



**Legende**

Randbedingungen Zulauf

Randbedingungen Auslauf

Kilometrierung Isar / Amper

Umgrenzung 2d-Modell

**Fließgeschwindigkeit [m/s]**

0.00 - 0.25

0.25 - 0.50

0.50 - 1.00

1.00 - 1.50

1.50 - 2.00

2.00 - 2.50

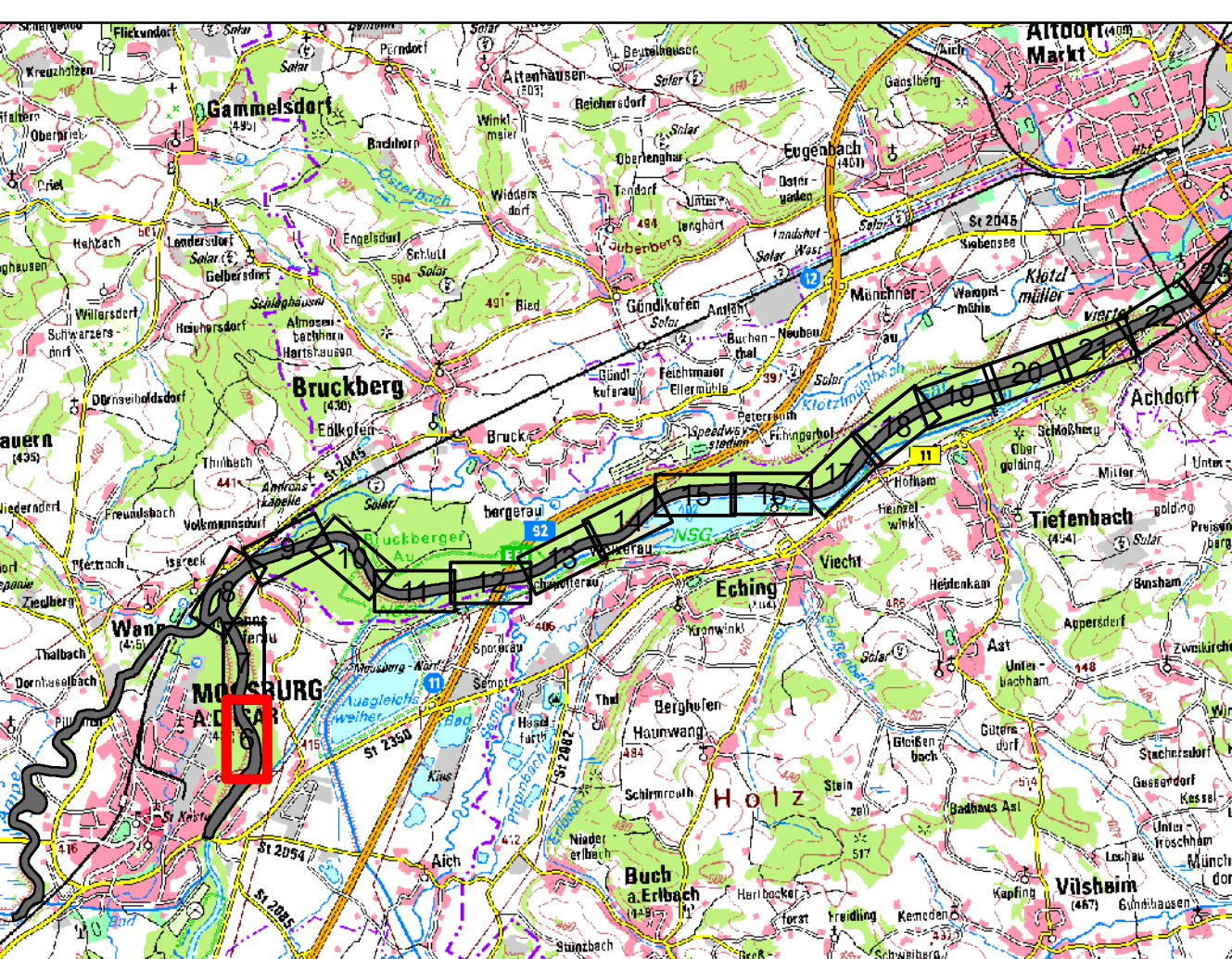
2.50 - 3.00

3.00 - 3.50

Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832

Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837

Kartengrundlage:  
Orthophotos DOP40 und TK100;  
Bayerische Vermessungsverwaltung, 2023



|                                                                                                                                 |                                                                                                    |               |                     |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------|---------------------|
| F                                                                                                                               |                                                                                                    |               |                     |
| E                                                                                                                               |                                                                                                    |               |                     |
| D                                                                                                                               |                                                                                                    |               |                     |
| C                                                                                                                               |                                                                                                    |               |                     |
| B                                                                                                                               |                                                                                                    |               |                     |
| A                                                                                                                               | Anpassung Sohlraute FKM 91.7-78.4                                                                  | 16.04.2024    | Auflager            |
| Index                                                                                                                           | Art der Änderung                                                                                   | Datum         | Name                |
|                                                                                                                                 |                                                                                                    | AKZ/KKS       |                     |
| <b>SWM</b> Stadtwerke München                                                                                                   |                                                                                                    |               |                     |
| Planersteller                                                                                                                   | SKI GmbH + Co.KG<br>Lessingstraße 9<br>80336 München                                               | Plannummer    | 38232-2-12-v-106A   |
| Werk                                                                                                                            |                                                                                                    | Format<br>A   | Maßstab<br>1 : 1000 |
| Benennung                                                                                                                       | WBUP - 2D-Hydraulik Isar                                                                           | Datum         | Name                |
|                                                                                                                                 |                                                                                                    | 16.04.2024    | Auflager            |
| Mindestwasserstudie Isar                                                                                                        |                                                                                                    | Geprüft       | Jungnickel          |
| Fließgeschw. $Q_{Isar} = 12 \text{ m}^3/\text{s}$ , $Q_{Amper} = 6 \text{ m}^3/\text{s}$ , $Q_{Mik} = 115 \text{ m}^3/\text{s}$ |                                                                                                    | Genehm.       |                     |
| Zeichnungs-Nr.                                                                                                                  | UA Abt. Werk Block Sachgebiet lfd. Nr. Blatt von Blatt Ind.                                        |               |                     |
|                                                                                                                                 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 |               |                     |
| Ersatz für                                                                                                                      |                                                                                                    | Ersetzt durch |                     |





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Fließgeschwindigkeit [m/s]

0.00 - 0.25

0.25 - 0.50

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1.50 - 2.00

2.00 - 2.50

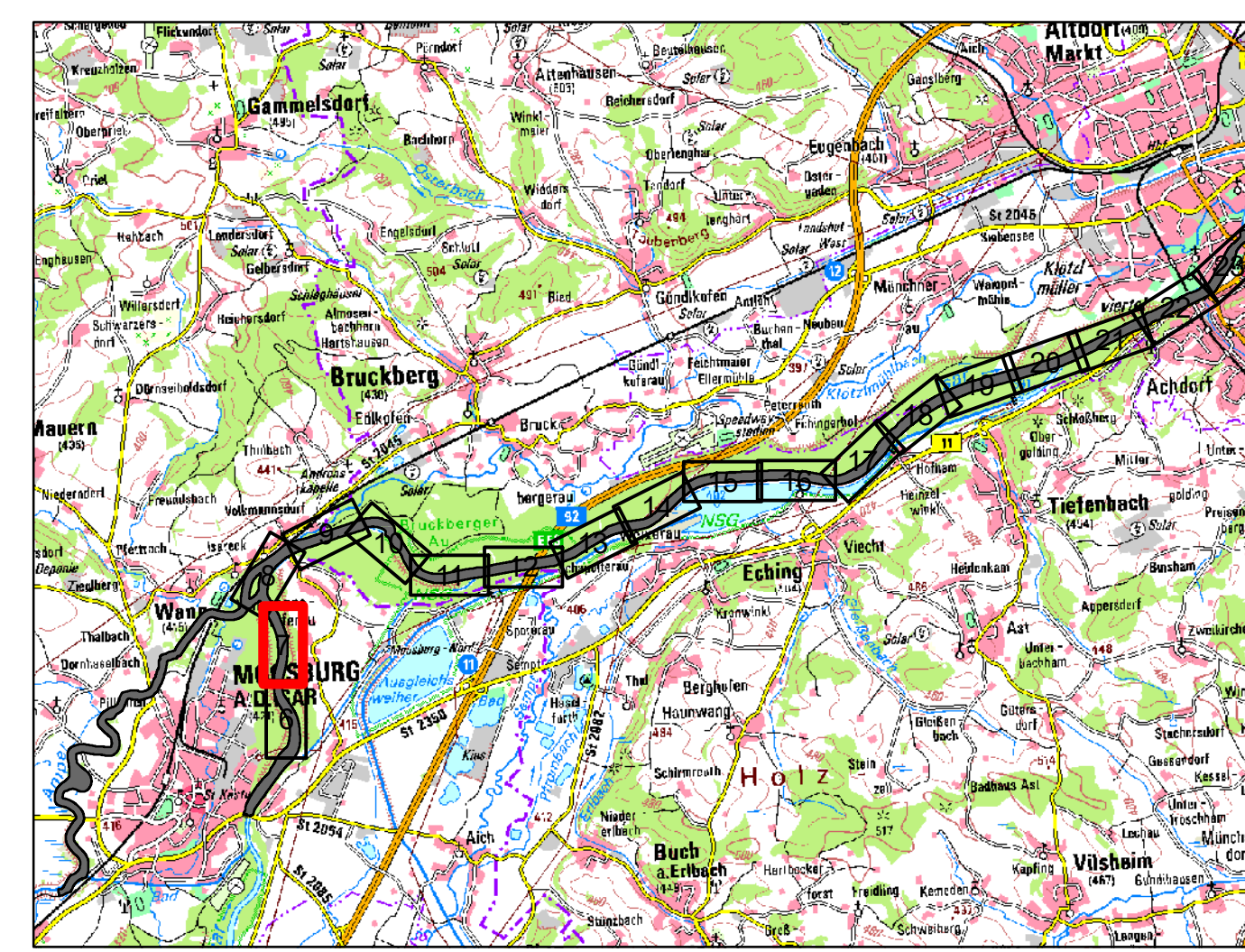
2.50 - 3.00

3.00 - 3.50

Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832

Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837

Kartengrundlage:  
Orthophotos DOP40 und TK100;  
Bayerische Vermessungsverwaltung, 2023



|                                                        |                                                                                                                   |        |            |            |                   |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------|------------|------------|-------------------|
| F                                                      |                                                                                                                   |        |            |            |                   |
| E                                                      |                                                                                                                   |        |            |            |                   |
| D                                                      |                                                                                                                   |        |            |            |                   |
| C                                                      |                                                                                                                   |        |            |            |                   |
| B                                                      |                                                                                                                   |        |            |            |                   |
| A                                                      | Anpassung Sohlraute FKM 91.7-78.4                                                                                 |        | 16.04.2024 | Aufleger   |                   |
| Index                                                  | Art der Änderung                                                                                                  |        | Datum      | Name       |                   |
|                                                        |                                                                                                                   |        | AKZ/KKS    |            |                   |
| <div><div>SWM</div><div>Stadtwerke München</div></div> |                                                                                                                   |        |            |            |                   |
| Planersteller                                          | <div><div><div>SKI</div><div>SKI GmbH + Co.KG</div><div>Lessingstraße 9</div><div>80336 München</div></div></div> |        |            | Plannummer | 38232-2-12-v-107A |
| Werk                                                   |                                                                                                                   | Format | A          | Maßstab    | 1 : 1000          |
| Benennung                                              | WBUP – 2D–Hydraulik Isar                                                                                          |        |            | Datum      | 16.04.2024        |
|                                                        |                                                                                                                   |        |            | Name       | Aufleger          |
|                                                        |                                                                                                                   |        |            | Bearb.     | 16.04.2024        |
|                                                        |                                                                                                                   |        |            | Geprüft    | Jungnickel        |
|                                                        |                                                                                                                   |        |            | Genehm.    |                   |
| Zeichnungs-Nr.                                         | UA                                                                                                                | Abt.   | Werk       | Block      | Sachgebiet        |
|                                                        | 1                                                                                                                 | 2      | 3          | 4          | 5                 |
|                                                        | 6                                                                                                                 | 7      | 8          | 9          | 10                |
|                                                        | 11                                                                                                                | 12     | 13         | 14         | 15                |
|                                                        | 16                                                                                                                | 17     | 18         | 19         | 20                |
|                                                        | 21                                                                                                                | 22     | 23         | 24         | 25                |
|                                                        | 26                                                                                                                | 27     | 28         | 29         | 30                |
|                                                        | 31                                                                                                                | 32     | 33         | 34         | 35                |
|                                                        | 36                                                                                                                |        |            |            |                   |
| Ersatz für                                             |                                                                                                                   |        |            |            | Ersetzt durch     |





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1.50 - 2.00

2.00 - 2.50

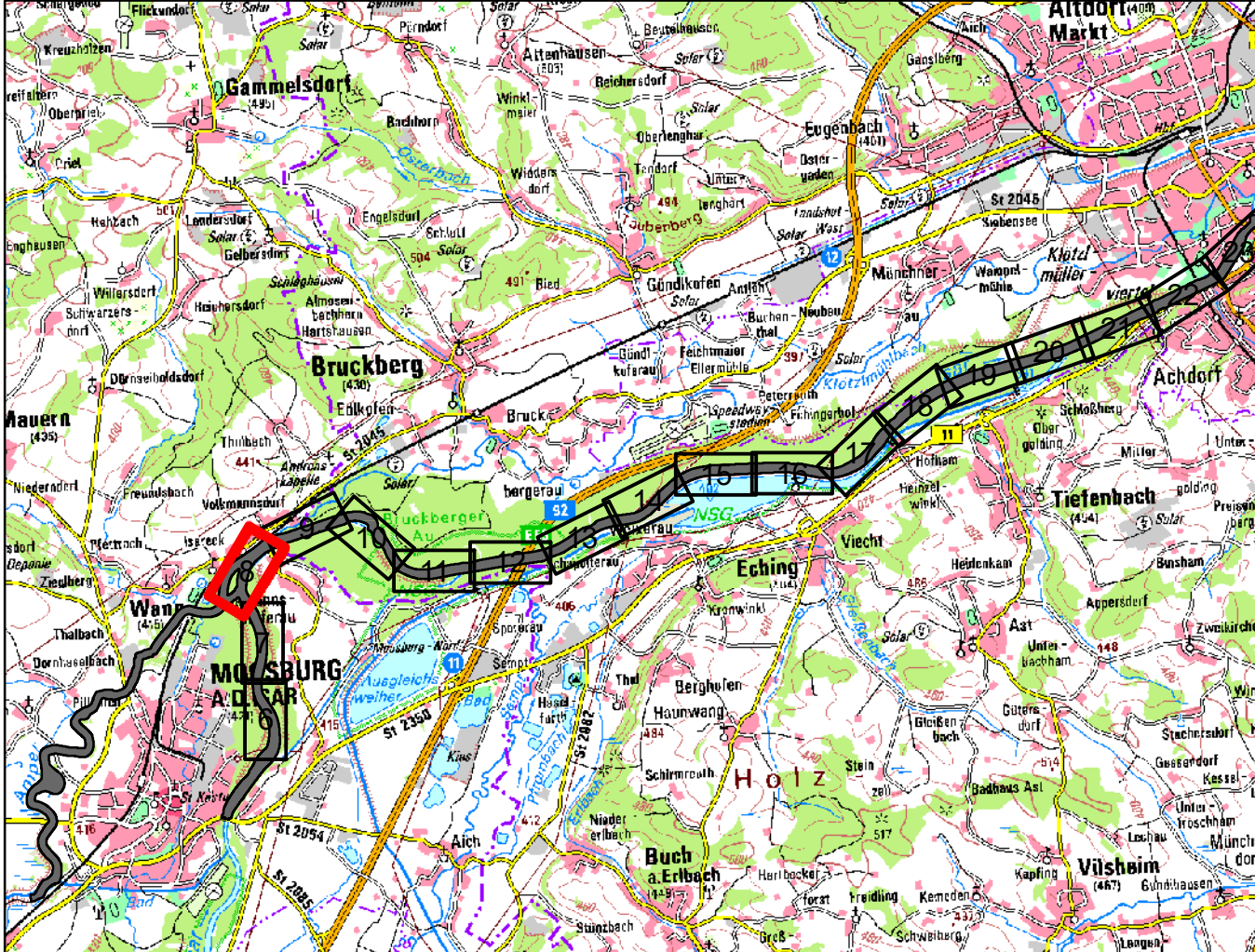
2.50 - 3.00

3.00 - 3.50

Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832

Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837

Kartengrundlage:  
Orthophotos DOP40 und TK100;  
Bayerische Vermessungsverwaltung, 2023



|                                                                                                                                 |                                                                                          |            |                   |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------|-------------------|
| F                                                                                                                               |                                                                                          |            |                   |
| E                                                                                                                               |                                                                                          |            |                   |
| D                                                                                                                               |                                                                                          |            |                   |
| C                                                                                                                               |                                                                                          |            |                   |
| B                                                                                                                               |                                                                                          |            |                   |
| A                                                                                                                               | Anpassung Sohlraute FKM 91.7-78.4                                                        | 16.04.2024 | Auflieger         |
| Index                                                                                                                           | Art der Änderung                                                                         | Datum      | Name              |
|                                                                                                                                 |                                                                                          | AKZ/KKS    |                   |
| <div><div>SWM</div><div>Stadtwerke München</div></div>                                                                          |                                                                                          |            |                   |
| Planersteller                                                                                                                   | <div><div>SKI GmbH + Co.KG</div><div>Lessingstraße 9</div><div>80336 München</div></div> | Plannummer | 38232-2-12-v-108A |
| Werk                                                                                                                            | A                                                                                        | Format     | Maßstab           |
|                                                                                                                                 |                                                                                          |            | 1 : 1000          |
| Benennung                                                                                                                       | WBUP – 2D–Hydraulik Isar                                                                 | Datum      | Name              |
|                                                                                                                                 |                                                                                          | 16.04.2024 | Auflieger         |
| Bearb.                                                                                                                          |                                                                                          | 16.04.2024 | Jungnickel        |
| Geprüft                                                                                                                         |                                                                                          |            |                   |
| Genehm.                                                                                                                         |                                                                                          |            |                   |
| Mindestwasserstudie Isar                                                                                                        |                                                                                          |            |                   |
| Fließgeschw. $Q_{Isar} = 12 \text{ m}^3/\text{s}$ , $Q_{Amper} = 6 \text{ m}^3/\text{s}$ , $Q_{Mik} = 115 \text{ m}^3/\text{s}$ |                                                                                          |            |                   |
| Zeichnungs-Nr.                                                                                                                  | UA                                                                                       | Abt.       | Werk              |
|                                                                                                                                 | 1                                                                                        | 2          | 3                 |
| Ersatz für                                                                                                                      | 4                                                                                        | 5          | 6                 |
|                                                                                                                                 | 7                                                                                        | 8          | 9                 |
|                                                                                                                                 | 10                                                                                       | 11         | 12                |
|                                                                                                                                 | 13                                                                                       | 14         | 15                |
|                                                                                                                                 | 16                                                                                       | 17         | 18                |
|                                                                                                                                 | 19                                                                                       | 20         | 21                |
|                                                                                                                                 | 22                                                                                       | 23         | 24                |
|                                                                                                                                 | 25                                                                                       | 26         | 27                |
|                                                                                                                                 | 28                                                                                       | 29         | 30                |
|                                                                                                                                 | 31                                                                                       | 32         | 33                |
|                                                                                                                                 | 34                                                                                       | 35         | 36                |
| Ersetzt durch                                                                                                                   |                                                                                          |            |                   |





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1.00 - 1.50

1.50 - 2.00

2.00 - 2.50

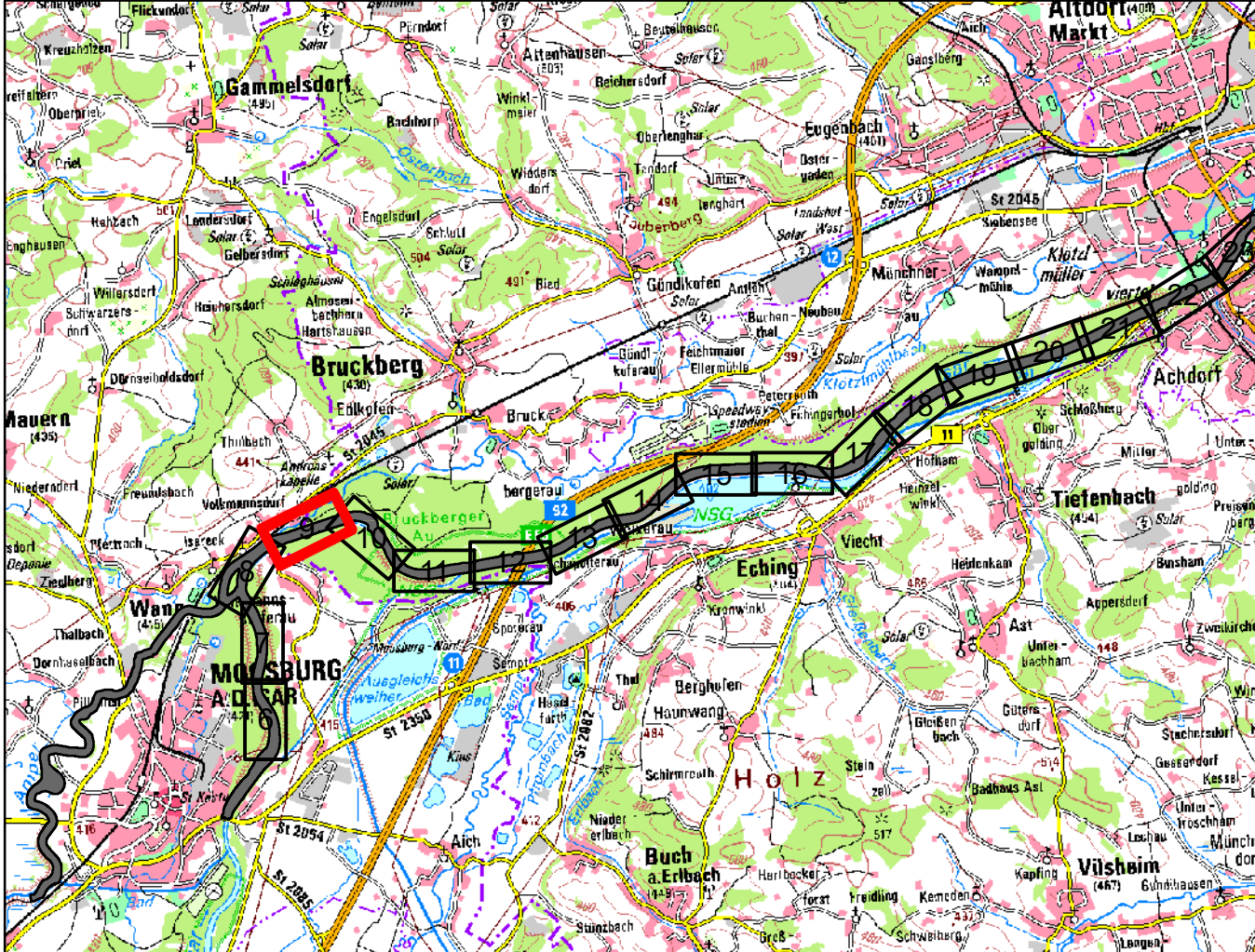
2.50 - 3.00

3.00 - 3.50

Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832

Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837

Kartengrundlage:  
Orthophotos DOP40 und TK100;  
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|                                                                                                                                 |                                                                                                    |                       |                     |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------|---------------------|
| F                                                                                                                               |                                                                                                    |                       |                     |
| E                                                                                                                               |                                                                                                    |                       |                     |
| D                                                                                                                               |                                                                                                    |                       |                     |
| C                                                                                                                               |                                                                                                    |                       |                     |
| B                                                                                                                               |                                                                                                    |                       |                     |
| A                                                                                                                               | Anpassung Sohlraute FKM 91.7-78.4                                                                  | 16.04.2024            | Auflager            |
| Index                                                                                                                           | Art der Änderung                                                                                   | Datum                 | Name                |
|                                                                                                                                 |                                                                                                    | AKZ/KKS               |                     |
| <div><div><b>SW</b><b>M</b></div><div>Stadtwerke München</div></div>                                                            |                                                                                                    |                       |                     |
| Planersteller                                                                                                                   | <div><div></div><div>SKI GmbH + Co.KG<br/>Lessingstraße 9<br/>80336 München</div></div>            | Plannummer            | 38232-2-12-v-109A   |
| Werk                                                                                                                            |                                                                                                    | Format<br>A           | Maßstab<br>1 : 1000 |
| Benennung                                                                                                                       | WBUP – 2D–Hydraulik Isar                                                                           | Datum                 | Name                |
|                                                                                                                                 |                                                                                                    | Bearb.<br>16.04.2024  | Auflager            |
| Mindestwasserstudie Isar                                                                                                        |                                                                                                    | Geprüft<br>16.04.2024 | Jungnickel          |
| Fließgeschw. $Q_{Isar} = 12 \text{ m}^3/\text{s}$ , $Q_{Amper} = 6 \text{ m}^3/\text{s}$ , $Q_{Mik} = 115 \text{ m}^3/\text{s}$ |                                                                                                    | Genehm.               |                     |
| Zeichnungs-Nr.                                                                                                                  | UA    Abt.    Werk    Block    Sachgebiet    lfd. Nr.                                              | Blatt von Blatt       | Ind.                |
|                                                                                                                                 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 | V.    1               |                     |
| Ersatz für                                                                                                                      |                                                                                                    | Ersetzt durch         |                     |





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Randbedingungen Auslauf

Kilometrierung Isar / Amper

Umgrenzung 2d-Modell

**Fließgeschwindigkeit [m/s]**

0.00 - 0.25

0.25 - 0.50

0.50 - 1.00

1.00 - 1.50

1.50 - 2.00

2.00 - 2.50

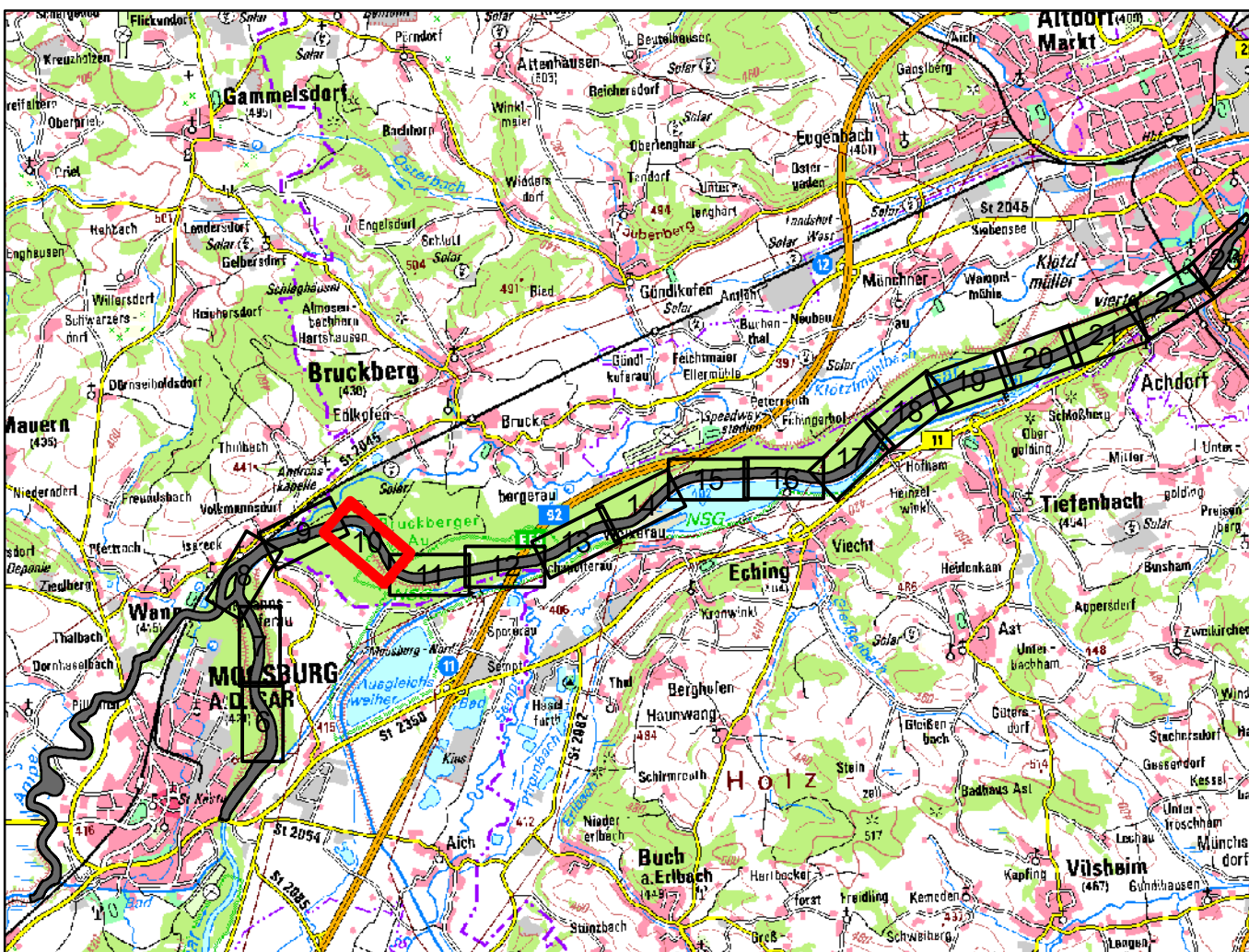
2.50 - 3.00

3.00 - 3.50

Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832

Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837

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Orthophotos DOP40 und TK100;  
Bayerische Vermessungsverwaltung, 2023



|                                                                                                                                 |                                      |  |                   |            |            |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|-------------------|------------|------------|
| F                                                                                                                               |                                      |  |                   |            |            |
| E                                                                                                                               |                                      |  |                   |            |            |
| D                                                                                                                               |                                      |  |                   |            |            |
| C                                                                                                                               |                                      |  |                   |            |            |
| B                                                                                                                               |                                      |  |                   |            |            |
| A                                                                                                                               | Anpassung Sohlrauhheit FKM 91.7-78.4 |  | 16.04.2024        | Aufleger   |            |
| Index                                                                                                                           | Art der Änderung                     |  | Datum             | Name       |            |
|                                                                                                                                 |                                      |  |                   | AKZ/KKS    |            |
| <b>SWM</b> Stadtwerke München                                                                                                   |                                      |  |                   |            |            |
| Planersteller                                                                                                                   |                                      |  | Plannummer        |            |            |
| SKI GmbH + Co.KG<br>Lessingstraße 9<br>80336 München                                                                            |                                      |  | 38232-2-12-v-110A |            |            |
| Werk                                                                                                                            |                                      |  | Format            | Maßstab    |            |
| A                                                                                                                               |                                      |  | A                 | 1 : 1000   |            |
| Benennung                                                                                                                       |                                      |  |                   | Datum      | Name       |
| WBUP – 2D–Hydraulik Isar                                                                                                        |                                      |  |                   | 16.04.2024 | Aufleger   |
| Mindestwasserstudie Isar                                                                                                        |                                      |  |                   | 16.04.2024 | Jungnickel |
| Fließgeschw. $Q_{Isar} = 12 \text{ m}^3/\text{s}$ , $Q_{Amper} = 6 \text{ m}^3/\text{s}$ , $Q_{Mik} = 115 \text{ m}^3/\text{s}$ |                                      |  |                   |            |            |
| Zeichnungs-Nr.                                                                                                                  |                                      |  | UA                | Abt.       | Ind.       |
| 1                                                                                                                               |                                      |  | 2                 | 3          | 4          |
| 5                                                                                                                               |                                      |  | 6                 | 7          | 8          |
| 9                                                                                                                               |                                      |  | 10                | 11         | 12         |
| 13                                                                                                                              |                                      |  | 14                | 15         | 16         |
| 17                                                                                                                              |                                      |  | 18                | 19         | 20         |
| 21                                                                                                                              |                                      |  | 22                | 23         | 24         |
| 25                                                                                                                              |                                      |  | 26                | 27         | 28         |
| 29                                                                                                                              |                                      |  | 30                | 31         | 32         |
| 33                                                                                                                              |                                      |  | 34                | 35         | 36         |
| Ersatz für                                                                                                                      |                                      |  | Ersetzt durch     |            |            |





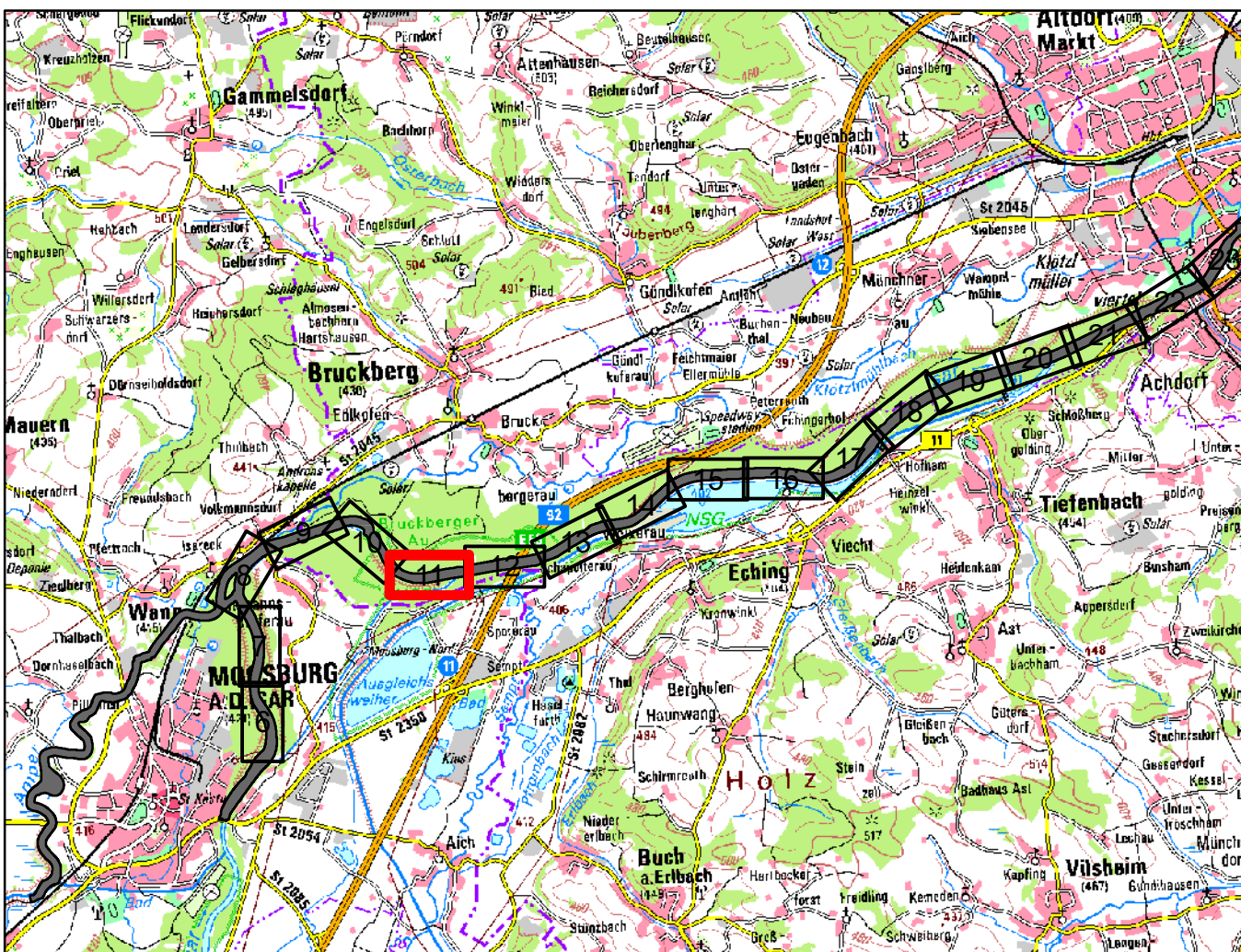
Legende

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- Randbedingungen Auslauf
- Kilometrierung Isar / Amper
- Umgrenzung 2d-Modell

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Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832  
Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837  
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Bayerische Vermessungsverwaltung, 2023



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |   |      |                   |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---|------|-------------------|------------|----------|-----------------|-----|------|-------|------------|----------|-----------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |   |      |                   |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |   |      |                   |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |   |      |                   |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |   |      |                   |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |   |      |                   |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Anpassung Sohlraute FKM 91.7-78.4 |   |      | 16.04.2024        | Aufleger   |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Index                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Art der Änderung                  |   |      | Datum             | Name       |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <div> Stadtwerke München</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |   |      | AKZ/KKS           |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |   |      |                   |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |   |      | Plannummer        |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |   |      | 38232-2-12-v-111A |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |   |      | Format A          |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |   |      | Maßstab           |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |   |      | 1 : 1000          |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |   |      |                   |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Benennung WBUP – 2D–Hydraulik Isor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |   |      | Datum             | Name       |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Mindestwasserstudie Isar<br>Fließgeschw. $Q_{Isar} = 12 \text{ m}^3/\text{s}$ , $Q_{Amper} = 6 \text{ m}^3/\text{s}$ , $Q_{MIK} = 115 \text{ m}^3/\text{s}$                                                                                                                                                                                                                                                                                                                                                                                                              |                                   |   |      | Bearb.            | 16.04.2024 |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |   |      | Geprüft           | 16.04.2024 |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |   |      | Genehm.           | Jungnickl  |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Zeichnungs-Nr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                   |   |      |                   |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <table><tr><td>UA</td><td>Abl.</td><td></td><td>Werk</td><td>Block</td><td>Sachgebiet</td><td>lfd. Nr.</td><td>Blatt von Blatt</td><td>Ind</td></tr><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td></tr></table> |                                   |   |      |                   |            | UA       | Abl.            |     | Werk | Block | Sachgebiet | lfd. Nr. | Blatt von Blatt | Ind | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| UA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Abl.                              |   | Werk | Block             | Sachgebiet | lfd. Nr. | Blatt von Blatt | Ind |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2                                 | 3 | 4    | 5                 | 6          | 7        | 8               | 9   | 10   | 11    | 12         | 13       | 14              | 15  | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Ersatz für                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |   |      |                   |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Ersetzt durch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |   |      |                   |            |          |                 |     |      |       |            |          |                 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |





**Legende**

Randbedingungen Zulauf

Randbedingungen Auslauf

Kilometrierung Isar / Amper

Umgrenzung 2d-Modell

**Fließgeschwindigkeit [m/s]**

0.00 - 0.25

0.25 - 0.50

0.50 - 1.00

1.00 - 1.50

1.50 - 2.00

2.00 - 2.50

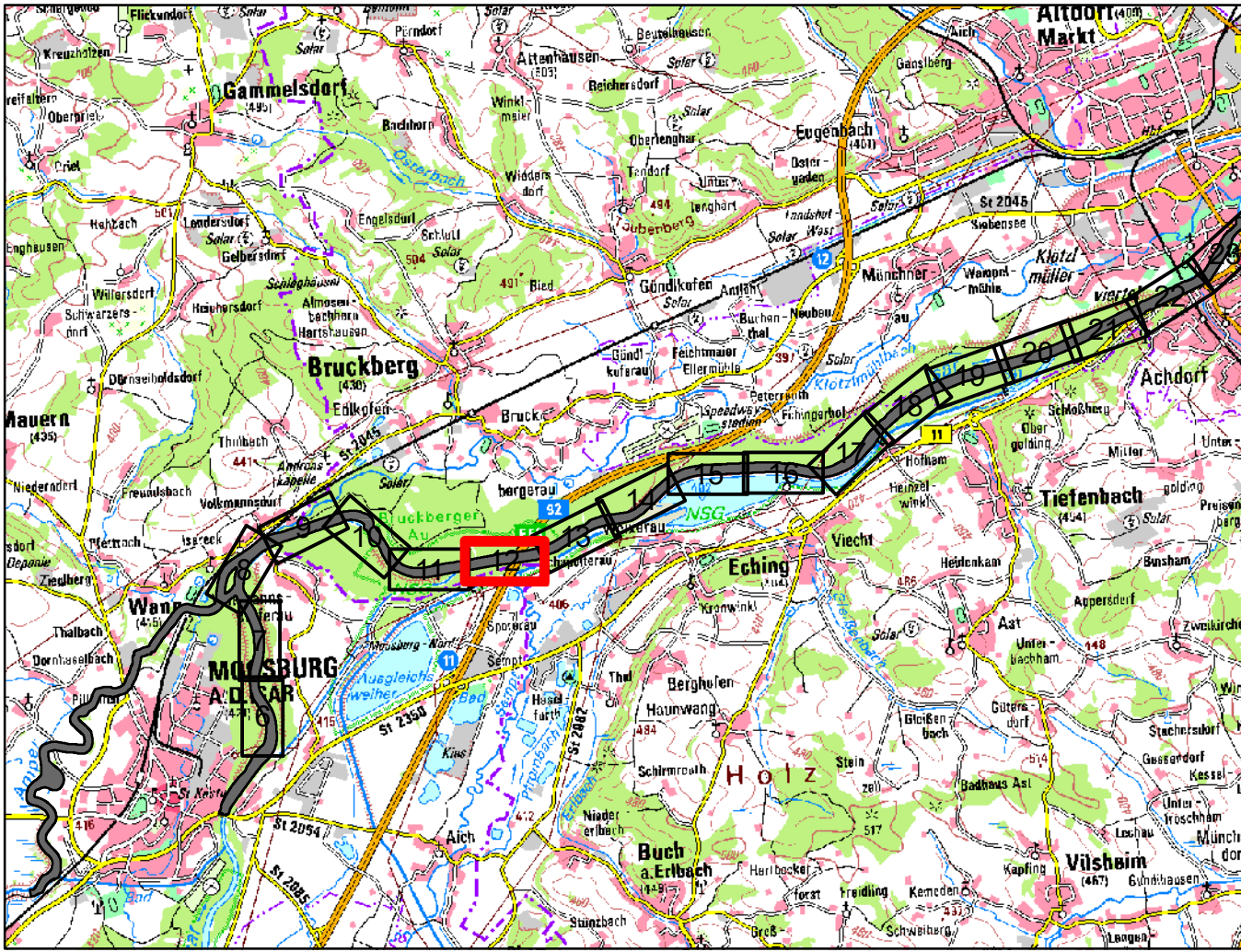
2.50 - 3.00

3.00 - 3.50

Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832

Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837

Kartengrundlage:  
Orthophotos DOP40 und TK100;  
Bayerische Vermessungsverwaltung, 2023



|                                                                                                                                                             |                                      |                                                      |      |      |            |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------|------|------|------------|----------------------------------------|---------------------|-----------------|----|-----|----|----|----|----|----|----|----|----|----|----|---------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| F                                                                                                                                                           |                                      |                                                      |      |      |            |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| E                                                                                                                                                           |                                      |                                                      |      |      |            |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| D                                                                                                                                                           |                                      |                                                      |      |      |            |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| C                                                                                                                                                           |                                      |                                                      |      |      |            |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| B                                                                                                                                                           |                                      |                                                      |      |      |            |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| A                                                                                                                                                           | Anpassung Sohlrauhheit FKM 91.7-78.4 |                                                      |      |      | 16.04.2024 | Auflieger                              |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Index                                                                                                                                                       | Art der Änderung                     |                                                      |      |      | Datum      | Name                                   |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| <div> Stadtwerke München</div>                                         |                                      |                                                      |      |      | AKZ/KKS    |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                             |                                      |                                                      |      |      |            |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                             |                                      |                                                      |      |      |            |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Planersteller                                                                                                                                               |                                      | SKI GmbH + Co.KG<br>Lessingstraße 9<br>80336 München |      |      |            | Plannummer<br><b>38232-2-12-v-112A</b> |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Werk                                                                                                                                                        |                                      |                                                      |      |      |            | Format<br>A                            | Maßstab<br>1 : 1000 |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Benennung<br>WBUP – 2D–Hydraulik Isar                                                                                                                       |                                      |                                                      |      |      |            |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Mindestwasserstudie Isar<br>Fließgeschw. $Q_{Isar} = 12 \text{ m}^3/\text{s}$ , $Q_{Amper} = 6 \text{ m}^3/\text{s}$ , $Q_{MIK} = 115 \text{ m}^3/\text{s}$ |                                      |                                                      |      |      |            |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                             |                                      |                                                      |      |      |            | Bearb.<br>16.04.2024                   | Auflieger           |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                             |                                      |                                                      |      |      |            | Geprüft<br>16.04.2024                  | Jungnickel          |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                                                                                                                                             |                                      |                                                      |      |      |            | Genehm.                                |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Zeichnungs-Nr.                                                                                                                                              |                                      | UA                                                   | Abt. | Werk | Block      | Sachgebiet                             | lfd. Nr.            | Blatt von Blatt | v. | Ind |    |    |    |    |    |    |    |    |    |    |               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 1                                                                                                                                                           |                                      | 2                                                    | 3    | 4    | 5          | 6                                      | 7                   | 8               | 9  | 10  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21            | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| Ersatz für                                                                                                                                                  |                                      |                                                      |      |      |            |                                        |                     |                 |    |     |    |    |    |    |    |    |    |    |    |    | Ersetzt durch |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |





**Legende**

Randbedingungen Zulauf

Randbedingungen Auslauf

Kilometrierung Isar / Amper

Umgrenzung 2d-Modell

**Fließgeschwindigkeit [m/s]**

0.00 - 0.25

0.25 - 0.50

0.50 - 1.00

1.00 - 1.50

1.50 - 2.00

2.00 - 2.50

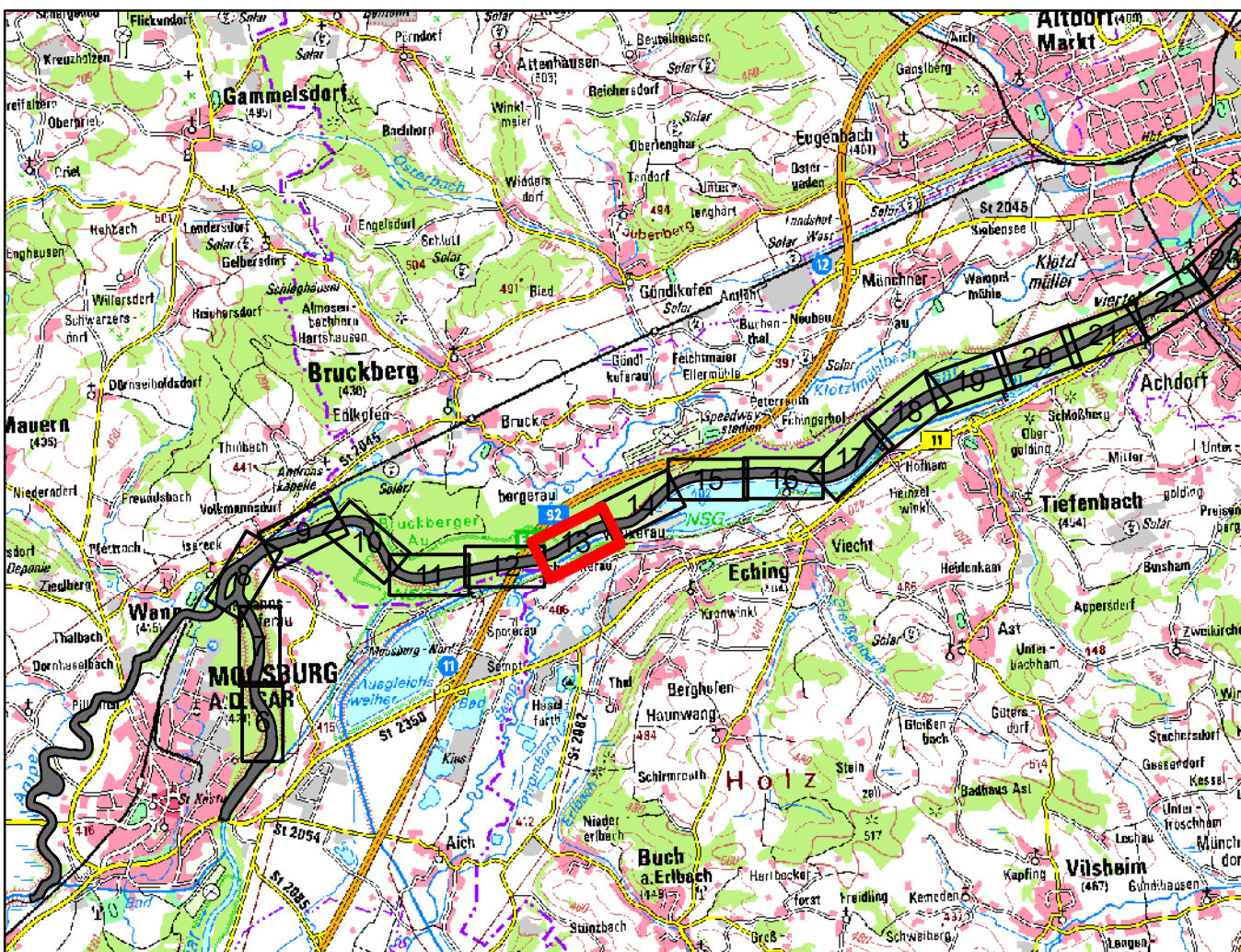
2.50 - 3.00

3.00 - 3.50

Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832

Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837

Kartengrundlage:  
Orthophotos DOP40 und TK100;  
Bayerische Vermessungsverwaltung, 2023



|                                                                                                                                                             |                                      |  |                                 |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|---------------------------------|-----------------------|
| F                                                                                                                                                           |                                      |  |                                 |                       |
| E                                                                                                                                                           |                                      |  |                                 |                       |
| D                                                                                                                                                           |                                      |  |                                 |                       |
| C                                                                                                                                                           |                                      |  |                                 |                       |
| B                                                                                                                                                           |                                      |  |                                 |                       |
| A                                                                                                                                                           | Anpassung Sohlrauhheit FKM 91.7-78.4 |  | 16.04.2024                      | Auflieger             |
| Index                                                                                                                                                       | Art der Änderung                     |  | Datum                           | Name                  |
|                                                                                                                                                             |                                      |  |                                 | AKZ/KKS               |
| <b>SWM</b> Stadtwerke München                                                                                                                               |                                      |  |                                 |                       |
| Planersteller  SKI GmbH + Co.KG<br>Lessingstraße 9<br>80336 München                                                                                         |                                      |  | Plannummer<br>38232-2-12-v-113A |                       |
| Werk                                                                                                                                                        |                                      |  | Format<br>A                     | Maßstab<br>1 : 1000   |
| Benennung<br>WBUP – 2D–Hydraulik Isar                                                                                                                       |                                      |  | Datum<br>16.04.2024             | Name<br>Auflieger     |
| Mindestwasserstudie Isar<br>Fließgeschw. $Q_{Isar} = 12 \text{ m}^3/\text{s}$ , $Q_{Amper} = 6 \text{ m}^3/\text{s}$ , $Q_{Mik} = 115 \text{ m}^3/\text{s}$ |                                      |  | Bearb.<br>16.04.2024            | Geprüft<br>Jungnickel |
|                                                                                                                                                             |                                      |  |                                 |                       |
| Zeichnungs-Nr.                                                                                                                                              |                                      |  | lfd. Nr.                        | Blatt von Blatt       |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36                                                          |                                      |  |                                 |                       |
| Ersatz für                                                                                                                                                  |                                      |  | Ersetzt durch                   |                       |









**Legende**

Randbedingungen Zulauf

Randbedingungen Auslauf

Kilometrierung Isar / Amper

Umgrenzung 2d-Modell

**Fließgeschwindigkeit [m/s]**

0.00 - 0.25

0.25 - 0.50

0.50 - 1.00

1.00 - 1.50

1.50 - 2.00

2.00 - 2.50

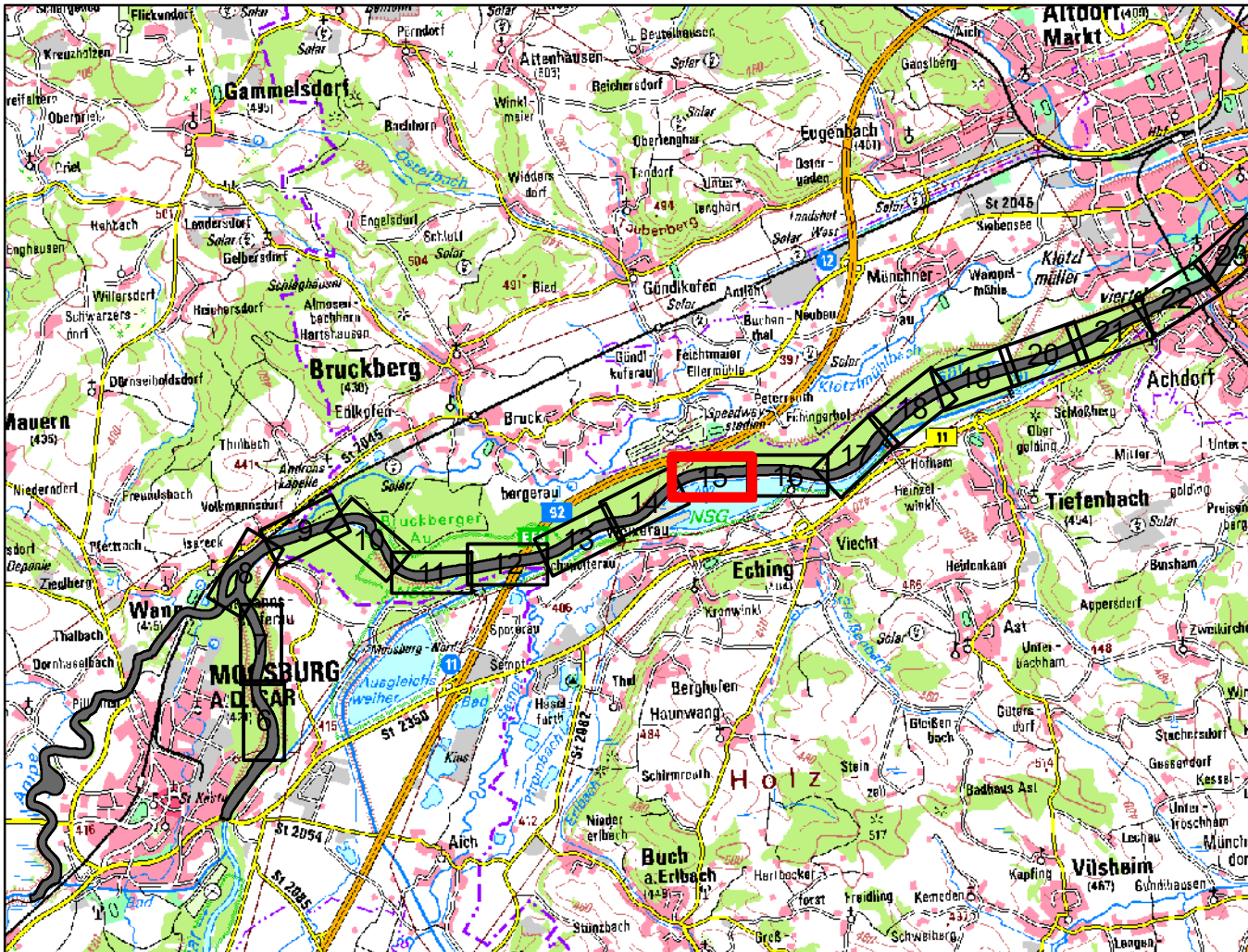
2.50 - 3.00

3.00 - 3.50

Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832

Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837

Kartengrundlage:  
Orthophotos DOP40 und TK100;  
Bayerische Vermessungsverwaltung, 2023



|                                                                                                                                 |                                                      |      |            |            |                   |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------|------------|------------|-------------------|
| F                                                                                                                               |                                                      |      |            |            |                   |
| E                                                                                                                               |                                                      |      |            |            |                   |
| D                                                                                                                               |                                                      |      |            |            |                   |
| C                                                                                                                               |                                                      |      |            |            |                   |
| B                                                                                                                               |                                                      |      |            |            |                   |
| A                                                                                                                               | Anpassung Sohlraute FKM 91.7-78.4                    |      | 16.04.2024 | Aufleger   |                   |
| Index                                                                                                                           | Art der Änderung                                     |      | Datum      | Name       |                   |
|                                                                                                                                 |                                                      |      | AKZ/KKS    |            |                   |
| <b>SWM</b> Stadtwerke München                                                                                                   |                                                      |      |            |            |                   |
| Planersteller                                                                                                                   | SKI GmbH + Co.KG<br>Lessingstraße 9<br>80336 München |      |            | Plannummer | 38232-2-12-v-115A |
| Werk                                                                                                                            |                                                      |      |            | Format     | Maßstab           |
| A                                                                                                                               |                                                      |      |            | A          | 1 : 1000          |
| Benennung                                                                                                                       | WBUP – 2D–Hydraulik Isar                             |      |            | Datum      | Name              |
| Bearb.                                                                                                                          |                                                      |      |            | 16.04.2024 | Aufleger          |
| Mindestwasserstudie Isar                                                                                                        |                                                      |      |            | 16.04.2024 | Jungnickel        |
| Fließgeschw. $Q_{Isar} = 12 \text{ m}^3/\text{s}$ , $Q_{Amper} = 6 \text{ m}^3/\text{s}$ , $Q_{Mik} = 115 \text{ m}^3/\text{s}$ |                                                      |      |            | Geprüft    |                   |
|                                                                                                                                 |                                                      |      |            |            |                   |
| Zeichnungs-Nr.                                                                                                                  | UA                                                   | Abt. | Werk       | Block      | Sachgebiet        |
|                                                                                                                                 | 1                                                    | 2    | 3          | 4          | 5                 |
| Ersatz für                                                                                                                      |                                                      |      |            |            | Ersetzt durch     |









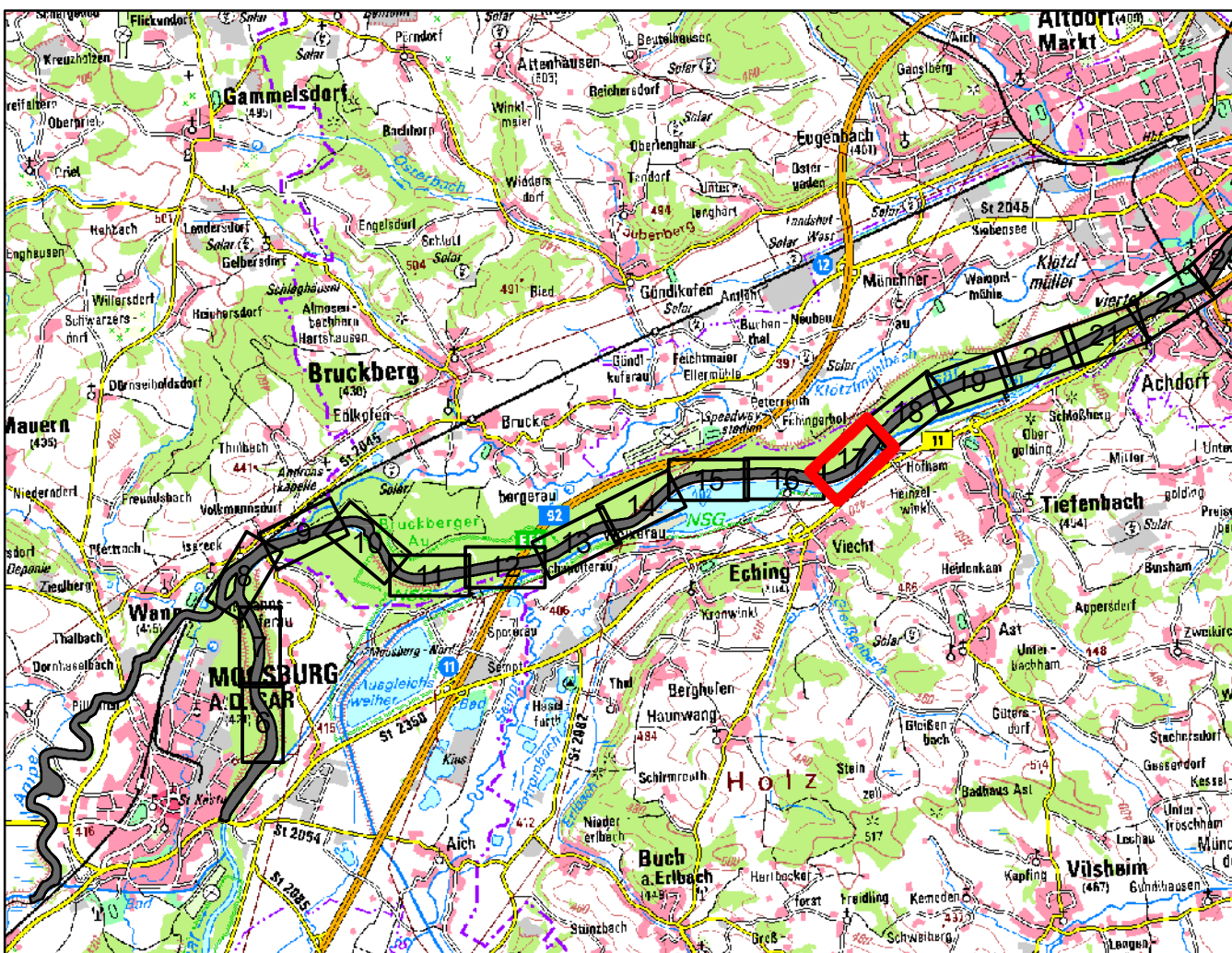
Legende

- Randbedingungen Zulauf
- Randbedingungen Auslauf
- Kilometrierung Isar / Amper
- Umgrenzung 2d-Modell

Fließgeschwindigkeit [m/s]

- 0.00 - 0.25
- 0.25 - 0.50
- 0.50 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- 2.00 - 2.50
- 2.50 - 3.00
- 3.00 - 3.50

Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832  
Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837  
Kartengrundlage:  
Orthophotos DOP40 und TK100;  
Bayerische Vermessungsverwaltung, 2023



|                                                                                                                                 |                                                      |      |            |            |                   |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------|------------|------------|-------------------|
| F                                                                                                                               |                                                      |      |            |            |                   |
| E                                                                                                                               |                                                      |      |            |            |                   |
| D                                                                                                                               |                                                      |      |            |            |                   |
| C                                                                                                                               |                                                      |      |            |            |                   |
| B                                                                                                                               |                                                      |      |            |            |                   |
| A                                                                                                                               | Anpassung Sohlraute FKM 91.7-78.4                    |      | 16.04.2024 | Aufleger   |                   |
| Index                                                                                                                           | Art der Änderung                                     |      | Datum      | Name       |                   |
|                                                                                                                                 |                                                      |      |            | AKZ/KKS    |                   |
| <b>SWM</b> Stadtwerke München                                                                                                   |                                                      |      |            |            |                   |
| Planersteller                                                                                                                   | SKI GmbH + Co.KG<br>Lessingstraße 9<br>80336 München |      |            | Plannummer | 38232-2-12-v-117A |
| Werk                                                                                                                            |                                                      |      |            | Format     | Maßstab           |
|                                                                                                                                 |                                                      |      |            | A          | 1 : 1000          |
| Benennung                                                                                                                       | WBUP – 2D–Hydraulik Isar                             |      |            | Datum      | Name              |
|                                                                                                                                 |                                                      |      |            | 16.04.2024 | Aufleger          |
| Mindestwasserstudie Isar                                                                                                        |                                                      |      | Geprüft    | 16.04.2024 | Jungnickel        |
| Fließgeschw. $Q_{Isar} = 12 \text{ m}^3/\text{s}$ , $Q_{Amper} = 6 \text{ m}^3/\text{s}$ , $Q_{Mik} = 115 \text{ m}^3/\text{s}$ |                                                      |      | Genehm.    |            |                   |
| Zeichnungs-Nr.                                                                                                                  | UA                                                   | Abt. | Werk       | Block      | Sachgebiet        |
|                                                                                                                                 | 1                                                    | 2    | 3          | 4          | 5                 |
| Ersatz für                                                                                                                      |                                                      |      |            |            | Ersetzt durch     |





**Legende**

Randbedingungen Zulauf

Randbedingungen Auslauf

Kilometrierung Isar / Amper

Umgrenzung 2d-Modell

**Fließgeschwindigkeit [m/s]**

0.00 - 0.25

0.25 - 0.50

0.50 - 1.00

1.00 - 1.50

1.50 - 2.00

2.00 - 2.50

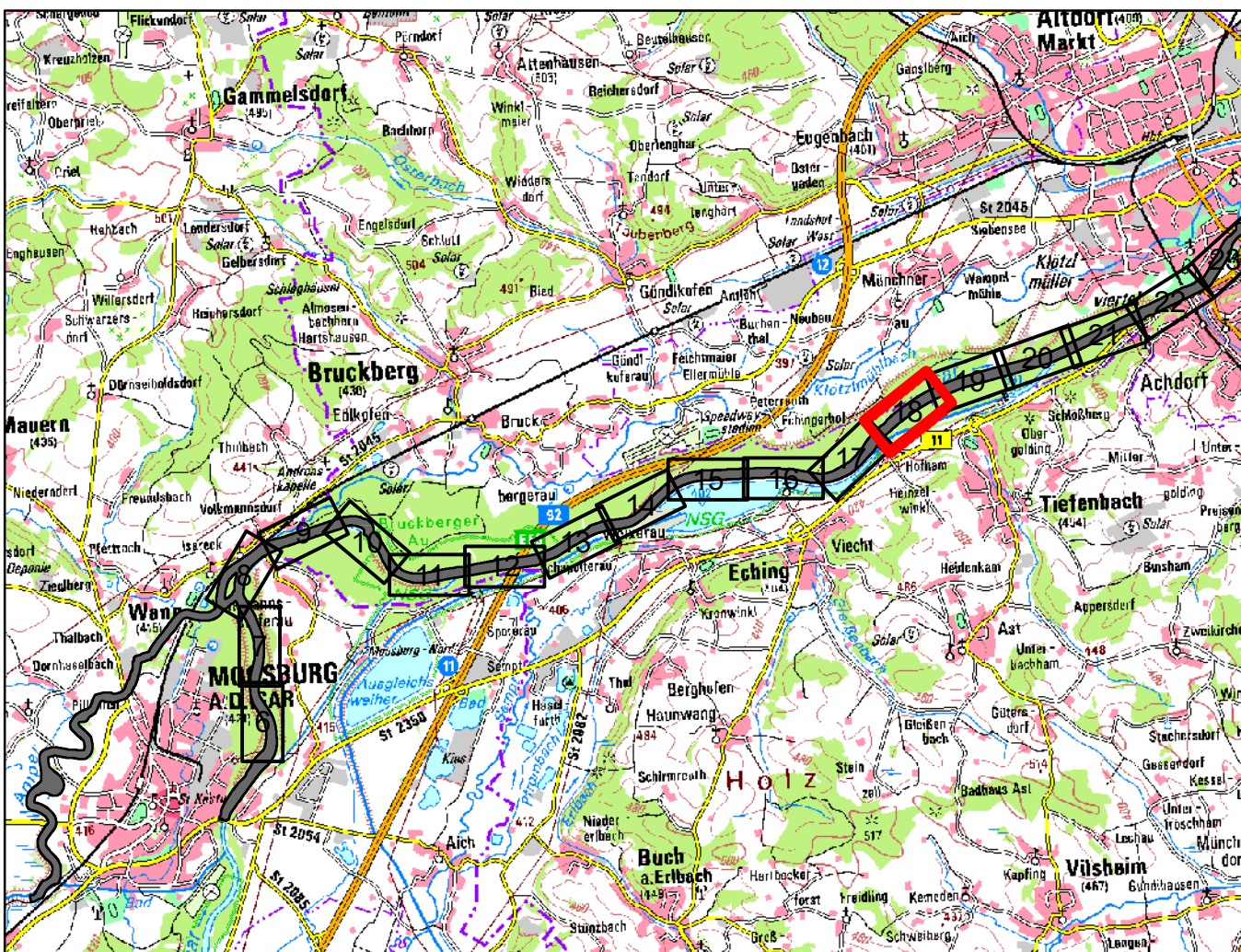
2.50 - 3.00

3.00 - 3.50

Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832

Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837

Kartengrundlage:  
Orthophotos DOP40 und TK100;  
Bayerische Vermessungsverwaltung, 2023

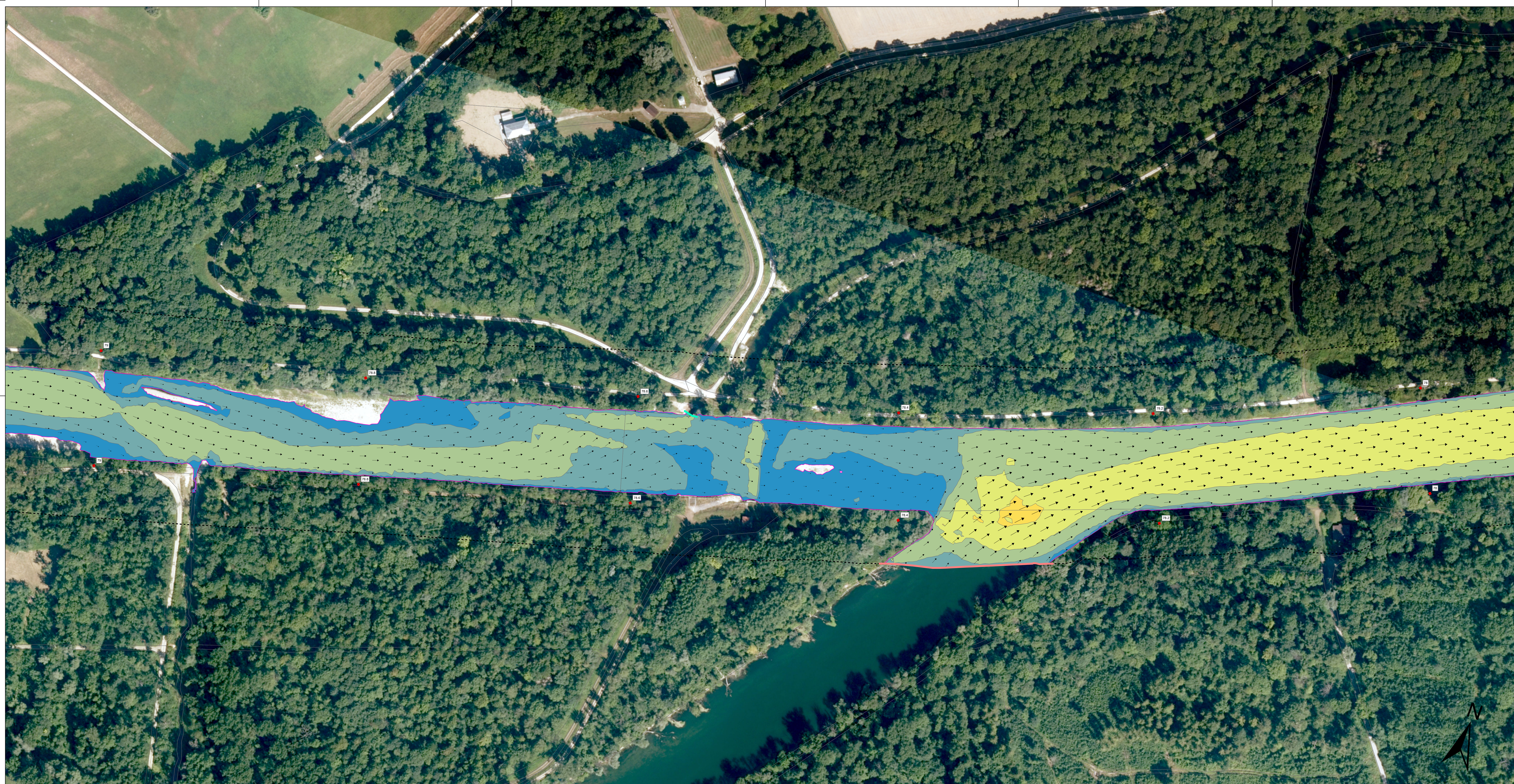


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |      |                   |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------|-------------------|------------|----------------|----------|-------|------|-------|------------|----------|-------|-----|-------|------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|
| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |      |                   |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |      |                   |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |      |                   |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |      |                   |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |      |                   |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Anpassung Sohlrauhheit FKM 91.7-78.4 |      | 16.04.2024        | Auflieger  |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Index                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Art der Änderung                     |      | Datum             | Name       |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |      |                   | AKZ/KKS    |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| <b>SWM</b> Stadtwerke München                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |      |                   |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Planersteller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |      | Plannummer        |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| SKI GmbH + Co.KG<br>Lessingstraße 9<br>80336 München                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |      | 38232-2-12-v-118A |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Werk                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                      |      | Format            | Maßstab    |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                      |      | A                 | 1 : 1000   |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Benennung                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                      |      | Datum             | Name       |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| WBUP – 2D–Hydraulik Isar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |      | 16.04.2024        | Auflieger  |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Mindestwasserstudie Isar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                      |      | Bearb.            | Geprüft    |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Fließgeschw. $Q_{Isar} = 12 \text{ m}^3/\text{s}$ , $Q_{Amper} = 6 \text{ m}^3/\text{s}$ , $Q_{Mik} = 115 \text{ m}^3/\text{s}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |      | 16.04.2024        | Jungnickel |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |      | Genehm.           |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| <table><tr><td>Zeichnungs-Nr.</td><td>UA</td><td>Abt.</td><td>Werk</td><td>Block</td><td>Sachgebiet</td><td>lfd. Nr.</td><td>Blatt</td><td>von</td><td>Blatt</td><td>Ind.</td></tr><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr><tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td></tr><tr><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td></tr><tr><td>34</td><td>35</td><td>36</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> |                                      |      |                   |            | Zeichnungs-Nr. | UA       | Abt.  | Werk | Block | Sachgebiet | lfd. Nr. | Blatt | von | Blatt | Ind. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |  |  |  |  |  |  |  |  |
| Zeichnungs-Nr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UA                                   | Abt. | Werk              | Block      | Sachgebiet     | lfd. Nr. | Blatt | von  | Blatt | Ind.       |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2                                    | 3    | 4                 | 5          | 6              | 7        | 8     | 9    | 10    | 11         |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 13                                   | 14   | 15                | 16         | 17             | 18       | 19    | 20   | 21    | 22         |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 24                                   | 25   | 26                | 27         | 28             | 29       | 30    | 31   | 32    | 33         |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 35                                   | 36   |                   |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Ersatz für                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |      |                   |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| Ersetzt durch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                      |      |                   |            |                |          |       |      |       |            |          |       |     |       |      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |









### Legende

- Randbedingungen Zulauf
- Randbedingungen Auslauf
- ♦ Kilometrierung Isar / Amper
- Umgrenzung 2d-Modell

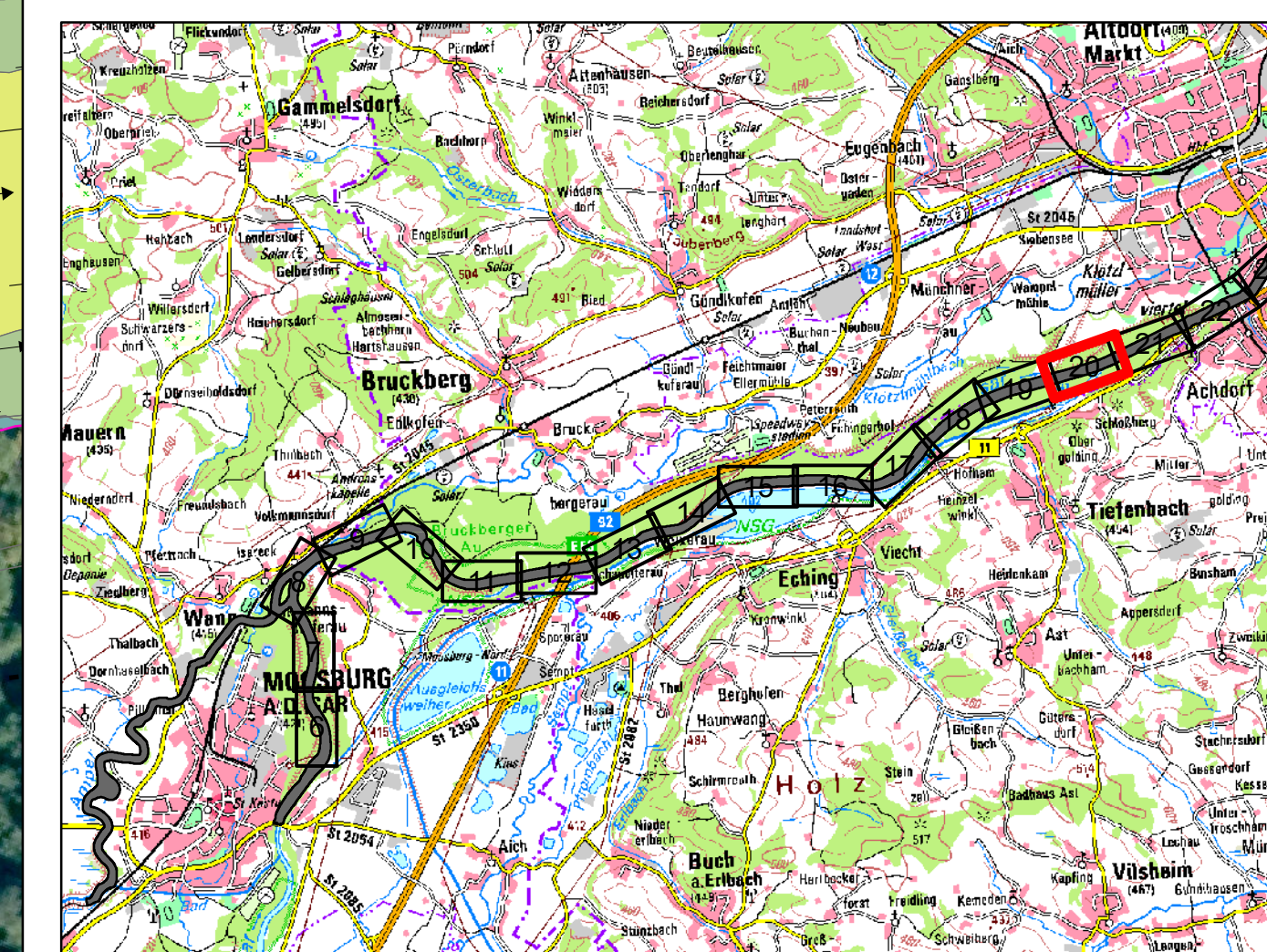
[illegible]

- 

Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832

Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837

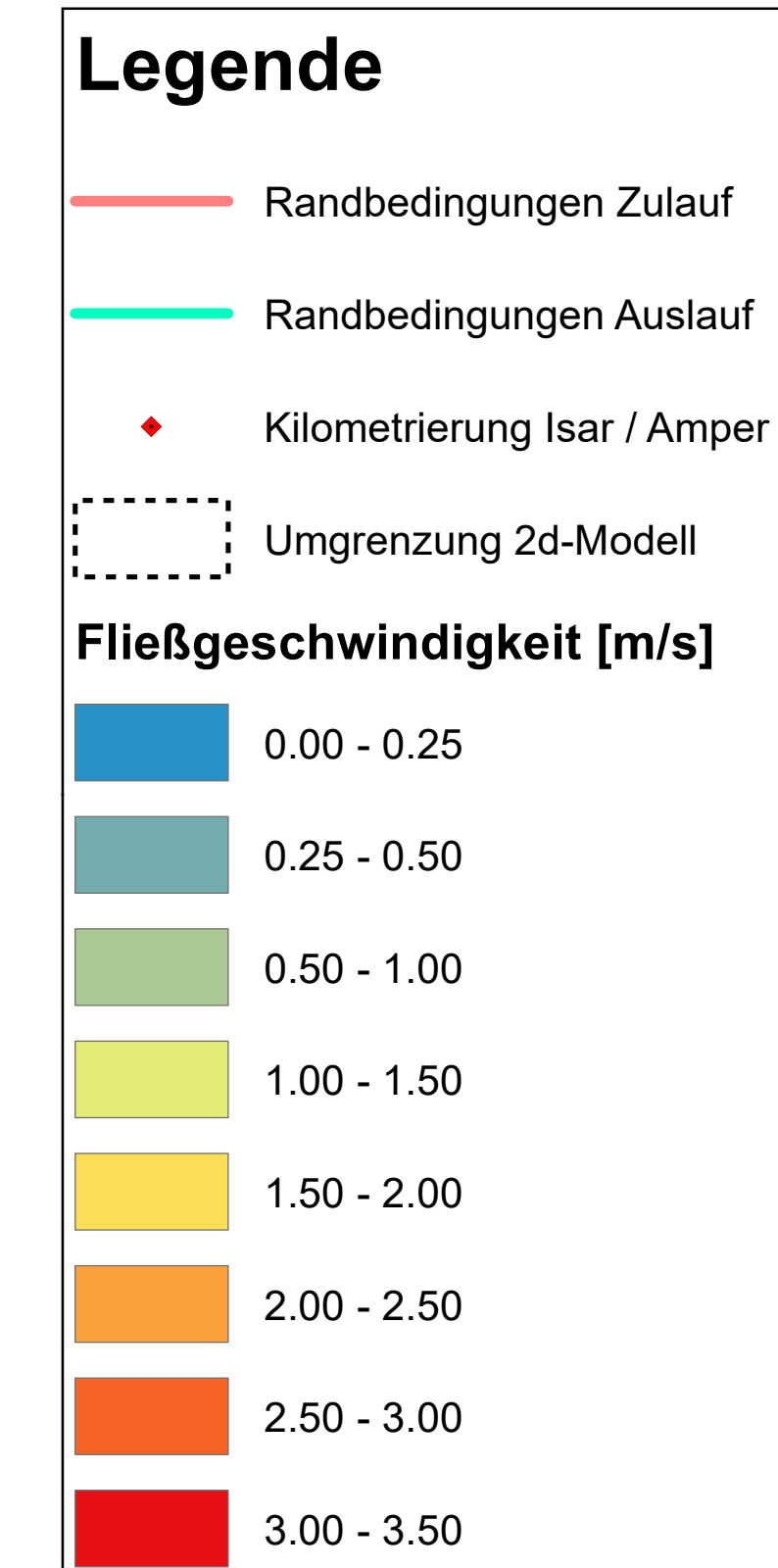
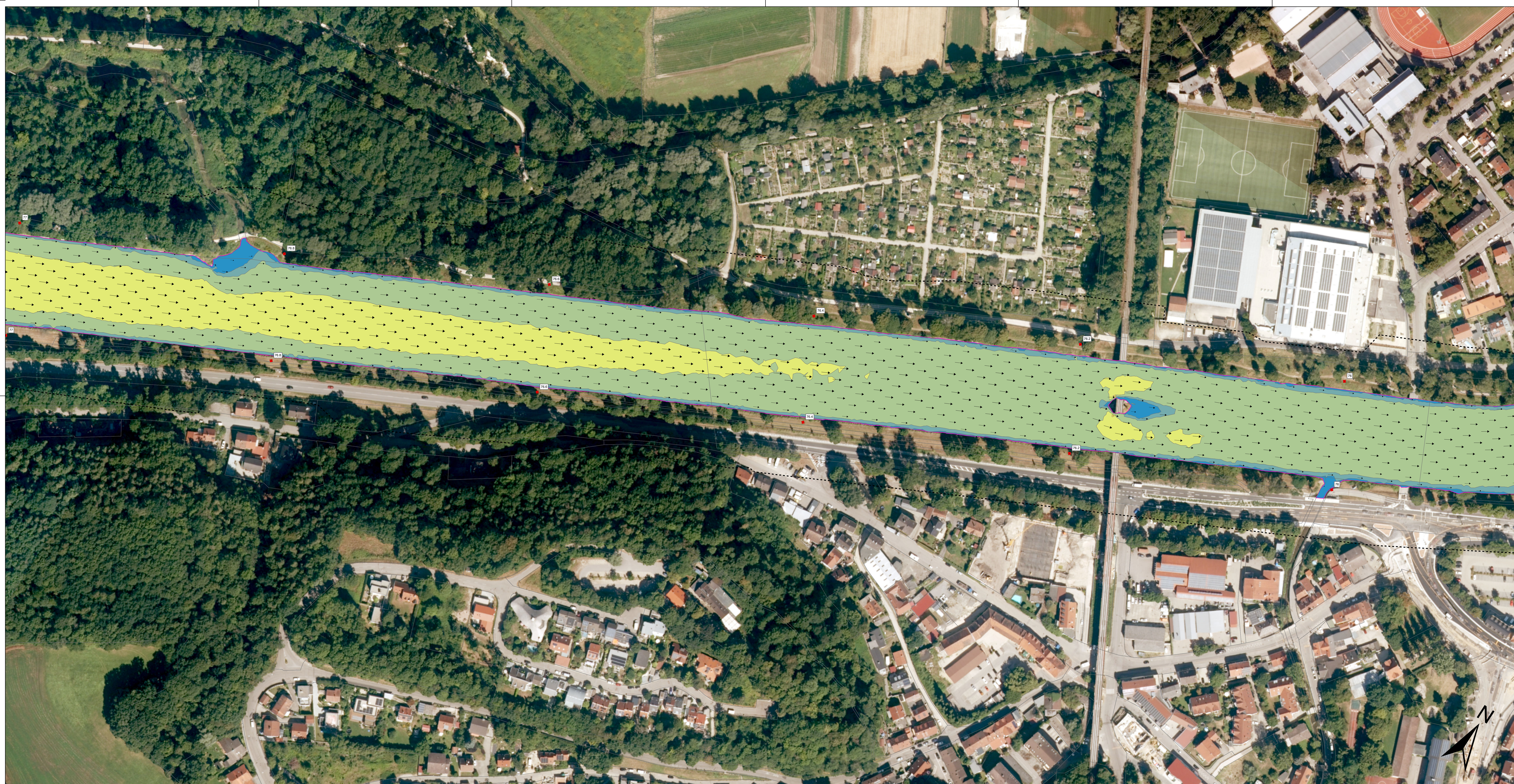
Kartengrundlage:  
Orthophotos DOP40 und TK100;  
Bayerische Vermessungsverwaltung, 2023

[illegible]





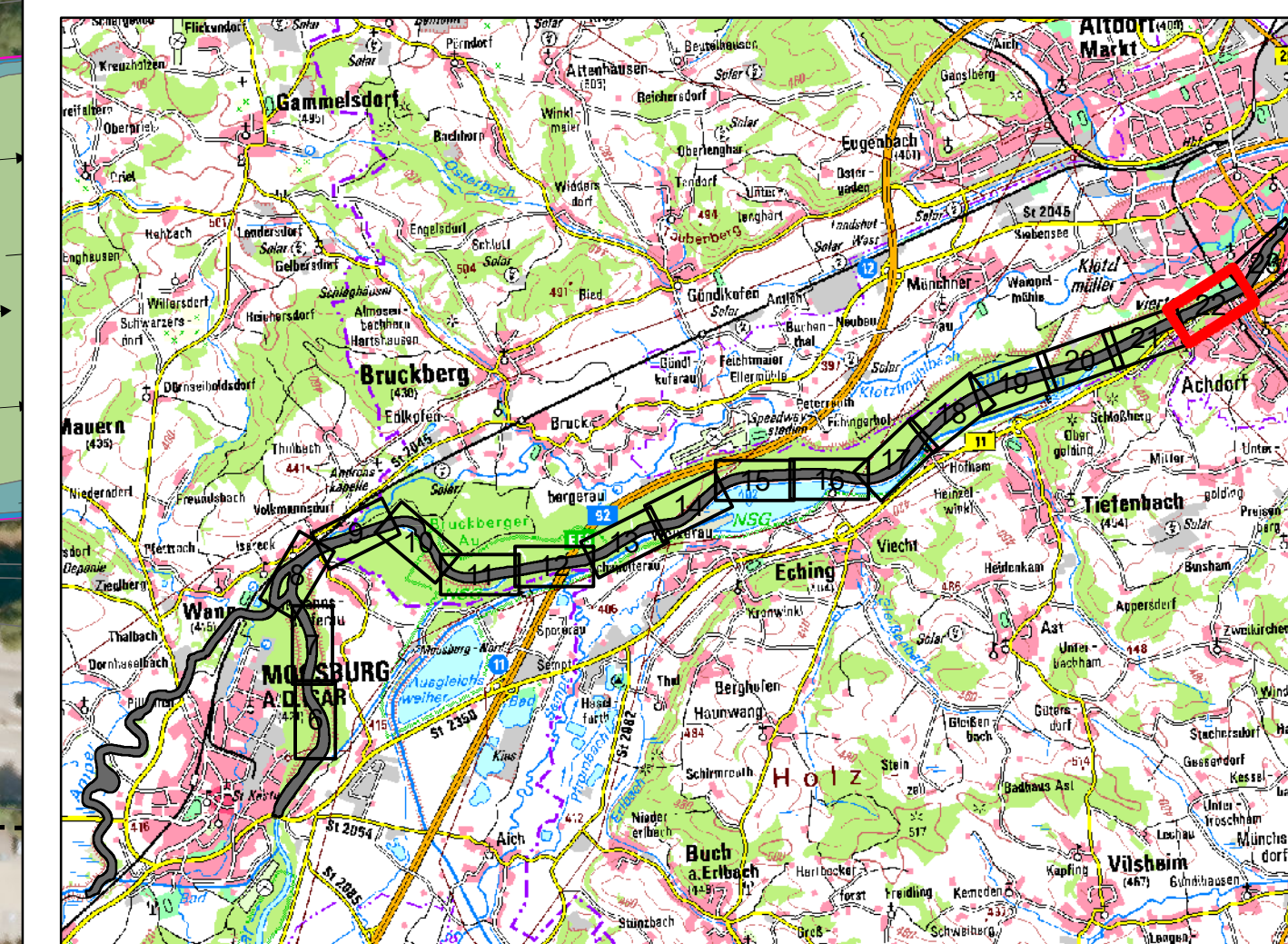




Lagebezugssystem:  
ETRS89 / UTM Zone 32N EPSG: 25832

Höhenbezugssystem:  
DHHN2016 (Status 170) EPSG: 7837

Kartengrundlage:  
Orthophotos DOP40 und TK100;  
Bayerische Vermessungsverwaltung, 2023



|                                                                                                                                 |                                                                                                                                            |                                      |                            |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------|
| F                                                                                                                               |                                                                                                                                            |                                      |                            |
| E                                                                                                                               |                                                                                                                                            |                                      |                            |
| D                                                                                                                               |                                                                                                                                            |                                      |                            |
| C                                                                                                                               |                                                                                                                                            |                                      |                            |
| B                                                                                                                               |                                                                                                                                            |                                      |                            |
| A                                                                                                                               | Anpassung Srohrauhheit FKM 91,7-78,4                                                                                                       | 16.04.2024                           | Aufleger                   |
| Index                                                                                                                           | Art der Änderung                                                                                                                           | Datum                                | Name                       |
|  Stadtwerte München                        |                                                                                                                                            | AKZ/AKS                              |                            |
| Plansteller                                                                                                                     |  SKI GmbH + Co.KG<br>Lessingstraße 9<br>80336 München | Plannummer<br><b>382312-2-v-12ZA</b> |                            |
| Werk                                                                                                                            |                                                                                                                                            | Format A                             | Maßstab<br><b>1 : 1000</b> |
| Benennung                                                                                                                       | WBUP – 2D–Hydraulik Isar                                                                                                                   | Bearb.                               | 16.04.2024 Aufleger        |
| Mindestwasserstudie Isar                                                                                                        |                                                                                                                                            | Geprüft                              | 16.04.2024 Jungnickl       |
| Fließgeschw. $Q_{Isar} = 12 \text{ m}^3/\text{s}$ , $Q_{Amper} = 6 \text{ m}^3/\text{s}$ , $Q_{AMK} = 115 \text{ m}^3/\text{s}$ |                                                                                                                                            | Genehm.                              |                            |
| Zeichnungs-Nr.                                                                                                                  | UA Abt. Werk Block Sachgebiet                                                                                                              | Ifd. Nr.                             | Blatt von Blatt            |
|                                                                                                                                 |                                                                                                                                            |                                      | Iv.                        |
|                                                                                                                                 |                                                                                                                                            |                                      |                            |
| Ersatz für                                                                                                                      | Ersetzt durch                                                                                                                              |                                      |                            |



