 |
| 1.83kg/h              |   |          |   |                         |
|                       |   | 1.82t/a  |   | 0.48kg/h                |
| 0.88mg/m <sup>3</sup> |   | 10.12t/a |   | 2.69kg/h                |
| 6#                    |   | DA010    |   |                         |
| 6#                    |   |          |   |                         |
| 6#                    |   | 360t/a   |   | 3760h                   |
| 6#                    |   | 54t/a    |   | 79.20t/a 6#             |
| “                     | + | +        | ” |                         |



90%  
87.7%  
  
1.87mg/m

98%  
  
5.98t/a

+  
850000m<sup>3</sup>/h  
1.59kg/h

|  |      |       |    |      |  |      |      |      |
|--|------|-------|----|------|--|------|------|------|
|  |      |       |    |      |  |      |      |      |
|  | NMHC | DA005 | 20 | 0.60 |  | 7.18 | 0.02 | 0.08 |
|  |      |       |    |      |  | /    | 0.02 | 0.06 |

5  
 2  
 7#  
 2021  
 24 “35”  
 289kg/t  
 72.2kg/t  
 220kg/t  
 1,2,4-MSDS  
 150t/a  
 3760h  
 54.18t/a  
 3.54t/a  
 33.0t/a  
 90t/a  
 3760h  
 32.51t/a  
 2.12t/a  
 19.80t/a  
 “  
 + + ” 90% 98%  
 + 87.7%  
 380000m<sup>3</sup>/h  
 DA016  
 6.0t/a  
 1.60kg/h  
 4.20mg/m<sup>3</sup>

0.4

5.27kg/h

4.4-7

1.98t/a

0.58kg/h



1# 3# 6#

2021

24 1 Nm<sup>3</sup>  
 13.63 Nm<sup>3</sup> NOx18.71kg SO<sub>2</sub>0.02×Skg  
 200mg/m<sup>3</sup> S=200 2.4kg  
 1# 575000Nm<sup>3</sup>/a  
 5000m<sup>3</sup>/h NOx0.54t/a 0.14kg/h 28.61mg/m<sup>3</sup> SO<sub>2</sub>0.23t/a  
 0.06kg/h 12.23mg/m<sup>3</sup> 0.14t/a 0.04kg/h 7.34mg/m<sup>3</sup> 20m

3# 410000Nm<sup>3</sup>/a 3500m<sup>3</sup>/h  
 NOx0.38t/a 0.10kg/h 29.15mg/m<sup>3</sup> SO<sub>2</sub>0.16t/a 0.04kg/h  
 12.46mg/m<sup>3</sup> 0.10t/a 0.03kg/h 7.48mg/m<sup>3</sup> 20m

6# 380000Nm<sup>3</sup>/a 5000m<sup>3</sup>/h  
 NOx0.36t/a 0.09kg/h 18.91mg/m<sup>3</sup> SO<sub>2</sub>0.15t/a 0.04kg/h  
 8.09mg/m<sup>3</sup> 0.09t/a 0.02kg/h 4.85mg/m<sup>3</sup> 20m

4.4-8

|    |                 |       |    |      |       |      |      |
|----|-----------------|-------|----|------|-------|------|------|
| 1# | NOx             | DA020 | 20 | 1.08 | 28.61 | 0.14 | 0.54 |
|    |                 |       |    | /    | /     | /    |      |
|    | SO <sub>2</sub> |       |    | 0.23 | 12.23 | 0.06 | 0.23 |
|    |                 |       |    | 0.14 | 7.34  | 0.04 | 0.14 |
|    |                 |       |    |      | /     | /    | /    |
| 3# | NOx             | DA021 | 20 | 0.77 | 29.15 | 0.10 | 0.38 |
|    |                 |       |    | /    | /     | /    |      |
|    | SO <sub>2</sub> |       |    | 0.16 | 12.46 | 0.04 | 0.16 |
|    |                 |       |    | 0.10 | 7.48  | 0.03 | 0.10 |
|    |                 |       |    |      | /     | /    | /    |
| 6# | NOx             | DA022 | 20 | 0.71 | 18.91 | 0.09 | 0.36 |
|    |                 |       |    | /    | /     | /    |      |
|    | SO <sub>2</sub> |       |    | 0.15 | 8.09  | 0.04 | 0.15 |
|    |                 |       |    | 0.09 | 4.85  | 0.02 | 0.09 |
|    |                 |       |    |      | /     | /    | /    |

2

1

“35

”

9.19kg/t

2435t/a

# Miles

4.1-9

|                  |                 |        |    |   |      |        |       |             |      |       |      |
|------------------|-----------------|--------|----|---|------|--------|-------|-------------|------|-------|------|
| DA001            |                 | 204.94 | 90 | + | 95   | 86000  | 28.52 | 2.45        | 9.22 | 20.49 | 5.45 |
| DA002            |                 | 2.49   | 90 |   | 90   | 57000  | 1.05  | 0.06        | 0.22 | 0.25  | 0.07 |
| <del>DA003</del> | <del>NMHC</del> | 84.0   | 90 |   | 87.7 | 480000 | 5.15  | 2.47        | 9.30 | 8.40  | 2.23 |
|                  |                 | 123.20 | 90 |   | 98   |        | 1.23  | <b>0.62</b> | 2.22 | 12.32 | 3.28 |
| DA004            |                 | 25.0   | 90 | + | 95   | 34000  | 8.80  | <b>0.70</b> | 1.12 | 2.50  | 0.66 |
| DA005            | NMHC            | 0.60   | 90 |   |      |        |       |             |      |       |      |

| DA010          |    | NMHC | 54.0  | 90  | + | 87.7 | 850000 | 1.87  | 1.59  | 5.98 | 5.40 | 1.44  |
|----------------|----|------|-------|-----|---|------|--------|-------|-------|------|------|-------|
|                |    |      | 79.20 | 90  |   | 98   |        | 0.45  | 0.38  | 1.43 | 7.92 | 2.11  |
| DA011          |    |      | 2.49  | 90  |   | 90   | 72000  | 0.83  | 0.06  | 0.22 | 0.24 | 0.07  |
| DA012<br>DA013 |    |      | 2.49  | 90  |   | 95   | 120000 | 0.25  | 0.03  | 0.11 | 0.25 | 0.07  |
| DA014<br>DA015 |    |      | 0.33  | 90  |   | 95   | 140000 | 0.03  | 0.004 | 0.01 | 0.03 | 0.009 |
| DA016          |    | NMHC | 54.18 | 90  | + | 87.7 | 380000 | 4.20  | 1.60  | 6.00 | 5.42 | 1.44  |
|                |    |      | 3.54  |     |   |      |        | 0.27  | 0.10  | 0.39 | 0.35 | 0.09  |
|                |    |      | 33.0  |     |   |      |        | 0.42  | 0.16  | 0.59 | 3.30 | 0.88  |
| DA017          |    | NMHC | 32.51 | 90  | + | 87.7 | 380000 | 2.52  | 0.96  | 3.60 | 3.25 | 0.86  |
|                |    |      | 2.12  |     |   |      |        | 0.16  | 0.06  | 0.24 | 0.21 | 0.06  |
|                |    |      | 19.80 |     |   |      |        | 0.25  | 0.09  | 0.36 | 1.98 | 0.53  |
| DA018          |    |      | 1.41  | 90  | + | 95   | :      | 0.22  | 0.02  | 0.06 | 0.14 | 0.04  |
| DA019          |    |      | 6.64  | 90  | + | 98   | 107000 | 0.30  | 0.03  | 0.12 | 0.66 | 0.18  |
| DA020          | 1# | NOx  | 1.08  | 100 |   | 50   | 5000   | 28.61 | 0.14  | 0.54 | /    | /     |

|       |    | SO <sub>2</sub> | 0.23 | 100 |  | 0  | 5000 | 12.23 | 0.06 | 0.23 | / | / |
|-------|----|-----------------|------|-----|--|----|------|-------|------|------|---|---|
|       |    |                 | 0.14 | 100 |  | 0  | 5000 | 7.34  | 0.04 | 0.14 | / | / |
| DA021 | 3# | NO <sub>x</sub> | 0.77 | 100 |  | 50 | 3500 | 29.15 | 0.10 | 0.38 | / | / |
|       |    | SO <sub>2</sub> | 0.16 | 100 |  | 0  | 3500 | 12.46 | 0.04 | 0.16 | / | / |
|       |    |                 | 0.10 | 100 |  | 0  | 3500 | 7.48  | 0.03 | 0.10 | / | / |
| DA022 | 6# | NO <sub>x</sub> | 0.71 | 100 |  | 50 | 5000 | 18.91 | 0.09 | 0.36 | / | / |
|       |    | SO <sub>2</sub> | 0.15 | 100 |  | 0  | 5000 | 8.09  | 0.04 | 0.15 | / | / |
|       |    |                 | 0.09 | 100 |  | 0  | 5000 | 4.85  | 0.02 | 0.09 | / | / |

# BOGOTA

8.8m  
1# 3# 6#  
3  
140.8m<sup>3</sup>/d

8

E18

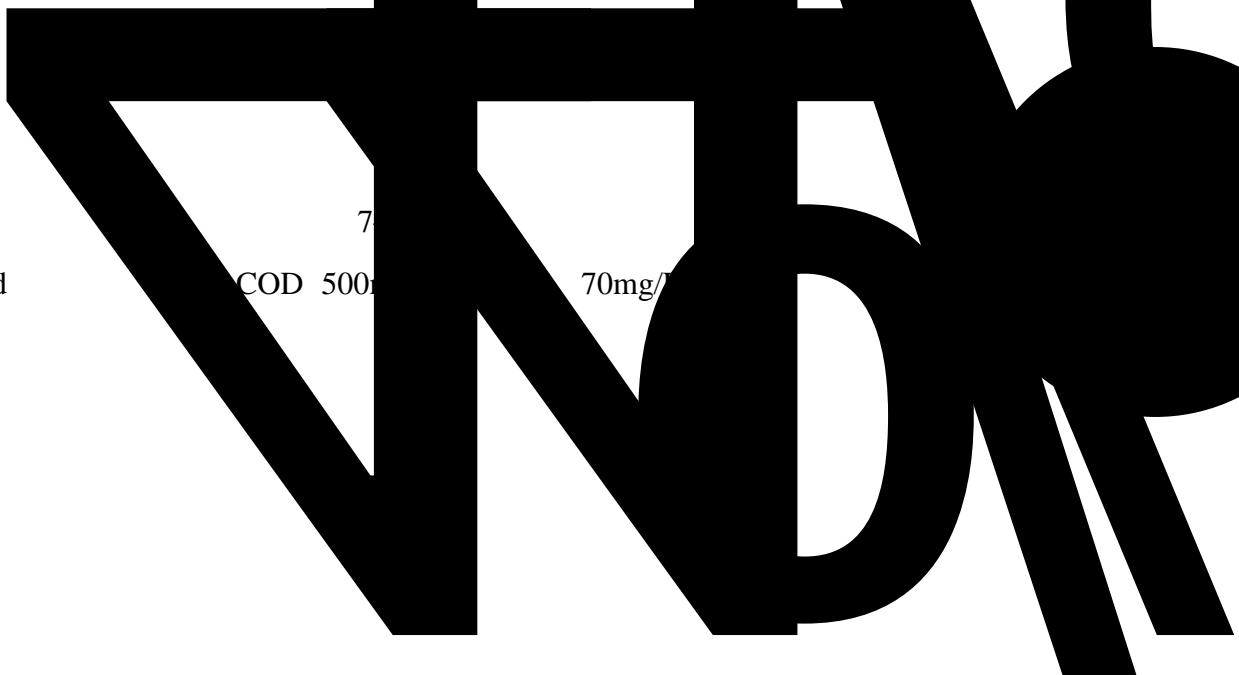
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25.6m<sup>3</sup>/d

COD 500

70mg/l

800

1000

$Q$  — (L/s)  
 — =0.85~0.95  
 $F$  — (ha)  
 48448m<sup>2</sup>                      15min  
 1096m<sup>3</sup>                              SS30mg/L                      50mg/L

4.4-2

|  |                    |      | —                    | 33088 |
|--|--------------------|------|----------------------|-------|
|  | CODcr              | 750  | 24.82                |       |
|  | SS                 | 200  | 6.62                 |       |
|  |                    | 500  | 16.54                |       |
|  |                    | —    | 25850                |       |
|  | CODcr              | 700  | 18.10                |       |
|  | SS                 | 400  | 10.34                |       |
|  |                    | 60   | 1.55                 |       |
|  |                    | 60   | 1.55                 |       |
|  |                    | —    | 5640                 |       |
|  | CODcr              | 1000 | 5.64                 |       |
|  | SS                 | 200  | 1.13                 |       |
|  |                    | —    | 6016                 |       |
|  | CODcr              | 500  | 3.00                 |       |
|  |                    | 70   | 0.42                 |       |
|  |                    | —    | 2350                 |       |
|  | CODcr              | 500  | 1.17                 |       |
|  | SS                 | 300  | 0.70                 |       |
|  |                    | 10   | 0.02                 |       |
|  |                    | —    | 28576                |       |
|  | CODcr              | 500  | 14.29                |       |
|  | BOD <sub>5</sub>   | 200  | 5.71                 |       |
|  | SS                 | 300  | 8.57                 |       |
|  | NH <sub>3</sub> -N | 45   | 1.28                 |       |
|  |                    | —    | 1233m <sup>3</sup> / |       |
|  | SS                 | 30   | 0.042t/              |       |

|  |  |  |    |         |
|--|--|--|----|---------|
|  |  |  |    |         |
|  |  |  | 50 | 0.071t/ |

322m<sup>3</sup>/d

+

GB/T31962-2015 B

GB8978-1996

322m<sup>3</sup>/d

4.4-3

|   |      |       |   |       |        |      |        |       |        |
|---|------|-------|---|-------|--------|------|--------|-------|--------|
|   | mg/L | pH    | — | 6-9   | 500    | 200  | 300    | 45    | /      |
|   | t/a  | 28576 | — | 14.29 | 5.71   | 8.57 | 1.28   | /     |        |
| + | mg/L | pH    | — | 6-9   | 425    | 182  | 210    | 43.6  | /      |
|   | t/a  | 28576 | — | 12.14 | 5.20   | 6.00 | 1.24   | /     |        |
|   | mg/L | pH    | — | 6-9   | 735.53 | /    | 179.44 | /     | 360.74 |
|   | t/a  | 47094 | — | 34.64 | /      | 8.45 | /      | 16.99 |        |
|   | mg/L | pH    | — | 6-9   | 294.21 | /    | 53.83  | /     | 108.22 |
|   | t/a  | 47094 | — | 13.86 | /      | 2.54 | /      | 5.10  |        |

4.4-4

dB(A)

|  |  |       |       |
|--|--|-------|-------|
|  |  |       |       |
|  |  | 75~90 | 65~70 |
|  |  | 80~85 | 60~65 |
|  |  | 80~90 | 60~70 |
|  |  | 80~85 | 60~65 |
|  |  | 85~90 | 65~70 |
|  |  | 80~85 | 60~65 |
|  |  | 85~90 | 65~70 |
|  |  | 75~85 | 55~65 |
|  |  | 80~90 | 60~70 |

1

2

3

4

70dB A

4.4-5

t/a

|   |  |  |  |       |
|---|--|--|--|-------|
|   |  |  |  |       |
| 1 |  |  |  | 184.3 |
| 2 |  |  |  | 73    |
| 3 |  |  |  | 3     |
| 4 |  |  |  | 4     |

---

---

|    |      |
|----|------|
| 5  | 77   |
| 6  | 11.5 |
| 7  | 1.0  |
| 8  | 47   |
| 9  | 3    |
| 10 | 2    |
| 11 | 340  |
| 12 | 22   |
| 13 | 1    |
| 14 | 2    |

|  |  |  |  |      |            |     |  |
|--|--|--|--|------|------------|-----|--|
|  |  |  |  |      |            |     |  |
|  |  |  |  | HW08 | 900-249-08 | 3   |  |
|  |  |  |  | HW49 | 900-047-49 | 22  |  |
|  |  |  |  | HW49 | 900-047-49 | 1   |  |
|  |  |  |  | HW49 | 900-047-49 | 2   |  |
|  |  |  |  | /    | /          | 2   |  |
|  |  |  |  | /    | /          | 340 |  |
|  |  |  |  | /    | /          | 893 |  |

1

GB8978-1996

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

26t/a 3.3t/a

GB18918-2002 IV

CODcr30mg/L NH<sub>3</sub>-N1.5mg/L

CODcr NH<sub>3</sub>-N 2.27t/a

0.11t/a

2

SO<sub>2</sub> NO<sub>x</sub> VOCs

SO<sub>2</sub> NO<sub>x</sub> VOCs

0.54t/a 1.28t/a 62.03t/a

4.4-7

|   |                    |       |       |
|---|--------------------|-------|-------|
|   |                    |       |       |
| 1 | COD                | 2.27  | 2.27  |
| 2 | NH <sub>3</sub> -N | 0.11  | 0.11  |
| 3 | SO <sub>2</sub>    | 0.54  | 0.54  |
| 4 | NO <sub>x</sub>    | 1.28  | 1.28  |
| 5 | VOCs               | 62.03 | 62.03 |

CODCr 2.27t/a

0.11t/a SO<sub>2</sub>

0.54t/a NOx 1.28t/a

VOCs

62.03t/a

“ ”

319

112.482105°E 28.105557°N

1

1607.9

200

30-80

23.5

100

300.8

30

100.0m

46.5m

53.5m

60- 90m

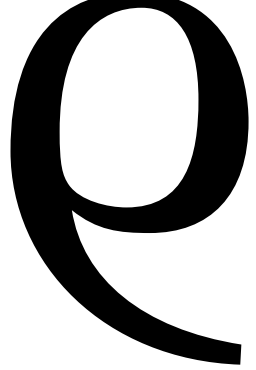
30m

20%

600







2021 1 1 ~2021 12 31  
2021 1 ~12

| 5.2-1 2021        |    |    | $\mu\text{g}/\text{m}^3$ |      |
|-------------------|----|----|--------------------------|------|
| PM <sub>10</sub>  |    |    | 52                       | 70   |
| PM <sub>2.5</sub> |    |    | 43                       | 35   |
| NO <sub>2</sub>   |    |    | 29                       | 40   |
| SO <sub>2</sub>   |    |    | 7                        | 60   |
| CO                | 95 |    | 992                      | 4000 |
| O <sub>3</sub>    | 90 | 8h | 126                      | 160  |

2mg/m<sup>3</sup>

5.2-3 mg/m<sup>3</sup>

|    |      |           |   |     |  |
|----|------|-----------|---|-----|--|
|    |      |           |   |     |  |
| G1 |      | ND        | 0 | 0.2 |  |
|    | NMHC | 0.69-0.82 | 0 | 2.0 |  |

2mg/m<sup>3</sup>

“2021 1 ~12 ” “2021 1 ~12 ”

2021 1-12

III

1 W1 W2  
 2 pH COD  
 3 2020 3 21  
 4 GB3838-2002 III  
 5

5.2-3 mg/L pH

|    |           |      |     |   |       |      |
|----|-----------|------|-----|---|-------|------|
|    |           |      |     |   |       |      |
| W1 | 2020.3.21 | 7.63 | 6.1 | 7 | 0.437 | 0.14 |



GB/T14848-2017 III

S 5.2-5

mg/L pH

D1

|  |   |         |           |       |     |        |           |      |       |      |     |       |
|--|---|---------|-----------|-------|-----|--------|-----------|------|-------|------|-----|-------|
|  |   |         |           |       |     |        |           |      |       |      |     |       |
|  |   |         |           |       |     |        |           |      |       |      |     |       |
|  |   | 0.006L  | 0.21-0.23 | 88-90 | 1.5 | 0.018L | 0.7-0.706 | ND   | ND    | ND   | 2   | 30-40 |
|  | % | 0       | 0         | 0     | 0   | 0      | 0         | 0    | 0     | 0    | 0   | 0     |
|  |   |         |           |       |     |        |           |      |       |      |     |       |
|  |   | pH      |           |       |     |        |           |      |       |      |     |       |
|  |   | 6.5-8.5 | 0.50      | 20    | 1.0 | 0.002  | 0.05      | 0.01 | 0.001 | 0.05 | 450 | 0.01  |
|  |   |         |           |       |     |        |           |      |       |      |     |       |
|  |   | 1.0     | 0.3       | 1000  | 3.0 | 250    | 250       | 0.50 | 3.0   | 100  |     |       |

(sed

2022 6 6 ~2022 6 12

6

5.2-6

|    |        |              |             |
|----|--------|--------------|-------------|
| T1 |        | 112.481151°E | 28.110586°N |
| T2 | 2 j? x | 118.88328°E  | 28.104678°N |
| T3 |        |              |             |

T1~T3 T5 T4

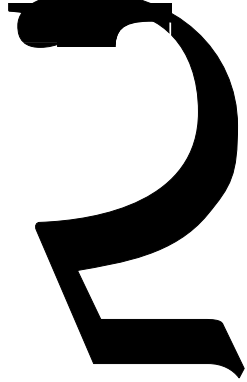
GB36600-2018 1

T6

GB15618-2018 1

5.2-7

mg/kg



| mg/kg |        |            |       |       |       |    |     |     |     |  |
|-------|--------|------------|-------|-------|-------|----|-----|-----|-----|--|
| 12.2  | 0.52   | ND         | 24    | 35    | 0.138 | 20 | ND  | ND  | 0   |  |
| 60    | 65     | 2.7        | 18000 | 800   | 8     | 38 | 900 | 2.8 | 0.9 |  |
| ND    | ND 6.5 | ND (, DDm" | ND    | D 8 7 |       |    |     |     |     |  |

T4 a€" Å, ñ2 ~† P d!3%

0-0.2m

2022 6 6 ~2022 6 12

4

3

5.2-8

|    |    |              |             |  |
|----|----|--------------|-------------|--|
|    |    |              |             |  |
| N1 | 1m | 112.484281°E | 28.105376°N |  |
| N2 | 1m | 112.483721°E | 28.102722°N |  |
| N3 | 1m | 112.480620°E | 28.104493°N |  |
| N4 | 1m | 112.482416°E | 28.111123°N |  |

LAeq

1

GB3096-2008 2 4a

# 环境预测

|     |                    |                 |                       |      |
|-----|--------------------|-----------------|-----------------------|------|
|     |                    |                 |                       | 100m |
| 1m  | 3mg/m <sup>3</sup> | 25m             | 1.53mg/m <sup>3</sup> | 60m  |
| TSP |                    |                 |                       |      |
| 4~5 | 70%                |                 |                       |      |
|     | SO <sub>2</sub>    | NO <sub>2</sub> | CO                    |      |



$$L(r) = L(r_0) - 20 \lg(r/r_0)$$

$L(r) = L(r_0) - 20 \lg(r/r_0)$   
 dB(A)

HJ2.4-2009

Aatm

Agr

6.1-2

dB A

| m | 10   | 20   | 40   | 60   | 80   | 100  | 150  | 200  | 250  | 300  | 350  | 520  |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
|   | 82   | 75.9 | 69.8 | 62.3 | 59.1 | 56.6 | 52.0 | -    | -    | -    | -    | -    |
|   | 88   | 81.9 | 75.8 | 68.3 | 65.1 | 62.6 | 58.0 | 54.7 | -    | -    | -    | -    |
|   | 82.5 | 76.4 | 70.3 | 62.8 | 59.6 | 57.1 | 52.5 | -    | -    | -    | -    | -    |
|   | 82   | 75.9 | 69.8 | 62.3 | 59.1 | 56.6 | 52.0 | -    | -    | -    | -    | -    |
|   | 100  | 93.9 | 87.8 | 80.3 | 77.1 | 74.6 | 70.0 | 66.7 | 64.0 | 61.8 | 60.0 | 54.9 |
|   | 87   | 80.9 | 74.8 | 67.3 | 64.1 | 61.6 | 57.0 | 53.7 | -    | -    | -    | -    |

60m

( (2015)15 )

2

1

2

pH

3

4

|       |   |      |        |       |       |       |
|-------|---|------|--------|-------|-------|-------|
| DA006 |   |      | 149.24 | 6.72  | 1.79  | 12.23 |
|       |   |      |        | 14.92 | 3.97  | /     |
| DA007 |   |      | 149.24 | 6.72  | 1.79  | 12.23 |
|       |   |      |        | 14.92 | 3.97  | /     |
|       |   | NMHC | 54.00  | 5.98  | 1.59  | 1.87  |
| DA008 |   |      |        | 5.40  | 1.44  | /     |
|       |   |      | 101.20 | 1.82  | 0.48  | 0.88  |
|       |   |      |        | 10.12 | 2.69  | /     |
| DA009 |   |      | 2.78   | 0.12  | 0.03  | 0.19  |
|       |   |      |        | 0.28  | 0.07  | /     |
|       |   | NMHC | 54.00  | 5.98  | 1.59  | 1.87  |
| DA010 |   |      |        | 5.40  | 1.44  | /     |
|       |   |      | 79.20  | 1.43  | 0.38  | 0.45  |
|       |   |      |        | 7.92  | 2.11  | /     |
| DA011 |   |      | 2.49   | 0.22  | 0.06  | 0.08  |
|       |   |      |        | 0.25  | 0.07  | /     |
|       |   |      |        | 0.11  | 0.03  | 0.25  |
| DA012 |   |      | 2.49   | 0.25  | 0.07  | /     |
|       | 1 |      |        | 0.11  | 0.03  | 0.25  |
| DA013 |   |      | 2.49   | 0.25  | 0.07  | /     |
|       | 2 |      |        | 0.25  | 0.07  | /     |
| DA014 |   |      | 0.33   | 0.01  | 0.004 | 0.03  |
|       | 1 |      |        | 0.03  | 0.009 | /     |
| DA015 |   |      | 0.33   | 0.01  | 0.004 | 0.03  |
|       | 2 |      |        | 0.03  | 0.009 | /     |
|       |   | NMHC | 54.18  | 6.00  | 1.60  | 4.20  |
|       |   |      |        | 5.42  | 1.44  | /     |
| DA016 |   |      | 3.54   | 0.39  | 0.10  | 0.27  |
|       |   |      |        | 0.35  | 0.09  | /     |
|       |   |      | 33.00  | 0.59  | 0.16  | 0.42  |
|       |   |      |        | 3.30  | 0.88  | /     |
|       |   | NMHC | 32.51  | 3.60  | 0.96  | 2.52  |
|       |   |      |        | 3.25  |       |       |
| DA017 |   |      |        |       |       |       |

|       |    |                 |  |       |        |      |       |
|-------|----|-----------------|--|-------|--------|------|-------|
|       |    |                 |  |       |        |      |       |
| DA020 | 1# | NOx             |  | 1.08  | 0.54   | 0.14 | 28.61 |
|       |    |                 |  |       | /      | /    | /     |
|       |    | SO <sub>2</sub> |  | 0.23  | 0.23   | 0.06 | 12.23 |
|       |    |                 |  |       | /      | /    | /     |
|       |    |                 |  | 0.14  | 0.14   | 0.04 | 7.34  |
|       |    |                 |  |       | /      | /    | /     |
| DA021 | 3# | NOx             |  | 0.77  | 0.38   | 0.10 | 29.15 |
|       |    |                 |  |       | /      | /    | /     |
|       |    | SO <sub>2</sub> |  | 0.16  | 0.16   | 0.04 | 12.46 |
|       |    |                 |  |       | /      | /    | /     |
|       |    |                 |  | 0.10  | 0.10   | 0.03 | 7.48  |
|       |    |                 |  |       | /      | /    | /     |
| DA022 | 6# | NOx             |  | 0.71  | 0.36   | 0.09 | 18.91 |
|       |    |                 |  |       | /      | /    | /     |
|       |    | SO <sub>2</sub> |  | 0.15  | 0.15   | 0.04 | 8.09  |
|       |    |                 |  |       | /      | /    | /     |
|       |    |                 |  | 0.09  | 0.09   | 0.02 | 4.85  |
|       |    |                 |  |       | /      | /    | /     |
| /     |    |                 |  | 22.38 | /      | /    | /     |
|       |    |                 |  |       | 2.24   | 0.60 | /     |
| /     |    |                 |  | 19.80 | /      | /    | /     |
|       |    |                 |  |       | 0.99   | 0.26 | /     |
|       |    | SO <sub>2</sub> |  |       | 0.54   |      |       |
|       |    | NO <sub>x</sub> |  |       | 1.28   |      |       |
|       |    | NMHC            |  |       | 32.60  |      |       |
|       |    |                 |  |       | 24.69  |      |       |
|       |    |                 |  |       | 0.63   |      |       |
|       |    | SO <sub>2</sub> |  |       | /      |      |       |
|       |    | NO <sub>x</sub> |  |       | /      |      |       |
|       |    | NMHC            |  |       | 29.43  |      |       |
|       |    |                 |  |       | 78.65  |      |       |
|       |    |                 |  |       | 0.56   |      |       |
|       |    | SO <sub>2</sub> |  |       | 0.54   |      |       |
|       |    | NO <sub>x</sub> |  |       | 1.28   |      |       |
|       |    | NMHC            |  |       | 62.03  |      |       |
|       |    |                 |  |       | 103.34 |      |       |
|       |    |                 |  |       | 1.19   |      |       |

HJ 2.2-2018





0.30~7.50m

(Qd1)

95%

0.80~5.40m

(Qal)

~

95%

0.90~9.10m

(Qal)

~

80mm

2~20mm

0.80~7.20m

(Qel)

~

95%

0.60-8.60m

(K)

RQD

30~45

V

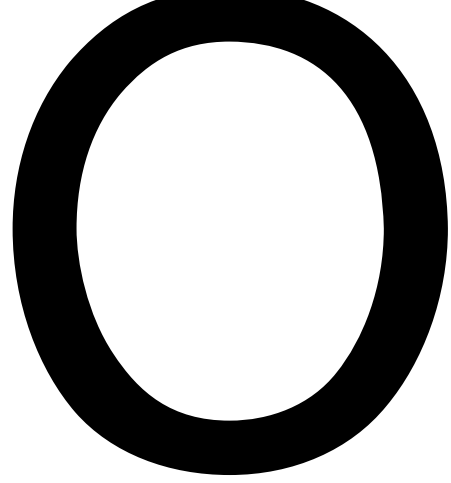
5.9m

“ + ”

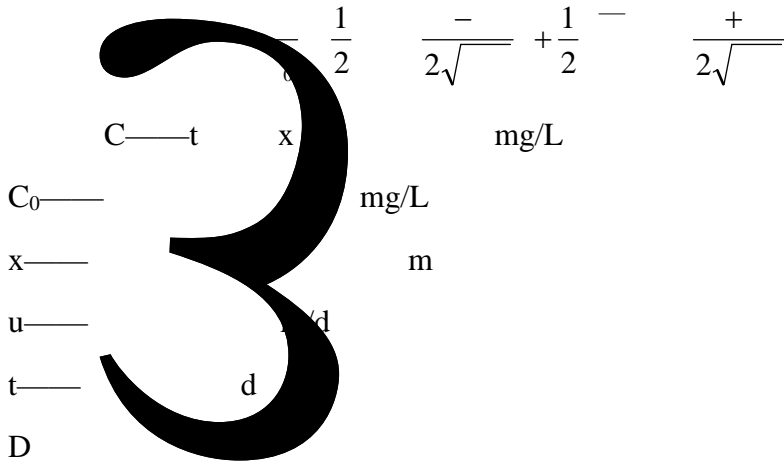
2

6.2-2

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |



1



**INVESTIGATION**

6.2

a)

G



|      |        |      |       |      |       |
|------|--------|------|-------|------|-------|
| 50   | 0.00   | 100  | 0.00  | 200  | 0.00  |
| 100  | 0.00   | 200  | 0.00  | 400  | 0.00  |
| 150  | 0.03   | 300  | 0.00  | 600  | 0.00  |
| 200  | 0.23   | 400  | 0.00  | 800  | 0.00  |
| 300  | 2.19   | 500  | 0.00  | 1000 | 0.00  |
| 400  | 6.99   | 600  | 0.03  | 1600 | 0.02  |
| 500  | 14.30  | 700  | 0.10  | 2000 | 0.11  |
| 600  | 23.20  | 800  | 0.26  | 2600 | 0.64  |
| 700  | 33.10  | 900  | 0.54  | 3000 | 1.43  |
| 800  | 43.40  | 1000 | 0.99  | 3600 | 3.43  |
| 900  | 53.80  | 1500 | 6.22  | 4000 | 5.35  |
| 1000 | 64.10  | 2000 | 16.00 | 4600 | 9.07  |
| 1500 | 111.00 | 2500 | 28.80 | 5000 | 12.00 |

“ ”

“ ”

2

10-15cm

2mm

$10^{-10}$ cm/s

$10^{-10}$ cm/s

40mm

2mm HDPE

$10^{-10}$ cm/s

GB18597-2001

$10^{-7}$ cm/s

GB18599 2001





VOCs

VOCs

HJ964-2018

$$S=n(I_s \quad L_s \quad R_s)/(b \times A \times D)$$

S— g/k

I<sub>s</sub>— g

L<sub>s</sub>— g R<sub>s</sub>—

g

b— kg/m<sup>3</sup>

A— m<sup>2</sup>

D— 0.2m

n— a

B

VOCs

0.012-÷

5.12mg/kg 10.24mg/kg 21.45mg/kg

VOCs 1 5 10 20

GB36600-2018

2

$10^{-10}$ cm/s

“ ”

1

405m<sup>2</sup>

2

GB18599-2001

3

893t/a

4

HJ2025-2012

GB18597-2001

35

85%



6.2-8

/

1

“ ”

2

GB50493-2009





Ai5\$ Ô fF

1

$$V = V_1 + V_2 + V_{\max} - V_3$$

$V_1 + V_2$

1

350m<sup>3</sup>

3

HJ 169-2018

/

6.2-9

|  |                       |              |
|--|-----------------------|--------------|
|  |                       |              |
|  |                       |              |
|  | E 112.482105°         | N 28.105557° |
|  | 1<br>2<br>3<br>4<br>5 |              |
|  | 1                     |              |

क  
क  
क  
क  
क

2

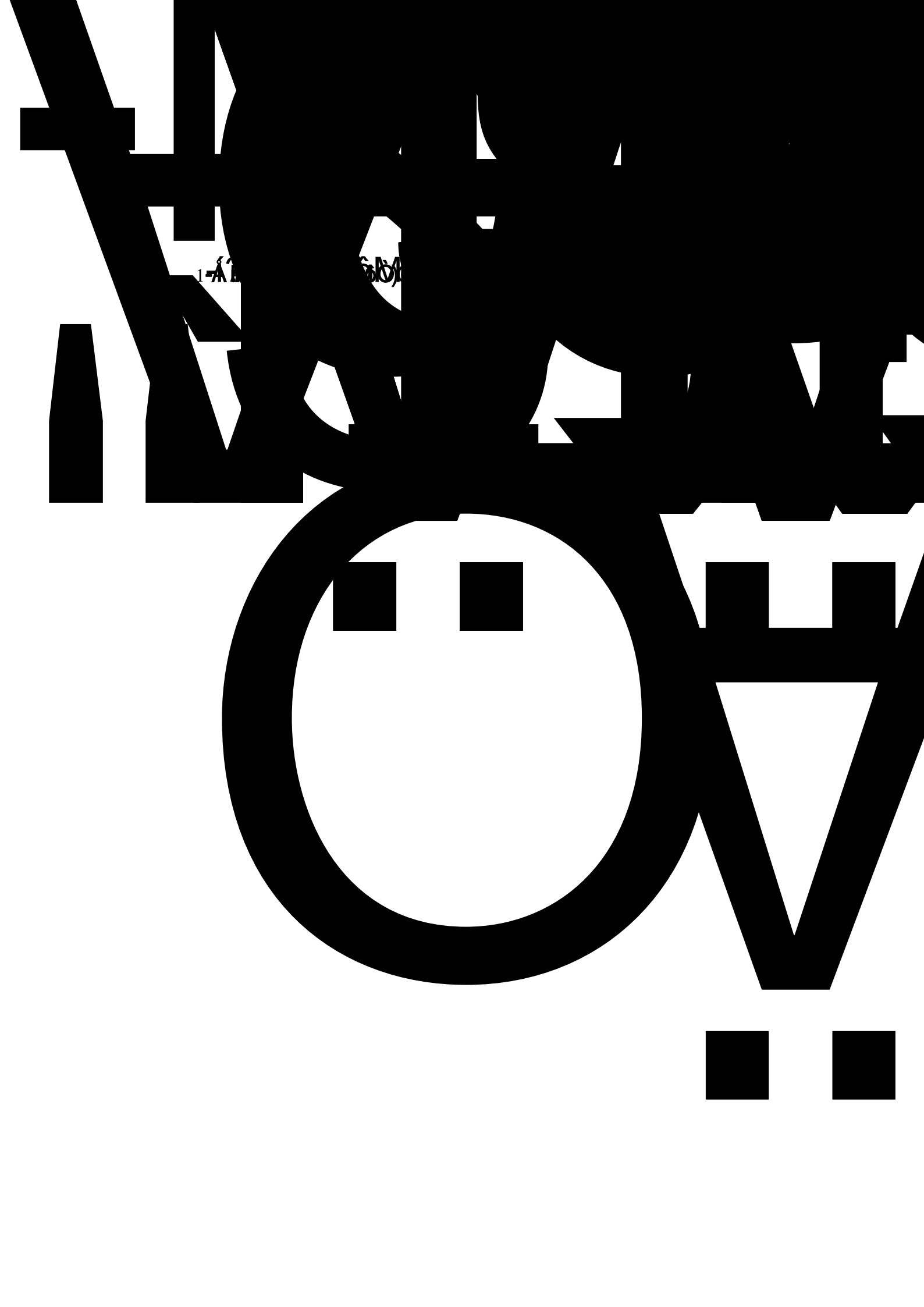
3

4

5

1

व  
व  
व  
व  
व



100%

100%

100%

100%

100%

100%

50%

70%

2

0#

1

GB18918-2002 A

2

3

4

5

1

2.5m

2

GB12523-2011

6 00

22 00

2

3

4

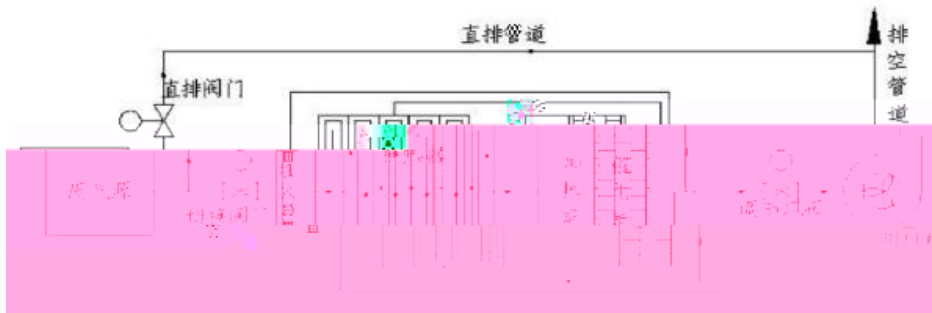
5

WORLD OF

6

7

CO



7.2-1 CO

CO

200 400

CO

200-400

85%

95%

2.6~30mg/m<sup>3</sup>

5~30

20~1500mg/m<sup>3</sup>

CO

VOCs

CO

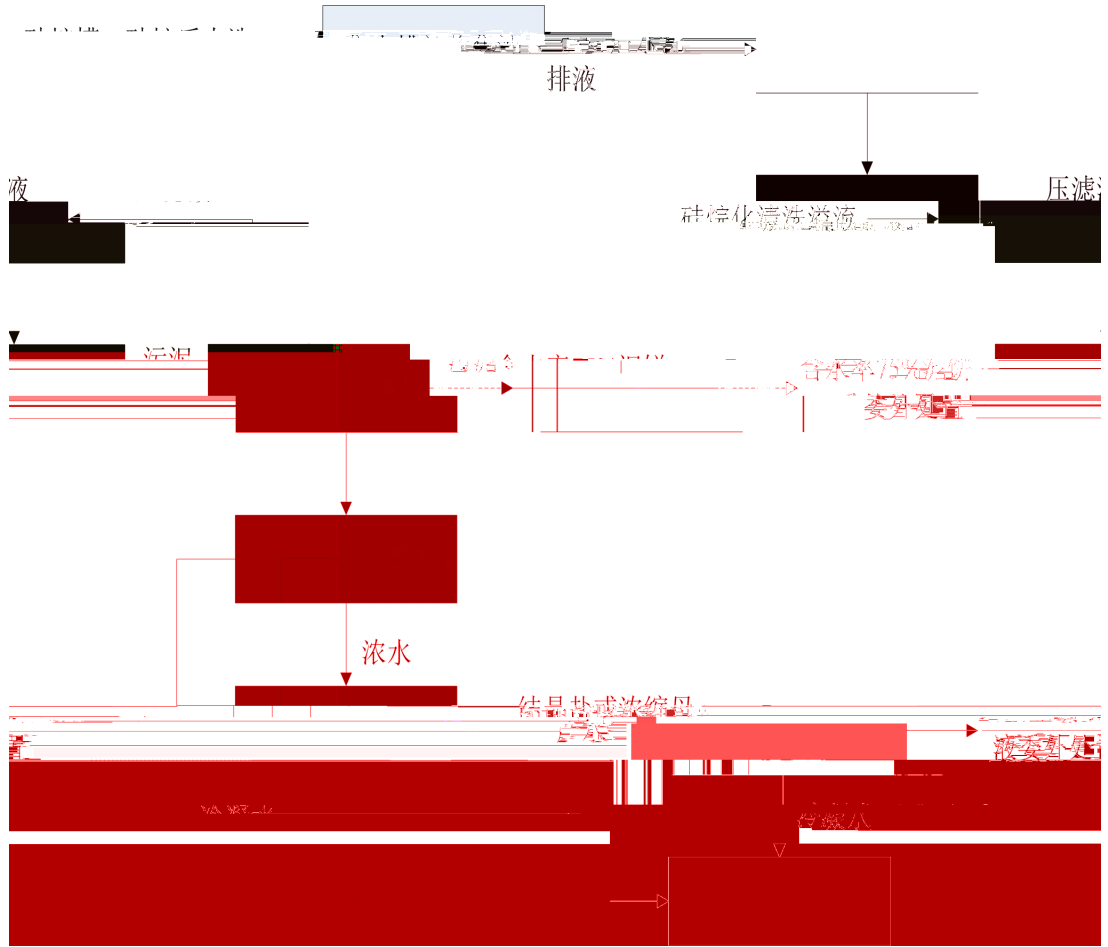
85%

HJ 971-2018

INC. © M

■ ■

1



pH

MBR

MBR

MBR

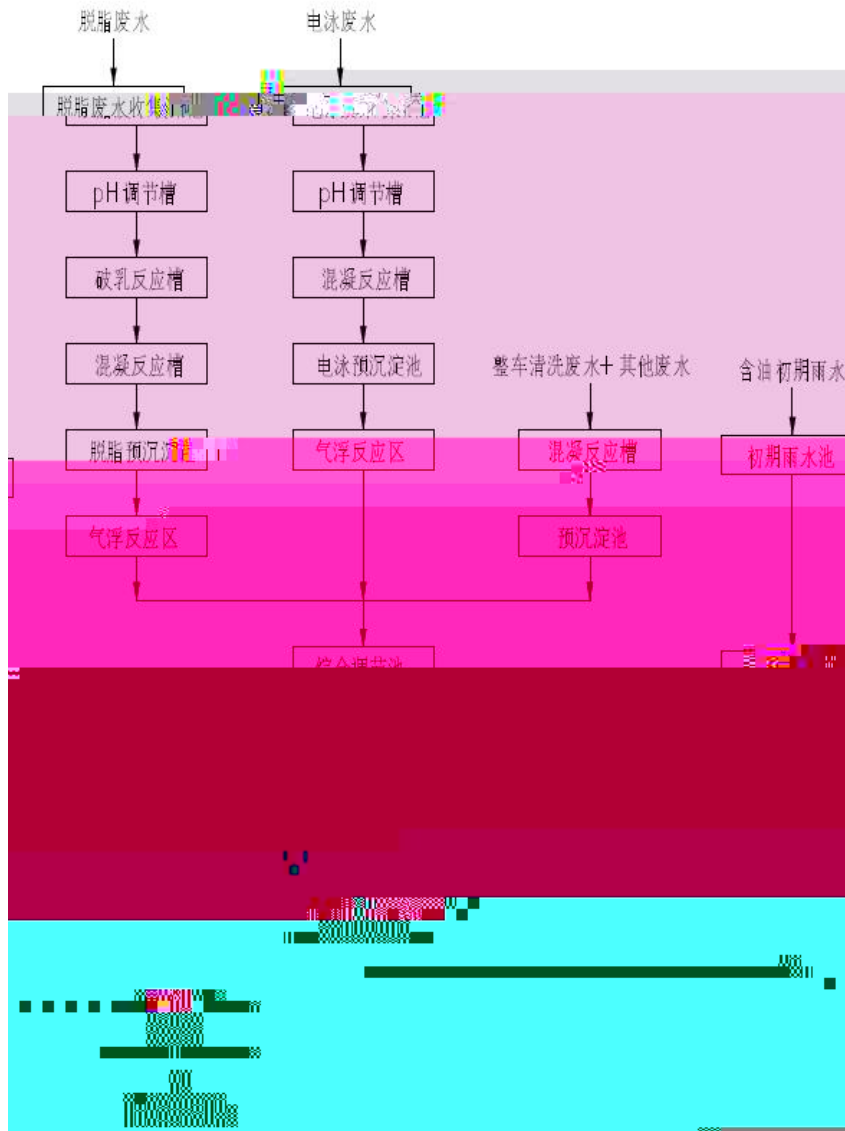
SWRO

MVR

SWRO

SWRO

SWR



28576m<sup>3</sup>/a 121.6m<sup>3</sup>/d

(GB18918-2002) IV ( TN 10mg/L)

GB8978-1996

322t/d

0.2%

“

”

( )

1

10

2

6.0m

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

1.5m

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

3

7.2-1

|   |  |  |   |
|---|--|--|---|
|   |  |  |   |
| 1 |  |  |   |
| 2 |  |  |   |
| 3 |  |  |   |
| 4 |  |  |   |
| 5 |  |  | / |

65~90dB(A)

10~40dB(A)

15~30dB(A)

3~15dB(A)

GB 18597-2001 2013

1999 5

2014 22

a

b

c

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

2mm

1m

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

d

e

GB 15562.2

GB 8978

f

3

3

JTJ

3130-88

(2005 9 )

JT 618

GB 13392-2005



1

2

3

3800

577256

36.03%

6.96

1

2

3

4

5

|  |  |  |                  |                              |
|--|--|--|------------------|------------------------------|
|  |  |  |                  |                              |
|  |  |  | 3 +              | 90                           |
|  |  |  | +                | 20                           |
|  |  |  |                  |                              |
|  |  |  |                  | 5                            |
|  |  |  |                  | 30                           |
|  |  |  |                  | 5                            |
|  |  |  |                  | 100                          |
|  |  |  |                  | 10                           |
|  |  |  |                  | 50                           |
|  |  |  | 1<br>2<br>3<br>4 | 350m <sup>3</sup><br><br>200 |
|  |  |  |                  | /                            |

1

2

3

4

2

1

2

3

4

5

6

7

8

9

2

3

4

1

2

3

4



|    |                     |      |      |              |                                 |
|----|---------------------|------|------|--------------|---------------------------------|
|    |                     |      | +25m |              |                                 |
|    |                     | NMHC | +    | +            |                                 |
|    |                     |      | +25m |              |                                 |
|    |                     |      | +    |              |                                 |
|    |                     |      | +20m |              |                                 |
| 1# | NOx SO <sub>2</sub> |      | +20m |              | SO <sub>2</sub> NO <sub>x</sub> |
| 3# | NOx SO <sub>2</sub> |      | +20m | GB13271-2014 | 3                               |
| 6# | NOx SO <sub>2</sub> |      | +20m |              |                                 |

GB16297-1996

COD SS  
TN

COD<sub>cr</sub> BOD<sub>5</sub>  
SS NH<sub>3</sub>-N

GB/T31962-2015 B

Leq A

4

/

/

W

3

4

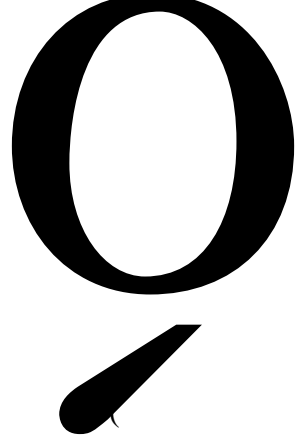
5

( )

]

1

pH



pH

)

3

5

1

4

1

4

2

A

5

3

|  |   |                     |      |
|--|---|---------------------|------|
|  |   |                     |      |
|  |   | ) (                 |      |
|  |   |                     | 1 /5 |
|  |   | Leq A               | 1 /  |
|  | DA001 DA002 DA004 DA006<br>DA007 DA009 DA011~DA015<br>DA018 DA019 |                     | 1 /  |
|  | DA005   | NMHC                |      |
|  | DA016 DA017   | NMHC                |      |
|  | DA020~DA022   | NOx SO <sub>2</sub> |      |
|  |   | NMHC                |      |

577256

11610

2.0%

932137.26m<sup>2</sup>

24

3800

3760h

|                   |                    |                  |                 |                 |
|-------------------|--------------------|------------------|-----------------|-----------------|
|                   | 2021               | PM <sub>10</sub> | SO <sub>2</sub> | NO <sub>2</sub> |
| CO                | 95                 | O <sub>3</sub>   | 8h              | 90              |
|                   |                    | GB3095-2012      |                 |                 |
| PM <sub>2.5</sub> |                    |                  |                 |                 |
| HJ2.2-2018        |                    |                  |                 | HJ2.2-2018      |
| D                 |                    |                  |                 |                 |
|                   | 2mg/m <sup>3</sup> |                  |                 |                 |
| COD               |                    |                  |                 | pH              |
|                   |                    |                  |                 | GB3838-2002 III |
|                   |                    | pH               | COD             |                 |
|                   | GB3838-2002 III    |                  |                 |                 |
| GB3838-2002 III   |                    |                  |                 |                 |
|                   |                    |                  |                 | GB/T14848-2017  |
| III               |                    |                  |                 |                 |
|                   |                    |                  |                 |                 |
| GB3096-2008 4a    |                    |                  |                 |                 |
|                   | -                  |                  |                 | GB36600-2018    |
|                   |                    |                  |                 | GB              |

15618-2018



5 10 20

■ ■ S

V





+20m  
+ +20m

NMHC + +  
+25m  
NMHC +20m  
+ +20m  
+ +20m

NMHC + +  
+25m  
+ +20m

+20m  
NMHC + +  
+25m 25m  
+20m 2  
+20m 2  
+ +20m &

|  |  |   |                   |
|--|--|---|-------------------|
|  |  |   |                   |
|  |  |   |                   |
|  |  | / |                   |
|  |  | / |                   |
|  |  |   | 350m <sup>3</sup> |
|  |  |   |                   |

1

2

3

4